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ESTADOS UNIDOS MEXICANOS

SECRETARIA DE MARINA

DIRECCION GENERAL DE OCEANOGRAFIA NAVAL



ALMANAQUE NAUTICO

1993

México, D. F.

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First published 1992.

ISBN 0 11 772618 4

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EDICION MEXICANA

Disponible para la venta en la

SECRETARIA DE MARINA

Dirección General de Oceanografía Naval
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TABLAS DE CORRECCION DE ALTURAS DE 0° - 10°, DEL SOL, ESTRELLAS Y PLANETAS A₃

| Alt. Ap. | OCT.—MAR. SCL | | ABR.—SEP. | | ESTRELLAS PLANETAS. |
|----------|---------------|------------|------------|------------|---------------------|
| | Limbo Inf. | Limbo Sup. | Limbo Inf. | Limbo Sup. | |
| 0 00 | -18.2 | -50.5 | -18.4 | -50.2 | -34.5 |
| 03 | 17.5 | 49.8 | 17.8 | 49.6 | 33.8 |
| 06 | 16.9 | 49.2 | 17.1 | 48.9 | 33.2 |
| 09 | 16.3 | 48.6 | 16.5 | 48.3 | 32.6 |
| 12 | 15.7 | 48.0 | 15.9 | 47.7 | 32.0 |
| 15 | 15.1 | 47.4 | 15.3 | 47.1 | 31.4 |
| 0 18 | -14.5 | -46.8 | -14.8 | -46.6 | -30.8 |
| 21 | 14.0 | 46.3 | 14.2 | 46.0 | 30.3 |
| 24 | 13.5 | 45.8 | 13.7 | 45.5 | 29.8 |
| 27 | 12.9 | 45.2 | 13.2 | 45.0 | 29.2 |
| 30 | 12.4 | 44.7 | 12.7 | 44.5 | 28.7 |
| 33 | 11.9 | 44.2 | 12.2 | 44.0 | 28.2 |
| 0 36 | -11.5 | -43.8 | -11.7 | -43.5 | -27.8 |
| 39 | 11.0 | 43.3 | 11.2 | 43.0 | 27.3 |
| 42 | 10.5 | 42.8 | 10.8 | 42.6 | 26.8 |
| 45 | 10.1 | 42.4 | 10.3 | 42.1 | 26.4 |
| 48 | 9.6 | 41.9 | 9.9 | 41.7 | 25.9 |
| 51 | 9.2 | 41.5 | 9.5 | 41.3 | 25.5 |
| 0 54 | - 8.8 | -41.1 | - 9.1 | -40.9 | -25.1 |
| 0 57 | 8.4 | 40.7 | 8.7 | 40.5 | 24.7 |
| I 00 | 8.0 | 40.3 | 8.3 | 40.1 | 24.3 |
| 03 | 7.7 | 40.0 | 7.9 | 39.7 | 24.0 |
| 06 | 7.3 | 39.6 | 7.5 | 39.3 | 23.6 |
| 09 | 6.9 | 39.2 | 7.2 | 39.0 | 23.2 |
| I 12 | - 6.6 | -38.9 | - 6.8 | -38.6 | -22.9 |
| 15 | 6.2 | 38.5 | 6.5 | 38.3 | 22.5 |
| 18 | 5.9 | 38.2 | 6.2 | 38.0 | 22.2 |
| 21 | 5.6 | 37.9 | 5.8 | 37.6 | 21.9 |
| 24 | 5.3 | 37.6 | 5.5 | 37.3 | 21.6 |
| 27 | 4.9 | 37.2 | 5.2 | 37.0 | 21.2 |
| I 30 | - 4.6 | -36.9 | - 4.9 | -36.7 | -20.9 |
| 35 | 4.2 | 36.5 | 4.4 | 36.2 | 20.5 |
| 40 | 3.7 | 36.0 | 4.0 | 35.8 | 20.0 |
| 45 | 3.2 | 35.5 | 3.5 | 35.3 | 19.5 |
| 50 | 2.8 | 35.1 | 3.1 | 34.9 | 19.1 |
| I 55 | 2.4 | 34.7 | 2.6 | 34.4 | 18.7 |
| 2 00 | - 2.0 | -34.3 | - 2.2 | -34.0 | -18.3 |
| 05 | 1.6 | 33.9 | 1.8 | 33.6 | 17.9 |
| 10 | 1.2 | 33.5 | 1.5 | 33.3 | 17.5 |
| 15 | 0.9 | 33.2 | 1.1 | 32.9 | 17.2 |
| 20 | 0.5 | 32.8 | 0.8 | 32.6 | 16.8 |
| 25 | - 0.2 | 32.5 | 0.4 | 32.2 | 16.5 |
| 2 30 | + 0.2 | -32.1 | - 0.1 | -31.9 | -16.1 |
| 35 | 0.5 | 31.8 | + 0.2 | 31.6 | 15.8 |
| 40 | 0.8 | 31.5 | 0.5 | 31.3 | 15.5 |
| 45 | 1.1 | 31.2 | 0.8 | 31.0 | 15.2 |
| 50 | 1.4 | 30.9 | 1.1 | 30.7 | 14.9 |
| 2 55 | 1.6 | 30.7 | 1.4 | 30.4 | 14.7 |
| 3 00 | + 1.9 | -30.4 | + 1.7 | -30.1 | -14.4 |
| 05 | 2.2 | 30.1 | 1.9 | 29.9 | 14.1 |
| 10 | 2.4 | 29.9 | 2.1 | 29.7 | 13.9 |
| 15 | 2.6 | 29.7 | 2.4 | 29.4 | 13.7 |
| 20 | 2.9 | 29.4 | 2.6 | 29.2 | 13.4 |
| 25 | 3.1 | 29.2 | 2.9 | 28.9 | 13.2 |
| 3 30 | + 3.3 | -29.0 | + 3.1 | -28.7 | -13.0 |

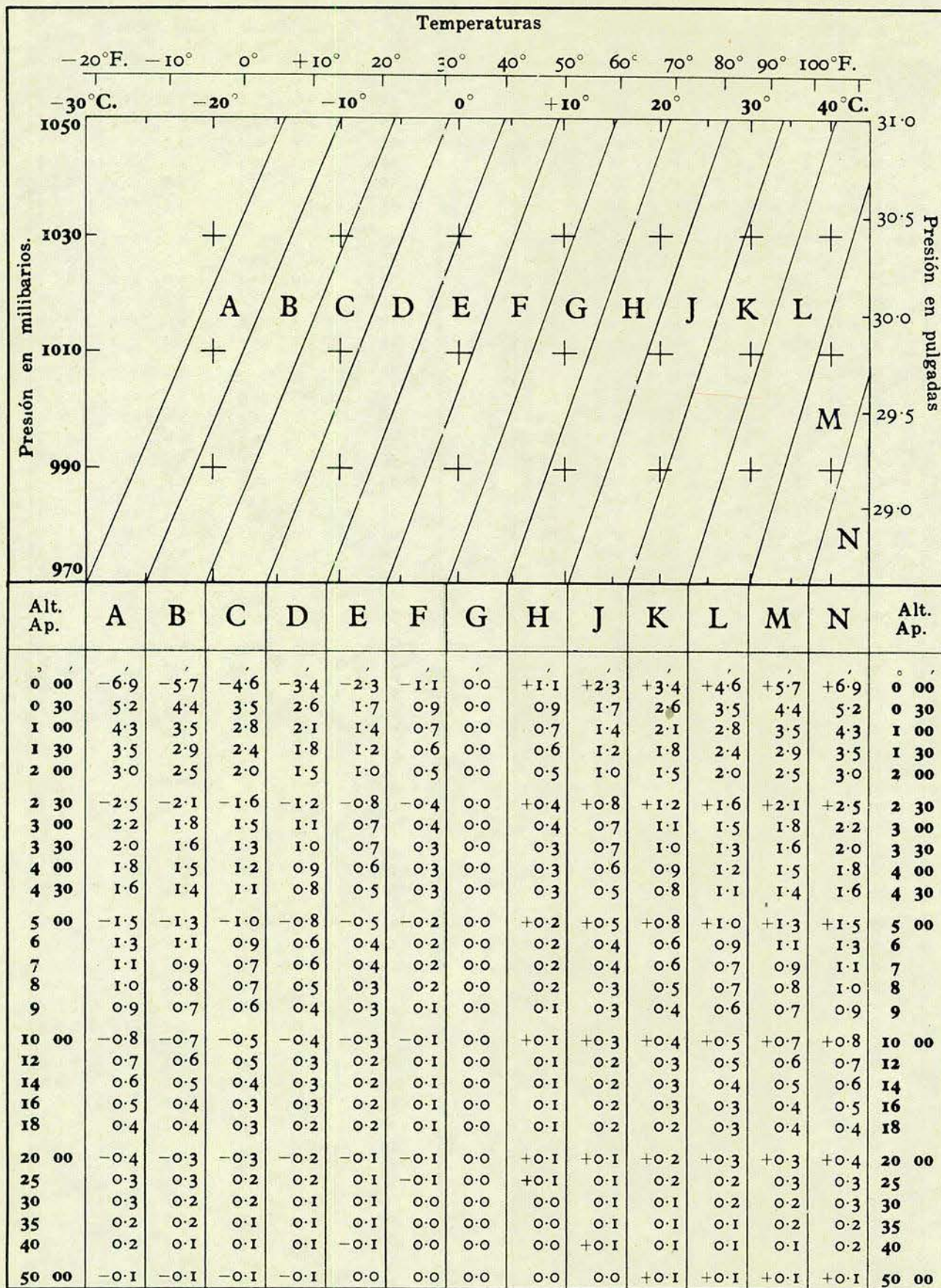
| Alt. Ap. | OCT.—MAR. SOL | | ABR.—SEP. | | ESTRELLAS PLANETAS. |
|----------|---------------|------------|------------|------------|---------------------|
| | Limbo Inf. | Limbo Sup. | Limbo Inf. | Limbo Sup. | |
| 3 30 | + 3.3 | -29.0 | + 3.1 | -28.7 | -13.0 |
| 35 | 3.6 | 28.7 | 3.3 | 28.5 | 12.7 |
| 40 | 3.8 | 28.5 | 3.5 | 28.3 | 12.5 |
| 45 | 4.0 | 28.3 | 3.7 | 28.1 | 12.3 |
| 50 | 4.2 | 28.1 | 3.9 | 27.9 | 12.1 |
| 3 55 | 4.4 | 27.9 | 4.1 | 27.7 | 11.9 |
| 4 00 | + 4.5 | -27.8 | + 4.3 | -27.5 | -11.8 |
| 05 | 4.7 | 27.6 | 4.5 | 27.3 | 11.6 |
| 10 | 4.9 | 27.4 | 4.6 | 27.2 | 11.4 |
| 15 | 5.1 | 27.2 | 4.8 | 27.0 | 11.2 |
| 20 | 5.2 | 27.1 | 5.0 | 26.8 | 11.1 |
| 25 | 5.4 | 26.9 | 5.1 | 26.7 | 10.9 |
| 4 30 | + 5.6 | -26.7 | + 5.3 | -26.5 | -10.7 |
| 35 | 5.7 | 26.6 | 5.5 | 26.3 | 10.6 |
| 40 | 5.9 | 26.4 | 5.6 | 26.2 | 10.4 |
| 45 | 6.0 | 26.3 | 5.8 | 26.0 | 10.3 |
| 50 | 6.2 | 26.1 | 5.9 | 25.9 | 10.1 |
| 4 55 | 6.3 | 26.0 | 6.0 | 25.8 | 10.0 |
| 5 00 | + 6.4 | -25.9 | + 6.2 | -25.6 | - 9.9 |
| 05 | 6.6 | 25.7 | 6.3 | 25.5 | 9.7 |
| 10 | 6.7 | 25.6 | 6.4 | 25.4 | 9.6 |
| 15 | 6.8 | 25.5 | 6.6 | 25.2 | 9.5 |
| 20 | 6.9 | 25.4 | 6.7 | 25.1 | 9.4 |
| 25 | 7.1 | 25.2 | 6.8 | 25.0 | 9.2 |
| 5 30 | + 7.2 | -25.1 | + 6.9 | -24.9 | - 9.1 |
| 35 | 7.3 | 25.0 | 7.0 | 24.8 | 9.0 |
| 40 | 7.4 | 24.9 | 7.2 | 24.6 | 8.9 |
| 45 | 7.5 | 24.8 | 7.3 | 24.5 | 8.8 |
| 50 | 7.6 | 24.7 | 7.4 | 24.4 | 8.7 |
| 5 55 | 7.7 | 24.6 | 7.5 | 24.3 | 8.6 |
| 6 00 | + 7.8 | -24.5 | + 7.6 | -24.2 | - 8.5 |
| 10 | 8.0 | 24.3 | 7.8 | 24.0 | 8.3 |
| 20 | 8.2 | 24.1 | 8.0 | 23.8 | 8.1 |
| 30 | 8.4 | 23.9 | 8.1 | 23.7 | 7.9 |
| 40 | 8.6 | 23.7 | 8.3 | 23.5 | 7.7 |
| 6 50 | 8.7 | 23.6 | 8.5 | 23.3 | 7.6 |
| 7 00 | + 8.9 | -23.4 | + 8.6 | -23.2 | - 7.4 |
| 10 | 9.1 | 23.2 | 8.8 | 23.0 | 7.2 |
| 20 | 9.2 | 23.1 | 9.0 | 22.8 | 7.1 |
| 30 | 9.3 | 23.0 | 9.1 | 22.7 | 7.0 |
| 40 | 9.5 | 22.8 | 9.2 | 22.6 | 6.8 |
| 7 50 | 9.6 | 22.7 | 9.4 | 22.4 | 6.7 |
| 8 00 | + 9.7 | -22.6 | + 9.5 | -22.3 | - 6.6 |
| 10 | 9.9 | 22.4 | 9.6 | 22.2 | 6.4 |
| 20 | 10.0 | 22.3 | 9.7 | 22.1 | 6.3 |
| 30 | 10.1 | 22.2 | 9.8 | 22.0 | 6.2 |
| 40 | 10.2 | 22.1 | 10.0 | 21.8 | 6.1 |
| 8 50 | 10.3 | 22.0 | 10.1 | 21.7 | 6.0 |
| 9 00 | +10.4 | -21.9 | +10.2 | -21.6 | - 5.9 |
| 10 | 10.5 | 21.8 | 10.3 | 21.5 | 5.8 |
| 20 | 10.6 | 21.7 | 10.4 | 21.4 | 5.7 |
| 30 | 10.7 | 21.6 | 10.5 | 21.3 | 5.6 |
| 40 | 10.8 | 21.5 | 10.6 | 21.2 | 5.5 |
| 9 50 | 10.9 | 21.4 | 10.6 | 21.2 | 5.4 |
| 10 00 | +11.0 | -21.3 | +10.7 | -21.1 | - 5.3 |

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En la página siguiente se dan correcciones adicionales por temperatura y presión. Para el caso de observaciones con sextante de burbuja, ignórese la depresión y úsense las correcciones de estrellas para Sol, planetas y estrellas.

A₄ TABLAS DE CORRECCION DE ALTURAS — CORRECCIONES ADICIONALES

CORRECCIONES ADICIONALES A LA REFRACCION PARA CONDICIONES ANORMALES



Se entra a la gráfica con los argumentos temperatura y presión para encontrar la letra correspondiente a la zona; usando como argumentos esta letra de zona y la altura aparente (altura del sextante corregida por depresión), se toma la corrección de la tabla. Esta corrección se aplica a la lectura del sextante en adición a las correcciones para condiciones normales (para el Sol, estrellas y planetas de la página A₂ y de la Luna) de las páginas XXXIV y XXXV.

P R E F A C I O

LA PRESENTE PUBLICACION, CONSTITUYE LA VERSION MEXICANA DEL
" THE NAUTICAL ALMANAC " BRITANICO Y AMERICANO QUE ES PRO -
DUCIDO RESPECTIVAMENTE POR EL OBSERVATORIO DE GREENWICH EN
LA GRAN BRETAÑA, Y POR EL OBSERVATORIO NAVAL DE LOS ESTADOS
UNIDOS DE AMERICA. ES IDENTICA EN SU CONTENIDO NUMERICO,
PRESENTANDO ALGUNAS VARIANTES EN EL ALFABETICO.

SECRETARIA DE MARINA
ARMADA DE MEXICO
DIRECCION GENERAL DE OCEANOGRAFIA NAVAL
DIRECCION DE HIDROGRAFIA

| | | | |
|---|--------------|----|------------|
| Año Nuevo | Viernes 1 | de | Enero |
| Constitución Política de los Estados Unidos Mexicanos | Viernes 5 | de | Febrero |
| Día de la Bandera Nacional | Miércoles 24 | de | Febrero |
| Natalicio del Lic. Dn. Benito Juárez García | Domingo 21 | de | Marzo |
| Defensa del Puerto de Veracruz | Miércoles 21 | de | Abril |
| Día del Trabajo | Sábado 1° | de | Mayo |
| Batalla de Puebla | Miércoles 5 | de | Mayo |
| Día de la Marina Nacional | Martes 1° | de | Junio |
| Muerte del Lic. Dn. Benito Juárez García | Domingo 18 | de | Julio |
| Muerte de Dn. Miguel Hidalgo y Costilla | Viernes 30 | de | Julio |
| Independencia Nacional | Jueves 16 | de | Septiembre |
| Día de la Raza | Martes 12 | de | Octubre |
| Revolución Mexicana | Sábado 20 | de | Noviembre |
| Día de la Armada de México | Martes 23 | de | Noviembre |
| Muerte de Dn. José Ma. Morelos y Pavón | Miércoles 22 | de | Diciembre |
| Navidad | Sábado 25 | de | Diciembre |

F A S E S D E L A L U N A

LUNA NUEVA

| | d | h | m |
|------|----|----|----|
| Ene. | 22 | 18 | 27 |
| Feb. | 21 | 13 | 05 |
| Mar. | 23 | 07 | 14 |
| Abr. | 21 | 23 | 49 |
| May. | 21 | 14 | 06 |
| Jun. | 20 | 01 | 52 |
| Jul. | 19 | 11 | 24 |
| Ago. | 17 | 19 | 28 |
| Sep. | 16 | 03 | 10 |
| Oct. | 15 | 11 | 36 |
| Nov. | 13 | 21 | 34 |
| Dic. | 13 | 09 | 27 |

LUNA LLENA

| | d | h | m |
|------|----|----|----|
| Ene. | 8 | 12 | 37 |
| Feb. | 6 | 23 | 55 |
| Mar. | 8 | 09 | 46 |
| Abr. | 6 | 18 | 43 |
| May. | 6 | 03 | 34 |
| Jun. | 4 | 13 | 02 |
| Jul. | 3 | 23 | 45 |
| Ago. | 2 | 12 | 10 |
| Sep. | 1 | 02 | 33 |
| Sep. | 30 | 18 | 54 |
| Oct. | 30 | 12 | 38 |
| Nov. | 29 | 06 | 31 |
| Dic. | 28 | 23 | 05 |

CUARTO CRECIENTE

| | d | h | m |
|------|----|----|----|
| Ene. | 1 | 03 | 38 |
| Ene. | 30 | 23 | 20 |
| Mar. | 1 | 15 | 46 |
| Mar. | 31 | 04 | 10 |
| Abr. | 29 | 12 | 40 |
| May. | 28 | 18 | 21 |
| Jun. | 26 | 22 | 43 |
| Jul. | 26 | 03 | 25 |
| Ago. | 24 | 09 | 57 |
| Sep. | 22 | 19 | 32 |
| Oct. | 22 | 08 | 52 |
| Nov. | 21 | 02 | 03 |
| Dic. | 20 | 22 | 26 |

CUARTO MENGUANTE

| | d | h | m |
|------|----|----|----|
| Ene. | 15 | 04 | 01 |
| Feb. | 13 | 14 | 57 |
| Mar. | 15 | 04 | 16 |
| Abr. | 13 | 19 | 39 |
| May. | 13 | 12 | 20 |
| Jun. | 12 | 05 | 36 |
| Jul. | 11 | 22 | 49 |
| Ago. | 10 | 15 | 19 |
| Sep. | 9 | 06 | 26 |
| Oct. | 8 | 19 | 35 |
| Nov. | 7 | 06 | 36 |
| Dic. | 6 | 15 | 49 |

Tiempo del Meridiano de Greenwich: T.M.G. = (T.U.)

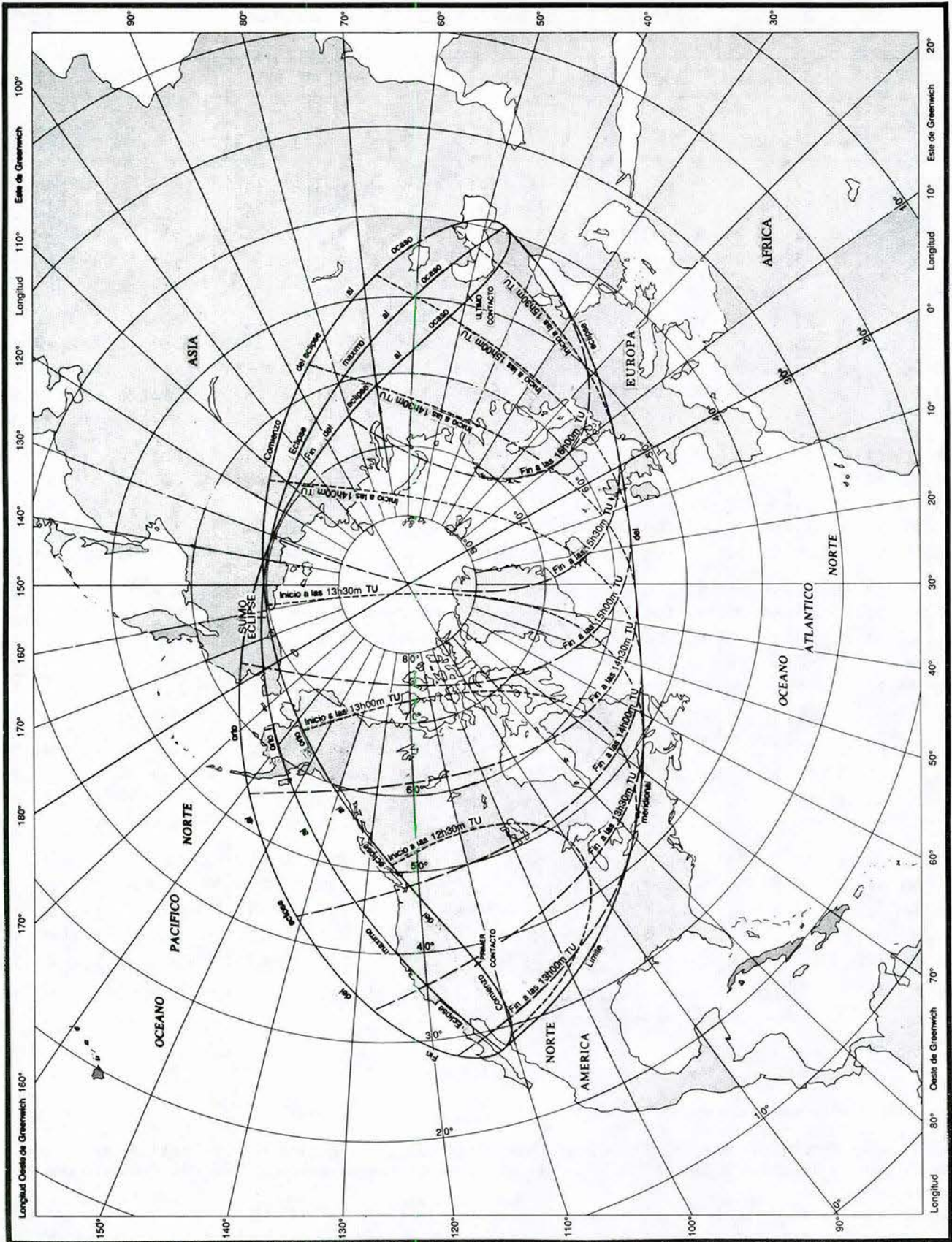
DIAS DE LA SEMANA Y DIAS DEL AÑO

| Día del Mes | ENE. | | FEB. | | MAR. | | ABR. | | MAY. | | JUN. | | JUL. | | AGO. | | SEP. | | OCT. | | NOV. | | DIC. | |
|-------------|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|
| | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año | Sem. | Año |
| 1 | V. | 1 | L. | 32 | L. | 60 | J. | 91 | S. | 121 | M. | 152 | J. | 182 | D. | 213 | Mi. | 244 | V. | 274 | L. | 305 | Mi. | 335 |
| 2 | S. | 2 | M. | 33 | M. | 61 | V. | 92 | D. | 122 | Mi. | 153 | V. | 183 | L. | 214 | J. | 245 | S. | 275 | M. | 306 | J. | 336 |
| 3 | D. | 3 | Mi. | 34 | Mi. | 62 | S. | 93 | L. | 123 | J. | 154 | S. | 184 | M. | 215 | V. | 246 | D. | 276 | Mi. | 307 | V. | 337 |
| 4 | L. | 4 | J. | 35 | J. | 63 | D. | 94 | M. | 124 | V. | 155 | D. | 185 | Mi. | 216 | S. | 247 | L. | 277 | J. | 308 | S. | 338 |
| 5 | M. | 5 | V. | 36 | V. | 64 | L. | 95 | Mi. | 125 | S. | 156 | L. | 186 | J. | 217 | D. | 248 | M. | 278 | V. | 309 | D. | 339 |
| 6 | Mi. | 6 | S. | 37 | S. | 65 | M. | 96 | J. | 126 | D. | 157 | M. | 187 | V. | 218 | L. | 249 | Mi. | 279 | S. | 310 | L. | 340 |
| 7 | J. | 7 | D. | 38 | D. | 66 | Mi. | 97 | V. | 127 | L. | 158 | Mi. | 188 | S. | 219 | M. | 250 | J. | 280 | D. | 311 | M. | 341 |
| 8 | V. | 8 | L. | 39 | L. | 67 | J. | 98 | S. | 128 | M. | 159 | J. | 189 | D. | 220 | Mi. | 251 | V. | 281 | L. | 312 | Mi. | 342 |
| 9 | S. | 9 | M. | 40 | M. | 68 | V. | 99 | D. | 129 | Mi. | 160 | V. | 190 | L. | 221 | J. | 252 | S. | 282 | M. | 313 | J. | 343 |
| 10 | D. | 10 | Mi. | 41 | Mi. | 69 | S. | 100 | L. | 130 | J. | 161 | S. | 191 | M. | 222 | V. | 253 | D. | 283 | Mi. | 314 | V. | 344 |
| 11 | L. | 11 | J. | 42 | J. | 70 | D. | 101 | M. | 131 | V. | 162 | D. | 192 | Mi. | 223 | S. | 254 | L. | 284 | J. | 315 | S. | 345 |
| 12 | M. | 12 | V. | 43 | V. | 71 | L. | 102 | Mi. | 132 | S. | 163 | L. | 193 | J. | 224 | D. | 255 | M. | 285 | V. | 316 | D. | 346 |
| 13 | Mi. | 13 | S. | 44 | S. | 72 | M. | 103 | J. | 133 | D. | 164 | M. | 194 | V. | 225 | L. | 256 | Mi. | 286 | S. | 317 | L. | 347 |
| 14 | J. | 14 | D. | 45 | D. | 73 | Mi. | 104 | V. | 134 | L. | 165 | Mi. | 195 | S. | 226 | M. | 257 | J. | 287 | D. | 318 | M. | 348 |
| 15 | V. | 15 | L. | 46 | L. | 74 | J. | 105 | S. | 135 | M. | 166 | J. | 196 | D. | 227 | Mi. | 258 | V. | 288 | L. | 319 | Mi. | 349 |
| 16 | S. | 16 | M. | 47 | M. | 75 | V. | 106 | D. | 136 | Mi. | 167 | V. | 197 | L. | 228 | J. | 259 | S. | 289 | M. | 320 | J. | 350 |
| 17 | D. | 17 | Mi. | 48 | Mi. | 76 | S. | 107 | L. | 137 | J. | 168 | S. | 198 | M. | 229 | V. | 260 | D. | 290 | Mi. | 321 | V. | 351 |
| 18 | L. | 18 | J. | 49 | J. | 77 | D. | 108 | M. | 138 | V. | 169 | D. | 199 | Mi. | 230 | S. | 261 | L. | 291 | J. | 322 | S. | 352 |
| 19 | M. | 19 | V. | 50 | V. | 78 | L. | 109 | Mi. | 139 | S. | 170 | L. | 200 | J. | 231 | D. | 262 | M. | 292 | V. | 323 | D. | 353 |
| 20 | Mi. | 20 | S. | 51 | S. | 79 | M. | 110 | J. | 140 | D. | 171 | M. | 201 | V. | 232 | L. | 263 | Mi. | 293 | S. | 324 | L. | 354 |
| 21 | J. | 21 | D. | 52 | D. | 80 | Mi. | 111 | V. | 141 | L. | 172 | Mi. | 202 | S. | 233 | M. | 264 | J. | 294 | D. | 325 | M. | 355 |
| 22 | V. | 22 | L. | 53 | L. | 81 | J. | 112 | S. | 142 | M. | 173 | J. | 203 | D. | 234 | Mi. | 265 | V. | 295 | L. | 326 | Mi. | 356 |
| 23 | S. | 23 | M. | 54 | M. | 82 | V. | 113 | D. | 143 | Mi. | 174 | V. | 204 | L. | 235 | J. | 266 | S. | 296 | M. | 327 | J. | 357 |
| 24 | D. | 24 | Mi. | 55 | Mi. | 83 | S. | 114 | L. | 144 | J. | 175 | S. | 205 | M. | 236 | V. | 267 | D. | 297 | Mi. | 328 | V. | 358 |
| 25 | L. | 25 | J. | 56 | J. | 84 | D. | 115 | M. | 145 | V. | 176 | D. | 206 | Mi. | 237 | S. | 268 | L. | 298 | J. | 329 | S. | 359 |
| 26 | M. | 26 | V. | 57 | V. | 85 | L. | 116 | Mi. | 146 | S. | 177 | L. | 207 | J. | 238 | D. | 269 | M. | 299 | V. | 330 | D. | 360 |
| 27 | Mi. | 27 | S. | 58 | S. | 86 | M. | 117 | J. | 147 | D. | 178 | M. | 208 | V. | 239 | L. | 270 | Mi. | 300 | S. | 331 | L. | 361 |
| 28 | J. | 28 | D. | 59 | D. | 87 | Mi. | 118 | V. | 148 | L. | 179 | Mi. | 209 | S. | 240 | M. | 271 | J. | 301 | D. | 332 | M. | 362 |
| 29 | V. | 29 | | | L. | 88 | J. | 119 | S. | 149 | M. | 180 | J. | 210 | D. | 241 | Mi. | 272 | V. | 302 | L. | 333 | Mi. | 363 |
| 30 | S. | 30 | | | M. | 89 | V. | 120 | D. | 150 | Mi. | 181 | V. | 211 | L. | 242 | J. | 273 | S. | 303 | M. | 334 | J. | 364 |
| 31 | D. | 31 | | | Mi. | 90 | | | L. | 151 | | | S. | 212 | M. | 243 | | | D. | 304 | | | V. | 365 |

ECLIPSES

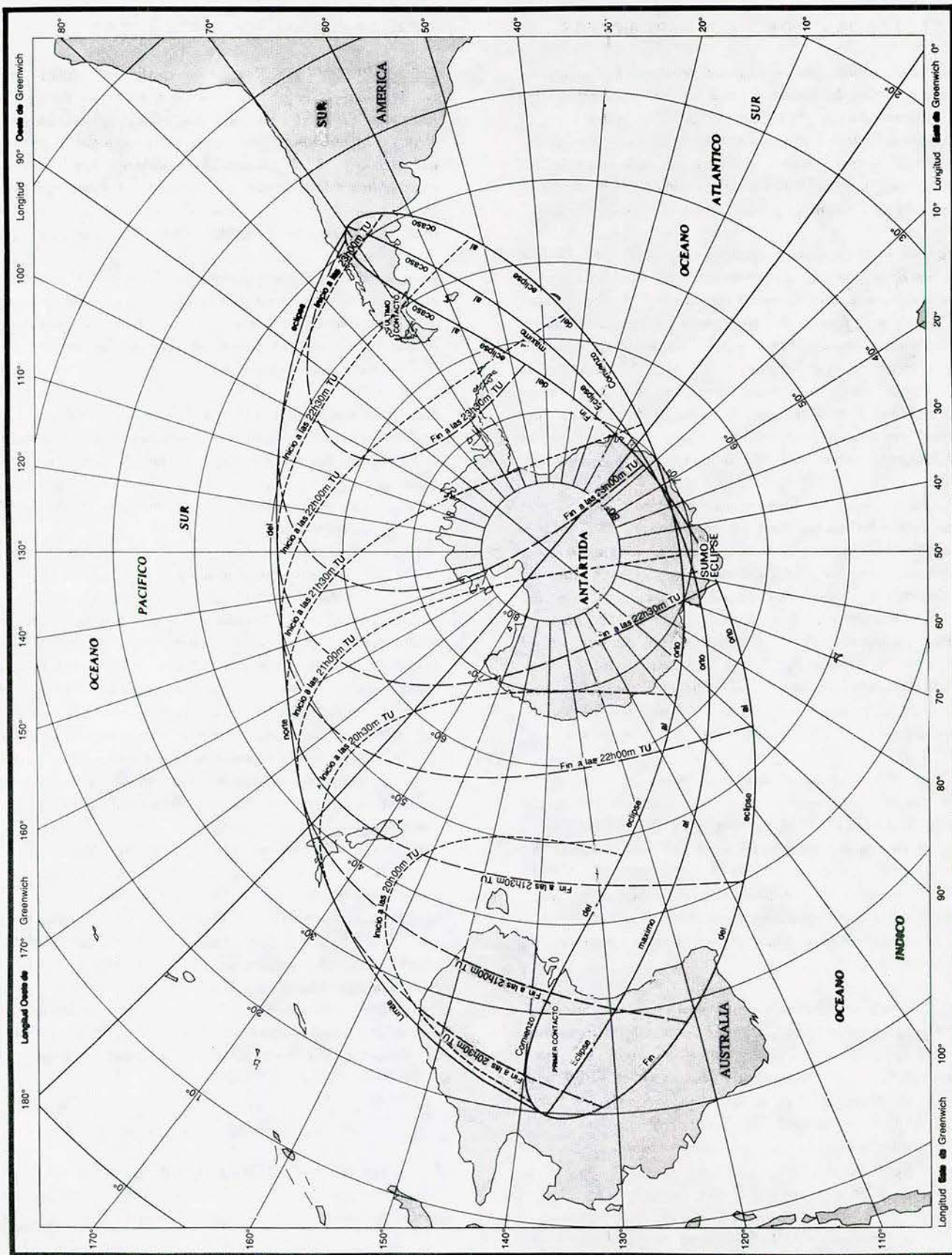
Hay cuatro eclipses, dos de Sol y dos de Luna.

- 1.- Eclipse Parcial de Sol, el 21 de Mayo. Ver diagramas en la página 6. El eclipse principia a las 12^h 19^m y finaliza a las 16^h 20^m, en el intervalo de máximo eclipse 0.74 del diámetro del Sol se obscurece.
- 2.- Eclipse total de Luna, el 4 de Junio. El eclipse inicia a las 11^h 12^m y termina a las 14^h 50^m, la fase total principia a las 12^h 13^m y finaliza a las 13^h 49^m. Es visible desde la punta extrema de América del Sur, la costa oeste de América del Norte, el Océano Pacífico, Antártica, Australasia y Sureste de Asia.
- 3.- Eclipse Parcial de Sol, el 13 de Noviembre. Ver diagramas en la página 7. El Eclipse principia a las 19^h 46^m y finaliza a las 23^h 43^m; en el intervalo de máximo eclipse 0.93 del diámetro del Sol se obscurece.
- 4.- Eclipse Total, de Luna, el 29 de Noviembre. El eclipse inicia a las 04^h 40^m y termina a las 08^h 10^m; la fase total principia a las 06^h 02^m y finaliza a las 06^h 48^m. Es visible desde la mayor parte de Europa incluyendo las Islas Británicas, el oeste de Africa, Islandia, Groenlandia, las regiones Articas, el noreste de Asia y El Continente Americano.



DIAGRAMAS DEL ECLIPSE SOLAR

Las características principales mostradas en los diagramas son: sobre las trayectorias de eclipse total y anular, los límites hacia el norte y hacia el sur de eclipse parcial, las curvas de orto y ocaso, líneas límite las cuales muestran las horas de principio y término de eclipse parcial a intervalos de cada media hora.



DIAGRAMAS DEL ECLIPSE SOLAR

Detalles más amplios sobre las trayectorias y tiempos del eclipse central, son mostrados en el *Astronomical Almanac*.

VISIBILIDAD DE LOS PLANETAS

VENUS, es un astro brillante en el atardecer desde los inicios del año hasta los finales de Marzo; cuando está muy cerca del Sol para su observación. A principios de Abril reaparece en el amanecer, cuando puede ser visto hasta unos días después, de los principios de Diciembre, cuando está otra vez muy cerca del Sol para su observación. Venus está en conjunción con Mercurio el 16 de Abril y el 14 de Noviembre y con Júpiter el 8 de Noviembre.

MARTE, puede verse en Gemini desde principios de año. El 7 de Enero está en oposición cuando puede ser visto en toda la noche, su elongación decrece gradualmente (pasando 5°S. de "Pollux" el 14 de Abril) y a finales de Abril pasa adentro de Cancer, cuando solamente puede verse en el atardecer. Después continúa a través de : Leo (pasando 0.8°N de "Regulus" el 22 de Junio), Virgo pasando 2° N de "Spica" el 16 de Septiembre y Libra desde el 3 de Noviembre y hasta fin de año está muy cerca del Sol, para su observación. Marte está en conjunción con Júpiter el 7 de Septiembre y con Mercurio el 6 y el 28 de Octubre.

JUPITER, puede verse en Virgo desde principios de año aún después de la media noche. Está en oposición el 30 de Marzo cuando se puede ver durante toda la noche. Su elongación hacia el Este, entonces decrece gradualmente, hasta que a finales de Junio, solamente se puede ver en el atardecer y desde los principios de Octubre cuando está muy cerca del Sol para su observación. Reaparece en los inicios de Noviembre en el amanecer inmóvil dentro de Virgo donde permanece hasta mediados de Diciembre, cuando pasa hacia el interior de Libra. Júpiter está en conjunción con Marte el 7 de Septiembre con Mercurio el 24 de Septiembre y con Venus el 8 de Noviembre.

SATURNO, puede verse en el atardecer en Capricornus hasta finales de Enero cuando está muy cerca del Sol para su observación. Reaparece en el amanecer al final de Febrero, pasando al interior de Aquarius en los finales de Marzo hasta estar en oposición el 19 de Agosto, cuando es visible, a través de toda la noche. Su elongación hacia el Este decrece gradualmente, hasta regresar dentro de Capricornus, hasta por mediados de Noviembre solamente se puede ver en el atardecer y a finales de Diciembre retorna a Aquarius.

MERCURIO, solo puede verse a poca altura al Este antes del amanecer e igualmente al Oeste, después del ocaso (al principio y al término del crepúsculo civil). Es visible en el amanecer entre las siguientes fechas aproximadas: del 1o. (-0.5) al 8 de Enero (-0.7); del 16 de Marzo (+2.6) al 8 de Mayo (-1.3); del 24 de Julio (+2.5) al 21 de Agosto (-1.5) y del 12 de Noviembre (+1.6) al 18 de Diciembre (-0.7). El planeta es más brillante al final de cada período. Es visible en el atardecer entre las siguientes fechas aproximadas: del 5 de Febrero (-1.2) al 2 de Marzo (+1.8); del 24 de Mayo (-1.4) al 6 de Julio (+2.9) y del 9 de Septiembre (-0.9) al 31 de Octubre (+1.9). El planeta es más brillante al principio de cada período. Los números entre paréntesis son las magnitudes. Mercurio transita por el disco del Sol el 6 de Noviembre desde las 03^h 06^m hasta las 04^h 47^m; el suceso es visible desde Hawái, el Océano Pacífico excepto la parte oriental, Australasia, Asia excepto el extremo Norte, Océano Indico y el Este de Africa.

DIAGRAMAS DE LOS PLANETAS

DESCRIPCION GENERAL. Para cualquier fecha durante el año, el diagrama de la página opuesta muestra en forma gráfica, la hora media local del paso del: Sol y los cinco planetas; Mercurio, Venus, Marte, Júpiter y Saturno, por el meridiano y para cada 30° del A.H.S.; si el usuario lo requiere, puede trazar líneas intermedias a las trazadas en el diagrama, para algunas estrellas en particular. Esto es, con el propósito de suministrar una información general utilizable para los planetas y las estrellas, en su observación.

A cada lado de la línea que marca el tiempo del paso del Sol por el meridiano se muestra una banda sombreada de 45^m de ancho, indicando que los planetas y estrellas que crucen el meridiano a menos de 45^m del cruce del Sol estarán demasiado cercanos al mismo, para poder observarse.

Método de uso e interpretación. Para cualquier fecha el diagrama suministra inmediatamente las horas medias locales, del paso por el meridiano del Sol, los planetas, las estrellas y la información siguiente:

- Si un planeta está demasiado cerca del Sol para observarse;
- Algunas indicaciones de estas posiciones en el cielo, especialmente durante los crepúsculos;
- La proximidad de distintos planetas.

Cuando el paso por el meridiano de un planeta exterior ocurre a medianoche; el astro estará en oposición al Sol y será visible toda la noche; un planeta puede ser observado durante los crepúsculos, tanto matutino como vespertino. A medida que la hora del paso por el meridiano decrece; no es recomendable hacer observaciones del astro por la mañana, porque éste tiende a desaparecer ocasionalmente, pero cuando su altura está sobre el horizonte al Este, la hora del crepúsculo incrementa gradualmente; esto continúa hasta que el astro se encuentra sobre el meridiano, durante el crepúsculo vespertino.

A partir de ahí el cuerpo celeste es observable sobre el horizonte al Oeste, y su altura en el crepúsculo vespertino decrece gradualmente hasta que llegue a situarse tan cerca del Sol, que imposibilita su observación. Cuando este astro vuelva a ser visible aparecerá abajo del Este durante el crepúsculo matutino; ésta altura al amanecer incrementa, hasta que ocurre el paso sobre el meridiano; durante el crepúsculo matutino.

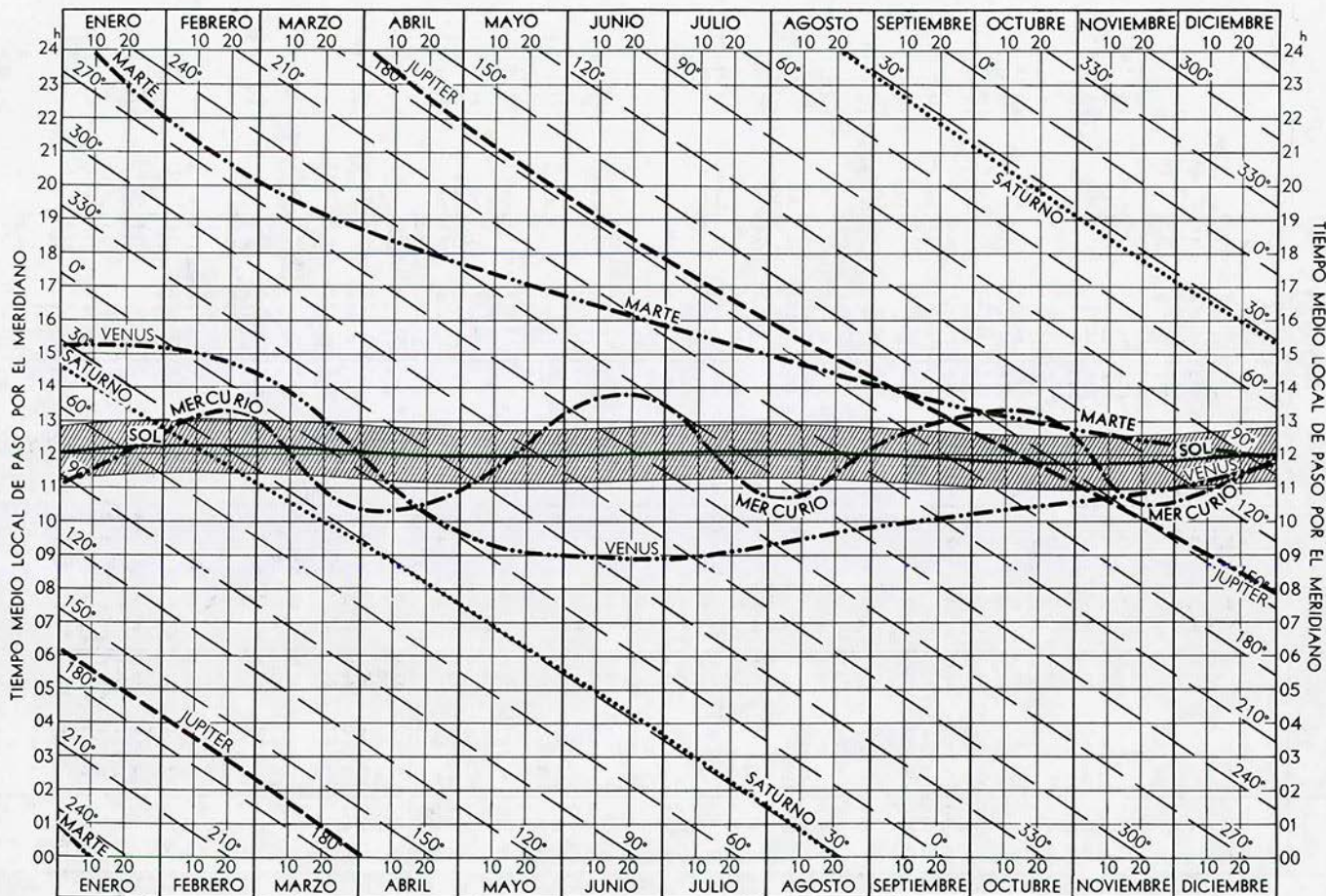
Por consiguiente, cuando la hora del meridiano decrece a las 00^h, con un decrecimiento gradual de la altura, el astro se observa al Oeste durante el crepúsculo matutino, hasta volver a alcanzar su oposición.

NO CONFUNDIR

Júpiter con Marte desde los finales de Agosto hasta mediados de Septiembre y con Mercurio en la tercera semana de Septiembre cuando Júpiter es el astro más brillante.

Mercurio con Marte desde los finales de Septiembre hasta los mediados de Octubre y durante la última semana de Octubre cuando Mercurio es el astro más brillante. El color rojizo de Marte debe ayudar en su identificación.

Venus con Júpiter durante la segunda semana de Noviembre y con Mercurio alrededor de los mediados de Noviembre y a mediados de Diciembre, en todas las ocasiones Venus es el astro más brillante.



| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|---------------------------------|--------|------|------|------|--------|------|---------------|------|------|------------|-------|----------|-----------|------------|-------|------------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. d P.H. | | | Naut. | Civil | | 1 | 2 | 3 | 4 | | | | |
| | o | ' | o | ' | o | ' | o | ' | | h | m | | h | m | h | m | h | m | h | m |
| V I E R N E S | 1 00 | 179 | 08.5 | S23 | 01.1 | 94 | 27.5 | 15.3 | N 8 | 08.4 | 11.1 | 54.6 | N 72 | 08 23 | 10 39 | ■ | 09 50 | 09 23 | 08 25 | □ |
| | 01 | 194 | 08.2 | | 00.9 | 109 | 01.8 | 15.3 | 8 | 19.5 | 11.1 | 54.6 | N 70 | 08 04 | 09 48 | ■ | 10 05 | 09 49 | 09 25 | □ |
| | 02 | 209 | 07.9 | | 00.7 | 123 | 36.1 | 15.3 | 8 | 30.6 | 11.0 | 54.6 | 68 | 07 49 | 09 16 | ■ | 10 17 | 10 10 | 10 00 | 09 45 |
| | 03 | 224 | 07.6 | | 00.4 | 138 | 10.4 | 15.3 | 8 | 41.6 | 11.1 | 54.6 | 66 | 07 37 | 08 52 | 10 26 | 10 27 | 10 26 | 10 26 | 10 28 |
| | 04 | 239 | 07.3 | | 00.2 | 152 | 44.7 | 15.1 | 8 | 52.7 | 10.9 | 54.6 | 64 | 07 26 | 08 34 | 09 48 | 10 36 | 10 39 | 10 46 | 10 57 |
| | 05 | 254 | 07.0 | 23 | 00.0 | 167 | 18.8 | 15.2 | 9 | 03.6 | 11.0 | 54.7 | 62 | 07 17 | 08 18 | 09 22 | 10 43 | 10 51 | 11 02 | 11 19 |
| | 06 | 269 | 06.7 | S22 | 59.8 | 181 | 53.0 | 15.1 | N 9 | 14.6 | 10.9 | 54.7 | 60 | 07 09 | 08 05 | 09 02 | 10 50 | 11 00 | 11 15 | 11 37 |
| | 07 | 284 | 06.4 | | 59.6 | 196 | 27.1 | 15.0 | 9 | 25.5 | 11.0 | 54.7 | N 58 | 07 02 | 07 54 | 08 45 | 10 55 | 11 09 | 11 27 | 11 52 |
| | 08 | 299 | 06.1 | | 59.4 | 211 | 01.1 | 15.0 | 9 | 36.5 | 10.8 | 54.7 | 56 | 06 56 | 07 44 | 08 31 | 11 00 | 11 16 | 11 37 | 12 05 |
| | 09 | 314 | 05.8 | | 59.2 | 225 | 35.1 | 14.9 | 9 | 47.3 | 10.9 | 54.7 | 54 | 06 50 | 07 35 | 08 19 | 11 05 | 11 23 | 11 46 | 12 16 |
| | 10 | 329 | 05.5 | | 59.0 | 240 | 09.0 | 14.9 | 9 | 58.2 | 10.8 | 54.8 | 52 | 06 44 | 07 28 | 08 08 | 11 09 | 11 29 | 11 54 | 12 26 |
| | 11 | 344 | 05.2 | | 58.8 | 254 | 42.9 | 14.9 | 10 | 09.0 | 10.8 | 54.8 | 50 | 06 39 | 07 20 | 07 59 | 11 13 | 11 35 | 12 01 | 12 35 |
| | 12 | 359 | 04.9 | S22 | 58.6 | 269 | 16.8 | 14.7 | N10 | 19.8 | 10.7 | 54.8 | 45 | 06 28 | 07 05 | 07 38 | 11 21 | 11 47 | 12 17 | 12 54 |
| | 13 | 14 | 04.6 | | 58.4 | 283 | 50.5 | 14.8 | 10 | 30.5 | 10.7 | 54.8 | N 40 | 06 18 | 06 52 | 07 22 | 11 28 | 11 57 | 12 30 | 13 09 |
| | 14 | 29 | 04.3 | | 58.1 | 298 | 24.3 | 14.6 | 10 | 41.2 | 10.7 | 54.8 | 35 | 06 09 | 06 40 | 07 08 | 11 34 | 12 05 | 12 41 | 13 22 |
| | 15 | 44 | 04.0 | | 57.9 | 312 | 57.9 | 14.7 | 10 | 51.9 | 10.6 | 54.9 | 30 | 06 00 | 06 30 | 06 56 | 11 39 | 12 13 | 12 50 | 13 34 |
| | 16 | 59 | 03.7 | | 57.7 | 327 | 31.6 | 14.5 | 11 | 02.5 | 10.6 | 54.9 | 20 | 05 44 | 06 12 | 06 36 | 11 48 | 12 26 | 13 07 | 13 54 |
| | 17 | 74 | 03.5 | | 57.5 | 342 | 05.1 | 14.5 | 11 | 13.1 | 10.6 | 54.9 | N 10 | 05 28 | 05 55 | 06 17 | 11 56 | 12 37 | 13 22 | 14 11 |
| | 18 | 89 | 03.2 | S22 | 57.3 | 356 | 38.6 | 14.4 | N11 | 23.7 | 10.5 | 54.9 | 0 | 05 12 | 05 38 | 06 00 | 12 03 | 12 48 | 13 36 | 14 27 |
| | 19 | 104 | 02.9 | | 57.1 | 11 | 12.0 | 14.4 | 11 | 34.2 | 10.5 | 54.9 | S 10 | 04 53 | 05 20 | 05 43 | 12 11 | 12 59 | 13 49 | 14 43 |
| | 20 | 119 | 02.6 | | 56.9 | 25 | 45.4 | 14.3 | 11 | 44.7 | 10.4 | 55.0 | 20 | 04 31 | 05 00 | 05 25 | 12 19 | 13 10 | 14 04 | 15 01 |
| | 21 | 134 | 02.3 | | 56.6 | 40 | 18.7 | 14.3 | 11 | 55.1 | 10.4 | 55.0 | 30 | 04 03 | 04 36 | 05 03 | 12 29 | 13 24 | 14 21 | 15 21 |
| | 22 | 149 | 02.0 | | 56.4 | 54 | 52.0 | 14.2 | 12 | 05.5 | 10.4 | 55.0 | 35 | 03 45 | 04 21 | 04 50 | 12 34 | 13 32 | 14 31 | 15 32 |
| 23 | 164 | 01.7 | | 56.2 | 69 | 25.2 | 14.1 | 12 | 15.9 | 10.3 | 55.0 | 40 | 03 22 | 04 03 | 04 36 | 12 40 | 13 41 | 14 43 | 15 46 | |
| 200 | 179 | 01.4 | S22 | 56.0 | 83 | 58.3 | 14.1 | N12 | 26.2 | 10.3 | 55.1 | 45 | 02 52 | 03 41 | 04 18 | 12 47 | 13 51 | 14 56 | 16 02 | |
| 01 | 194 | 01.1 | | 55.8 | 98 | 31.4 | 14.0 | 12 | 36.5 | 10.2 | 55.1 | S 50 | 02 09 | 03 12 | 03 56 | 12 56 | 14 04 | 15 13 | 16 22 | |
| 02 | 209 | 00.8 | | 55.5 | 113 | 04.4 | 13.9 | 12 | 46.7 | 10.2 | 55.1 | 52 | 01 43 | 02 58 | 03 46 | 13 00 | 14 10 | 15 21 | 16 31 | |
| 03 | 224 | 00.5 | | 55.3 | 127 | 37.3 | 13.9 | 12 | 56.9 | 10.1 | 55.1 | 54 | 01 04 | 02 41 | 03 34 | 13 05 | 14 16 | 15 29 | 16 42 | |
| 04 | 239 | 00.2 | | 55.1 | 142 | 10.2 | 13.8 | 13 | 07.0 | 10.1 | 55.2 | 56 | /// | 02 20 | 03 20 | 13 10 | 14 24 | 15 39 | 16 54 | |
| 05 | 254 | 00.0 | | 54.9 | 156 | 43.0 | 13.7 | 13 | 17.1 | 10.1 | 55.2 | 58 | /// | 01 52 | 03 04 | 13 15 | 14 32 | 15 50 | 17 08 | |
| 06 | 268 | 59.7 | S22 | 54.6 | 171 | 15.7 | 13.6 | N13 | 27.2 | 9.9 | 55.2 | S 60 | /// | 01 09 | 02 45 | 13 22 | 14 41 | 16 03 | 17 25 | |
| 07 | 283 | 59.4 | | 54.4 | 185 | 48.3 | 13.6 | 13 | 37.1 | 10.0 | 55.2 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 08 | 298 | 59.1 | | 54.2 | 200 | 20.9 | 13.6 | 13 | 47.1 | 9.9 | 55.3 | | | Civil | Naut. | 1 | 2 | 3 | 4 | |
| 09 | 313 | 58.8 | | 54.0 | 214 | 53.5 | 13.4 | 13 | 57.0 | 9.8 | 55.3 | | | | | | | | | |
| A 10 | 328 | 58.5 | | 53.7 | 229 | 25.9 | 13.4 | 14 | 06.8 | 9.8 | 55.3 | | | | | | | | | |
| B 11 | 343 | 58.2 | | 53.5 | 243 | 58.3 | 13.3 | 14 | 16.6 | 9.7 | 55.3 | N 72 | h m | h m | h m | h m | h m | h m | h m | |
| A 12 | 358 | 57.9 | S22 | 53.3 | 258 | 30.6 | 13.2 | N14 | 26.3 | 9.7 | 55.4 | N 70 | ■ | 13 29 | 15 46 | 01 32 | 03 30 | 06 05 | □ | |
| 13 | 13 | 57.6 | | 53.0 | 273 | 02.8 | 13.1 | 14 | 36.0 | 9.6 | 55.4 | 68 | ■ | 14 21 | 16 04 | 01 19 | 03 05 | 05 06 | □ | |
| 14 | 28 | 57.3 | | 52.8 | 287 | 34.9 | 13.1 | 14 | 45.6 | 9.6 | 55.4 | 66 | ■ | 14 53 | 16 19 | 01 08 | 02 46 | 04 32 | 06 31 | |
| 15 | 43 | 57.0 | | 52.6 | 302 | 07.0 | 13.0 | 14 | 55.2 | 9.5 | 55.4 | 64 | 13 43 | 15 16 | 16 32 | 01 00 | 02 31 | 04 07 | 05 49 | |
| 16 | 58 | 56.8 | | 52.3 | 316 | 39.0 | 12.9 | 15 | 04.7 | 9.5 | 55.5 | 62 | 14 20 | 15 35 | 16 42 | 00 52 | 02 19 | 03 48 | 05 21 | |
| 17 | 73 | 56.5 | | 52.1 | 331 | 10.9 | 12.9 | 15 | 14.2 | 9.4 | 55.5 | 60 | 14 46 | 15 50 | 16 51 | 00 46 | 02 08 | 03 33 | 04 59 | |
| 18 | 88 | 56.2 | S22 | 51.9 | 345 | 42.8 | 12.7 | N15 | 23.6 | 9.3 | 55.5 | 58 | 15 07 | 16 03 | 16 59 | 00 41 | 01 59 | 03 20 | 04 42 | |
| 19 | 103 | 55.9 | | 51.6 | 0 | 14.5 | 12.7 | 15 | 32.9 | 9.3 | 55.5 | N 58 | 15 23 | 16 14 | 17 07 | 00 36 | 01 52 | 03 09 | 04 27 | |
| 20 | 118 | 55.6 | | 51.4 | 14 | 46.2 | 12.6 | 15 | 42.2 | 9.2 | 55.6 | 56 | 15 38 | 16 24 | 17 13 | 00 32 | 01 45 | 02 59 | 04 15 | |
| 21 | 133 | 55.3 | | 51.2 | 29 | 17.8 | 12.5 | 15 | 51.4 | 9.1 | 55.6 | 54 | 15 50 | 16 33 | 17 19 | 00 28 | 01 39 | 02 51 | 04 04 | |
| 22 | 148 | 55.0 | | 50.9 | 43 | 49.3 | 12.5 | 16 | 00.5 | 9.1 | 55.6 | 52 | 16 00 | 16 41 | 17 24 | 00 25 | 01 33 | 02 43 | 03 54 | |
| 23 | 163 | 54.7 | | 50.7 | 58 | 20.8 | 12.3 | 16 | 09.6 | 9.1 | 55.7 | 50 | 16 10 | 16 48 | 17 29 | 00 22 | 01 28 | 02 37 | 03 46 | |
| 3 00 | 178 | 54.5 | S22 | 50.4 | 72 | 52.1 | 12.3 | N16 | 18.7 | 8.9 | 55.7 | 45 | 16 30 | 17 04 | 17 41 | 00 15 | 01 18 | 02 22 | 03 28 | |
| 01 | 193 | 54.2 | | 50.2 | 87 | 23.4 | 12.2 | 16 | 27.6 | 8.9 | 55.7 | N 40 | 16 46 | 17 17 | 17 51 | 00 10 | 01 09 | 02 10 | 03 13 | |
| 02 | 208 | 53.9 | | 50.0 | 101 | 54.6 | 12.1 | 16 | 36.5 | 8.8 | 55.8 | 35 | 17 00 | 17 28 | 18 00 | 00 05 | 01 01 | 02 00 | 03 00 | |
| 03 | 223 | 53.6 | | 49.7 | 116 | 25.7 | 12.0 | 16 | 45.3 | 8.8 | 55.8 | 30 | 17 12 | 17 38 | 18 08 | 00 01 | 00 55 | 01 51 | 02 49 | |
| 04 | 238 | 53.3 | | 49.5 | 130 | 56.7 | 12.0 | 16 | 54.1 | 8.6 | 55.8 | 20 | 17 33 | 17 57 | 18 24 | 24 44 | 00 44 | 01 36 | 02 31 | |
| 05 | 253 | 53.0 | | 49.2 | 145 | 27.7 | 11.8 | 17 | 02.7 | 8.7 | 55.8 | N 10 | 17 51 | 18 14 | 18 40 | 24 34 | 00 34 | 01 23 | 02 15 | |
| 06 | 268 | 52.7 | S22 | 49.0 | 159 | 58.5 | 11.8 | N17 | 11.4 | 8.5 | 55.9 | 0 | 18 08 | 18 30 | 18 56 | 24 24 | 00 24 | 01 10 | 02 00 | |
| 07 | 283 | 52.4 | | 48.7 | 174 | 29.3 | 11.7 | 17 | 19.9 | 8.5 | 55.9 | S 10 | 18 25 | 18 48 | 19 15 | 24 15 | 00 15 | 00 58 | 01 45 | |
| 08 | 298 | 52.2 | | 48.5 | 189 | 00.0 | 11.6 | 17 | 28.4 | 8.3 | 55.9 | 20 | 18 43 | 19 08 | 19 37 | 24 05 | 00 05 | 00 45 | 01 29 | |
| 09 | 313 | 51.9 | | 48.2 | 203 | 30.6 | 11.5 | 17 | 36.7 | 8.4 | 56.0 | 30 | 19 05 | 19 32 | 20 05 | 23 54 | 24 30 | 00 30 | 01 10 | |
| 10 | 328 | 51.6 | | 48.0 | 218 | 01.1 | 11.4 | 17 | 45.1 | 8.2 | 56.0 | 35 | 19 18 | 19 47 | 20 23 | 23 48 | 24 21 | 00 21 | 01 00 | |
| 11 | 343 | 51.3 | | 47.8 | 232 | 31.5 | 11.4 | 17 | 53.3 | 8.2 | 56.0 | 40 | 19 32 | 20 05 | 20 46 | 23 41 | 24 11 | 00 11 | 00 47 | |
| 12 | 358 | 51.0 | S22 | 47.5 | 247 | 01.9 | 11.2 | N18 | 01.5 | 8.0 | 56.1 | 45 | 19 50 | 20 27 | 21 15 | 23 32 | 24 00 | 00 00 | 00 33 | |
| 13 | 13 | 50.7 | | 47.3 | 261 | 32.1 | 11.2 | 18 | 09.5 | 8.0 | 56.1 | S 50 | 20 11 | 20 55 | 21 59 | 23 22 | 23 46 | 24 15 | 00 15 | |
| 14 | 28 | 50.4 | | 47.0 | 276 | 02.3 | 11.0 | 18 | 17.5 | 8.0 | 56.1 | 52 | 20 22 | 21 10 | 22 24 | 23 17 | 23 39 | 24 07 | 00 07 | |
| 15 | 43 | 50.2 | | 46.7 | 290 | 32.3 | 11.0 | 18 | 25.5 | 7.8 | 56.2 | 54 | 20 34 | 21 27 | 23 02 | 23 12 | 23 32 | 23 58 | 24 32 | |
| 16 | 58 | 49.9 | | 46.5 | 305 | 02.3 | 10.9 | 18 | 33.3 | 7.8 | 56.2 | 56 | 20 47 | 21 48 | /// | 23 06 | 23 24 | 23 48 | 24 20 | |
| 17 | 73 | 49.6 | | 46.2 | 319 | 32.2 | 10.8 | 18 | 41.1 | 7.6 | 56.2 | 58 | 21 03 | 22 15 | /// | 23 00 | 23 15 | 23 36 | 24 06 | |
| 18 | 88 | 49.3 | S22 | 46.0 | 334 | 02.0 | 10.7 | N18 | 48.7 | 7.6 | 56.3 | S 60 | 21 23 | 22 57 | /// | 22 53 | 23 05 | 23 | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.3 | | | MARTE -1.4 | | | JUPITER -2.0 | | | SATURNO +0.8 | | | ESTRELLAS | | |
|---|---------|----------|----------|------------|----------|------------|------------|----------|----------|--------------|----------|-------------|--------------|----------|----------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. |
| L U N E S | 4 00 | 103 36.9 | 131 01.8 | S12 44.9 | 352 10.0 | N25 58.3 | 270 28.3 | S 4 12.2 | | 144 10.3 | S16 48.5 | | Acamar | 315 29.6 | S40 20.1 | | | |
| | 01 | 118 39.3 | 146 01.6 | 43.7 | 7 13.6 | 58.5 | 285 30.6 | 12.2 | | 159 12.5 | 48.4 | | Achernar | 335 37.9 | S57 16.5 | | | |
| | 02 | 133 41.8 | 161 01.5 | 42.6 | 22 17.1 | 58.7 | 300 32.9 | 12.3 | | 174 14.7 | 48.3 | | Acrux | 173 26.4 | S63 03.5 | | | |
| | 03 | 148 44.3 | 176 01.4 | 41.5 | 37 20.7 | 58.9 | 315 35.2 | 12.4 | | 189 16.9 | 48.3 | | Adhara | 255 24.1 | S28 57.8 | | | |
| | 04 | 163 46.7 | 191 01.3 | 40.4 | 52 24.2 | 59.1 | 330 37.4 | 12.4 | | 204 19.1 | 48.2 | | Aldebaran | 291 06.6 | N16 29.8 | | | |
| | 05 | 178 49.2 | 206 01.2 | 39.2 | 67 27.7 | 59.3 | 345 39.7 | 12.5 | | 219 21.3 | 48.1 | | | | | | | |
| | 06 | 193 51.7 | 221 01.1 | S12 38.1 | 82 31.3 | N25 59.5 | 0 42.0 | S 4 12.5 | | 234 23.5 | S16 48.0 | | Alioth | 166 34.0 | N55 59.5 | | | |
| | 07 | 208 54.1 | 236 00.9 | 37.0 | 97 34.8 | 59.7 | 15 44.3 | 12.6 | | 249 25.7 | 47.9 | | Alkaid | 153 11.0 | N49 20.5 | | | |
| | 08 | 223 56.6 | 251 00.8 | 35.9 | 112 38.4 | 25 59.9 | 30 46.6 | 12.7 | | 264 27.9 | 47.8 | | Al Na'ir | 28 03.1 | S46 59.8 | | | |
| | 09 | 238 59.0 | 266 00.7 | 34.7 | 127 41.9 | 26 00.1 | 45 48.9 | 12.7 | | 279 30.1 | 47.8 | | Alnilam | 276 01.5 | S 1 12.4 | | | |
| | 10 | 254 01.5 | 281 00.6 | 33.6 | 142 45.5 | 00.3 | 60 51.2 | 12.8 | | 294 32.3 | 47.7 | | Alphard | 218 10.8 | S 8 37.8 | | | |
| | 11 | 269 04.0 | 296 00.5 | 32.5 | 157 49.0 | 00.5 | 75 53.5 | 12.9 | | 309 34.5 | 47.6 | | | | | | | |
| | 12 | 284 06.4 | 311 00.4 | S12 31.4 | 172 52.6 | N26 00.7 | 90 55.7 | S 4 12.9 | | 324 36.7 | S16 47.5 | | Alphecca | 126 24.2 | N26 44.1 | | | |
| | 13 | 299 08.9 | 326 00.3 | 30.2 | 187 56.1 | 00.9 | 105 58.0 | 13.0 | | 339 38.9 | 47.4 | | Alpheratz | 357 59.4 | N29 03.4 | | | |
| | 14 | 314 11.4 | 341 00.2 | 29.1 | 202 59.7 | 01.1 | 121 00.3 | 13.0 | | 354 41.0 | 47.4 | | Altair | 62 23.4 | N 8 51.0 | | | |
| | 15 | 329 13.8 | 356 00.1 | 28.0 | 218 03.2 | 01.3 | 136 02.6 | 13.1 | | 9 43.2 | 47.3 | | Ankaa | 353 30.7 | S42 20.8 | | | |
| | 16 | 344 16.3 | 11 00.0 | 26.8 | 233 06.8 | 01.5 | 151 04.9 | 13.2 | | 24 45.4 | 47.2 | | Antares | 112 45.3 | S26 25.0 | | | |
| | 17 | 359 18.8 | 25 59.8 | 25.7 | 248 10.3 | 01.7 | 166 07.2 | 13.2 | | 39 47.6 | 47.1 | | | | | | | |
| | 18 | 14 21.2 | 40 59.7 | S12 24.6 | 263 13.9 | N26 01.9 | 181 09.5 | S 4 13.3 | | 54 49.8 | S16 47.0 | | Arcturus | 146 09.7 | N19 12.9 | | | |
| | 19 | 29 23.7 | 55 59.6 | 23.4 | 278 17.4 | 02.1 | 196 11.8 | 13.4 | | 69 52.0 | 47.0 | | Atria | 108 01.4 | S69 00.8 | | | |
| | 20 | 44 26.2 | 70 59.5 | 22.3 | 293 21.0 | 02.3 | 211 14.0 | 13.4 | | 84 54.2 | 46.9 | | Avior | 234 23.7 | S59 29.2 | | | |
| | 21 | 59 28.6 | 85 59.4 | 21.2 | 308 24.5 | 02.5 | 226 16.3 | 13.5 | | 99 56.4 | 46.8 | | Bellatrix | 278 48.1 | N 6 20.6 | | | |
| | 22 | 74 31.1 | 100 59.3 | 20.1 | 323 28.1 | 02.7 | 241 18.6 | 13.5 | | 114 58.6 | 46.7 | | Betelgeuse | 271 17.5 | N 7 24.3 | | | |
| 23 | 89 33.5 | 115 59.2 | 18.9 | 338 31.6 | 02.9 | 256 20.9 | 13.6 | | 130 00.8 | 46.6 | | | | | | | | |
| M A R T E S | 5 00 | 104 36.0 | 130 59.1 | S12 17.8 | 353 35.2 | N26 03.1 | 271 23.2 | S 4 13.7 | 145 03.0 | S16 46.6 | | Canopus | 264 02.3 | S52 41.6 | | | | |
| | 01 | 119 38.5 | 145 59.0 | 16.7 | 8 38.7 | 03.2 | 286 25.5 | 13.7 | 160 05.2 | 46.5 | | Capella | 280 56.6 | N45 59.6 | | | | |
| | 02 | 134 40.9 | 160 58.9 | 15.5 | 23 42.3 | 03.4 | 301 27.8 | 13.8 | 175 07.4 | 46.4 | | Deneb | 49 42.3 | N45 15.5 | | | | |
| | 03 | 149 43.4 | 175 58.8 | 14.4 | 38 45.8 | 03.6 | 316 30.1 | 13.8 | 190 09.6 | 46.3 | | Denebola | 182 49.1 | N14 36.4 | | | | |
| | 04 | 164 45.9 | 190 58.7 | 13.3 | 53 49.4 | 03.8 | 331 32.4 | 13.9 | 205 11.8 | 46.2 | | Diphda | 349 11.2 | S18 01.5 | | | | |
| | 05 | 179 48.3 | 205 58.7 | 12.1 | 68 52.9 | 04.0 | 346 34.7 | 14.0 | 220 14.0 | 46.1 | | | | | | | | |
| | 06 | 194 50.8 | 220 58.6 | S12 11.0 | 83 56.5 | N26 04.2 | 1 37.0 | S 4 14.0 | 235 16.2 | S16 46.1 | | Dubhe | 194 09.9 | N61 46.9 | | | | |
| | 07 | 209 53.3 | 235 58.5 | 09.8 | 99 00.0 | 04.4 | 16 39.3 | 14.1 | 250 18.4 | 46.0 | | Elnath | 278 31.6 | N28 36.1 | | | | |
| | 08 | 224 55.7 | 250 58.4 | 08.7 | 114 03.6 | 04.6 | 31 41.5 | 14.2 | 265 20.6 | 45.9 | | Eltanin | 90 53.8 | N51 29.3 | | | | |
| | 09 | 239 58.2 | 265 58.3 | 07.6 | 129 07.1 | 04.8 | 46 43.8 | 14.2 | 280 22.7 | 45.8 | | Enif | 34 02.4 | N 9 50.7 | | | | |
| | 10 | 255 00.7 | 280 58.2 | 06.4 | 144 10.7 | 05.0 | 61 46.1 | 14.3 | 295 24.9 | 45.7 | | Fomalhaut | 15 40.9 | S29 39.6 | | | | |
| | 11 | 270 03.1 | 295 58.1 | 05.3 | 159 14.2 | 05.2 | 76 48.4 | 14.3 | 310 27.1 | 45.7 | | | | | | | | |
| | 12 | 285 05.6 | 310 58.0 | S12 04.2 | 174 17.8 | N26 05.4 | 91 50.7 | S 4 14.4 | 325 29.3 | S16 45.6 | | Gacrux | 172 18.0 | S57 04.3 | | | | |
| | 13 | 300 08.0 | 325 57.9 | 03.0 | 189 21.3 | 05.6 | 106 53.0 | 14.5 | 340 31.5 | 45.5 | | Gienah | 176 08.0 | S17 30.2 | | | | |
| | 14 | 315 10.5 | 340 57.8 | 01.9 | 204 24.9 | 05.8 | 121 55.3 | 14.5 | 355 33.7 | 45.4 | | Hadar | 149 09.9 | S60 20.2 | | | | |
| | 15 | 330 13.0 | 355 57.8 | 12 00.7 | 219 28.5 | 06.0 | 136 57.6 | 14.6 | 10 35.9 | 45.3 | | Hamal | 328 17.9 | N23 26.0 | | | | |
| | 16 | 345 15.4 | 10 57.7 | 11 59.6 | 234 32.0 | 06.2 | 151 59.9 | 14.6 | 25 38.1 | 45.2 | | Kaus Aust. | 84 04.4 | S34 23.3 | | | | |
| | 17 | 0 17.9 | 25 57.6 | 58.5 | 249 35.6 | 06.3 | 167 02.2 | 14.7 | 40 40.3 | 45.2 | | | | | | | | |
| | 18 | 15 20.4 | 40 57.5 | S11 57.3 | 264 39.1 | N26 06.5 | 182 04.5 | S 4 14.7 | 55 42.5 | S16 45.1 | | Kochab | 137 19.9 | N74 10.7 | | | | |
| | 19 | 30 22.8 | 55 57.4 | 56.2 | 279 42.7 | 06.7 | 197 06.8 | 14.8 | 70 44.7 | 45.0 | | Markab | 13 53.7 | N15 10.2 | | | | |
| | 20 | 45 25.3 | 70 57.3 | 55.0 | 294 46.2 | 06.9 | 212 09.1 | 14.9 | 85 46.9 | 44.9 | | Menkar | 314 30.8 | N 4 03.8 | | | | |
| | 21 | 60 27.8 | 85 57.3 | 53.9 | 309 49.8 | 07.1 | 227 11.4 | 14.9 | 100 49.1 | 44.8 | | Menkent | 148 25.8 | S36 20.1 | | | | |
| | 22 | 75 30.2 | 100 57.2 | 52.8 | 324 53.3 | 07.3 | 242 13.7 | 15.0 | 115 51.3 | 44.8 | | Miaplacidus | 221 42.1 | S69 41.2 | | | | |
| 23 | 90 32.7 | 115 57.1 | 51.6 | 339 56.9 | 07.5 | 257 16.0 | 15.0 | 130 53.5 | 44.7 | | | | | | | | | |
| M I E R C O L E S | 6 00 | 105 35.1 | 130 57.0 | S11 50.5 | 355 00.4 | N26 07.7 | 272 18.3 | S 4 15.1 | 145 55.7 | S16 44.6 | | Mirfak | 309 02.0 | N49 50.4 | | | | |
| | 01 | 120 37.6 | 145 56.9 | 49.3 | 10 04.0 | 07.9 | 287 20.6 | 15.2 | 160 57.8 | 44.5 | | Nunki | 76 17.6 | S26 18.3 | | | | |
| | 02 | 135 40.1 | 160 56.9 | 48.2 | 25 07.6 | 08.1 | 302 22.9 | 15.2 | 176 00.0 | 44.4 | | Peacock | 53 43.7 | S56 45.5 | | | | |
| | 03 | 150 42.5 | 175 56.8 | 47.0 | 40 11.1 | 08.2 | 317 25.2 | 15.3 | 191 02.2 | 44.3 | | Pollux | 243 46.0 | N28 02.5 | | | | |
| | 04 | 165 45.0 | 190 56.7 | 45.9 | 55 14.7 | 08.4 | 332 27.5 | 15.3 | 206 04.4 | 44.3 | | Procyon | 245 15.3 | N 5 14.5 | | | | |
| | 05 | 180 47.5 | 205 56.6 | 44.8 | 70 18.2 | 08.6 | 347 29.8 | 15.4 | 221 06.6 | 44.2 | | | | | | | | |
| | 06 | 195 49.9 | 220 56.6 | S11 43.6 | 85 21.8 | N26 08.8 | 2 32.1 | S 4 15.4 | 236 08.8 | S16 44.1 | | Rasalhague | 96 20.9 | N12 33.8 | | | | |
| | 07 | 210 52.4 | 235 56.5 | 42.5 | 100 25.3 | 09.0 | 17 34.4 | 15.5 | 251 11.0 | 44.0 | | Regulus | 207 59.5 | N11 59.9 | | | | |
| | 08 | 225 54.9 | 250 56.4 | 41.3 | 115 28.9 | 09.2 | 32 36.7 | 15.6 | 266 13.2 | 43.9 | | Rigel | 281 26.4 | S 8 12.6 | | | | |
| | 09 | 240 57.3 | 265 56.3 | 40.2 | 130 32.4 | 09.4 | 47 39.0 | 15.6 | 281 15.4 | 43.9 | | Rigel Kent. | 140 12.9 | S60 48.2 | | | | |
| | 10 | 255 59.8 | 280 56.3 | 39.0 | 145 36.0 | 09.6 | 62 41.3 | 15.7 | 296 17.6 | 43.8 | | Sabik | 102 30.4 | S15 43.0 | | | | |
| | 11 | 271 02.3 | 295 56.2 | 37.9 | 160 39.6 | 09.7 | 77 43.6 | 15.7 | 311 19.8 | 43.7 | | | | | | | | |
| | 12 | 286 04.7 | 310 56.1 | S11 36.7 | 175 43.1 | N26 09.9 | 92 45.9 | S 4 15.8 | 326 22.0 | S16 43.6 | | Schedar | 349 58.1 | N56 30.3 | | | | |
| | 13 | 301 07.2 | 325 56.1 | 35.6 | 190 46.7 | 10.1 | 107 48.2 | 15.8 | 341 24.2 | 43.5 | | Shaula | 96 43.0 | S37 05.9 | | | | |
| | 14 | 316 09.6 | 340 56.0 | 34.4 | 205 50.2 | 10.3 | 122 50.5 | 15.9 | 356 26.3 | 43.4 | | Sirius | 258 46.8 | S16 42.5 | | | | |
| | 15 | 331 12.1 | 355 55.9 | 33.3 | 220 53.8 | 10.5 | 137 52.8 | 16.0 | 11 28.5 | 43.4 | | Spica | 158 47.4 | S11 07.6 | | | | |
| | 16 | 346 14.6 | 10 55.9 | 32.1 | 235 57.3 | 10.7 | 152 55.1 | 16.0 | 26 30.7 | 43.3 | | Suhail | 223 03.3 | S43 24.3 | | | | |
| | 17 | 1 17.0 | 25 55.8 | 31.0 | 251 00.9 | 10.9 | 167 57.4 | 16.1 | 41 32.9 | 43.2 | | | | | | | | |
| | 18 | 16 19.5 | 40 55.7 | S11 29.8 | 266 04.4 | N26 11.0</ | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|----------|----------|----------|---------|----------|------|------------|----------|-----------|------------------|-----------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P. H. | Naut. | | Civil | 4 | 5 | 6 | 7 | |
| | | | | | | | | | | | | h m | h m | h m | h m | h m |
| LUNES | 00 | 178 47.6 | S22 44.4 | 60 58.8 | 10.2 | N19 32.9 | 7.1 | 56.5 | N 72 | 08 19 | 10 30 | ■ | □ | □ | □ | □ |
| | 01 | 193 47.3 | 44.2 | 75 28.0 | 10.1 | 19 40.0 | 6.9 | 56.5 | N 70 | 08 01 | 09 43 | ■ | □ | □ | □ | □ |
| | 02 | 208 47.0 | 43.9 | 89 57.1 | 9.9 | 19 46.9 | 6.9 | 56.5 | 68 | 07 47 | 09 12 | 11 29 | 09 45 | □ | □ | □ |
| | 03 | 223 46.7 | 43.7 | 104 26.0 | 9.9 | 19 53.8 | 6.8 | 56.6 | 66 | 07 35 | 08 49 | 10 20 | 10 28 | 10 38 | 11 16 | 12 46 |
| | 04 | 238 46.5 | 43.4 | 118 54.9 | 9.8 | 20 00.6 | 6.6 | 56.6 | 64 | 07 25 | 08 31 | 09 45 | 10 57 | 11 20 | 12 07 | 13 26 |
| | 05 | 253 46.2 | 43.1 | 133 23.7 | 9.7 | 20 07.2 | 6.6 | 56.6 | 62 | 07 16 | 08 17 | 09 19 | 11 19 | 11 49 | 12 38 | 13 53 |
| | 06 | 268 45.9 | S22 42.9 | 147 52.4 | 9.6 | N20 13.8 | 6.5 | 56.7 | 60 | 07 08 | 08 04 | 09 00 | 11 37 | 12 11 | 13 02 | 14 15 |
| | 07 | 283 45.6 | 42.6 | 162 21.0 | 9.5 | 20 20.3 | 6.4 | 56.7 | N 58 | 07 01 | 07 53 | 08 43 | 11 52 | 12 28 | 13 21 | 14 32 |
| | 08 | 298 45.3 | 42.4 | 176 49.5 | 9.5 | 20 26.7 | 6.2 | 56.7 | 56 | 06 55 | 07 43 | 08 30 | 12 05 | 12 44 | 13 37 | 14 47 |
| | 09 | 313 45.1 | 42.1 | 191 18.0 | 9.3 | 20 32.9 | 6.2 | 56.8 | 54 | 06 49 | 07 35 | 08 18 | 12 16 | 12 57 | 13 51 | 14 59 |
| | 10 | 328 44.8 | 41.8 | 205 46.3 | 9.2 | 20 39.1 | 6.1 | 56.8 | 52 | 06 44 | 07 27 | 08 07 | 12 26 | 13 08 | 14 03 | 15 10 |
| | 11 | 343 44.5 | 41.6 | 220 14.5 | 9.2 | 20 45.2 | 5.9 | 56.8 | 50 | 06 39 | 07 20 | 07 58 | 12 35 | 13 18 | 14 13 | 15 20 |
| | 12 | 358 44.2 | S22 41.3 | 234 42.7 | 9.1 | N20 51.1 | 5.9 | 56.9 | 45 | 06 28 | 07 05 | 07 38 | 12 54 | 13 39 | 14 35 | 15 41 |
| | 13 | 13 43.9 | 41.0 | 249 10.8 | 8.9 | 20 57.0 | 5.7 | 56.9 | N 40 | 06 18 | 06 52 | 07 22 | 13 09 | 13 57 | 14 53 | 15 58 |
| | 14 | 28 43.6 | 40.7 | 263 38.7 | 8.9 | 21 02.7 | 5.7 | 57.0 | 35 | 06 09 | 06 41 | 07 09 | 13 22 | 14 11 | 15 08 | 16 12 |
| | 15 | 43 43.4 | 40.5 | 278 06.6 | 8.8 | 21 08.4 | 5.5 | 57.0 | 30 | 06 01 | 06 31 | 06 57 | 13 34 | 14 24 | 15 21 | 16 24 |
| | 16 | 58 43.1 | 40.2 | 292 34.4 | 8.7 | 21 13.9 | 5.4 | 57.0 | 20 | 05 45 | 06 12 | 06 36 | 13 54 | 14 46 | 15 43 | 16 45 |
| | 17 | 73 42.8 | 39.9 | 307 02.1 | 8.6 | 21 19.3 | 5.3 | 57.1 | N 10 | 05 30 | 05 56 | 06 19 | 14 11 | 15 04 | 16 02 | 17 03 |
| | 18 | 88 42.5 | S22 39.7 | 321 29.7 | 8.5 | N21 24.6 | 5.2 | 57.1 | 0 | 05 13 | 05 39 | 06 02 | 14 27 | 15 22 | 16 20 | 17 20 |
| | 19 | 103 42.2 | 39.4 | 335 57.2 | 8.4 | 21 29.8 | 5.1 | 57.1 | S 10 | 04 55 | 05 22 | 05 45 | 14 43 | 15 40 | 16 38 | 17 37 |
| | 20 | 118 42.0 | 39.1 | 350 24.6 | 8.4 | 21 34.9 | 4.9 | 57.2 | 20 | 04 33 | 05 02 | 05 27 | 15 01 | 15 59 | 16 58 | 17 55 |
| | 21 | 133 41.7 | 38.8 | 4 52.0 | 8.2 | 21 39.8 | 4.9 | 57.2 | 30 | 04 05 | 04 38 | 05 05 | 15 21 | 16 21 | 17 20 | 18 16 |
| | 22 | 148 41.4 | 38.6 | 19 19.2 | 8.2 | 21 44.7 | 4.7 | 57.2 | 35 | 03 47 | 04 24 | 04 53 | 15 32 | 16 34 | 17 33 | 18 28 |
| 23 | 163 41.1 | 38.3 | 33 46.4 | 8.1 | 21 49.4 | 4.6 | 57.3 | 40 | 03 25 | 04 06 | 04 38 | 15 46 | 16 49 | 17 48 | 18 42 | |
| MARTES | 00 | 178 40.8 | S22 38.0 | 48 13.5 | 8.0 | N21 54.0 | 4.5 | 57.3 | 45 | 02 56 | 03 44 | 04 21 | 16 02 | 17 06 | 18 06 | 18 59 |
| | 01 | 193 40.6 | 37.7 | 62 40.5 | 7.9 | 21 58.5 | 4.4 | 57.4 | S 50 | 02 14 | 03 16 | 04 00 | 16 22 | 17 28 | 18 28 | 19 19 |
| | 02 | 208 40.3 | 37.4 | 77 07.4 | 7.8 | 22 02.9 | 4.2 | 57.4 | 52 | 01 49 | 02 02 | 03 49 | 16 31 | 17 39 | 18 39 | 19 28 |
| | 03 | 223 40.0 | 37.2 | 91 34.2 | 7.8 | 22 07.1 | 4.1 | 57.4 | 54 | 01 13 | 02 45 | 03 38 | 16 42 | 17 51 | 18 51 | 19 39 |
| | 04 | 238 39.7 | 36.9 | 106 01.0 | 7.6 | 22 11.2 | 4.0 | 57.5 | 56 | /// | 02 25 | 03 24 | 16 54 | 18 04 | 19 05 | 19 51 |
| | 05 | 253 39.5 | 36.6 | 120 27.6 | 7.6 | 22 15.2 | 3.9 | 57.5 | 58 | /// | 01 58 | 03 09 | 17 08 | 18 20 | 19 21 | 20 06 |
| | 06 | 268 39.2 | S22 36.3 | 134 54.2 | 7.5 | N22 19.1 | 3.7 | 57.5 | S 60 | /// | 01 19 | 02 50 | 17 25 | 18 39 | 19 40 | 20 22 |
| | 07 | 283 38.9 | 36.0 | 149 20.7 | 7.4 | 22 22.8 | 3.7 | 57.6 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| | 08 | 298 38.6 | 35.8 | 163 47.1 | 7.3 | 22 26.5 | 3.5 | 57.6 | 4 | 5 | 6 | 7 | | | | |
| | 09 | 313 38.3 | 35.5 | 178 13.4 | 7.3 | 22 30.0 | 3.3 | 57.6 | N 72 | h m | h m | h m | h m | h m | h m | h m |
| | 10 | 328 38.1 | 35.2 | 192 39.7 | 7.2 | 22 33.3 | 3.2 | 57.7 | N 70 | ■ | 13 42 | 15 52 | □ | □ | □ | □ |
| | 11 | 343 37.8 | 34.9 | 207 05.9 | 7.1 | 22 36.5 | 3.1 | 57.7 | 68 | 12 43 | 14 59 | 16 24 | 06 31 | □ | □ | □ |
| | 12 | 358 37.5 | S22 34.6 | 221 32.0 | 7.0 | N22 39.6 | 3.0 | 57.8 | 66 | 13 52 | 15 22 | 16 36 | 05 49 | 07 32 | 08 54 | 09 29 |
| | 13 | 13 37.2 | 34.3 | 235 58.0 | 7.0 | 22 42.6 | 2.8 | 57.8 | 64 | 14 27 | 15 40 | 16 47 | 05 21 | 06 50 | 08 03 | 08 49 |
| | 14 | 28 37.0 | 34.0 | 250 24.0 | 6.8 | 22 45.4 | 2.7 | 57.8 | 62 | 14 52 | 15 55 | 16 55 | 04 59 | 06 22 | 07 32 | 08 21 |
| | 15 | 43 36.7 | 33.8 | 264 49.8 | 6.8 | 22 48.1 | 2.6 | 57.9 | 60 | 15 12 | 16 07 | 17 03 | 04 42 | 06 00 | 07 08 | 07 59 |
| | 16 | 58 36.4 | 33.5 | 279 15.6 | 6.8 | 22 50.7 | 2.4 | 57.9 | N 58 | 15 28 | 16 18 | 17 10 | 04 27 | 05 42 | 06 49 | 07 41 |
| | 17 | 73 36.1 | 33.2 | 293 41.4 | 6.6 | 22 53.1 | 2.3 | 57.9 | 56 | 15 42 | 16 28 | 17 16 | 04 15 | 05 28 | 06 33 | 07 27 |
| | 18 | 88 35.9 | S22 32.9 | 308 07.0 | 6.6 | N22 55.4 | 2.1 | 58.0 | 54 | 15 53 | 16 36 | 17 22 | 04 04 | 05 15 | 06 19 | 07 14 |
| | 19 | 103 35.6 | 32.6 | 322 32.6 | 6.5 | 22 57.5 | 2.0 | 58.0 | 52 | 16 04 | 16 44 | 17 27 | 03 54 | 05 04 | 06 07 | 07 02 |
| | 20 | 118 35.3 | 32.3 | 336 58.1 | 6.5 | 22 59.5 | 1.9 | 58.1 | 50 | 16 13 | 16 51 | 17 32 | 03 46 | 04 54 | 05 57 | 06 52 |
| | 21 | 133 35.0 | 32.0 | 351 23.6 | 6.4 | 23 01.4 | 1.7 | 58.1 | 45 | 16 33 | 17 06 | 17 43 | 03 28 | 04 33 | 05 35 | 06 31 |
| | 22 | 148 34.8 | 31.7 | 5 49.0 | 6.3 | 23 03.1 | 1.6 | 58.1 | N 40 | 16 49 | 17 19 | 17 53 | 03 13 | 04 16 | 05 17 | 06 14 |
| 23 | 163 34.5 | 31.4 | 20 14.3 | 6.3 | 23 04.7 | 1.5 | 58.2 | 35 | 17 03 | 17 30 | 18 02 | 03 00 | 04 02 | 05 02 | 05 59 | |
| MIÉRCOLES | 00 | 178 34.2 | S22 31.1 | 34 39.6 | 6.2 | N23 06.2 | 1.3 | 58.2 | 30 | 17 14 | 17 41 | 18 10 | 02 49 | 03 49 | 04 49 | 05 47 |
| | 01 | 193 33.9 | 30.8 | 49 04.8 | 6.1 | 23 07.5 | 1.1 | 58.2 | 20 | 17 35 | 17 59 | 18 26 | 02 31 | 03 28 | 04 27 | 05 25 |
| | 02 | 208 33.7 | 30.5 | 63 29.9 | 6.1 | 23 08.6 | 1.0 | 58.3 | N 10 | 17 52 | 18 15 | 18 41 | 02 15 | 03 10 | 04 08 | 05 06 |
| | 03 | 223 33.4 | 30.2 | 77 55.0 | 6.0 | 23 09.6 | 0.9 | 58.3 | 0 | 18 09 | 18 32 | 18 58 | 02 00 | 02 53 | 03 50 | 04 49 |
| | 04 | 238 33.1 | 29.9 | 92 20.0 | 6.0 | 23 10.5 | 0.7 | 58.3 | S 10 | 18 26 | 18 49 | 19 16 | 01 45 | 02 36 | 03 32 | 04 31 |
| | 05 | 253 32.8 | 29.6 | 106 45.0 | 5.9 | 23 11.2 | 0.6 | 58.4 | 20 | 18 44 | 19 09 | 19 38 | 01 29 | 02 18 | 03 12 | 04 12 |
| | 06 | 268 32.6 | S22 29.3 | 121 09.9 | 5.8 | N23 11.8 | 0.4 | 58.4 | 30 | 19 05 | 19 33 | 20 06 | 01 10 | 01 57 | 02 50 | 03 50 |
| | 07 | 283 32.3 | 29.0 | 135 34.7 | 5.8 | 23 12.2 | 0.3 | 58.4 | 35 | 19 18 | 19 47 | 20 23 | 01 00 | 01 44 | 02 37 | 03 37 |
| | 08 | 298 32.0 | 28.7 | 149 59.5 | 5.8 | 23 12.5 | 0.1 | 58.5 | 40 | 19 32 | 20 05 | 20 45 | 00 47 | 01 30 | 02 22 | 03 23 |
| | 09 | 313 31.7 | 28.4 | 164 24.3 | 5.7 | 23 12.6 | 0.0 | 58.5 | 45 | 19 49 | 20 26 | 21 14 | 00 33 | 01 14 | 02 04 | 03 05 |
| | 10 | 328 31.5 | 28.1 | 178 49.0 | 5.7 | 23 12.6 | 0.2 | 58.6 | S 50 | 20 11 | 20 54 | 21 56 | 00 15 | 00 53 | 01 42 | 02 43 |
| | 11 | 343 31.2 | 27.8 | 193 13.7 | 5.6 | 23 12.4 | 0.3 | 58.6 | 52 | 20 21 | 21 08 | 22 20 | 00 07 | 00 43 | 01 31 | 02 32 |
| | 12 | 358 30.9 | S22 27.5 | 207 38.3 | 5.6 | N23 12.1 | 0.5 | 58.6 | 54 | 20 33 | 21 25 | 22 56 | 24 32 | 00 32 | 01 19 | 02 20 |
| | 13 | 13 30.7 | 27.2 | 222 02.9 | 5.5 | 23 11.6 | 0.6 | 58.7 | 56 | 20 46 | 21 45 | /// | 24 20 | 00 20 | 01 05 | 02 07 |
| | 14 | 28 30.4 | 26.9 | 236 27.4 | 5.5 | 23 11.0 | 0.8 | 58.7 | 58 | 21 01 | 22 11 | /// | 24 06 | 00 06 | 00 49 | 01 51 |
| | 15 | 43 30.1 | 26.6 | 250 51.9 | 5.4 | 23 10.2 | 1.0 | 58.7 | S 60 | 21 20 | 22 49 | /// | 23 49 | 24 30 | 00 30 | 01 32 |
| | 16 | 58 29.8 | 26.3 | 265 16.3 | 5.5 | 23 09.2 | 1.1 | 58.8 | Día | SOL | | LUNA | | | | |
| | 17 | 73 29.6 | 26.0 | 279 40.8 | 5.3 | 23 08.1 | 1.2 | 58.8 | E.T. (-) | Pas. Mer. | Pas. Mer. Sup. | Mer. Inf. | Edad. | Fase | | |
| | 18 | 88 29.3 | S22 25.7 | 294 05.1 | 5.4 | N23 06.9 | 1.4 | 58.8 | 00 h | 12 h | h m | h m | h m | d | | |
| | 19 | 103 29.0 | 25.3 | 308 29.5 | 5.3 | 23 05.5 | 1.5 | 58.9 | 4 | 04 49 | 05 03 | 12 05 | 20 40 | 08 13 | 11 | ☉ |
| | 20 | 118 28.8 | 25.0 | 322 53.8 | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.3 | | | MARTE -1.4 | | | JUPITER -2.1 | | | SATURNO +0.8 | | | ESTRELLAS | | | |
|----------------|-------|-----|------|------------|------|----------|------------|------|----------|--------------|------|----------|--------------|------|----------|-------------|----------|------|----------|
| | d | h | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. | |
| 7 | 00 | 106 | 34.3 | 130 | 55.4 | S11 22.9 | 356 | 25.8 | N26 12.1 | 273 | 13.5 | S 4 16.5 | 146 | 48.3 | S16 42.6 | Acamar | 315 | 29.7 | S40 20.1 |
| | 01 | 121 | 36.8 | 145 | 55.3 | 21.8 | 11 | 29.3 | 12.3 | 288 | 15.8 | 16.5 | 161 | 50.5 | 42.5 | Achernar | 335 | 37.9 | S57 16.5 |
| | 02 | 136 | 39.2 | 160 | 55.3 | 20.6 | 26 | 32.9 | 12.5 | 303 | 18.1 | 16.6 | 176 | 52.7 | 42.5 | Acrux | 173 | 26.3 | S63 03.5 |
| | 03 | 151 | 41.7 | 175 | 55.2 | 19.5 | 41 | 36.5 | 12.7 | 318 | 20.4 | 16.6 | 191 | 54.8 | 42.4 | Adhara | 255 | 24.1 | S28 57.8 |
| | 04 | 166 | 44.1 | 190 | 55.2 | 18.3 | 56 | 40.0 | 12.9 | 333 | 22.7 | 16.7 | 206 | 57.0 | 42.3 | Aldebaran | 291 | 06.6 | N16 29.8 |
| | 05 | 181 | 46.6 | 205 | 55.1 | 17.2 | 71 | 43.6 | 13.0 | 348 | 25.0 | 16.7 | 221 | 59.2 | 42.2 | | | | |
| | 06 | 196 | 49.1 | 220 | 55.1 | S11 16.0 | 86 | 47.1 | N26 13.2 | 3 | 27.3 | S 4 16.8 | 237 | 01.4 | S16 42.1 | Alioth | 166 | 33.9 | N55 59.4 |
| | 07 | 211 | 51.5 | 235 | 55.0 | 14.9 | 101 | 50.7 | 13.4 | 18 | 29.6 | 16.9 | 252 | 03.6 | 42.0 | Alkaid | 153 | 10.9 | N49 20.5 |
| | 08 | 226 | 54.0 | 250 | 55.0 | 13.7 | 116 | 54.2 | 13.6 | 33 | 31.9 | 16.9 | 267 | 05.8 | 42.0 | Al Na'ir | 28 | 03.1 | S46 59.8 |
| J | 09 | 241 | 56.5 | 265 | 54.9 | 12.6 | 131 | 57.8 | 13.8 | 48 | 34.2 | 17.0 | 282 | 08.0 | 41.9 | Alnilam | 276 | 01.5 | S 1 12.4 |
| U | 10 | 256 | 58.9 | 280 | 54.9 | 11.4 | 147 | 01.4 | 13.9 | 63 | 36.5 | 17.0 | 297 | 10.2 | 41.8 | Alphard | 218 | 10.8 | S 8 37.8 |
| E | 11 | 272 | 01.4 | 295 | 54.8 | 10.2 | 162 | 04.9 | 14.1 | 78 | 38.8 | 17.1 | 312 | 12.4 | 41.7 | | | | |
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| S | 14 | 317 | 08.8 | 340 | 54.7 | 06.8 | 207 | 15.6 | 14.7 | 123 | 45.8 | 17.2 | 357 | 18.9 | 41.5 | Altair | 62 | 23.4 | N 8 51.0 |
| | 15 | 332 | 11.2 | 355 | 54.6 | 05.6 | 222 | 19.1 | 14.8 | 138 | 48.1 | 17.3 | 12 | 21.1 | 41.4 | Ankaa | 353 | 30.7 | S42 20.8 |
| | 16 | 347 | 13.7 | 10 | 54.6 | 04.5 | 237 | 22.7 | 15.0 | 153 | 50.4 | 17.3 | 27 | 23.3 | 41.3 | Antares | 112 | 45.3 | S26 25.0 |
| | 17 | 2 | 16.2 | 25 | 54.5 | 03.3 | 252 | 26.2 | 15.2 | 168 | 52.7 | 17.4 | 42 | 25.5 | 41.2 | | | | |
| | 18 | 17 | 18.6 | 40 | 54.5 | S11 02.1 | 267 | 29.8 | N26 15.4 | 183 | 55.0 | S 4 17.4 | 57 | 27.7 | S16 41.1 | Arcturus | 146 | 09.7 | N19 12.9 |
| | 19 | 32 | 21.1 | 55 | 54.4 | 11 01.0 | 282 | 33.4 | 15.5 | 198 | 57.3 | 17.5 | 72 | 29.9 | 41.1 | Atria | 108 | 01.3 | S69 00.8 |
| | 20 | 47 | 23.6 | 70 | 54.4 | 10 59.8 | 297 | 36.9 | 15.7 | 213 | 59.6 | 17.6 | 87 | 32.1 | 41.0 | Avior | 234 | 23.6 | S59 29.2 |
| | 21 | 62 | 26.0 | 85 | 54.4 | 08.7 | 312 | 40.5 | 15.9 | 229 | 01.9 | 17.6 | 102 | 34.3 | 40.9 | Bellatrix | 278 | 48.1 | N 6 20.6 |
| | 22 | 77 | 28.5 | 100 | 54.3 | 07.5 | 327 | 44.0 | 16.1 | 244 | 04.2 | 17.7 | 117 | 36.5 | 40.8 | Betelgeuse | 271 | 17.5 | N 7 24.3 |
| | 23 | 92 | 31.0 | 115 | 54.3 | 06.3 | 342 | 47.6 | 16.2 | 259 | 06.6 | 17.7 | 132 | 38.7 | 40.7 | | | | |
| 8 | 00 | 107 | 33.4 | 130 | 54.3 | S10 55.2 | 357 | 51.1 | N26 16.4 | 274 | 08.9 | S 4 17.8 | 147 | 40.8 | S16 40.6 | Canopus | 264 | 02.3 | S52 41.6 |
| | 01 | 122 | 35.9 | 145 | 54.2 | 54.0 | 12 | 54.7 | 16.6 | 289 | 11.2 | 17.8 | 162 | 43.0 | 40.6 | Capella | 280 | 56.6 | N45 59.6 |
| | 02 | 137 | 38.4 | 160 | 54.2 | 52.9 | 27 | 58.3 | 16.8 | 304 | 13.5 | 17.9 | 177 | 45.2 | 40.5 | Deneb | 49 | 42.3 | N45 15.5 |
| | 03 | 152 | 40.8 | 175 | 54.1 | 51.7 | 43 | 01.8 | 16.9 | 319 | 15.8 | 17.9 | 192 | 47.4 | 40.4 | Denebola | 182 | 49.1 | N14 36.4 |
| | 04 | 167 | 43.3 | 190 | 54.1 | 50.5 | 58 | 05.4 | 17.1 | 334 | 18.1 | 18.0 | 207 | 49.6 | 40.3 | Diphda | 349 | 11.2 | S18 01.5 |
| | 05 | 182 | 45.7 | 205 | 54.1 | 49.4 | 73 | 08.9 | 17.3 | 349 | 20.4 | 18.0 | 222 | 51.8 | 40.2 | | | | |
| | 06 | 197 | 48.2 | 220 | 54.0 | S10 48.2 | 88 | 12.5 | N26 17.5 | 4 | 22.7 | S 4 18.1 | 237 | 54.0 | S16 40.1 | Dubhe | 194 | 09.8 | N61 46.9 |
| | 07 | 212 | 50.7 | 235 | 54.0 | 47.1 | 103 | 16.0 | 17.6 | 19 | 25.0 | 18.1 | 252 | 56.2 | 40.1 | Elnath | 278 | 31.5 | N28 36.1 |
| | 08 | 227 | 53.1 | 250 | 54.0 | 45.9 | 118 | 19.6 | 17.8 | 34 | 27.4 | 18.2 | 267 | 58.4 | 40.0 | Eltanin | 90 | 53.7 | N51 29.3 |
| V | 09 | 242 | 55.6 | 265 | 54.0 | 44.7 | 133 | 23.1 | 18.0 | 49 | 29.7 | 18.2 | 283 | 00.6 | 39.9 | Enif | 34 | 02.4 | N 9 50.7 |
| I | 10 | 257 | 58.1 | 280 | 53.9 | 43.6 | 148 | 26.7 | 18.2 | 64 | 32.0 | 18.3 | 298 | 02.7 | 39.8 | Fomalhaut | 15 | 40.9 | S29 39.6 |
| E | 11 | 273 | 00.5 | 295 | 53.9 | 42.4 | 163 | 30.3 | 18.3 | 79 | 34.3 | 18.3 | 313 | 04.9 | 39.7 | | | | |
| R | 12 | 288 | 03.0 | 310 | 53.9 | S10 41.2 | 178 | 33.8 | N26 18.5 | 94 | 36.6 | S 4 18.4 | 328 | 07.1 | S16 39.6 | Gacrux | 172 | 17.9 | S57 04.3 |
| N | 13 | 303 | 05.5 | 325 | 53.8 | 40.1 | 193 | 37.4 | 18.7 | 109 | 38.9 | 18.4 | 343 | 09.3 | 39.6 | Gienah | 176 | 07.9 | S17 30.3 |
| E | 14 | 318 | 07.9 | 340 | 53.8 | 38.9 | 208 | 40.9 | 18.8 | 124 | 41.2 | 18.5 | 358 | 11.5 | 39.5 | Hadar | 149 | 09.8 | S60 20.2 |
| S | 15 | 333 | 10.4 | 355 | 53.8 | 37.7 | 223 | 44.5 | 19.0 | 139 | 43.6 | 18.5 | 13 | 13.7 | 39.4 | Hamal | 328 | 17.9 | N23 26.0 |
| | 16 | 348 | 12.9 | 10 | 53.8 | 36.6 | 238 | 48.0 | 19.2 | 154 | 45.9 | 18.6 | 28 | 15.9 | 39.3 | Kaus Aust. | 84 | 04.4 | S34 23.3 |
| | 17 | 3 | 15.3 | 25 | 53.8 | 35.4 | 253 | 51.6 | 19.3 | 169 | 48.2 | 18.6 | 43 | 18.1 | 39.2 | | | | |
| | 18 | 18 | 17.8 | 40 | 53.7 | S10 34.2 | 268 | 55.1 | N26 19.5 | 184 | 50.5 | S 4 18.7 | 58 | 20.3 | S16 39.1 | Kochab | 137 | 19.8 | N74 10.7 |
| | 19 | 33 | 20.2 | 55 | 53.7 | 33.1 | 283 | 58.7 | 19.7 | 199 | 52.8 | 18.7 | 73 | 22.4 | 39.1 | Markab | 13 | 53.7 | N15 10.2 |
| | 20 | 48 | 22.7 | 70 | 53.7 | 31.9 | 299 | 02.2 | 19.9 | 214 | 55.1 | 18.8 | 88 | 24.6 | 39.0 | Menkar | 314 | 30.8 | N 4 03.8 |
| | 21 | 63 | 25.2 | 85 | 53.7 | 30.7 | 314 | 05.8 | 20.0 | 229 | 57.4 | 18.8 | 103 | 26.8 | 38.9 | Menkent | 148 | 25.7 | S36 20.1 |
| | 22 | 78 | 27.6 | 100 | 53.7 | 29.6 | 329 | 09.4 | 20.2 | 244 | 59.8 | 18.9 | 118 | 29.0 | 38.8 | Miaplacidus | 221 | 42.1 | S69 41.3 |
| | 23 | 93 | 30.1 | 115 | 53.6 | 28.4 | 344 | 12.9 | 20.4 | 260 | 02.1 | 18.9 | 133 | 31.2 | 38.7 | | | | |
| 9 | 00 | 108 | 32.6 | 130 | 53.6 | S10 27.2 | 359 | 16.5 | N26 20.5 | 275 | 04.4 | S 4 19.0 | 148 | 33.4 | S16 38.6 | Mirfak | 309 | 02.0 | N49 50.4 |
| | 01 | 123 | 35.0 | 145 | 53.6 | 26.1 | 14 | 20.0 | 20.7 | 290 | 06.7 | 19.0 | 163 | 35.6 | 38.6 | Nunki | 76 | 17.6 | S26 18.3 |
| | 02 | 138 | 37.5 | 160 | 53.6 | 24.9 | 29 | 23.6 | 20.9 | 305 | 09.0 | 19.1 | 178 | 37.8 | 38.5 | Peacock | 53 | 43.7 | S56 45.5 |
| | 03 | 153 | 40.0 | 175 | 53.6 | 23.7 | 44 | 27.1 | 21.0 | 320 | 11.4 | 19.1 | 193 | 40.0 | 38.4 | Pollux | 243 | 45.9 | N28 02.5 |
| | 04 | 168 | 42.4 | 190 | 53.6 | 22.6 | 59 | 30.7 | 21.2 | 335 | 13.7 | 19.2 | 208 | 42.1 | 38.3 | Procyon | 245 | 15.3 | N 5 14.5 |
| | 05 | 183 | 44.9 | 205 | 53.5 | 21.4 | 74 | 34.2 | 21.4 | 350 | 16.0 | 19.2 | 223 | 44.3 | 38.2 | | | | |
| | 06 | 198 | 47.3 | 220 | 53.5 | S10 20.2 | 89 | 37.8 | N26 21.5 | 5 | 18.3 | S 4 19.3 | 238 | 46.5 | S16 38.1 | Rasalhague | 96 | 20.9 | N12 33.8 |
| | 07 | 213 | 49.8 | 235 | 53.5 | 19.1 | 104 | 41.3 | 21.7 | 20 | 20.6 | 19.3 | 253 | 48.7 | 38.1 | Regulus | 207 | 59.5 | N11 59.9 |
| | 08 | 228 | 52.3 | 250 | 53.5 | 17.9 | 119 | 44.9 | 21.9 | 35 | 22.9 | 19.4 | 268 | 50.9 | 38.0 | Rigel | 281 | 26.4 | S 8 12.6 |
| S | 09 | 243 | 54.7 | 265 | 53.5 | 16.7 | 134 | 48.4 | 22.0 | 50 | 25.3 | 19.4 | 283 | 53.1 | 37.9 | Rigil Kent. | 140 | 12.8 | S60 48.2 |
| A | 10 | 258 | 57.2 | 280 | 53.5 | 15.5 | 149 | 52.0 | 22.2 | 65 | 27.6 | 19.5 | 298 | 55.3 | 37.8 | Sabik | 102 | 30.3 | S15 43.0 |
| B | 11 | 273 | 59.7 | 295 | 53.5 | 14.4 | 164 | 55.5 | 22.3 | 80 | 29.9 | 19.5 | 313 | 57.5 | 37.7 | | | | |
| A | 12 | 289 | 02.1 | 310 | 53.5 | S10 13.2 | 179 | 59.1 | N26 22.5 | 95 | 32.2 | S 4 19.6 | 328 | 59.6 | S16 37.6 | Schedar | 349 | 58.1 | N56 30.3 |
| D | 13 | 304 | 04.6 | 325 | 53.5 | 12.0 | 195 | 02.6 | 22.7 | 110 | 34.5 | 19.6 | 344 | 01.8 | 37.6 | Shaula | 96 | 43.0 | S37 05.9 |
| O | 14 | 319 | 0 | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | |
|---------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|------|------------|-------|----------|-----------|------------|-------|------------|-------|-----|-----|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 7 | 8 | 9 | 10 | | |
| | o / ' / " | ° / ' / " | o / ' / " | ° / ' / " | o / ' / " | ° / ' / " | | h / m | h / m | h / m | h / m | h / m | h / m | h / m | h / m | | |
| J U E V E S | 7 00 | 178 27.7 | S22 23.8 | 20 30.8 | 5.2 | N22 56.2 | 2.3 | 59.0 | N 72 | 08 15 | 10 19 | ■ | □ | 15 14 | 17 55 | | |
| | 01 | 193 27.4 | 23.5 | 34 55.0 | 5.1 | 22 53.9 | 2.5 | 59.1 | N 70 | 07 58 | 09 36 | ■ | □ | 12 50 | 15 53 | | |
| | 02 | 208 27.1 | 23.1 | 49 19.1 | 5.2 | 22 51.4 | 2.6 | 59.1 | 68 | 07 44 | 09 07 | 11 09 | □ | 14 04 | 16 20 | | |
| | 03 | 223 26.9 | 22.8 | 63 43.3 | 5.1 | 22 48.8 | 2.8 | 59.1 | 66 | 07 32 | 08 46 | 10 13 | 12 46 | 14 41 | 16 40 | | |
| | 04 | 238 26.6 | 22.5 | 78 07.4 | 5.1 | 22 46.0 | 3.0 | 59.2 | 64 | 07 23 | 08 29 | 09 40 | 13 26 | 15 07 | 16 56 | | |
| | 05 | 253 26.3 | 22.2 | 92 31.5 | 5.1 | 22 43.0 | 3.1 | 59.2 | 62 | 07 14 | 08 14 | 09 16 | 13 53 | 15 27 | 17 10 | | |
| | 06 | 268 26.1 | S22 21.9 | 106 55.6 | 5.1 | N22 39.9 | 3.2 | 59.2 | 60 | 07 07 | 08 02 | 08 57 | 14 15 | 15 44 | 17 21 | | |
| | 07 | 283 25.8 | 21.6 | 121 19.7 | 5.1 | 22 36.7 | 3.4 | 59.2 | N 58 | 07 00 | 07 51 | 08 41 | 14 32 | 15 58 | 17 31 | | |
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| | 11 | 343 24.7 | 20.3 | 178 55.9 | 5.1 | 22 22.1 | 4.1 | 59.4 | 50 | 06 38 | 07 19 | 07 57 | 15 20 | 16 37 | 18 00 | | |
| | 12 | 358 24.5 | S22 19.9 | 193 20.0 | 5.0 | N22 18.0 | 4.1 | 59.4 | 45 | 06 28 | 07 04 | 07 38 | 15 41 | 16 55 | 18 13 | | |
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| | 16 | 58 23.4 | 18.6 | 250 56.2 | 5.0 | 22 00.4 | 4.8 | 59.5 | 20 | 05 46 | 06 13 | 06 37 | 16 45 | 17 49 | 18 54 | | |
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| | 18 | 88 22.9 | S22 18.0 | 279 44.3 | 5.1 | N21 50.6 | 5.1 | 59.6 | 0 | 05 15 | 05 41 | 06 03 | 17 20 | 18 20 | 19 17 | | |
| | 19 | 103 22.6 | 17.7 | 294 08.4 | 5.1 | 21 45.5 | 5.3 | 59.6 | S 10 | 04 57 | 05 24 | 05 46 | 17 37 | 18 34 | 19 28 | | |
| | 20 | 118 22.3 | 17.3 | 308 32.5 | 5.1 | 21 40.2 | 5.4 | 59.6 | 20 | 04 35 | 05 04 | 05 29 | 17 55 | 18 50 | 19 40 | | |
| | 21 | 133 22.1 | 17.0 | 322 56.6 | 5.1 | 21 34.8 | 5.6 | 59.7 | 30 | 04 08 | 04 41 | 05 08 | 18 16 | 19 07 | 19 54 | | |
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| 23 | 163 21.5 | 16.3 | 351 44.8 | 5.1 | 21 23.5 | 5.8 | 59.7 | 40 | 03 29 | 04 09 | 04 41 | 18 42 | 19 29 | 20 10 | | | |
| V I E R N E S | 8 00 | 178 21.3 | S22 16.0 | 6 08.9 | 5.2 | N21 17.7 | 6.1 | 59.7 | 45 | 03 00 | 03 48 | 04 24 | 18 59 | 19 43 | 20 21 | | |
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| | 04 | 238 20.2 | 14.7 | 63 45.7 | 5.2 | 20 52.7 | 6.6 | 59.8 | 56 | /// | 02 31 | 03 29 | 19 51 | 20 26 | 20 52 | | |
| | 05 | 253 20.0 | 14.3 | 78 09.9 | 5.3 | 20 46.1 | 6.8 | 59.9 | 58 | /// | 02 06 | 03 14 | 20 06 | 20 37 | 21 00 | | |
| | 06 | 268 19.7 | S22 14.0 | 92 34.2 | 5.3 | N20 39.3 | 6.9 | 59.9 | S 60 | /// | 01 30 | 02 56 | 20 22 | 20 50 | 21 09 | | |
| | 07 | 283 19.4 | 13.6 | 106 58.5 | 5.3 | 20 32.4 | 7.0 | 59.9 | | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| | 08 | 298 19.2 | 13.3 | 121 22.8 | 5.4 | 20 25.4 | 7.2 | 59.9 | | | | Civil | Náut. | 7 | 8 | 9 | 10 |
| | 09 | 313 18.9 | 13.0 | 135 47.2 | 5.4 | 20 18.2 | 7.3 | 59.9 | | | | | | h m | h m | h m | h m |
| | 10 | 328 18.6 | 12.6 | 150 11.6 | 5.4 | 20 10.9 | 7.5 | 60.0 | N 72 | 13 55 | 15 59 | □ | □ | 11 12 | 10 28 | | |
| | 11 | 343 18.4 | 12.3 | 164 36.0 | 5.4 | 20 03.4 | 7.6 | 60.0 | N 70 | 13 05 | 14 38 | 16 16 | □ | 11 32 | 10 31 | | |
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| | 13 | 13 17.9 | 11.6 | 193 24.9 | 5.5 | 19 48.0 | 7.8 | 60.0 | 66 | 14 01 | 15 28 | 16 42 | 09 29 | 09 39 | 09 41 | | |
| | 14 | 28 17.6 | 11.3 | 207 49.4 | 5.6 | 19 40.2 | 8.1 | 60.1 | 64 | 14 34 | 15 46 | 16 51 | 08 49 | 09 12 | 09 24 | | |
| | 15 | 43 17.3 | 10.9 | 222 14.0 | 5.6 | 19 32.1 | 8.1 | 60.1 | 62 | 14 58 | 16 00 | 17 00 | 08 21 | 08 51 | 09 09 | | |
| | 16 | 58 17.1 | 10.6 | 236 38.6 | 5.6 | 19 24.0 | 8.3 | 60.1 | 60 | 15 17 | 16 12 | 17 07 | 07 59 | 08 34 | 08 57 | | |
| | 17 | 73 16.8 | 10.2 | 251 03.2 | 5.7 | 19 15.7 | 8.5 | 60.1 | N 58 | 15 33 | 16 23 | 17 14 | 07 41 | 08 20 | 08 47 | | |
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| | 19 | 103 16.3 | 09.5 | 279 52.6 | 5.8 | 18 58.7 | 8.7 | 60.1 | 54 | 15 58 | 16 40 | 17 26 | 07 14 | 07 56 | 08 29 | | |
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| | 21 | 133 15.8 | 08.8 | 308 42.2 | 5.9 | 18 41.1 | 8.9 | 60.2 | 50 | 16 17 | 16 55 | 17 36 | 06 52 | 07 38 | 08 15 | | |
| | 22 | 148 15.5 | 08.5 | 323 07.1 | 5.8 | 18 32.2 | 9.1 | 60.2 | 45 | 16 36 | 17 09 | 17 46 | 06 31 | 07 20 | 08 01 | | |
| 23 | 163 15.3 | 08.1 | 337 31.9 | 6.0 | 18 23.1 | 9.2 | 60.2 | N 40 | 16 52 | 17 22 | 17 56 | 06 14 | 07 05 | 07 49 | | | |
| S A B A D O | 9 00 | 178 15.0 | S22 07.8 | 351 56.9 | 6.0 | N18 13.9 | 9.4 | 60.2 | 35 | 17 05 | 17 33 | 18 04 | 05 59 | 06 52 | 07 39 | | |
| | 01 | 193 14.7 | 07.4 | 6 21.9 | 6.0 | 18 04.5 | 9.5 | 60.3 | 30 | 17 17 | 17 43 | 18 12 | 05 47 | 06 41 | 07 30 | | |
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| | 03 | 223 14.2 | 06.7 | 35 12.0 | 6.1 | 17 45.5 | 9.8 | 60.3 | N 10 | 17 54 | 18 17 | 18 43 | 05 06 | 06 04 | 07 00 | | |
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| | 05 | 253 13.7 | 06.0 | 64 02.3 | 6.3 | 17 25.9 | 9.9 | 60.3 | S 10 | 18 27 | 18 50 | 19 17 | 04 31 | 05 33 | 06 34 | | |
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| | 11 | 343 12.2 | 03.9 | 150 34.5 | 6.6 | 16 24.4 | 10.6 | 60.4 | S 50 | 20 09 | 20 52 | 21 53 | 02 43 | 03 55 | 05 16 | | |
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| | 18 | 88 10.4 | S22 01.3 | 251 34.6 | 6.9 | N15 07.7 | 11.4 | 60.5 | | | | | | | | | |
| | 19 | 103 10.1 | 01.0 | 266 00.5 | 7.0 | 14 56.3 | 11.5 | 60.5 | | | | | | | | | |
| | 20 | 118 09.9 | 00.6 | 280 26.5 | 7.1 | 14 44.8 | 11.5 | 60.5 | | | | | | | | | |
| | 21 | 133 09.6 | 00.2 | 294 52.6 | 7.1 | 14 33.3 | 11.7 | 60.5 | | | | | | | | | |
| | 22 | 148 09.4 | 00.0 | 309 18.7 | 7.2 | 14 21.6 | 11.8 | 60.5 | | | | | | | | | |
| 23 | 163 09.1 | 00.0 | 323 44.9 | 7.2 | 14 09.8 | 11.8 | 60.5 | | | | | | | | | | |
| | S.D. | 16.3 | d 0.3 | S.D. | 16.2 | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------|--------|------|------|------|--------|------|---------------|------|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|---|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. d P.H. | | | Naut. | Civil | | h m | 10 | | 11 | | 12 | | 13 | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | o | ' | h | m | h | m | h | m |
| DOMINGO | 10 00 | 178 | 08.8 | S21 | 59.1 | 338 | 11.1 | 7.3 | N13 | 58.0 | 11.9 | 60.5 | N 72 | 08 09 | 10 07 | ■ | 17 55 | 20 14 | 22 26 | 24 38 | |
| | 01 | 193 | 08.6 | | 58.8 | 352 | 37.4 | 7.3 | 13 | 46.1 | 12.1 | 60.5 | N 70 | 07 53 | 09 29 | ■ | 18 12 | 20 20 | 22 23 | 24 25 | |
| | 02 | 208 | 08.3 | | 58.4 | 7 | 03.7 | 7.4 | 13 | 34.0 | 12.1 | 60.5 | 68 | 07 40 | 09 02 | 10 53 | 18 26 | 20 25 | 22 20 | 24 14 | |
| | 03 | 223 | 08.1 | .. | 58.0 | 21 | 30.1 | 7.5 | 13 | 21.9 | 12.2 | 60.5 | 66 | 07 29 | 08 41 | 10 05 | 18 37 | 20 29 | 22 18 | 24 05 | |
| | 04 | 238 | 07.8 | | 57.6 | 35 | 56.6 | 7.5 | 13 | 09.7 | 12.3 | 60.5 | 64 | 07 20 | 08 25 | 09 34 | 18 46 | 20 32 | 22 16 | 23 58 | |
| | 05 | 253 | 07.6 | | 57.3 | 50 | 23.1 | 7.6 | 12 | 57.4 | 12.4 | 60.5 | 62 | 07 12 | 08 11 | 09 11 | 18 53 | 20 35 | 22 14 | 23 52 | |
| | 06 | 268 | 07.3 | S21 | 56.9 | 64 | 49.7 | 7.6 | N12 | 45.0 | 12.4 | 60.5 | 60 | 07 05 | 07 59 | 08 53 | 19 00 | 20 37 | 22 13 | 23 47 | |
| | 07 | 283 | 07.1 | | 56.5 | 79 | 16.3 | 7.7 | 12 | 32.6 | 12.6 | 60.5 | N 58 | 06 58 | 07 49 | 08 38 | 19 06 | 20 40 | 22 12 | 23 42 | |
| | 08 | 298 | 06.8 | | 56.2 | 93 | 43.0 | 7.7 | 12 | 20.0 | 12.6 | 60.5 | 56 | 06 52 | 07 40 | 08 25 | 19 11 | 20 42 | 22 10 | 23 38 | |
| | 09 | 313 | 06.6 | .. | 55.8 | 108 | 09.7 | 7.9 | 12 | 07.4 | 12.7 | 60.5 | 54 | 06 47 | 07 32 | 08 14 | 19 15 | 20 43 | 22 09 | 23 34 | |
| | 10 | 328 | 06.3 | | 55.4 | 122 | 36.6 | 7.8 | 11 | 54.7 | 12.7 | 60.5 | 52 | 06 42 | 07 25 | 08 04 | 19 20 | 20 45 | 22 09 | 23 31 | |
| | 11 | 343 | 06.1 | | 55.0 | 137 | 03.4 | 7.9 | 11 | 42.0 | 12.8 | 60.5 | 50 | 06 37 | 07 18 | 07 55 | 19 23 | 20 46 | 22 08 | 23 28 | |
| | 12 | 358 | 05.8 | S21 | 54.6 | 151 | 30.3 | 8.0 | N11 | 29.2 | 12.9 | 60.5 | 45 | 06 27 | 07 04 | 07 37 | 19 31 | 20 49 | 22 06 | 23 21 | |
| | 13 | 13 | 05.6 | | 54.3 | 165 | 57.3 | 8.0 | 11 | 16.3 | 13.0 | 60.5 | N 40 | 06 18 | 06 51 | 07 21 | 19 38 | 20 52 | 22 05 | 23 16 | |
| | 14 | 28 | 05.3 | | 53.9 | 180 | 24.3 | 8.1 | 11 | 03.3 | 13.1 | 60.5 | 35 | 06 09 | 06 41 | 07 08 | 19 44 | 20 54 | 22 03 | 23 11 | |
| | 15 | 43 | 05.1 | .. | 53.5 | 194 | 51.4 | 8.2 | 10 | 50.2 | 13.1 | 60.5 | 30 | 06 02 | 06 31 | 06 57 | 19 49 | 20 56 | 22 02 | 23 07 | |
| | 16 | 58 | 04.8 | | 53.1 | 209 | 18.6 | 8.1 | 10 | 37.1 | 13.1 | 60.5 | 20 | 05 47 | 06 14 | 06 38 | 19 58 | 21 00 | 22 00 | 23 00 | |
| | 17 | 73 | 04.6 | | 52.7 | 223 | 45.7 | 8.3 | 10 | 24.0 | 13.3 | 60.5 | N 10 | 05 32 | 05 58 | 06 20 | 20 05 | 21 03 | 21 59 | 22 54 | |
| | 18 | 88 | 04.3 | S21 | 52.4 | 238 | 13.0 | 8.3 | N10 | 10.7 | 13.3 | 60.5 | 0 | 05 16 | 05 42 | 06 04 | 20 13 | 21 06 | 21 57 | 22 48 | |
| | 19 | 103 | 04.1 | | 52.0 | 252 | 40.3 | 8.3 | 9 | 57.4 | 13.3 | 60.5 | S 10 | 04 59 | 05 25 | 05 48 | 20 20 | 21 09 | 21 56 | 22 42 | |
| | 20 | 118 | 03.8 | | 51.6 | 267 | 07.6 | 8.5 | 9 | 44.1 | 13.4 | 60.5 | 20 | 04 38 | 05 06 | 05 31 | 20 27 | 21 12 | 21 54 | 22 37 | |
| | 21 | 133 | 03.6 | .. | 51.2 | 281 | 35.1 | 8.4 | 9 | 30.7 | 13.5 | 60.5 | 30 | 04 11 | 04 43 | 05 10 | 20 36 | 21 15 | 21 53 | 22 30 | |
| | 22 | 148 | 03.3 | | 50.8 | 296 | 02.5 | 8.5 | 9 | 17.2 | 13.5 | 60.5 | 35 | 03 53 | 04 29 | 04 58 | 20 41 | 21 17 | 21 52 | 22 26 | |
| 23 | 163 | 03.1 | | 50.4 | 310 | 30.0 | 8.6 | 9 | 03.7 | 13.6 | 60.5 | 40 | 03 32 | 04 12 | 04 44 | 20 47 | 21 19 | 21 51 | 22 22 | | |
| | | | | | | | | | | | | 45 | 03 05 | 03 52 | 04 28 | 20 53 | 21 22 | 21 49 | 22 17 | | |
| LUNES | 11 00 | 178 | 02.8 | S21 | 50.0 | 324 | 57.6 | 8.6 | N 8 | 50.1 | 13.6 | 60.5 | S 50 | 02 25 | 03 25 | 04 08 | 21 01 | 21 25 | 21 48 | 22 11 | |
| | 01 | 193 | 02.6 | | 49.7 | 339 | 25.2 | 8.7 | 8 | 36.5 | 13.6 | 60.5 | 52 | 02 03 | 03 12 | 03 58 | 21 04 | 21 27 | 21 47 | 22 08 | |
| | 02 | 208 | 02.3 | | 49.3 | 353 | 52.9 | 8.7 | 8 | 22.9 | 13.8 | 60.5 | 54 | 01 33 | 02 56 | 03 47 | 21 08 | 21 28 | 21 46 | 22 05 | |
| | 03 | 223 | 02.1 | .. | 48.9 | 8 | 20.6 | 8.8 | 8 | 09.1 | 13.7 | 60.5 | 56 | 00 32 | 02 37 | 03 34 | 21 13 | 21 30 | 21 46 | 22 02 | |
| | 04 | 238 | 01.8 | | 48.5 | 22 | 48.4 | 8.8 | 7 | 55.4 | 13.8 | 60.5 | 58 | /// | 02 14 | 03 20 | 21 17 | 21 32 | 21 45 | 21 58 | |
| | 05 | 253 | 01.6 | | 48.1 | 37 | 16.2 | 8.8 | 7 | 41.6 | 13.9 | 60.5 | S 60 | /// | 01 41 | 03 02 | 21 23 | 21 34 | 21 44 | 21 54 | |
| | 06 | 268 | 01.4 | S21 | 47.7 | 51 | 44.0 | 8.9 | N 7 | 27.7 | 13.8 | 60.5 | | | | | | | | | |
| | 07 | 283 | 01.1 | | 47.3 | 66 | 11.9 | 9.0 | 7 | 13.9 | 14.0 | 60.5 | | | | | | | | | |
| | 08 | 298 | 00.9 | | 46.9 | 80 | 39.9 | 9.0 | 6 | 59.9 | 13.9 | 60.4 | | | | | | | | | |
| | 09 | 313 | 00.6 | .. | 46.5 | 95 | 07.9 | 9.0 | 6 | 46.0 | 14.0 | 60.4 | | | | | | | | | |
| | 10 | 328 | 00.4 | | 46.1 | 109 | 35.9 | 9.1 | 6 | 32.0 | 14.1 | 60.4 | | | | | | | | | |
| | 11 | 343 | 00.1 | | 45.7 | 124 | 04.0 | 9.2 | 6 | 17.9 | 14.0 | 60.4 | | | | | | | | | |
| | 12 | 357 | 59.9 | S21 | 45.3 | 138 | 32.2 | 9.2 | N 6 | 03.9 | 14.1 | 60.4 | | | | | | | | | |
| | 13 | 12 | 59.6 | | 45.0 | 153 | 00.4 | 9.2 | 5 | 49.8 | 14.1 | 60.4 | | | | | | | | | |
| | 14 | 27 | 59.4 | | 44.6 | 167 | 28.6 | 9.2 | 5 | 35.7 | 14.2 | 60.4 | | | | | | | | | |
| | 15 | 42 | 59.2 | .. | 44.2 | 181 | 56.8 | 9.4 | 5 | 21.5 | 14.1 | 60.4 | | | | | | | | | |
| | 16 | 57 | 58.9 | | 43.8 | 196 | 25.2 | 9.3 | 5 | 07.4 | 14.2 | 60.4 | | | | | | | | | |
| | 17 | 72 | 58.7 | | 43.4 | 210 | 53.5 | 9.4 | 4 | 53.2 | 14.3 | 60.4 | | | | | | | | | |
| | 18 | 87 | 58.4 | S21 | 43.0 | 225 | 21.9 | 9.4 | N 4 | 38.9 | 14.2 | 60.3 | | | | | | | | | |
| | 19 | 102 | 58.2 | | 42.6 | 239 | 50.3 | 9.5 | 4 | 24.7 | 14.2 | 60.3 | | | | | | | | | |
| | 20 | 117 | 57.9 | | 42.2 | 254 | 18.8 | 9.5 | 4 | 10.5 | 14.3 | 60.3 | | | | | | | | | |
| | 21 | 132 | 57.7 | .. | 41.8 | 268 | 47.3 | 9.5 | 3 | 56.2 | 14.3 | 60.3 | | | | | | | | | |
| | 22 | 147 | 57.5 | | 41.4 | 283 | 15.8 | 9.6 | 3 | 41.9 | 14.3 | 60.3 | | | | | | | | | |
| 23 | 162 | 57.2 | | 40.9 | 297 | 44.4 | 9.6 | 3 | 27.6 | 14.3 | 60.3 | | | | | | | | | | |
| MARTES | 12 00 | 177 | 57.0 | S21 | 40.5 | 312 | 13.0 | 9.6 | N 3 | 13.3 | 14.3 | 60.3 | N 40 | 16 55 | 17 25 | 17 58 | 08 27 | 09 01 | 09 33 | 10 04 | |
| | 01 | 192 | 56.7 | | 40.1 | 326 | 41.6 | 9.7 | 2 | 59.0 | 14.4 | 60.3 | 35 | 17 08 | 17 36 | 18 07 | 08 20 | 08 58 | 09 33 | 10 07 | |
| | 02 | 207 | 56.5 | | 39.7 | 341 | 10.3 | 9.7 | 2 | 44.6 | 14.3 | 60.2 | 30 | 17 19 | 17 45 | 18 15 | 08 14 | 08 54 | 09 32 | 10 10 | |
| | 03 | 222 | 56.2 | .. | 39.3 | 355 | 39.0 | 9.8 | 2 | 30.3 | 14.4 | 60.2 | 20 | 17 39 | 18 02 | 18 30 | 08 03 | 08 48 | 09 32 | 10 14 | |
| | 04 | 237 | 56.0 | | 38.9 | 10 | 07.8 | 9.7 | 2 | 15.9 | 14.3 | 60.2 | N 10 | 17 56 | 18 18 | 18 44 | 07 53 | 08 43 | 09 31 | 10 18 | |
| | 05 | 252 | 55.8 | | 38.5 | 24 | 36.5 | 9.8 | 2 | 01.6 | 14.4 | 60.2 | 0 | 18 12 | 18 34 | 19 00 | 07 44 | 08 38 | 09 30 | 10 21 | |
| | 06 | 267 | 55.5 | S21 | 38.1 | 39 | 05.3 | 9.9 | N 1 | 47.2 | 14.3 | 60.2 | S 10 | 18 28 | 18 51 | 19 17 | 07 35 | 08 33 | 09 30 | 10 25 | |
| | 07 | 282 | 55.3 | | 37.7 | 53 | 34.2 | 9.8 | 1 | 32.9 | 14.4 | 60.2 | 20 | 18 45 | 19 09 | 19 38 | 07 25 | 08 28 | 09 29 | 10 29 | |
| | 08 | 297 | 55.0 | | 37.3 | 68 | 03.0 | 9.9 | 1 | 18.5 | 14.4 | 60.1 | 30 | 19 06 | 19 32 | 20 05 | 07 13 | 08 21 | 09 28 | 10 33 | |
| | 09 | 312 | 54.8 | .. | 36.9 | 82 | 31.9 | 9.9 | 1 | 04.1 | 14.3 | 60.1 | 35 | 19 17 | 19 46 | 20 22 | 07 07 | 08 18 | 09 27 | 10 36 | |
| | 10 | 327 | 54.6 | | 36.5 | 97 | 00.8 | 10.0 | 0 | 49.8 | 14.4 | 60.1 | 40 | 19 31 | 20 03 | 20 43 | 06 59 | 08 13 | 09 27 | 10 39 | |
| | 11 | 342 | 54.3 | | 36.0 | 111 | 29.8 | 9.9 | 0 | 35.4 | 14.3 | 60.1 | 45 | 19 48 | 20 24 | 21 10 | 06 50 | 08 09 | 09 26 | 10 42 | |
| | 12 | 357 | 54.1 | S21 | 35.6 | 125 | 58.7 | 10.0 | N 0 | 21.1 | 14.3 | 60.1 | S 50 | 20 08 | 20 50 | 21 49 | 06 39 | 08 03 | 09 25 | 10 46 | |
| | 13 | 12 | 53.8 | | 35.2 | 140 | 27.7 | 10.0 | N 0 | 06.8 | 14.4 | 60.1 | 52 | 20 17 | 21 03 | 22 11 | 06 34 | 08 00 | 09 25 | 10 48 | |
| | 14 | 27 | 53.6 | | 34.8 | 154 | 56.7 | 10.0 | S 0 | 07.6 | 14.3 | 60. | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE -1.3 | | | JUPITER -2.1 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|---|----------|----------------|----------|------------|-------------|----------|------------|-------------|----------|--------------|----------------|----------|--------------|--------------------|------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| M I E R C O L E S | 13 00 | 112 29.1 | 130 56.0 | S 8 33.8 | 4 56.3 | N26 35.0 | 278 48.2 | S 4 23.2 | 152 03.2 | S16 30.5 | Acamar | 315 29.7 | S40 20.1 | | | | | |
| | 01 | 127 31.6 | 145 56.1 | 32.6 | 19 59.8 | 35.1 | 293 50.5 | 23.3 | 167 05.4 | 30.4 | Achernar | 335 38.0 | S57 16.5 | | | | | |
| | 02 | 142 34.0 | 160 56.1 | 31.4 | 35 03.4 | 35.3 | 308 52.9 | 23.3 | 182 07.6 | 30.3 | Acru | 173 26.3 | S63 03.5 | | | | | |
| | 03 | 157 36.5 | 175 56.2 | 30.2 | 50 06.9 | 35.4 | 323 55.2 | 23.3 | 197 09.8 | 30.3 | Adhara | 255 24.1 | S28 57.9 | | | | | |
| | 04 | 172 39.0 | 190 56.3 | 29.0 | 65 10.4 | 35.5 | 338 57.5 | 23.4 | 212 12.0 | 30.2 | Aldebaran | 291 06.6 | N16 29.8 | | | | | |
| | 05 | 187 41.4 | 205 56.4 | 27.8 | 80 13.9 | 35.7 | 353 59.9 | 23.4 | 227 14.1 | 30.1 | | | | | | | | |
| | 06 | 202 43.9 | 220 56.4 | S 8 26.6 | 95 17.4 | N26 35.8 | 9 02.2 | S 4 23.4 | 242 16.3 | S16 30.0 | Alioth | 166 33.9 | N55 59.4 | | | | | |
| | 07 | 217 46.4 | 235 56.5 | 25.4 | 110 20.9 | 35.9 | 24 04.6 | 23.5 | 257 18.5 | 29.9 | Alkaid | 153 10.9 | N49 20.5 | | | | | |
| | 08 | 232 48.8 | 250 56.6 | 24.2 | 125 24.5 | 36.1 | 39 06.9 | 23.5 | 272 20.7 | 29.8 | Al Na'ir | 28 03.1 | S46 59.8 | | | | | |
| | 09 | 247 51.3 | 265 56.6 | 23.0 | 140 28.0 | 36.2 | 54 09.3 | 23.6 | 287 22.9 | 29.7 | Alnilam | 276 01.5 | S 1 12.4 | | | | | |
| | 10 | 262 53.8 | 280 56.7 | 21.8 | 155 31.5 | 36.3 | 69 11.6 | 23.6 | 302 25.0 | 29.7 | Alphard | 218 10.8 | S 8 37.8 | | | | | |
| | 11 | 277 56.2 | 295 56.8 | 20.6 | 170 35.0 | 36.5 | 84 14.0 | 23.6 | 317 27.2 | 29.6 | | | | | | | | |
| | 12 | 292 58.7 | 310 56.9 | S 8 19.4 | 185 38.5 | N26 36.6 | 99 16.3 | S 4 23.7 | 332 29.4 | S16 29.5 | Alphecca | 126 24.1 | N26 44.0 | | | | | |
| | 13 | 308 01.2 | 325 56.9 | 18.2 | 200 42.0 | 36.7 | 114 18.7 | 23.7 | 347 31.6 | 29.4 | Alpheratz | 357 59.4 | N29 03.3 | | | | | |
| | 14 | 323 03.6 | 340 57.0 | 17.0 | 215 45.6 | 36.8 | 129 21.0 | 23.7 | 2 33.8 | 29.3 | Altair | 62 23.4 | N 8 51.0 | | | | | |
| | 15 | 338 06.1 | 355 57.1 | 15.8 | 230 49.1 | 37.0 | 144 23.4 | 23.8 | 17 36.0 | 29.2 | Ankaa | 353 30.8 | S42 20.8 | | | | | |
| | 16 | 353 08.5 | 10 57.2 | 14.6 | 245 52.6 | 37.1 | 159 25.7 | 23.8 | 32 38.1 | 29.1 | Antares | 112 45.2 | S26 25.0 | | | | | |
| | 17 | 8 11.0 | 25 57.3 | 13.4 | 260 56.1 | 37.2 | 174 28.1 | 23.8 | 47 40.3 | 29.1 | | | | | | | | |
| | 18 | 23 13.5 | 40 57.3 | S 8 12.2 | 275 59.6 | N26 37.4 | 189 30.4 | S 4 23.9 | 62 42.5 | S16 29.0 | Arcturus | 146 09.7 | N19 12.9 | | | | | |
| | 19 | 38 15.9 | 55 57.4 | 11.0 | 291 03.1 | 37.5 | 204 32.8 | 23.9 | 77 44.7 | 28.9 | Atria | 108 01.3 | S69 00.8 | | | | | |
| | 20 | 53 18.4 | 70 57.5 | 09.8 | 306 06.6 | 37.6 | 219 35.1 | 24.0 | 92 46.9 | 28.8 | Avior | 234 23.6 | S59 29.3 | | | | | |
| | 21 | 68 20.9 | 85 57.6 | 08.6 | 321 10.1 | 37.7 | 234 37.5 | 24.0 | 107 49.1 | 28.7 | Bellatrix | 278 48.1 | N 6 20.6 | | | | | |
| | 22 | 83 23.3 | 100 57.7 | 07.4 | 336 13.6 | 37.9 | 249 39.8 | 24.0 | 122 51.2 | 28.6 | Betelgeuse | 271 17.5 | N 7 24.3 | | | | | |
| 23 | 98 25.8 | 115 57.8 | 06.2 | 351 17.2 | 38.0 | 264 42.2 | 24.1 | 137 53.4 | 28.5 | | | | | | | | | |
| J U E V E S | 14 00 | 113 28.3 | 130 57.8 | S 8 05.0 | 6 20.7 | N26 38.1 | 279 44.5 | S 4 24.1 | 152 55.6 | S16 28.5 | Canopus | 264 02.4 | S52 41.7 | | | | | |
| | 01 | 128 30.7 | 145 57.9 | 03.8 | 21 24.2 | 38.2 | 294 46.9 | 24.1 | 167 57.8 | 28.4 | Capella | 280 56.6 | N45 59.6 | | | | | |
| | 02 | 143 33.2 | 160 58.0 | 02.6 | 36 27.7 | 38.4 | 309 49.2 | 24.2 | 183 00.0 | 28.3 | Deneb | 49 42.3 | N45 15.5 | | | | | |
| | 03 | 158 35.7 | 175 58.1 | 01.4 | 51 31.2 | 38.5 | 324 51.6 | 24.2 | 198 02.1 | 28.2 | Denebola | 182 49.0 | N14 36.4 | | | | | |
| | 04 | 173 38.1 | 190 58.2 | 00.2 | 66 34.7 | 38.6 | 339 53.9 | 24.2 | 213 04.3 | 28.1 | Diphda | 349 11.2 | S18 01.5 | | | | | |
| | 05 | 188 40.6 | 205 58.3 | 7 59.0 | 81 38.2 | 38.7 | 354 56.3 | 24.3 | 228 06.5 | 28.0 | | | | | | | | |
| | 06 | 203 43.0 | 220 58.4 | S 7 57.8 | 96 41.7 | N26 38.9 | 9 58.6 | S 4 24.3 | 243 08.7 | S16 27.9 | Dubhe | 194 09.8 | N61 46.9 | | | | | |
| | 07 | 218 45.5 | 235 58.5 | 56.6 | 111 45.2 | 39.0 | 25 01.0 | 24.3 | 258 10.9 | 27.8 | Elnath | 278 31.6 | N28 36.1 | | | | | |
| | 08 | 233 48.0 | 250 58.6 | 55.4 | 126 48.7 | 39.1 | 40 03.3 | 24.4 | 273 13.1 | 27.8 | Eltanin | 90 53.7 | N51 29.3 | | | | | |
| | 09 | 248 50.4 | 265 58.7 | 54.2 | 141 52.2 | 39.2 | 55 05.7 | 24.4 | 288 15.2 | 27.7 | Enif | 34 02.4 | N 9 50.7 | | | | | |
| | 10 | 263 52.9 | 280 58.8 | 53.0 | 156 55.7 | 39.4 | 70 08.1 | 24.4 | 303 17.4 | 27.6 | Fomalhaut | 15 41.0 | S29 39.6 | | | | | |
| | 11 | 278 55.4 | 295 58.9 | 51.8 | 171 59.2 | 39.5 | 85 10.4 | 24.5 | 318 19.6 | 27.5 | | | | | | | | |
| | 12 | 293 57.8 | 310 58.9 | S 7 50.6 | 187 02.7 | N26 39.6 | 100 12.8 | S 4 24.5 | 333 21.8 | S16 27.4 | Gacrux | 172 17.8 | S57 04.3 | | | | | |
| | 13 | 309 00.3 | 325 59.0 | 49.4 | 202 06.2 | 39.7 | 115 15.1 | 24.5 | 348 24.0 | 27.3 | Gienah | 176 07.9 | S17 30.3 | | | | | |
| | 14 | 324 02.8 | 340 59.1 | 48.2 | 217 09.7 | 39.8 | 130 17.5 | 24.6 | 3 26.1 | 27.2 | Hadar | 149 09.7 | S60 20.2 | | | | | |
| | 15 | 339 05.2 | 355 59.2 | 47.0 | 232 13.2 | 40.0 | 145 19.8 | 24.6 | 18 28.3 | 27.2 | Hamal | 328 17.9 | N23 26.0 | | | | | |
| | 16 | 354 07.7 | 10 59.3 | 45.8 | 247 16.7 | 40.1 | 160 22.2 | 24.6 | 33 30.5 | 27.1 | Kaus Aust. | 84 04.4 | S34 23.3 | | | | | |
| | 17 | 9 10.1 | 25 59.4 | 44.6 | 262 20.2 | 40.2 | 175 24.5 | 24.7 | 48 32.7 | 27.0 | | | | | | | | |
| | 18 | 24 12.6 | 40 59.5 | S 7 43.4 | 277 23.7 | N26 40.3 | 190 26.9 | S 4 24.7 | 63 34.9 | S16 26.9 | Kochab | 137 19.7 | N74 10.6 | | | | | |
| | 19 | 39 15.1 | 55 59.6 | 42.2 | 292 27.2 | 40.4 | 205 29.3 | 24.7 | 78 37.0 | 26.8 | Markab | 13 53.7 | N15 10.2 | | | | | |
| | 20 | 54 17.5 | 70 59.8 | 41.0 | 307 30.7 | 40.6 | 220 31.6 | 24.8 | 93 39.2 | 26.7 | Menkar | 314 30.9 | N 4 03.8 | | | | | |
| | 21 | 69 20.0 | 85 59.9 | 39.8 | 322 34.2 | 40.7 | 235 34.0 | 24.8 | 108 41.4 | 26.6 | Menkent | 148 25.7 | S36 20.1 | | | | | |
| | 22 | 84 22.5 | 101 00.0 | 38.6 | 337 37.7 | 40.8 | 250 36.3 | 24.8 | 123 43.6 | 26.5 | Miaplacidus | 221 42.1 | S69 41.3 | | | | | |
| 23 | 99 24.9 | 116 00.1 | 37.4 | 352 41.2 | 40.9 | 265 38.7 | 24.9 | 138 45.8 | 26.5 | | | | | | | | | |
| Y I E R N E S | 15 00 | 114 27.4 | 131 00.2 | S 7 36.2 | 7 44.7 | N26 41.0 | 280 41.0 | S 4 24.9 | 153 48.0 | S16 26.4 | Mirfak | 309 02.0 | N49 50.5 | | | | | |
| | 01 | 129 29.9 | 146 00.3 | 35.0 | 22 48.2 | 41.1 | 295 43.4 | 24.9 | 168 50.1 | 26.3 | Nunki | 76 17.5 | S26 18.3 | | | | | |
| | 02 | 144 32.3 | 161 00.4 | 33.8 | 37 51.6 | 41.3 | 310 45.8 | 25.0 | 183 52.3 | 26.2 | Peacock | 53 43.7 | S56 45.5 | | | | | |
| | 03 | 159 34.8 | 176 00.5 | 32.6 | 52 55.1 | 41.4 | 325 48.1 | 25.0 | 198 54.5 | 26.1 | Pollux | 243 45.9 | N28 02.5 | | | | | |
| | 04 | 174 37.3 | 191 00.6 | 31.4 | 67 58.6 | 41.5 | 340 50.5 | 25.0 | 213 56.7 | 26.0 | Procyon | 245 15.3 | N 5 14.5 | | | | | |
| | 05 | 189 39.7 | 206 00.7 | 30.2 | 83 02.1 | 41.6 | 355 52.8 | 25.1 | 228 58.9 | 25.9 | | | | | | | | |
| | 06 | 204 42.2 | 221 00.8 | S 7 29.0 | 98 05.6 | N26 41.7 | 10 55.2 | S 4 25.1 | 244 01.0 | S16 25.9 | Rasalhague | 96 20.9 | N12 33.8 | | | | | |
| | 07 | 219 44.6 | 236 00.9 | 27.7 | 113 09.1 | 41.8 | 25 57.6 | 25.1 | 259 03.2 | 25.8 | Regulus | 207 59.4 | N11 59.9 | | | | | |
| | 08 | 234 47.1 | 251 01.1 | 26.5 | 128 12.6 | 42.0 | 40 59.9 | 25.2 | 274 05.4 | 25.7 | Rigel | 281 26.4 | S 8 12.7 | | | | | |
| | 09 | 249 49.6 | 266 01.2 | 25.3 | 143 16.1 | 42.1 | 56 02.3 | 25.2 | 289 07.6 | 25.6 | Rigel Kent. | 140 12.8 | S60 48.2 | | | | | |
| | 10 | 264 52.0 | 281 01.3 | 24.1 | 158 19.5 | 42.2 | 71 04.6 | 25.2 | 304 09.8 | 25.5 | Sabik | 102 30.3 | S15 43.0 | | | | | |
| | 11 | 279 54.5 | 296 01.4 | 22.9 | 173 23.0 | 42.3 | 86 07.0 | 25.3 | 319 11.9 | 25.4 | | | | | | | | |
| | 12 | 294 57.0 | 311 01.5 | S 7 21.7 | 188 26.5 | N26 42.4 | 101 09.4 | S 4 25.3 | 334 14.1 | S16 25.3 | Schedar | 349 58.1 | N56 30.3 | | | | | |
| | 13 | 309 59.4 | 326 01.6 | 20.5 | 203 30.0 | 42.5 | 116 11.7 | 25.3 | 349 16.3 | 25.2 | Shaula | 96 43.0 | S37 05.9 | | | | | |
| | 14 | 325 01.9 | 341 01.8 | 19.3 | 218 33.5 | 42.6 | 131 14.1 | 25.3 | 4 18.5 | 25.2 | Sirius | 258 46.8 | S16 42.5 | | | | | |
| | 15 | 340 04.4 | 356 01.9 | 18.1 | 233 37.0 | 42.7 | 146 16.5 | 25.4 | 19 20.7 | 25.1 | Spica | 158 47.3 | S11 07.6 | | | | | |
| | 16 | 355 06.8 | 11 02.0 | 16.9 | 248 40.4 | 42.9 | 161 18.8 | 25.4 | 34 22.8 | 25.0 | Suhail | 223 03.3 | S43 24.3 | | | | | |
| | 17 | 10 09.3 | 26 02.1 | 15.7 | 263 43.9 | 43.0 | 176 21.2 | 25.4 | 49 25.0 | 24.9 | | | | | | | | |
| | 18 | 25 11.8 | 41 02.2 | S 7 14.5 | 278 47.4 | N26 43.1 | 191 23.5 | S 4 25.5 | 64 27.2 | S16 24.8 | Vega | 80 49.7 | N38 46.6 | | | | | |
| | 19 | 40 14.2 | 56 02.4 | 13.3 | 293 50.9 | 43.2 | 206 25.9 | 25.5 | 79 29.4 | 24.7 | Zuben'ubi | 137 22.4 | S16 00.8 | | | | | |
| | 20 | 55 16.7 | 71 02.5 | 12.1 | 308 54.4 | 43.3 | 221 28.3 | 25.5 | 94 31.6 | 24.6 | | | | | | | | |
| | 21 | 70 19.1 | 86 02.6 | 10.9 | 323 57.8 | 43.4 | 236 30.6 | 25.6 | 109 33.7 | 24.6 | | | | | | | | |
| | 22 | 85 21.6 | 101 02.7 | 09.6 | 339 01.3 | 43.5 | 251 33.0 | 25.6 | 124 35.9 | 24.5 | | | | | | | | |
| 23 | 100 24.1 | 116 02.9 | 08.4 | 354 04.8 | 43.6 | 266 35.4 | 25.6 | 139 38.1 | 24.4 | | | | | | | | | |
| Pas. Mer. 16 23.4 | | v 0.1 d 1.2 | | | v 3.5 d 0.1 | | | v 2.4 d 0.0 | | | v 2.2 d 0.1 | | | A. H. S. Pas. Mer. | | | | |
| | | o / h m | | | | | | | | | o / h m | | | | | | | |
| | | 17 29.6 15 16 | | | | | | | | | 17 29.6 15 16 | | | | | | | |
| | | 252 52.4 23 29 | | | | | | | | | 252 52.4 23 29 | | | | | | | |
| | | 166 16.3 5 20 | | | | | | | | | 166 16.3 5 20 | | | | | | | |
| | | 39 27.3 13 46 | | | | | | | | | 39 27.3 13 46 | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|---|--------|------|------|------|--------|------|------|------|------|------------|------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|---|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | d | P.H. | | Naut. | Civil | 13 | | 14 | | 15 | | 16 | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | h | m | h | m | h | m | h | m |
| M I E R C O L E S | 13 00 | 177 | 51.2 | S21 | 30.6 | 299 | 47.9 | 10.2 | S | 2 | 30.0 | 14.1 | 59.8 | N 72 | 08 03 | 09 55 | ■ | 24 38 | 00 38 | 02 59 | ■ | |
| | 01 | 192 | 51.0 | | 30.2 | 314 | 17.1 | 10.2 | | 2 | 44.1 | 14.1 | 59.8 | N 70 | 07 48 | 09 21 | ■ | 24 25 | 00 25 | 02 31 | 04 52 | |
| | 02 | 207 | 50.8 | | 29.8 | 328 | 46.3 | 10.2 | | 2 | 58.2 | 14.1 | 59.8 | 68 | 07 36 | 08 56 | 10 38 | 24 14 | 00 14 | 02 10 | 04 10 | |
| | 03 | 222 | 50.5 | | 29.3 | 343 | 15.5 | 10.2 | | 3 | 12.3 | 14.1 | 59.8 | 66 | 07 25 | 08 36 | 09 56 | 24 05 | 00 05 | 01 53 | 03 42 | |
| | 04 | 237 | 50.3 | | 28.9 | 357 | 44.7 | 10.3 | | 3 | 26.4 | 14.0 | 59.8 | 64 | 07 16 | 08 20 | 09 28 | 23 58 | 25 40 | 01 40 | 03 21 | |
| | 05 | 252 | 50.1 | | 28.5 | 12 | 14.0 | 10.2 | | 3 | 40.4 | 14.0 | 59.7 | 62 | 07 09 | 08 07 | 09 06 | 23 52 | 25 29 | 01 29 | 03 04 | |
| | 06 | 267 | 49.8 | S21 | 28.1 | 26 | 43.2 | 10.3 | S | 3 | 54.4 | 13.9 | 59.7 | 60 | 07 02 | 07 56 | 08 49 | 23 47 | 25 19 | 01 19 | 02 50 | |
| | 07 | 282 | 49.6 | | 27.6 | 41 | 12.5 | 10.3 | | 4 | 08.3 | 13.9 | 59.7 | N 58 | 06 56 | 07 46 | 08 35 | 23 42 | 25 11 | 01 11 | 02 38 | |
| | 08 | 297 | 49.4 | | 27.2 | 55 | 41.8 | 10.2 | | 4 | 22.2 | 13.9 | 59.7 | 56 | 06 50 | 07 38 | 08 22 | 23 38 | 25 04 | 01 04 | 02 27 | |
| | 09 | 312 | 49.1 | | 26.8 | 70 | 11.0 | 10.3 | | 4 | 36.1 | 13.9 | 59.7 | 54 | 06 45 | 07 30 | 08 12 | 23 34 | 24 57 | 00 57 | 02 18 | |
| | 10 | 327 | 48.9 | | 26.4 | 84 | 40.3 | 10.3 | | 4 | 50.0 | 13.8 | 59.6 | 52 | 06 40 | 07 23 | 08 02 | 23 31 | 24 52 | 00 52 | 02 10 | |
| | 11 | 342 | 48.7 | | 25.9 | 99 | 09.6 | 10.3 | | 5 | 04.8 | 13.7 | 59.6 | 50 | 06 36 | 07 16 | 07 53 | 23 28 | 24 46 | 00 46 | 02 03 | |
| | 12 | 357 | 48.4 | S21 | 25.5 | 113 | 38.9 | 10.3 | S | 5 | 17.5 | 13.8 | 59.6 | 45 | 06 26 | 07 02 | 07 35 | 23 21 | 24 35 | 00 35 | 01 47 | |
| | 13 | 12 | 48.2 | | 25.1 | 128 | 08.2 | 10.3 | | 5 | 31.3 | 13.6 | 59.6 | N 40 | 06 17 | 06 51 | 07 20 | 23 16 | 24 26 | 00 26 | 01 35 | |
| | 14 | 27 | 48.0 | | 24.6 | 142 | 37.5 | 10.3 | | 5 | 44.9 | 13.7 | 59.5 | 35 | 06 09 | 06 40 | 07 08 | 23 11 | 24 18 | 00 18 | 01 24 | |
| | 15 | 42 | 47.7 | | 24.2 | 157 | 06.8 | 10.3 | | 5 | 58.6 | 13.6 | 59.5 | 30 | 06 02 | 06 31 | 06 57 | 23 07 | 24 11 | 00 11 | 01 14 | |
| | 16 | 57 | 47.5 | | 23.8 | 171 | 36.1 | 10.2 | | 6 | 12.2 | 13.5 | 59.5 | 20 | 05 47 | 06 14 | 06 38 | 23 00 | 23 59 | 24 58 | 00 58 | |
| | 17 | 72 | 47.3 | | 23.3 | 186 | 05.3 | 10.3 | | 6 | 25.7 | 13.5 | 59.5 | N 10 | 05 33 | 05 59 | 06 21 | 22 54 | 23 49 | 24 44 | 00 44 | |
| | 18 | 87 | 47.1 | S21 | 22.9 | 200 | 34.6 | 10.3 | S | 6 | 39.2 | 13.5 | 59.4 | 0 | 05 17 | 05 43 | 06 05 | 22 48 | 23 39 | 24 31 | 00 31 | |
| | 19 | 102 | 46.8 | | 22.5 | 215 | 03.9 | 10.3 | | 6 | 52.7 | 13.4 | 59.4 | S 10 | 05 00 | 05 27 | 05 50 | 22 42 | 23 30 | 24 18 | 00 18 | |
| | 20 | 117 | 46.6 | | 22.0 | 229 | 33.2 | 10.3 | | 7 | 06.1 | 13.4 | 59.4 | 20 | 04 40 | 05 08 | 05 33 | 22 37 | 23 20 | 24 05 | 00 05 | |
| | 21 | 132 | 46.4 | | 21.6 | 244 | 02.5 | 10.3 | | 7 | 19.5 | 13.3 | 59.4 | 30 | 04 14 | 04 46 | 05 13 | 22 30 | 23 08 | 23 49 | 24 33 | |
| | 22 | 147 | 46.1 | | 21.1 | 258 | 31.8 | 10.2 | | 7 | 32.8 | 13.2 | 59.3 | 35 | 03 57 | 04 32 | 05 01 | 22 26 | 23 02 | 23 40 | 24 22 | |
| 23 | 162 | 45.9 | | 20.7 | 273 | 01.0 | 10.3 | | 7 | 46.0 | 13.2 | 59.3 | 40 | 03 36 | 04 16 | 04 48 | 22 22 | 22 54 | 23 30 | 24 09 | | |
| J U E V E S | 14 00 | 177 | 45.7 | S21 | 20.3 | 287 | 30.3 | 10.3 | S | 7 | 59.2 | 13.1 | 59.3 | S 10 | 02 32 | 03 30 | 04 12 | 22 11 | 22 35 | 23 03 | 23 37 | |
| | 01 | 192 | 45.5 | | 19.8 | 301 | 59.6 | 10.2 | | 8 | 12.3 | 13.1 | 59.3 | 52 | 02 11 | 03 17 | 04 02 | 22 08 | 22 31 | 22 57 | 23 28 | |
| | 02 | 207 | 45.2 | | 19.4 | 316 | 28.8 | 10.3 | | 8 | 25.4 | 13.1 | 59.2 | 54 | 01 43 | 03 02 | 03 52 | 22 05 | 22 25 | 22 49 | 23 19 | |
| | 03 | 222 | 45.0 | | 19.0 | 330 | 58.1 | 10.2 | | 8 | 38.5 | 12.9 | 59.2 | 56 | 00 57 | 02 44 | 03 40 | 22 02 | 22 20 | 22 41 | 23 08 | |
| | 04 | 237 | 44.8 | | 18.5 | 345 | 27.3 | 10.2 | | 8 | 51.4 | 12.9 | 59.2 | 58 | /// | /// | /// | 21 58 | 22 13 | 22 31 | 22 56 | |
| | 05 | 252 | 44.5 | | 18.1 | 359 | 56.5 | 10.2 | | 9 | 04.3 | 12.9 | 59.2 | S 60 | /// | /// | /// | 21 54 | 22 06 | 22 21 | 22 42 | |
| | 06 | 267 | 44.3 | S21 | 17.6 | 14 | 25.7 | 10.2 | S | 9 | 17.2 | 12.8 | 59.1 | | | | | | | | | |
| | 07 | 282 | 44.1 | | 17.2 | 28 | 54.9 | 10.2 | | 9 | 30.0 | 12.7 | 59.1 | | | | | | | | | |
| | 08 | 297 | 43.9 | | 16.7 | 43 | 24.1 | 10.2 | | 9 | 42.7 | 12.6 | 59.1 | | | | | | | | | |
| | 09 | 312 | 43.6 | | 16.3 | 57 | 53.3 | 10.2 | | 9 | 55.3 | 12.6 | 59.1 | | | | | | | | | |
| | 10 | 327 | 43.4 | | 15.8 | 72 | 22.5 | 10.1 | | 10 | 07.9 | 12.5 | 59.0 | | | | | | | | | |
| | 11 | 342 | 43.2 | | 15.4 | 86 | 51.6 | 10.2 | | 10 | 20.4 | 12.5 | 59.0 | | | | | | | | | |
| | 12 | 357 | 43.0 | S21 | 14.9 | 101 | 20.8 | 10.1 | S | 10 | 32.9 | 12.4 | 59.0 | | | | | | | | | |
| | 13 | 12 | 42.7 | | 14.5 | 115 | 49.9 | 10.1 | | 10 | 45.3 | 12.3 | 59.0 | | | | | | | | | |
| | 14 | 27 | 42.5 | | 14.0 | 130 | 19.0 | 10.1 | | 10 | 57.6 | 12.2 | 58.9 | | | | | | | | | |
| | 15 | 42 | 42.3 | | 13.6 | 144 | 48.1 | 10.1 | | 11 | 09.8 | 12.2 | 58.9 | | | | | | | | | |
| | 16 | 57 | 42.1 | | 13.1 | 159 | 17.2 | 10.0 | | 11 | 22.0 | 12.1 | 58.9 | | | | | | | | | |
| | 17 | 72 | 41.8 | | 12.7 | 173 | 46.2 | 10.1 | | 11 | 34.1 | 12.0 | 58.9 | | | | | | | | | |
| | 18 | 87 | 41.6 | S21 | 12.2 | 188 | 15.3 | 10.0 | S | 11 | 46.1 | 11.9 | 58.8 | | | | | | | | | |
| | 19 | 102 | 41.4 | | 11.8 | 202 | 44.3 | 10.0 | | 11 | 58.0 | 11.9 | 58.8 | | | | | | | | | |
| | 20 | 117 | 41.2 | | 11.3 | 217 | 13.3 | 10.0 | | 12 | 09.9 | 11.8 | 58.8 | | | | | | | | | |
| | 21 | 132 | 40.9 | | 10.9 | 231 | 42.3 | 9.9 | | 12 | 21.7 | 11.7 | 58.8 | | | | | | | | | |
| | 22 | 147 | 40.7 | | 10.4 | 246 | 11.2 | 10.0 | | 12 | 33.4 | 11.6 | 58.7 | | | | | | | | | |
| 23 | 162 | 40.5 | | 10.0 | 260 | 40.2 | 9.9 | | 12 | 45.0 | 11.6 | 58.7 | | | | | | | | | | |
| V I E R N E S | 15 00 | 177 | 40.3 | S21 | 09.5 | 275 | 09.1 | 9.9 | S | 12 | 56.6 | 11.4 | 58.7 | N 40 | 16 58 | 17 28 | 18 01 | 10 04 | 10 36 | 11 10 | 11 47 | |
| | 01 | 192 | 40.0 | | 09.1 | 289 | 38.0 | 9.9 | | 13 | 08.0 | 11.4 | 58.7 | 35 | 17 11 | 17 38 | 18 09 | 10 07 | 10 42 | 11 19 | 11 59 | |
| | 02 | 207 | 39.8 | | 08.6 | 304 | 06.9 | 9.8 | | 13 | 19.4 | 11.3 | 58.6 | 30 | 17 22 | 17 48 | 18 17 | 10 10 | 10 47 | 11 27 | 12 09 | |
| | 03 | 222 | 39.6 | | 08.1 | 318 | 35.7 | 9.9 | | 13 | 30.7 | 11.2 | 58.6 | 20 | 17 41 | 18 04 | 18 31 | 10 14 | 10 57 | 11 41 | 12 27 | |
| | 04 | 237 | 39.4 | | 07.7 | 333 | 04.6 | 9.8 | | 13 | 41.9 | 11.2 | 58.6 | N 10 | 17 57 | 18 20 | 18 46 | 10 18 | 11 05 | 11 53 | 12 42 | |
| | 05 | 252 | 39.2 | | 07.2 | 347 | 33.4 | 9.8 | | 13 | 53.1 | 11.0 | 58.5 | 0 | 18 13 | 18 35 | 19 01 | 10 21 | 11 12 | 12 04 | 12 57 | |
| | 06 | 267 | 38.9 | S21 | 06.8 | 2 | 02.2 | 9.7 | S | 14 | 04.1 | 11.0 | 58.5 | S 10 | 18 29 | 18 51 | 19 18 | 10 25 | 11 20 | 12 15 | 13 11 | |
| | 07 | 282 | 38.7 | | 06.3 | 16 | 30.9 | 9.8 | | 14 | 15.1 | 10.8 | 58.5 | 20 | 18 46 | 19 10 | 19 38 | 10 29 | 11 28 | 12 27 | 13 26 | |
| | 08 | 297 | 38.5 | | 05.8 | 30 | 59.7 | 9.7 | | 14 | 25.9 | 10.8 | 58.5 | 30 | 19 05 | 19 32 | 20 04 | 10 33 | 11 38 | 12 41 | 13 44 | |
| | 09 | 312 | 38.3 | | 05.4 | 45 | 28.4 | 9.7 | | 14 | 36.7 | 10.7 | 58.4 | 35 | 19 17 | 19 46 | 20 21 | 10 36 | 11 43 | 12 49 | 13 55 | |
| | 10 | 327 | 38.1 | | 04.9 | 59 | 57.1 | 9.7 | | 14 | 47.4 | 10.6 | 58.4 | 40 | 19 30 | 20 02 | 20 41 | 10 39 | 11 49 | 12 59 | 14 06 | |
| | 11 | 342 | 37.8 | | 04.5 | 74 | 25.8 | 9.6 | | 14 | 58.0 | 10.5 | 58.4 | 45 | 19 46 | 20 22 | 21 08 | 10 42 | 11 56 | 13 10 | 14 20 | |
| | 12 | 357 | 37.6 | S21 | 04.0 | 88 | 54.4 | 9.6 | S | 15 | 08.5 | 10.4 | 58.4 | S 50 | 20 06 | 20 47 | 21 45 | 10 46 | 12 05 | 13 23 | 14 38 | |
| | 13 | 12 | 37.4 | | 03.5 | 103 | 23.0 | 9.6 | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE -1.3 | | | JUPITER -2.1 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|--|------------|----------|--|--------------|----------|--|--------------|----------|----------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. |
| 16 00 | 115 26.5 | 131 03.0 | S 7 07.2 | 9 08.3 | N26 43.7 | | 281 37.7 | S 4 25.6 | | 154 40.3 | S16 24.3 | | Acamar | 315 29.7 | S40 20.1 | | | |
| 01 | 130 29.0 | 146 03.1 | 06.0 | 24 11.7 | 43.8 | | 296 40.1 | 25.7 | | 169 42.5 | 24.2 | | Achernar | 335 38.0 | S57 16.5 | | | |
| 02 | 145 31.5 | 161 03.3 | 04.8 | 39 15.2 | 44.0 | | 311 42.5 | 25.7 | | 184 44.6 | 24.1 | | Acrux | 173 26.2 | S63 03.5 | | | |
| 03 | 160 33.9 | 176 03.4 | 03.6 | 54 18.7 | 44.1 | | 326 44.8 | 25.7 | | 199 46.8 | 24.0 | | Adhara | 255 24.1 | S28 57.9 | | | |
| 04 | 175 36.4 | 191 03.5 | 02.4 | 69 22.2 | 44.2 | | 341 47.2 | 25.8 | | 214 49.0 | 23.9 | | Aldebaran | 291 06.6 | N16 29.8 | | | |
| 05 | 190 38.9 | 206 03.7 | 01.2 | 84 25.6 | 44.3 | | 356 49.6 | 25.8 | | 229 51.2 | 23.9 | | | | | | | |
| 06 | 205 41.3 | 221 03.8 | S 7 00.0 | 99 29.1 | N26 44.4 | | 11 51.9 | S 4 25.8 | | 244 53.4 | S16 23.8 | | Alioth | 166 33.8 | N55 59.4 | | | |
| 07 | 220 43.8 | 236 03.9 | 6 58.8 | 114 32.6 | 44.5 | | 26 54.3 | 25.8 | | 259 55.5 | 23.7 | | Alkaid | 153 10.8 | N49 20.5 | | | |
| 08 | 235 46.3 | 251 04.1 | 57.6 | 129 36.0 | 44.6 | | 41 56.7 | 25.9 | | 274 57.7 | 23.6 | | Al Na'ir | 28 03.1 | S46 59.8 | | | |
| S 09 | 250 48.7 | 266 04.2 | 56.3 | 144 39.5 | 44.7 | | 56 59.0 | 25.9 | | 289 59.9 | 23.5 | | Alnilam | 276 01.5 | S 1 12.4 | | | |
| A 10 | 265 51.2 | 281 04.3 | 55.1 | 159 43.0 | 44.8 | | 72 01.4 | 25.9 | | 305 02.1 | 23.4 | | Alphard | 218 10.7 | S 8 37.9 | | | |
| B 11 | 280 53.6 | 296 04.5 | 53.9 | 174 46.4 | 44.9 | | 87 03.8 | 26.0 | | 320 04.2 | 23.3 | | | | | | | |
| A 12 | 295 56.1 | 311 04.6 | S 6 52.7 | 189 49.9 | N26 45.0 | | 102 06.1 | S 4 26.0 | | 335 06.4 | S16 23.2 | | Alphecca | 126 24.1 | N26 44.0 | | | |
| D 13 | 310 58.6 | 326 04.7 | 51.5 | 204 53.4 | 45.1 | | 117 08.5 | 26.0 | | 350 08.6 | 23.2 | | Alpheratz | 357 59.4 | N29 03.3 | | | |
| O 14 | 326 01.0 | 341 04.9 | 50.3 | 219 56.8 | 45.2 | | 132 10.9 | 26.0 | | 5 10.8 | 23.1 | | Altair | 62 23.4 | N 8 51.0 | | | |
| 15 | 341 03.5 | 356 05.0 | 49.1 | 235 00.3 | 45.3 | | 147 13.2 | 26.1 | | 20 13.0 | 23.0 | | Ankaa | 353 30.8 | S42 20.8 | | | |
| 16 | 356 06.0 | 11 05.2 | 47.9 | 250 03.8 | 45.4 | | 162 15.6 | 26.1 | | 35 15.1 | 22.9 | | Antares | 112 45.2 | S26 25.0 | | | |
| 17 | 11 08.4 | 26 05.3 | 46.7 | 265 07.2 | 45.5 | | 177 18.0 | 26.1 | | 50 17.3 | 22.8 | | | | | | | |
| 18 | 26 10.9 | 41 05.5 | S 6 45.5 | 280 10.7 | N26 45.6 | | 192 20.4 | S 4 26.1 | | 65 19.5 | S16 22.7 | | Arcturus | 146 09.6 | N19 12.9 | | | |
| 19 | 41 13.4 | 56 05.6 | 44.2 | 295 14.1 | 45.7 | | 207 22.7 | 26.2 | | 80 21.7 | 22.6 | | Atria | 108 01.2 | S69 00.8 | | | |
| 20 | 56 15.8 | 71 05.7 | 43.0 | 310 17.6 | 45.8 | | 222 25.1 | 26.2 | | 95 23.9 | 22.5 | | Avior | 234 23.6 | S59 29.3 | | | |
| 21 | 71 18.3 | 86 05.9 | 41.8 | 325 21.1 | 45.9 | | 237 27.5 | 26.2 | | 110 26.0 | 22.5 | | Bellatrix | 278 48.1 | N 6 20.6 | | | |
| 22 | 86 20.7 | 101 06.0 | 40.6 | 340 24.5 | 46.0 | | 252 29.8 | 26.3 | | 125 28.2 | 22.4 | | Betelgeuse | 271 17.5 | N 7 24.3 | | | |
| 23 | 101 23.2 | 116 06.2 | 39.4 | 355 28.0 | 46.1 | | 267 32.2 | 26.3 | | 140 30.4 | 22.3 | | | | | | | |
| 17 00 | 116 25.7 | 131 06.3 | S 6 38.2 | 10 31.4 | N26 46.2 | | 282 34.6 | S 4 26.3 | | 155 32.6 | S16 22.2 | | Canopus | 264 02.4 | S52 41.7 | | | |
| 01 | 131 28.1 | 146 06.5 | 37.0 | 25 34.9 | 46.3 | | 297 37.0 | 26.3 | | 170 34.7 | 22.1 | | Capella | 280 56.6 | N45 59.6 | | | |
| 02 | 146 30.6 | 161 06.6 | 35.8 | 40 38.3 | 46.4 | | 312 39.3 | 26.4 | | 185 36.9 | 22.0 | | Deneb | 49 42.3 | N45 15.4 | | | |
| 03 | 161 33.1 | 176 06.8 | 34.5 | 55 41.8 | 46.5 | | 327 41.7 | 26.4 | | 200 39.1 | 21.9 | | Denebola | 182 49.0 | N14 36.4 | | | |
| 04 | 176 35.5 | 191 06.9 | 33.3 | 70 45.2 | 46.6 | | 342 44.1 | 26.4 | | 215 41.3 | 21.8 | | Diphda | 349 11.2 | S18 01.5 | | | |
| 05 | 191 38.0 | 206 07.1 | 32.1 | 85 48.7 | 46.7 | | 357 46.5 | 26.4 | | 230 43.5 | 21.8 | | | | | | | |
| 06 | 206 40.5 | 221 07.2 | S 6 30.9 | 100 52.1 | N26 46.8 | | 12 48.8 | S 4 26.5 | | 245 45.6 | S16 21.7 | | Dubhe | 194 09.7 | N61 46.9 | | | |
| 07 | 221 42.9 | 236 07.4 | 29.7 | 115 55.6 | 46.9 | | 27 51.2 | 26.5 | | 260 47.8 | 21.6 | | Elnath | 278 31.6 | N28 36.1 | | | |
| D 08 | 236 45.4 | 251 07.5 | 28.5 | 130 59.0 | 47.0 | | 42 53.6 | 26.5 | | 275 50.0 | 21.5 | | Eltanin | 90 53.7 | N51 29.2 | | | |
| O 09 | 251 47.9 | 266 07.7 | 27.3 | 146 02.5 | 47.1 | | 57 56.0 | 26.5 | | 290 52.2 | 21.4 | | Enif | 34 02.4 | N 9 50.7 | | | |
| M 10 | 266 50.3 | 281 07.9 | 26.1 | 161 05.9 | 47.2 | | 72 58.3 | 26.6 | | 305 54.4 | 21.3 | | Fomalhaut | 15 41.0 | S29 39.6 | | | |
| I 11 | 281 52.8 | 296 08.0 | 24.8 | 176 09.4 | 47.3 | | 88 00.7 | 26.6 | | 320 56.5 | 21.2 | | | | | | | |
| N 12 | 296 55.2 | 311 08.2 | S 6 23.6 | 191 12.8 | N26 47.4 | | 103 03.1 | S 4 26.6 | | 335 58.7 | S16 21.1 | | Gacrux | 172 17.8 | S57 04.3 | | | |
| G 13 | 311 57.7 | 326 08.3 | 22.4 | 206 16.3 | 47.5 | | 118 05.5 | 26.6 | | 351 00.9 | 21.1 | | Gienah | 176 07.9 | S17 30.3 | | | |
| O 14 | 327 00.2 | 341 08.5 | 21.2 | 221 19.7 | 47.6 | | 133 07.8 | 26.7 | | 6 03.1 | 21.0 | | Hadar | 149 09.7 | S60 20.2 | | | |
| 15 | 342 02.6 | 356 08.7 | 20.0 | 236 23.2 | 47.7 | | 148 10.2 | 26.7 | | 21 05.2 | 20.9 | | Hamal | 328 17.9 | N23 25.9 | | | |
| 16 | 357 05.1 | 11 08.8 | 18.8 | 251 26.6 | 47.8 | | 163 12.6 | 26.7 | | 36 07.4 | 20.8 | | Kaus Aust. | 84 04.4 | S34 23.3 | | | |
| 17 | 12 07.6 | 26 09.0 | 17.6 | 266 30.0 | 47.9 | | 178 15.0 | 26.7 | | 51 09.6 | 20.7 | | | | | | | |
| 18 | 27 10.0 | 41 09.2 | S 6 16.3 | 281 33.5 | N26 48.0 | | 193 17.3 | S 4 26.8 | | 66 11.8 | S16 20.6 | | Kochab | 137 19.7 | N74 10.6 | | | |
| 19 | 42 12.5 | 56 09.3 | 15.1 | 296 36.9 | 48.1 | | 208 19.7 | 26.8 | | 81 14.0 | 20.5 | | Markab | 13 53.7 | N15 10.2 | | | |
| 20 | 57 15.0 | 71 09.5 | 13.9 | 311 40.4 | 48.2 | | 223 22.1 | 26.8 | | 96 16.1 | 20.4 | | Menkar | 314 30.9 | N 4 03.8 | | | |
| 21 | 72 17.4 | 86 09.7 | 12.7 | 326 43.8 | 48.3 | | 238 24.5 | 26.8 | | 111 18.3 | 20.4 | | Menkent | 148 25.6 | S36 20.1 | | | |
| 22 | 87 19.9 | 101 09.8 | 11.5 | 341 47.2 | 48.3 | | 253 26.9 | 26.9 | | 126 20.5 | 20.3 | | Miaplacidus | 221 42.0 | S69 41.3 | | | |
| 23 | 102 22.4 | 116 10.0 | 10.3 | 356 50.7 | 48.4 | | 268 29.2 | 26.9 | | 141 22.7 | 20.2 | | | | | | | |
| 18 00 | 117 24.8 | 131 10.2 | S 6 09.1 | 11 54.1 | N26 48.5 | | 283 31.6 | S 4 26.9 | | 156 24.8 | S16 20.1 | | Mirfak | 309 02.0 | N49 50.5 | | | |
| 01 | 132 27.3 | 146 10.3 | 07.8 | 26 57.5 | 48.6 | | 298 34.0 | 26.9 | | 171 27.0 | 20.0 | | Nunki | 76 17.5 | S26 18.3 | | | |
| 02 | 147 29.7 | 161 10.5 | 06.6 | 42 01.0 | 48.7 | | 313 36.4 | 26.9 | | 186 29.2 | 19.9 | | Peacock | 53 43.7 | S56 45.5 | | | |
| 03 | 162 32.2 | 176 10.7 | 05.4 | 57 04.4 | 48.8 | | 328 38.8 | 27.0 | | 201 31.4 | 19.8 | | Pollux | 243 45.9 | N28 02.5 | | | |
| 04 | 177 34.7 | 191 10.8 | 04.2 | 72 07.8 | 48.9 | | 343 41.1 | 27.0 | | 216 33.6 | 19.7 | | Procyon | 245 15.3 | N 5 14.4 | | | |
| 05 | 192 37.1 | 206 11.0 | 03.0 | 87 11.3 | 49.0 | | 358 43.5 | 27.0 | | 231 35.7 | 19.6 | | | | | | | |
| 06 | 207 39.6 | 221 11.2 | S 6 01.8 | 102 14.7 | N26 49.1 | | 13 45.9 | S 4 27.0 | | 246 37.9 | S16 19.6 | | Rasalhague | 96 20.9 | N12 33.8 | | | |
| 07 | 222 42.1 | 236 11.4 | 6 00.6 | 117 18.1 | 49.2 | | 28 48.3 | 27.1 | | 261 40.1 | 19.5 | | Regulus | 207 59.4 | N11 59.9 | | | |
| 08 | 237 44.5 | 251 11.5 | 5 59.3 | 132 21.5 | 49.2 | | 43 50.7 | 27.1 | | 276 42.3 | 19.4 | | Rigel | 281 26.4 | S 8 12.7 | | | |
| L 09 | 252 47.0 | 266 11.7 | 58.1 | 147 25.0 | 49.3 | | 58 53.1 | 27.1 | | 291 44.4 | 19.3 | | Rigil Kent. | 140 12.7 | S60 48.2 | | | |
| U 10 | 267 49.5 | 281 11.9 | 56.9 | 162 28.4 | 49.4 | | 73 55.4 | 27.1 | | 306 46.6 | 19.2 | | Sabik | 102 30.3 | S15 43.0 | | | |
| N 11 | 282 51.9 | 296 12.1 | 55.7 | 177 31.8 | 49.5 | | 88 57.8 | 27.1 | | 321 48.8 | 19.1 | | | | | | | |
| E 12 | 297 54.4 | 311 12.3 | S 5 54.5 | 192 35.2 | N26 49.6 | | 104 00.2 | S 4 27.2 | | 336 51.0 | S16 19.0 | | Schedar | 349 58.2 | N56 30.3 | | | |
| S 13 | 312 56.8 | 326 12.4 | 53.3 | 207 38.7 | 49.7 | | 119 02.6 | 27.2 | | 351 53.1 | 18.9 | | Shaula | 96 43.0 | S37 05.9 | | | |
| 14 | 327 59.3 | 341 12.6 | 52.0 | 222 42.1 | 49.8 | | 134 05.0 | 27.2 | | 6 55.3 | 18.9 | | Sirius | 258 46.8 | S16 42.5 | | | |
| 15 | 343 01.8 | 356 12.8 | 50.8 | 237 45.5 | 49.9 | | 149 07.4 | 27.2 | | 21 57.5 | 18.8 | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|----------------|----------|----------|----------|-----|----------|-----|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 16 | 17 | 18 | 19 |
| | | | | | | | | | | | | | | | |
| 16 00 | 177 35.0 | S20 58.4 | 262 36.1 | 9.3 | S17 07.0 | 9.2 | 58.0 | N 72 | 07 56 | 09 43 | 11 41 | 04 52 | 06 25 | 07 13 | 08 23 |
| 01 | 192 34.8 | 57.9 | 277 04.4 | 9.3 | 17 16.2 | 9.1 | 58.0 | N 70 | 07 42 | 09 12 | 10 23 | 04 10 | 06 25 | 07 13 | 08 23 |
| 02 | 207 34.6 | 57.4 | 291 32.7 | 9.2 | 17 25.3 | 9.0 | 58.0 | 68 | 07 30 | 08 48 | 10 23 | 04 10 | 06 25 | 07 13 | 08 23 |
| 03 | 222 34.4 | 56.9 | 306 00.9 | 9.2 | 17 34.3 | 9.0 | 58.0 | 66 | 07 21 | 08 30 | 09 47 | 03 42 | 05 31 | 07 13 | 08 23 |
| 04 | 237 34.2 | 56.5 | 320 29.1 | 9.2 | 17 43.3 | 8.8 | 57.9 | 64 | 07 12 | 08 16 | 09 21 | 03 21 | 04 58 | 06 25 | 07 29 |
| 05 | 252 34.0 | 56.0 | 334 57.3 | 9.2 | 17 52.1 | 8.6 | 57.9 | 62 | 07 05 | 08 03 | 09 01 | 03 04 | 04 34 | 05 54 | 06 56 |
| 06 | 267 33.7 | S20 55.5 | 349 25.5 | 9.1 | S18 00.7 | 8.6 | 57.9 | 60 | 06 59 | 07 52 | 08 44 | 02 50 | 04 15 | 05 31 | 06 32 |
| 07 | 282 33.5 | 55.0 | 3 53.6 | 9.2 | 18 09.3 | 8.5 | 57.9 | N 58 | 06 53 | 07 43 | 08 31 | 02 38 | 04 00 | 05 13 | 06 12 |
| 08 | 297 33.3 | 54.5 | 18 21.8 | 9.0 | 18 17.8 | 8.4 | 57.8 | 56 | 06 48 | 07 35 | 08 19 | 02 27 | 03 46 | 04 57 | 05 56 |
| 09 | 312 33.1 | 54.1 | 32 49.8 | 9.1 | 18 26.2 | 8.2 | 57.8 | 54 | 06 43 | 07 27 | 08 09 | 02 18 | 03 35 | 04 44 | 05 43 |
| 10 | 327 32.9 | 53.6 | 47 17.9 | 9.1 | 18 34.4 | 8.2 | 57.8 | 52 | 06 38 | 07 21 | 07 59 | 02 10 | 03 25 | 04 32 | 05 31 |
| 11 | 342 32.7 | 53.1 | 61 46.0 | 9.0 | 18 42.6 | 8.0 | 57.8 | 50 | 06 34 | 07 14 | 07 51 | 02 03 | 03 16 | 04 22 | 05 20 |
| 12 | 357 32.5 | S20 52.6 | 76 14.0 | 9.0 | S18 50.6 | 7.9 | 57.7 | 45 | 06 25 | 07 01 | 07 34 | 01 47 | 02 56 | 04 00 | 04 58 |
| 13 | 12 32.3 | 52.1 | 90 42.0 | 8.9 | 18 58.5 | 7.8 | 57.7 | N 40 | 06 16 | 06 50 | 07 19 | 01 35 | 02 41 | 03 43 | 04 40 |
| 14 | 27 32.0 | 51.7 | 105 09.9 | 9.0 | 19 06.3 | 7.7 | 57.7 | 35 | 06 09 | 06 40 | 07 07 | 01 24 | 02 28 | 03 29 | 04 25 |
| 15 | 42 31.8 | 51.2 | 119 37.9 | 8.9 | 19 14.0 | 7.6 | 57.7 | 30 | 06 01 | 06 31 | 06 56 | 01 14 | 02 16 | 03 16 | 04 12 |
| 16 | 57 31.6 | 50.7 | 134 05.8 | 8.9 | 19 21.6 | 7.5 | 57.6 | 20 | 05 47 | 06 14 | 06 38 | 00 58 | 01 57 | 02 54 | 03 49 |
| 17 | 72 31.4 | 50.2 | 148 33.7 | 8.8 | 19 29.1 | 7.3 | 57.6 | N 10 | 05 33 | 05 59 | 06 22 | 00 44 | 01 40 | 02 36 | 03 30 |
| 18 | 87 31.2 | S20 49.7 | 163 01.5 | 8.9 | S19 36.4 | 7.2 | 57.6 | 0 | 05 19 | 05 44 | 06 07 | 00 31 | 01 24 | 02 18 | 03 12 |
| 19 | 102 31.0 | 49.2 | 177 29.4 | 8.8 | 19 43.6 | 7.2 | 57.6 | S 10 | 05 02 | 05 29 | 05 51 | 00 18 | 01 09 | 02 01 | 02 54 |
| 20 | 117 30.8 | 48.8 | 191 57.2 | 8.8 | 19 50.8 | 7.0 | 57.5 | 20 | 04 42 | 05 11 | 05 35 | 00 05 | 00 52 | 01 42 | 02 35 |
| 21 | 132 30.6 | 48.3 | 206 25.0 | 8.8 | 19 57.8 | 6.8 | 57.5 | 30 | 04 17 | 04 49 | 05 15 | 24 33 | 00 33 | 01 21 | 02 13 |
| 22 | 147 30.4 | 47.8 | 220 52.8 | 8.7 | 20 04.6 | 6.8 | 57.5 | 35 | 04 00 | 04 35 | 05 04 | 24 22 | 00 22 | 01 09 | 02 00 |
| 23 | 162 30.2 | 47.3 | 235 20.5 | 8.7 | 20 11.4 | 6.7 | 57.4 | 40 | 03 40 | 04 20 | 04 51 | 24 09 | 00 09 | 00 55 | 01 45 |
| 17 00 | 177 29.9 | S20 46.8 | 249 48.2 | 8.7 | S20 18.1 | 6.5 | 57.4 | 45 | 03 14 | 04 00 | 04 36 | 23 55 | 24 38 | 00 38 | 01 27 |
| 01 | 192 29.7 | 46.3 | 264 15.9 | 8.7 | 20 24.6 | 6.4 | 57.4 | S 50 | 02 38 | 03 35 | 04 16 | 23 37 | 24 17 | 00 17 | 01 05 |
| 02 | 207 29.5 | 45.8 | 278 43.6 | 8.7 | 20 31.0 | 6.3 | 57.4 | 52 | 02 19 | 03 23 | 04 07 | 23 28 | 24 07 | 00 07 | 00 55 |
| 03 | 222 29.3 | 45.3 | 293 11.3 | 8.7 | 20 37.3 | 6.1 | 57.3 | 54 | 01 53 | 03 09 | 03 57 | 23 19 | 23 56 | 24 43 | 00 43 |
| 04 | 237 29.1 | 44.8 | 307 39.0 | 8.6 | 20 43.4 | 6.1 | 57.3 | 56 | 01 15 | 02 52 | 03 46 | 23 08 | 23 43 | 24 30 | 00 30 |
| 05 | 252 28.9 | 44.3 | 322 06.6 | 8.6 | 20 49.5 | 5.9 | 57.3 | 58 | /// | 02 31 | 03 32 | 22 56 | 23 29 | 24 14 | 00 14 |
| 06 | 267 28.7 | S20 43.8 | 336 34.2 | 8.6 | S20 55.4 | 5.8 | 57.3 | S 60 | /// | 02 03 | 03 16 | 22 42 | 23 12 | 23 55 | 24 53 |
| 07 | 282 28.5 | 43.4 | 351 01.8 | 8.6 | 21 01.2 | 5.7 | 57.2 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| 08 | 297 28.3 | 42.9 | 5 29.4 | 8.5 | 21 06.9 | 5.5 | 57.2 | 16 | 17 | 18 | 19 | | | | |
| 09 | 312 28.1 | 42.4 | 19 56.9 | 8.6 | 21 12.4 | 5.4 | 57.2 | N 72 | 12 40 | 15 10 | 16 40 | 08 21 | 09 35 | 09 46 | 10 28 |
| 10 | 327 27.9 | 41.9 | 34 24.5 | 8.5 | 21 17.8 | 5.3 | 57.2 | N 70 | 12 40 | 15 10 | 16 40 | 08 21 | 09 35 | 09 46 | 10 28 |
| 11 | 342 27.7 | 41.4 | 48 52.0 | 8.5 | 21 23.1 | 5.2 | 57.2 | 68 | 13 58 | 15 33 | 16 51 | 09 04 | 09 35 | 09 46 | 10 28 |
| 12 | 357 27.5 | S20 40.9 | 63 19.5 | 8.6 | S21 28.3 | 5.1 | 57.1 | 66 | 14 34 | 15 51 | 17 00 | 09 33 | 09 35 | 09 46 | 10 28 |
| 13 | 12 27.3 | 40.4 | 77 47.1 | 8.4 | 21 33.4 | 4.9 | 57.1 | 64 | 15 00 | 16 05 | 17 09 | 09 55 | 10 08 | 10 34 | 11 23 |
| 14 | 27 27.1 | 39.9 | 92 14.5 | 8.5 | 21 38.3 | 4.8 | 57.1 | 62 | 15 20 | 16 18 | 17 16 | 10 13 | 10 33 | 11 05 | 11 55 |
| 15 | 42 26.9 | 39.4 | 106 42.0 | 8.5 | 21 43.1 | 4.7 | 57.1 | 60 | 15 36 | 16 29 | 17 22 | 10 27 | 10 52 | 11 28 | 12 19 |
| 16 | 57 26.7 | 38.9 | 121 09.5 | 8.5 | 21 47.8 | 4.5 | 57.0 | N 58 | 15 50 | 16 38 | 17 28 | 10 40 | 11 08 | 11 47 | 12 39 |
| 17 | 72 26.5 | 38.4 | 135 37.0 | 8.4 | 21 52.3 | 4.4 | 57.0 | 56 | 16 02 | 16 46 | 17 33 | 10 51 | 11 22 | 12 03 | 12 55 |
| 18 | 87 26.2 | S20 37.9 | 150 04.4 | 8.4 | S21 56.7 | 4.3 | 57.0 | 54 | 16 12 | 16 54 | 17 38 | 11 01 | 11 34 | 12 16 | 13 08 |
| 19 | 102 26.0 | 37.4 | 164 31.8 | 8.5 | 22 01.0 | 4.2 | 57.0 | 52 | 16 21 | 17 00 | 17 42 | 11 09 | 11 44 | 12 28 | 13 20 |
| 20 | 117 25.8 | 36.9 | 178 59.3 | 8.4 | 22 05.2 | 4.1 | 56.9 | 50 | 16 30 | 17 06 | 17 47 | 11 17 | 11 54 | 12 38 | 13 31 |
| 21 | 132 25.6 | 36.4 | 193 26.7 | 8.4 | 22 09.3 | 3.9 | 56.9 | 45 | 16 47 | 17 20 | 17 56 | 11 34 | 12 14 | 13 00 | 13 53 |
| 22 | 147 25.4 | 35.9 | 207 54.1 | 8.4 | 22 13.2 | 3.8 | 56.9 | N 40 | 17 01 | 17 31 | 18 04 | 11 47 | 12 30 | 13 18 | 14 11 |
| 23 | 162 25.2 | 35.3 | 222 21.5 | 8.4 | 22 17.0 | 3.6 | 56.9 | 35 | 17 14 | 17 41 | 18 12 | 11 59 | 12 43 | 13 32 | 14 26 |
| 18 00 | 177 25.0 | S20 34.8 | 236 48.9 | 8.4 | S22 20.6 | 3.5 | 56.8 | 30 | 17 24 | 17 50 | 18 19 | 12 09 | 12 55 | 13 45 | 14 39 |
| 01 | 192 24.8 | 34.3 | 251 16.3 | 8.4 | 22 24.1 | 3.4 | 56.8 | 20 | 17 43 | 18 06 | 18 33 | 12 27 | 13 16 | 14 07 | 15 01 |
| 02 | 207 24.6 | 33.8 | 265 43.7 | 8.4 | 22 27.5 | 3.3 | 56.8 | N 10 | 17 59 | 18 21 | 18 47 | 12 42 | 13 34 | 14 26 | 15 20 |
| 03 | 222 24.4 | 33.3 | 280 11.1 | 8.4 | 22 30.8 | 3.2 | 56.8 | 0 | 18 14 | 18 36 | 19 02 | 12 57 | 13 50 | 14 44 | 15 38 |
| 04 | 237 24.2 | 32.8 | 294 38.5 | 8.4 | 22 34.0 | 3.0 | 56.7 | S 10 | 18 29 | 18 52 | 19 18 | 13 11 | 14 07 | 15 02 | 15 56 |
| 05 | 252 24.0 | 32.3 | 309 05.9 | 8.4 | 22 37.0 | 2.9 | 56.7 | 20 | 18 46 | 19 10 | 19 38 | 13 26 | 14 25 | 15 21 | 16 15 |
| 06 | 267 23.8 | S20 31.8 | 323 33.3 | 8.4 | S22 39.9 | 2.7 | 56.7 | 30 | 19 05 | 19 31 | 20 03 | 13 44 | 14 45 | 15 43 | 16 37 |
| 07 | 282 23.6 | 31.3 | 338 00.7 | 8.4 | 22 42.6 | 2.7 | 56.7 | 35 | 19 16 | 19 45 | 20 20 | 13 55 | 14 57 | 15 56 | 16 50 |
| 08 | 297 23.4 | 30.8 | 352 28.1 | 8.4 | 22 45.3 | 2.5 | 56.7 | 40 | 19 29 | 20 00 | 20 39 | 14 06 | 15 11 | 16 11 | 17 04 |
| 09 | 312 23.2 | 30.3 | 6 55.5 | 8.4 | 22 47.8 | 2.3 | 56.6 | 45 | 19 44 | 20 19 | 21 05 | 14 20 | 15 27 | 16 28 | 17 22 |
| 10 | 327 23.0 | 29.7 | 21 22.9 | 8.5 | 22 50.1 | 2.3 | 56.6 | S 50 | 20 03 | 20 44 | 21 40 | 14 38 | 15 48 | 16 50 | 17 43 |
| 11 | 342 22.8 | 29.2 | 35 50.4 | 8.4 | 22 52.4 | 2.1 | 56.6 | 52 | 20 12 | 20 56 | 22 00 | 14 46 | 15 57 | 17 01 | 17 54 |
| 12 | 357 22.7 | S20 28.7 | 50 17.8 | 8.4 | S22 54.5 | 2.0 | 56.6 | 54 | 20 22 | 21 10 | 22 24 | 14 55 | 16 08 | 17 12 | 18 05 |
| 13 | 12 22.5 | 28.2 | 64 45.2 | 8.4 | 22 56.5 | 1.8 | 56.5 | 56 | 20 34 | 21 27 | 23 01 | 15 05 | 16 21 | 17 26 | 18 19 |
| 14 | 27 22.3 | 27.7 | 79 12.6 | 8.5 | 22 58.3 | 1.7 | 56.5 | 58 | 20 47 | 21 48 | /// | 15 17 | 16 35 | 17 42 | 18 34 |
| 15 | 42 22.1 | 27.2 | 93 40.1 | 8.4 | 23 00.0 | 1.6 | 56.5 | S 60 | 21 02 | 22 14 | /// | 15 31 | 16 52 | 18 01 | 18 53 |
| 16 | 57 21.9 | 26.7 | 108 07.5 | 8.5 | 23 01.6 | 1.5 | 56.5 | Día | SOL | | LUNA | | | | |
| 17 | 72 21.7 | 26.1 | 122 35.0 | 8.5 | 23 03.1 | 1.3 | 56.5 | 16 | E.T. (—) | Pas. Mer. | Pas. Mer. | | Edad. | Fase | |
| 18 | 87 21.5 | S20 25.6 | 137 02.5 | 8.5 | S23 04.4 | 1.2 | 56.4 | 17 | 09 39 | 09 50 | 12 10 | 06 44 | 19 10 | 23 | |
| 19 | 102 21.3 | 25.1 | 151 30.0 | 8.5 | 23 05.6 | 1.1 | 56.4 | 18 | 10 00 | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE -1.2 | | | JUPITER -2.1 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|------|------------|----------|------|--------------|----------|------|--------------|----------|----------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| 19 00 | 118 24.0 | 131 14.5 | S 5 39.9 | 13 16.2 | N26 50.6 | | 284 28.8 | S 4 27.4 | | 157 17.1 | S16 18.0 | | Acamar | 315 29.7 | S40 20.1 | | | |
| 01 | 133 26.4 | 146 14.7 | 38.7 | 28 19.7 | 50.7 | | 299 31.2 | 27.4 | | 172 19.3 | 17.9 | | Achernar | 335 38.0 | S57 16.5 | | | |
| 02 | 148 28.9 | 161 14.9 | 37.4 | 43 23.1 | 50.8 | | 314 33.6 | 27.5 | | 187 21.4 | 17.8 | | Acrux | 173 26.2 | S63 03.5 | | | |
| 03 | 163 31.3 | 176 15.1 | 36.2 | 58 26.5 | 50.9 | | 329 36.0 | 27.5 | | 202 23.6 | 17.7 | | Adhara | 255 24.1 | S28 57.9 | | | |
| 04 | 178 33.8 | 191 15.3 | 35.0 | 73 29.9 | 50.9 | | 344 38.4 | 27.5 | | 217 25.8 | 17.6 | | Aldebaran | 291 06.6 | N16 29.8 | | | |
| 05 | 193 36.3 | 206 15.5 | 33.8 | 88 33.3 | 51.0 | | 359 40.8 | 27.5 | | 232 28.0 | 17.5 | | | | | | | |
| 06 | 208 38.7 | 221 15.7 | S 5 32.6 | 103 36.7 | N26 51.1 | | 14 43.1 | S 4 27.5 | | 247 30.1 | S16 17.4 | | Alioth | 166 33.8 | N55 59.4 | | | |
| 07 | 223 41.2 | 236 15.9 | 31.4 | 118 40.1 | 51.2 | | 29 45.5 | 27.6 | | 262 32.3 | 17.4 | | Alkaid | 153 10.8 | N49 20.5 | | | |
| 08 | 238 43.7 | 251 16.0 | 30.1 | 133 43.5 | 51.3 | | 44 47.9 | 27.6 | | 277 34.5 | 17.3 | | Al Na'ir | 28 03.1 | S46 59.8 | | | |
| M 09 | 253 46.1 | 266 16.2 | 28.9 | 148 46.9 | 51.3 | | 59 50.3 | 27.6 | | 292 36.7 | 17.2 | | Alnilam | 276 01.5 | S 1 12.5 | | | |
| A 10 | 268 48.6 | 281 16.4 | 27.7 | 163 50.3 | 51.4 | | 74 52.7 | 27.6 | | 307 38.9 | 17.1 | | Alphard | 218 10.7 | S 8 37.9 | | | |
| R 11 | 283 51.1 | 296 16.6 | 26.5 | 178 53.7 | 51.5 | | 89 55.1 | 27.6 | | 322 41.0 | 17.0 | | | | | | | |
| T 12 | 298 53.5 | 311 16.8 | S 5 25.3 | 193 57.1 | N26 51.6 | | 104 57.5 | S 4 27.7 | | 337 43.2 | S16 16.9 | | Alphecca | 126 24.0 | N26 44.0 | | | |
| E 13 | 313 56.0 | 326 17.1 | 24.0 | 209 00.5 | 51.7 | | 119 59.9 | 27.7 | | 352 45.4 | 16.8 | | Alpheratz | 357 59.5 | N29 03.3 | | | |
| S 14 | 328 58.5 | 341 17.3 | 22.8 | 224 03.9 | 51.7 | | 135 02.3 | 27.7 | | 7 47.6 | 16.7 | | Altair | 62 23.4 | N 8 51.0 | | | |
| 15 | 344 00.9 | 356 17.5 | 21.6 | 239 07.3 | 51.8 | | 150 04.7 | 27.7 | | 22 49.7 | 16.6 | | Ankaa | 353 30.8 | S42 20.8 | | | |
| 16 | 359 03.4 | 11 17.7 | 20.4 | 254 10.7 | 51.9 | | 165 07.0 | 27.7 | | 37 51.9 | 16.6 | | Antares | 112 45.2 | S26 25.0 | | | |
| 17 | 14 05.8 | 26 17.9 | 19.2 | 269 14.1 | 52.0 | | 180 09.4 | 27.7 | | 52 54.1 | 16.5 | | | | | | | |
| 18 | 29 08.3 | 41 18.1 | S 5 18.0 | 284 17.5 | N26 52.1 | | 195 11.8 | S 4 27.8 | | 67 56.3 | S16 16.4 | | Arcturus | 146 09.6 | N19 12.8 | | | |
| 19 | 44 10.8 | 56 18.3 | 16.7 | 299 20.9 | 52.1 | | 210 14.2 | 27.8 | | 82 58.4 | 16.3 | | Atria | 108 01.1 | S69 00.7 | | | |
| 20 | 59 13.2 | 71 18.5 | 15.5 | 314 24.3 | 52.2 | | 225 16.6 | 27.8 | | 98 00.6 | 16.2 | | Avior | 234 23.6 | S59 29.3 | | | |
| 21 | 74 15.7 | 86 18.7 | 14.3 | 329 27.7 | 52.3 | | 240 19.0 | 27.8 | | 113 02.8 | 16.1 | | Bellatrix | 278 48.1 | N 6 20.6 | | | |
| 22 | 89 18.2 | 101 18.9 | 13.1 | 344 31.0 | 52.4 | | 255 21.4 | 27.8 | | 128 05.0 | 16.0 | | Betelgeuse | 271 17.5 | N 7 24.3 | | | |
| 23 | 104 20.6 | 116 19.1 | 11.9 | 359 34.4 | 52.4 | | 270 23.8 | 27.9 | | 143 07.1 | 15.9 | | | | | | | |
| 20 00 | 119 23.1 | 131 19.3 | S 5 10.6 | 14 37.8 | N26 52.5 | | 285 26.2 | S 4 27.9 | | 158 09.3 | S16 15.8 | | Canopus | 264 02.4 | S52 41.7 | | | |
| 01 | 134 25.6 | 146 19.5 | 09.4 | 29 41.2 | 52.6 | | 300 28.6 | 27.9 | | 173 11.5 | 15.8 | | Capella | 280 56.6 | N45 59.6 | | | |
| 02 | 149 28.0 | 161 19.8 | 08.2 | 44 44.6 | 52.7 | | 315 31.0 | 27.9 | | 188 13.7 | 15.7 | | Deneb | 49 42.3 | N45 15.4 | | | |
| 03 | 164 30.5 | 176 20.0 | 07.0 | 59 48.0 | 52.7 | | 330 33.4 | 27.9 | | 203 15.8 | 15.6 | | Denebola | 182 49.0 | N14 36.4 | | | |
| 04 | 179 32.9 | 191 20.2 | 05.8 | 74 51.3 | 52.8 | | 345 35.8 | 27.9 | | 218 18.0 | 15.5 | | Diphda | 349 11.2 | S18 01.5 | | | |
| 05 | 194 35.4 | 206 20.4 | 04.5 | 89 54.7 | 52.9 | | 0 38.2 | 28.0 | | 233 20.2 | 15.4 | | | | | | | |
| 06 | 209 37.9 | 221 20.6 | S 5 03.3 | 104 58.1 | N26 52.9 | | 15 40.6 | S 4 28.0 | | 248 22.4 | S16 15.3 | | Dubhe | 194 09.7 | N61 46.9 | | | |
| 07 | 224 40.3 | 236 20.8 | 02.1 | 120 01.5 | 53.0 | | 30 43.0 | 28.0 | | 263 24.5 | 15.2 | | Elnath | 278 31.6 | N28 36.1 | | | |
| M 08 | 239 42.8 | 251 21.1 | 5 00.9 | 135 04.9 | 53.1 | | 45 45.4 | 28.0 | | 278 26.7 | 15.1 | | Eltanin | 90 53.7 | N51 29.2 | | | |
| 09 | 254 45.3 | 266 21.3 | 4 59.7 | 150 08.2 | 53.2 | | 60 47.8 | 28.0 | | 293 28.9 | 15.0 | | Enif | 34 02.4 | N 9 50.7 | | | |
| 10 | 269 47.7 | 281 21.5 | 58.4 | 165 11.6 | 53.2 | | 75 50.1 | 28.0 | | 308 31.1 | 15.0 | | Fomalhaut | 15 41.0 | S29 39.6 | | | |
| 11 | 284 50.2 | 296 21.7 | 57.2 | 180 15.0 | 53.3 | | 90 52.5 | 28.1 | | 323 33.2 | 14.9 | | | | | | | |
| 12 | 299 52.7 | 311 21.9 | S 4 56.0 | 195 18.4 | N26 53.4 | | 105 54.9 | S 4 28.1 | | 338 35.4 | S16 14.8 | | Gacrux | 172 17.8 | S57 04.3 | | | |
| 13 | 314 55.1 | 326 22.2 | 54.8 | 210 21.7 | 53.4 | | 120 57.3 | 28.1 | | 353 37.6 | 14.7 | | Gienah | 176 07.8 | S17 30.3 | | | |
| 14 | 329 57.6 | 341 22.4 | 53.6 | 225 25.1 | 53.5 | | 135 59.7 | 28.1 | | 8 39.8 | 14.6 | | Hadar | 149 09.6 | S60 20.2 | | | |
| 15 | 345 00.1 | 356 22.6 | 52.3 | 240 28.5 | 53.6 | | 151 02.1 | 28.1 | | 23 41.9 | 14.5 | | Hamal | 328 17.9 | N23 25.9 | | | |
| S 16 | 0 02.5 | 11 22.8 | 51.1 | 255 31.9 | 53.7 | | 166 04.5 | 28.1 | | 38 44.1 | 14.4 | | Kaus Aust. | 84 04.3 | S34 23.2 | | | |
| 17 | 15 05.0 | 26 23.1 | 49.9 | 270 35.2 | 53.7 | | 181 06.9 | 28.1 | | 53 46.3 | 14.3 | | | | | | | |
| 18 | 30 07.4 | 41 23.3 | S 4 48.7 | 285 38.6 | N26 53.8 | | 196 09.3 | S 4 28.2 | | 68 48.5 | S16 14.2 | | Kochab | 137 19.6 | N74 10.6 | | | |
| 19 | 45 09.9 | 56 23.5 | 47.5 | 300 42.0 | 53.9 | | 211 11.7 | 28.2 | | 83 50.6 | 14.2 | | Markab | 13 53.7 | N15 10.2 | | | |
| 20 | 60 12.4 | 71 23.8 | 46.2 | 315 45.3 | 53.9 | | 226 14.1 | 28.2 | | 98 52.8 | 14.1 | | Menkar | 314 30.9 | N 4 03.8 | | | |
| 21 | 75 14.8 | 86 24.0 | 45.0 | 330 48.7 | 54.0 | | 241 16.5 | 28.2 | | 113 55.0 | 14.0 | | Menkent | 148 25.6 | S36 20.1 | | | |
| 22 | 90 17.3 | 101 24.2 | 43.8 | 345 52.0 | 54.1 | | 256 18.9 | 28.2 | | 128 57.2 | 13.9 | | Miaplacidus | 221 42.0 | S69 41.3 | | | |
| 23 | 105 19.8 | 116 24.5 | 42.6 | 0 55.4 | 54.1 | | 271 21.3 | 28.2 | | 143 59.3 | 13.8 | | | | | | | |
| 21 00 | 120 22.2 | 131 24.7 | S 4 41.4 | 15 58.8 | N26 54.2 | | 286 23.7 | S 4 28.2 | | 159 01.5 | S16 13.7 | | Mirfak | 309 02.0 | N49 50.5 | | | |
| 01 | 135 24.7 | 146 24.9 | 40.1 | 31 02.1 | 54.3 | | 301 26.1 | 28.3 | | 174 03.7 | 13.6 | | Nunki | 76 17.5 | S26 18.3 | | | |
| 02 | 150 27.2 | 161 25.2 | 38.9 | 46 05.5 | 54.3 | | 316 28.5 | 28.3 | | 189 05.9 | 13.5 | | Peacock | 53 43.7 | S56 45.5 | | | |
| 03 | 165 29.6 | 176 25.4 | 37.7 | 61 08.8 | 54.4 | | 331 30.9 | 28.3 | | 204 08.0 | 13.4 | | Pollux | 243 45.9 | N28 02.5 | | | |
| 04 | 180 32.1 | 191 25.6 | 36.5 | 76 12.2 | 54.5 | | 346 33.3 | 28.3 | | 219 10.2 | 13.3 | | Procyon | 245 15.3 | N 5 14.4 | | | |
| 05 | 195 34.6 | 206 25.9 | 35.3 | 91 15.5 | 54.5 | | 1 35.7 | 28.3 | | 234 12.4 | 13.3 | | | | | | | |
| 06 | 210 37.0 | 221 26.1 | S 4 34.0 | 106 18.9 | N26 54.6 | | 16 38.2 | S 4 28.3 | | 249 14.6 | S16 13.2 | | Rasalhague | 96 20.9 | N12 33.8 | | | |
| 07 | 225 39.5 | 236 26.4 | 32.8 | 121 22.3 | 54.7 | | 31 40.6 | 28.3 | | 264 16.7 | 13.1 | | Regulus | 207 59.4 | N11 59.9 | | | |
| 08 | 240 41.9 | 251 26.6 | 31.6 | 136 25.6 | 54.7 | | 46 43.0 | 28.4 | | 279 18.9 | 13.0 | | Rigel | 281 26.4 | S 8 12.7 | | | |
| J 09 | 255 44.4 | 266 26.8 | 30.4 | 151 29.0 | 54.8 | | 61 45.4 | 28.4 | | 294 21.1 | 12.9 | | Rigil Kent. | 140 12.7 | S60 48.2 | | | |
| 10 | 270 46.9 | 281 27.1 | 29.2 | 166 32.3 | 54.8 | | 76 47.8 | 28.4 | | 309 23.3 | 12.8 | | Sabik | 102 30.3 | S15 43.0 | | | |
| 11 | 285 49.3 | 296 27.3 | 27.9 | 181 35.6 | 54.9 | | 91 50.2 | 28.4 | | 324 25.4 | 12.7 | | | | | | | |
| 12 | 300 51.8 | 311 27.6 | S 4 26.7 | 196 39.0 | N26 55.0 | | 106 52.6 | S 4 28.4 | | 339 27.6 | S16 12.6 | | Schedar | 349 58.2 | N56 30.3 | | | |
| 13 | 315 54.3 | 326 27.8 | 25.5 | 211 42.3 | 55.0 | | 121 55.0 | 28.4 | | 354 29.8 | 12.5 | | Shaula | 96 42.9 | S37 05.9 | | | |
| S 14 | 330 56.7 | 341 28.1 | 24.3 | 226 45.7 | 55.1 | | 136 57.4 | 28.4 | | 9 32.0 | 12.5 | | Sirius | 258 46.8 | S16 42.5 | | | |
| 15 | 345 59.2 | 356 28.3 | 23.1 | 241 49.0 | 55.2 | | 151 59.8 | 28.4 | | 24 34.1 | 12.4 | | Spica | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|-----|------|------------|-------|----------|-----------|------------------|-------|------------|-------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Náut. | Civil | | 19 | 20 | 21 | 22 | | | | | |
| | o | ' | o | ' | o | ' | o | ' | | o | m | | h | m | h | m | h | m | | | |
| M A R T E S | 19 00 | 177 | 20.3 | S20 | 22.5 | 223 | 47.7 | 8.6 | S23 | 09.7 | 0.5 | 56.3 | N 72 | 07 48 | 09 31 | ■ | ■ | ■ | ■ | 10 52 | |
| | 01 | 192 | 20.1 | | 22.0 | 238 | 15.3 | 8.6 | 23 | 10.2 | 0.3 | 56.3 | N 70 | 07 35 | 09 02 | 11 05 | ■ | ■ | ■ | ■ | 09 53 |
| | 02 | 207 | 19.9 | | 21.5 | 252 | 42.9 | 8.6 | 23 | 10.5 | 0.2 | 56.3 | 68 | 07 24 | 08 41 | 10 10 | ■ | ■ | ■ | ■ | 09 18 |
| | 03 | 222 | 19.7 | .. | 20.9 | 267 | 10.5 | 8.7 | 23 | 10.7 | 0.0 | 56.2 | 66 | 07 15 | 08 24 | 09 37 | 08 23 | 08 47 | 08 52 | 08 53 | 08 53 |
| | 04 | 237 | 19.5 | | 20.4 | 281 | 38.2 | 8.7 | 23 | 10.7 | 0.1 | 56.2 | 64 | 07 08 | 08 10 | 09 13 | 07 29 | 08 05 | 08 24 | 08 33 | 08 33 |
| | 05 | 252 | 19.3 | | 19.9 | 296 | 05.9 | 8.7 | 23 | 10.6 | 0.2 | 56.2 | 62 | 07 01 | 07 58 | 08 55 | 06 56 | 07 37 | 08 02 | 08 17 | 08 17 |
| | 06 | 267 | 19.2 | S20 | 19.4 | 310 | 33.6 | 8.7 | S23 | 10.4 | 0.3 | 56.2 | 60 | 06 55 | 07 48 | 08 39 | 06 32 | 07 15 | 07 44 | 08 04 | 08 04 |
| | 07 | 282 | 19.0 | | 18.8 | 325 | 01.3 | 8.8 | 23 | 10.1 | 0.4 | 56.1 | N 58 | 06 50 | 07 39 | 08 26 | 06 12 | 06 57 | 07 29 | 07 52 | 07 52 |
| | 08 | 297 | 18.8 | | 18.3 | 339 | 29.1 | 8.7 | 23 | 09.7 | 0.6 | 56.1 | 56 | 06 45 | 07 31 | 08 15 | 05 56 | 06 42 | 07 17 | 07 42 | 07 42 |
| | 09 | 312 | 18.6 | .. | 17.8 | 353 | 56.8 | 8.8 | 23 | 09.1 | 0.7 | 56.1 | 54 | 06 40 | 07 24 | 08 05 | 05 43 | 06 29 | 07 05 | 07 33 | 07 33 |
| | 10 | 327 | 18.4 | | 17.2 | 8 | 24.6 | 8.9 | 23 | 08.4 | 0.9 | 56.1 | 52 | 06 36 | 07 18 | 07 56 | 05 31 | 06 18 | 06 56 | 07 25 | 07 25 |
| | 11 | 342 | 18.2 | | 16.7 | 22 | 52.5 | 8.9 | 23 | 07.5 | 0.9 | 56.1 | 50 | 06 32 | 07 12 | 07 48 | 05 20 | 06 08 | 06 47 | 07 18 | 07 18 |
| | 12 | 357 | 18.0 | S20 | 16.2 | 37 | 20.4 | 8.9 | S23 | 06.6 | 1.1 | 56.0 | 45 | 06 23 | 06 59 | 07 32 | 04 58 | 05 47 | 06 28 | 07 02 | 07 02 |
| | 13 | 12 | 17.8 | | 15.6 | 51 | 48.3 | 8.9 | 23 | 05.5 | 1.2 | 56.0 | N 40 | 06 15 | 06 48 | 07 18 | 04 40 | 05 30 | 06 13 | 06 50 | 06 50 |
| | 14 | 27 | 17.6 | | 15.1 | 66 | 16.2 | 9.0 | 23 | 04.3 | 1.3 | 56.0 | 35 | 06 08 | 06 39 | 07 06 | 04 25 | 05 15 | 06 00 | 06 39 | 06 39 |
| | 15 | 42 | 17.4 | .. | 14.6 | 80 | 44.2 | 9.0 | 23 | 03.0 | 1.5 | 56.0 | 30 | 06 01 | 06 30 | 06 56 | 04 12 | 05 03 | 05 49 | 06 29 | 06 29 |
| | 16 | 57 | 17.3 | | 14.1 | 95 | 12.2 | 9.0 | 23 | 01.5 | 1.6 | 56.0 | 20 | 05 48 | 06 14 | 06 38 | 03 49 | 04 41 | 05 29 | 06 13 | 06 13 |
| | 17 | 72 | 17.1 | | 13.5 | 109 | 40.2 | 9.1 | 22 | 59.9 | 1.6 | 55.9 | N 10 | 05 34 | 06 00 | 06 22 | 03 30 | 04 23 | 05 12 | 05 58 | 05 58 |
| | 18 | 87 | 16.9 | S20 | 13.0 | 124 | 08.3 | 9.1 | S22 | 58.3 | 1.9 | 55.9 | 0 | 05 20 | 05 45 | 06 07 | 03 12 | 04 05 | 04 56 | 05 45 | 05 45 |
| | 19 | 102 | 16.7 | | 12.5 | 138 | 36.4 | 9.1 | 22 | 56.4 | 1.9 | 55.9 | S 10 | 05 04 | 05 30 | 05 53 | 02 54 | 03 48 | 04 40 | 05 31 | 05 31 |
| | 20 | 117 | 16.5 | | 11.9 | 153 | 04.5 | 9.2 | 22 | 54.5 | 2.1 | 55.9 | 20 | 04 44 | 05 13 | 05 37 | 02 35 | 03 29 | 04 23 | 05 17 | 05 17 |
| | 21 | 132 | 16.3 | .. | 11.4 | 167 | 32.7 | 9.3 | 22 | 52.4 | 2.2 | 55.9 | 30 | 04 20 | 04 51 | 05 18 | 02 13 | 03 08 | 04 04 | 05 00 | 05 00 |
| | 22 | 147 | 16.1 | | 10.8 | 182 | 01.0 | 9.2 | 22 | 50.2 | 2.3 | 55.8 | 35 | 04 04 | 04 39 | 05 07 | 02 00 | 02 55 | 03 52 | 04 50 | 04 50 |
| 23 | 162 | 15.9 | | 10.3 | 196 | 29.2 | 9.3 | 22 | 47.9 | 2.4 | 55.8 | 40 | 03 44 | 04 23 | 04 55 | 01 45 | 02 41 | 03 39 | 04 39 | 04 39 | |
| 20 00 | 177 | 15.8 | S20 | 09.8 | 210 | 57.5 | 9.4 | S22 | 45.5 | 2.5 | 55.8 | 45 | 03 20 | 04 05 | 04 40 | 01 27 | 02 23 | 03 24 | 04 26 | 04 26 | |
| 01 | 192 | 15.6 | | 09.2 | 225 | 25.9 | 9.4 | 22 | 43.0 | 2.7 | 55.8 | S 50 | 02 45 | 03 41 | 04 21 | 01 05 | 02 02 | 03 04 | 04 10 | 04 10 | |
| 02 | 207 | 15.4 | | 08.7 | 239 | 54.3 | 9.4 | 22 | 40.3 | 2.8 | 55.8 | 52 | 02 27 | 03 29 | 04 13 | 00 55 | 01 52 | 02 55 | 04 03 | 04 03 | |
| 03 | 222 | 15.2 | .. | 08.2 | 254 | 22.7 | 9.5 | 22 | 37.5 | 2.9 | 55.7 | 54 | 02 04 | 03 15 | 04 03 | 00 43 | 01 40 | 02 45 | 03 54 | 03 54 | |
| 04 | 237 | 15.0 | | 07.6 | 268 | 51.2 | 9.5 | 22 | 34.6 | 3.0 | 55.7 | 56 | 01 31 | 02 59 | 03 52 | 00 30 | 01 27 | 02 33 | 03 45 | 03 45 | |
| 05 | 252 | 14.8 | | 07.1 | 283 | 19.7 | 9.6 | 22 | 31.6 | 3.1 | 55.7 | 58 | /// | 02 40 | 03 39 | 00 14 | 01 12 | 02 20 | 03 34 | 03 34 | |
| 06 | 267 | 14.7 | S20 | 06.5 | 297 | 48.3 | 9.6 | S22 | 28.5 | 3.2 | 55.7 | S 60 | /// | 02 15 | 03 24 | 24 53 | 00 53 | 02 04 | 03 21 | 03 21 | |
| 07 | 282 | 14.5 | | 06.0 | 312 | 16.9 | 9.7 | 22 | 25.3 | 3.4 | 55.7 | | | | | | | | | | |
| 08 | 297 | 14.3 | | 05.4 | 326 | 45.6 | 9.7 | 22 | 21.9 | 3.5 | 55.6 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | | |
| 09 | 312 | 14.1 | .. | 04.9 | 341 | 14.3 | 9.8 | 22 | 18.4 | 3.6 | 55.6 | | | | | 19 | 20 | 21 | 22 | | |
| 10 | 327 | 13.9 | | 04.4 | 355 | 43.1 | 9.8 | 22 | 14.8 | 3.7 | 55.6 | | | | | | | | | | |
| 11 | 342 | 13.7 | | 03.8 | 10 | 11.9 | 9.8 | 22 | 11.1 | 3.8 | 55.6 | N 72 | h m | 14 53 | 16 36 | h m | h m | h m | h m | 13 17 | |
| 12 | 357 | 13.6 | S20 | 03.3 | 24 | 40.7 | 10.0 | S22 | 07.3 | 3.9 | 55.6 | N 70 | 13 19 | 15 21 | 16 48 | ■ | ■ | ■ | ■ | 14 14 | |
| 13 | 12 | 13.4 | | 02.7 | 39 | 09.7 | 9.9 | 22 | 03.4 | 4.0 | 55.6 | 68 | 14 13 | 15 42 | 16 59 | ■ | ■ | 12 53 | 14 48 | 14 48 | |
| 14 | 27 | 13.2 | | 02.2 | 53 | 38.6 | 10.0 | 21 | 59.4 | 4.2 | 55.5 | 66 | 14 46 | 15 59 | 17 08 | 10 28 | 11 54 | 13 34 | 15 12 | 15 12 | |
| 15 | 42 | 13.0 | .. | 01.6 | 68 | 07.6 | 10.1 | 21 | 55.2 | 4.2 | 55.5 | 64 | 15 10 | 16 13 | 17 15 | 11 23 | 12 35 | 14 02 | 15 31 | 15 31 | |
| 16 | 57 | 12.8 | | 01.1 | 82 | 36.7 | 10.1 | 21 | 51.0 | 4.4 | 55.5 | 62 | 15 28 | 16 25 | 17 22 | 11 55 | 13 03 | 14 23 | 15 46 | 15 46 | |
| 17 | 72 | 12.6 | | 00.5 | 97 | 05.8 | 10.2 | 21 | 46.6 | 4.5 | 55.5 | 60 | 15 44 | 16 35 | 17 28 | 12 19 | 13 25 | 14 40 | 15 59 | 15 59 | |
| 18 | 87 | 12.5 | S20 | 00.0 | 111 | 35.0 | 10.2 | S21 | 42.1 | 4.6 | 55.5 | N 58 | 15 57 | 16 44 | 17 33 | 12 39 | 13 42 | 14 54 | 16 10 | 16 10 | |
| 19 | 102 | 12.3 | 19 | 59.4 | 126 | 04.2 | 10.3 | 21 | 37.5 | 4.7 | 55.4 | 56 | 16 08 | 16 51 | 17 38 | 12 55 | 13 57 | 15 07 | 16 19 | 16 19 | |
| 20 | 117 | 12.1 | | 58.9 | 140 | 33.5 | 10.4 | 21 | 32.8 | 4.7 | 55.4 | 54 | 16 18 | 16 58 | 17 43 | 13 08 | 14 10 | 15 17 | 16 28 | 16 28 | |
| 21 | 132 | 11.9 | .. | 58.3 | 155 | 02.9 | 10.4 | 21 | 28.1 | 4.9 | 55.4 | 52 | 16 26 | 17 05 | 17 47 | 13 20 | 14 21 | 15 27 | 16 35 | 16 35 | |
| 22 | 147 | 11.8 | | 57.8 | 169 | 32.3 | 10.4 | 21 | 23.2 | 5.1 | 55.4 | 50 | 16 34 | 17 11 | 17 51 | 13 31 | 14 31 | 15 35 | 16 42 | 16 42 | |
| 23 | 162 | 11.6 | | 57.2 | 184 | 01.7 | 10.5 | 21 | 18.1 | 5.1 | 55.4 | 45 | 16 51 | 17 23 | 17 59 | 13 53 | 14 52 | 15 53 | 16 57 | 16 57 | |
| 21 00 | 177 | 11.4 | S19 | 56.7 | 198 | 31.2 | 10.6 | S21 | 13.0 | 5.2 | 55.4 | N 40 | 17 05 | 17 34 | 18 07 | 14 11 | 15 08 | 16 08 | 17 08 | 17 08 | |
| 01 | 192 | 11.2 | | 56.1 | 213 | 00.8 | 10.6 | 21 | 07.8 | 5.3 | 55.3 | 35 | 17 17 | 17 44 | 18 15 | 14 26 | 15 22 | 16 20 | 17 18 | 17 18 | |
| 02 | 207 | 11.0 | | 55.6 | 227 | 30.4 | 10.7 | 21 | 02.5 | 5.4 | 55.3 | 30 | 17 27 | 17 52 | 18 22 | 14 39 | 15 35 | 16 31 | 17 27 | 17 27 | |
| 03 | 222 | 10.9 | .. | 55.0 | 242 | 00.1 | 10.8 | 20 | 57.1 | 5.5 | 55.3 | 20 | 17 45 | 18 08 | 18 35 | 15 01 | 15 55 | 16 49 | 17 42 | 17 42 | |
| 04 | 237 | 10.7 | | 54.4 | 256 | 29.9 | 10.8 | 20 | 51.6 | 5.6 | 55.3 | N 10 | 18 00 | 18 22 | 18 48 | 15 20 | 16 13 | 17 05 | 17 55 | 17 55 | |
| 05 | 252 | 10.5 | | 53.9 | 270 | 59.7 | 10.8 | 20 | 46.0 | 5.7 | 55.3 | 0 | 18 15 | 18 37 | 19 02 | 15 38 | 16 30 | 17 20 | 18 07 | 18 07 | |
| 06 | 267 | 10.3 | S19 | 53.3 | 285 | 29.5 | 11.0 | S20 | 40.3 | 5.9 | 55.3 | S 10 | 18 29 | 18 52 | 19 18 | 15 56 | 16 47 | 17 35 | 18 20 | 18 20 | |
| 07 | 282 | 10.2 | | 52.8 | 299 | 59.5 | 11.0 | 20 | 34.4 | 5.9 | 55.2 | 20 | 18 45 | 19 09 | 19 38 | 16 15 | 17 05 | 17 51 | 18 32 | 18 32 | |
| 08 | 297 | 10.0 | | 52.2 | 314 | 29.5 | 11.0 | 20 | 28.5 | 6.0 | 55.2 | 30 | 19 04 | 19 30 | 20 02 | 16 37 | 17 25 | 18 08 | 18 47 | 18 47 | |
| 09 | 312 | 09.8 | .. | 51.7 | 328 | 59.5 | 11.1 | 20 | 22.5 | 6.1 | 55.2 | 35 | 19 15 | 19 43 | 20 18 | 16 50 | 17 37 | 18 19 | 18 56 | 18 56 | |
| 10 | 327 | 09.6 | | 51.1 | 343 | 29.6 | 11.2 | 20 | 16.4 | 6.2 | 55.2 | 40 | 19 27 | 19 58 | 20 37 | 17 04 | 17 51 | 18 31 | 19 05 | 19 05 | |
| 11 | 342 | 09.5 | | 50.5 | 357 | 59.8 | 11.2 | 20 | 10.2 | 6.3 | 55.2 | 45 | 19 42 | 20 17 | 21 01 | 17 22 | 18 07 | 18 45 | 19 16 | 19 16 | |
| 12 | 357 | 09.3 | S19 | 50.0 | 12 | 30.0 | 11.3 | S20 | 03.9 | 6.4 | 55.1 | S 50 | 20 00 | 20 40 | 21 35 | 17 43 | 18 27 | 19 02 | 19 30 | 19 30 | |
| 13 | 12 | 09.1 | | 49.4 | 27 | 00.3 | 11.3 | 19 | 57.5 | 6.4 | 55.1 | 52 | 20 09 | 20 52 | 21 53 | 17 54 | 18 36 | 19 10 | 19 36 | 19 36 | |
| 14 | 27 | 08.9 | | 48.8 | 41 | 30.6 | 11.4 | 19 | 51.1 | 6.6 | 55.1 | 54 | 20 18 | 21 06 | 22 16 | 18 05 | 18 47 | 19 18 | 19 43 | 19 43 | |
| 15 | 42 | 08.8 | .. | 48.3 | 56 | 01.0 | 11.5 | 19 | 44.5 | 6.7 | 55.1 | 56 | 20 29 | 21 21 | 22 47 | 18 19 | 18 59 | 19 28 | 19 | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE -1.1 | | | JUPITER -2.2 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|---------------------------------|-------|----|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|----------|----------|-----------|----------|------|
| | d | h | | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| V I E R N E S | 22 | 00 | | 121 21.4 | 131 30.6 | S 4 12.1 | 17 19.1 | N26 55.7 | 287 21.5 | S 4 28.5 | 159 53.7 | S16 11.6 | Acamar | 315 29.7 | S40 20.1 | | | |
| | 01 | | | 136 23.8 | 146 30.8 | 10.8 | 32 22.4 | 55.7 | 302 23.9 | 28.6 | 174 55.9 | 11.5 | Achernar | 335 38.0 | S57 16.5 | | | |
| | 02 | | | 151 26.3 | 161 31.1 | 09.6 | 47 25.7 | 55.8 | 317 26.3 | 28.6 | 189 58.0 | 11.4 | Acrux | 173 26.1 | S63 03.5 | | | |
| | 03 | | | 166 28.8 | 176 31.3 | 08.4 | 62 29.0 | 55.9 | 332 28.7 | 28.6 | 205 00.2 | 11.3 | Adhara | 255 24.1 | S28 57.9 | | | |
| | 04 | | | 181 31.2 | 191 31.6 | 07.2 | 77 32.4 | 55.9 | 347 31.1 | 28.6 | 220 02.4 | 11.2 | Aldebaran | 291 06.6 | N16 29.8 | | | |
| | 05 | | | 196 33.7 | 206 31.9 | 06.0 | 92 35.7 | 56.0 | 2 33.5 | 28.6 | 235 04.6 | 11.1 | | | | | | |
| | 06 | | | 211 36.2 | 221 32.1 | S 4 04.7 | 107 39.0 | N26 56.0 | 17 35.9 | S 4 28.6 | 250 06.7 | S16 11.0 | Alioth | 166 33.7 | N55 59.4 | | | |
| | 07 | | | 226 38.6 | 236 32.4 | 03.5 | 122 42.3 | 56.1 | 32 38.3 | 28.6 | 265 08.9 | 10.9 | Alkaid | 153 10.8 | N49 20.5 | | | |
| | 08 | | | 241 41.1 | 251 32.6 | 02.3 | 137 45.7 | 56.1 | 47 40.7 | 28.6 | 280 11.1 | 10.8 | Al Na'ir | 28 03.1 | S46 59.7 | | | |
| | 09 | | | 256 43.5 | 266 32.9 | 4 01.1 | 152 49.0 | 56.2 | 62 43.1 | 28.6 | 295 13.3 | 10.8 | Alnilam | 276 01.5 | S 1 12.5 | | | |
| | 10 | | | 271 46.0 | 281 33.2 | 3 59.9 | 167 52.3 | 56.3 | 77 45.6 | 28.7 | 310 15.4 | 10.7 | Alphard | 218 10.7 | S 8 37.9 | | | |
| | 11 | | | 286 48.5 | 296 33.4 | 58.6 | 182 55.6 | 56.3 | 92 48.0 | 28.7 | 325 17.6 | 10.6 | | | | | | |
| | 12 | | | 301 50.9 | 311 33.7 | S 3 57.4 | 197 58.9 | N26 56.4 | 107 50.4 | S 4 28.7 | 340 19.8 | S16 10.5 | Alphecca | 126 24.0 | N26 44.0 | | | |
| | 13 | | | 316 53.4 | 326 34.0 | 56.2 | 213 02.3 | 56.4 | 122 52.8 | 28.7 | 355 22.0 | 10.4 | Alphaeratz | 357 59.5 | N29 03.3 | | | |
| | 14 | | | 331 55.9 | 341 34.2 | 55.0 | 228 05.6 | 56.5 | 137 55.2 | 28.7 | 10 24.1 | 10.3 | Alfair | 62 23.4 | N 8 51.0 | | | |
| | 15 | | | 346 58.3 | 356 34.5 | 53.8 | 243 08.9 | 56.5 | 152 57.6 | 28.7 | 25 26.3 | 10.2 | Ankaa | 353 30.8 | S42 20.8 | | | |
| | 16 | | | 2 00.8 | 11 34.8 | 52.5 | 258 12.2 | 56.6 | 168 00.0 | 28.7 | 40 28.5 | 10.1 | Antares | 112 45.2 | S26 25.0 | | | |
| | 17 | | | 17 03.3 | 26 35.1 | 51.3 | 273 15.5 | 56.6 | 183 02.4 | 28.7 | 55 30.6 | 10.0 | | | | | | |
| | 18 | | | 32 05.7 | 41 35.3 | S 3 50.1 | 288 18.8 | N26 56.7 | 198 04.9 | S 4 28.7 | 70 32.8 | S16 09.9 | Arcturus | 146 09.6 | N19 12.8 | | | |
| | 19 | | | 47 08.2 | 56 35.6 | 48.9 | 303 22.1 | 56.7 | 213 07.3 | 28.7 | 85 35.0 | 09.9 | Atria | 108 01.1 | S69 00.7 | | | |
| | 20 | | | 62 10.7 | 71 35.9 | 47.6 | 318 25.4 | 56.8 | 228 09.7 | 28.7 | 100 37.2 | 09.8 | Avior | 234 23.6 | S59 29.3 | | | |
| | 21 | | | 77 13.1 | 86 36.1 | 46.4 | 333 28.8 | 56.8 | 243 12.1 | 28.8 | 115 39.3 | 09.7 | Bellatrix | 278 48.1 | N 6 20.6 | | | |
| | 22 | | | 92 15.6 | 101 36.4 | 45.2 | 348 32.1 | 56.9 | 258 14.5 | 28.8 | 130 41.5 | 09.6 | Betelgeuse | 271 17.5 | N 7 24.3 | | | |
| 23 | | | 107 18.0 | 116 36.7 | 44.0 | 3 35.4 | 56.9 | 273 16.9 | 28.8 | 145 43.7 | 09.5 | | | | | | | |
| S A B O | 23 | 00 | | 122 20.5 | 131 37.0 | S 3 42.8 | 18 38.7 | N26 57.0 | 288 19.3 | S 4 28.8 | 160 45.9 | S16 09.4 | Canopus | 264 02.4 | S52 41.7 | | | |
| | 01 | | | 137 23.0 | 146 37.3 | 41.5 | 33 42.0 | 57.0 | 303 21.8 | 28.8 | 175 48.0 | 09.3 | Capella | 280 56.6 | N45 59.6 | | | |
| | 02 | | | 152 25.4 | 161 37.5 | 40.3 | 48 45.3 | 57.1 | 318 24.2 | 28.8 | 190 50.2 | 09.2 | Deneb | 49 42.3 | N45 15.4 | | | |
| | 03 | | | 167 27.9 | 176 37.8 | 39.1 | 63 48.6 | 57.1 | 333 26.6 | 28.8 | 205 52.4 | 09.1 | Denebola | 182 48.9 | N14 36.4 | | | |
| | 04 | | | 182 30.4 | 191 38.1 | 37.9 | 78 51.9 | 57.2 | 348 29.0 | 28.8 | 220 54.5 | 09.0 | Diphda | 349 11.2 | S18 01.5 | | | |
| | 05 | | | 197 32.8 | 206 38.4 | 36.7 | 93 55.2 | 57.2 | 3 31.4 | 28.8 | 235 56.7 | 09.0 | | | | | | |
| | 06 | | | 212 35.3 | 221 38.7 | S 3 35.4 | 108 58.5 | N26 57.3 | 18 33.8 | S 4 28.8 | 250 58.9 | S16 08.9 | Dubhe | 194 09.6 | N61 46.9 | | | |
| | 07 | | | 227 37.8 | 236 38.9 | 34.2 | 124 01.7 | 57.3 | 33 36.3 | 28.8 | 266 01.1 | 08.8 | Elnath | 278 31.6 | N28 36.1 | | | |
| | 08 | | | 242 40.2 | 251 39.2 | 33.0 | 139 05.0 | 57.4 | 48 38.7 | 28.8 | 281 03.2 | 08.7 | Eltanin | 90 53.7 | N51 29.2 | | | |
| | 09 | | | 257 42.7 | 266 39.5 | 31.8 | 154 08.3 | 57.4 | 63 41.1 | 28.8 | 296 05.4 | 08.6 | Enif | 34 02.4 | N 9 50.6 | | | |
| | 10 | | | 272 45.2 | 281 39.8 | 30.6 | 169 11.6 | 57.5 | 78 43.5 | 28.9 | 311 07.6 | 08.5 | Fomalhaut | 15 41.0 | S29 39.6 | | | |
| | 11 | | | 287 47.6 | 296 40.1 | 29.3 | 184 14.9 | 57.5 | 93 45.9 | 28.9 | 326 09.8 | 08.4 | | | | | | |
| | 12 | | | 302 50.1 | 311 40.4 | S 3 28.1 | 199 18.2 | N26 57.6 | 108 48.4 | S 4 28.9 | 341 11.9 | S16 08.3 | Gacrux | 172 17.7 | S57 04.4 | | | |
| | 13 | | | 317 52.5 | 326 40.7 | 26.9 | 214 21.5 | 57.6 | 123 50.8 | 28.9 | 356 14.1 | 08.2 | Gienah | 176 07.8 | S17 30.3 | | | |
| | 14 | | | 332 55.0 | 341 41.0 | 25.7 | 229 24.8 | 57.7 | 138 53.2 | 28.9 | 11 16.3 | 08.1 | Hadar | 149 09.6 | S60 20.2 | | | |
| | 15 | | | 347 57.5 | 356 41.2 | 24.4 | 244 28.1 | 57.7 | 153 55.6 | 28.9 | 26 18.4 | 08.1 | Hamal | 328 18.0 | N23 25.9 | | | |
| | 16 | | | 2 59.9 | 11 41.5 | 23.2 | 259 31.3 | 57.8 | 168 58.0 | 28.9 | 41 20.6 | 08.0 | Kaus Aust. | 84 04.3 | S34 23.2 | | | |
| | 17 | | | 18 02.4 | 26 41.8 | 22.0 | 274 34.6 | 57.8 | 184 00.5 | 28.9 | 56 22.8 | 07.9 | | | | | | |
| | 18 | | | 33 04.9 | 41 42.1 | S 3 20.8 | 289 37.9 | N26 57.9 | 199 02.9 | S 4 28.9 | 71 25.0 | S16 07.8 | Kochab | 137 19.5 | N74 10.6 | | | |
| | 19 | | | 48 07.3 | 56 42.4 | 19.6 | 304 41.2 | 57.9 | 214 05.3 | 28.9 | 86 27.1 | 07.7 | Markab | 13 53.7 | N15 10.2 | | | |
| | 20 | | | 63 09.8 | 71 42.7 | 18.3 | 319 44.4 | 57.9 | 229 07.7 | 28.9 | 101 29.3 | 07.6 | Menkar | 314 30.9 | N 4 03.8 | | | |
| | 21 | | | 78 12.3 | 86 43.0 | 17.1 | 334 47.7 | 58.0 | 244 10.1 | 28.9 | 116 31.5 | 07.5 | Menkent | 148 25.6 | S36 20.1 | | | |
| | 22 | | | 93 14.7 | 101 43.3 | 15.9 | 349 51.0 | 58.0 | 259 12.6 | 28.9 | 131 33.7 | 07.4 | Miaplacidus | 221 42.0 | S69 41.4 | | | |
| 23 | | | 108 17.2 | 116 43.6 | 14.7 | 4 54.3 | 58.1 | 274 15.0 | 28.9 | 146 35.8 | 07.3 | | | | | | | |
| D O M I N G O | 24 | 00 | | 123 19.6 | 131 43.9 | S 3 13.5 | 19 57.5 | N26 58.1 | 289 17.4 | S 4 28.9 | 161 38.0 | S16 07.2 | Mirfak | 309 02.0 | N49 50.5 | | | |
| | 01 | | | 138 22.1 | 146 44.2 | 12.2 | 35 00.8 | 58.2 | 304 19.8 | 28.9 | 176 40.2 | 07.1 | Nunki | 76 17.5 | S26 18.3 | | | |
| | 02 | | | 153 24.6 | 161 44.5 | 11.0 | 50 04.1 | 58.2 | 319 22.3 | 28.9 | 191 42.3 | 07.1 | Peacock | 53 43.7 | S56 45.4 | | | |
| | 03 | | | 168 27.0 | 176 44.8 | 09.8 | 65 07.4 | 58.2 | 334 24.7 | 28.9 | 206 44.5 | 07.0 | Pollux | 243 45.9 | N28 02.5 | | | |
| | 04 | | | 183 29.5 | 191 45.1 | 08.6 | 80 10.6 | 58.3 | 349 27.1 | 29.0 | 221 46.7 | 06.9 | Procyon | 245 15.3 | N 5 14.4 | | | |
| | 05 | | | 198 32.0 | 206 45.4 | 07.4 | 95 13.9 | 58.3 | 4 29.5 | 29.0 | 236 48.9 | 06.8 | | | | | | |
| | 06 | | | 213 34.4 | 221 45.7 | S 3 06.1 | 110 17.1 | N26 58.4 | 19 32.0 | S 4 29.0 | 251 51.0 | S16 06.7 | Rasalhague | 96 20.8 | N12 33.8 | | | |
| | 07 | | | 228 36.9 | 236 46.0 | 04.9 | 125 20.4 | 58.4 | 34 34.4 | 29.0 | 266 53.2 | 06.6 | Regulus | 207 59.4 | N11 59.8 | | | |
| | 08 | | | 243 39.4 | 251 46.3 | 03.7 | 140 23.7 | 58.5 | 49 36.8 | 29.0 | 281 55.4 | 06.5 | Rigel | 281 26.4 | S 8 12.7 | | | |
| | 09 | | | 258 41.8 | 266 46.7 | 02.5 | 155 26.9 | 58.5 | 64 39.2 | 29.0 | 296 57.6 | 06.4 | Rigil Kent. | 140 12.6 | S60 48.2 | | | |
| | 10 | | | 273 44.3 | 281 47.0 | 01.3 | 170 30.2 | 58.5 | 79 41.7 | 29.0 | 311 59.7 | 06.3 | Sabik | 102 30.2 | S15 43.0 | | | |
| | 11 | | | 288 46.8 | 296 47.3 | 00.0 | 185 33.5 | 58.6 | 94 44.1 | 29.0 | 327 01.9 | 06.2 | | | | | | |
| | 12 | | | 303 49.2 | 311 47.6 | S 2 58.8 | 200 36.7 | N26 58.6 | 109 46.5 | S 4 29.0 | 342 04.1 | S16 06.2 | Schedar | 349 58.2 | N56 30.3 | | | |
| | 13 | | | 318 51.7 | 326 47.9 | 57.6 | 215 40.0 | 58.7 | 124 48.9 | 29.0 | 357 06.2 | 06.1 | Shaula | 96 42.9 | S37 05.9 | | | |
| | 14 | | | 333 54.1 | 341 48.2 | 56.4 | 230 43.2 | 58.7 | 139 51.4 | 29.0 | 12 08.4 | 06.0 | Sirius | 258 46.8 | S16 42.5 | | | |
| | 15 | | | 348 56.6 | 356 48.5 | 55.2 | 245 46.5 | 58.7 | 154 53.8 | 29.0 | 27 10.6 | 05.9 | Spica | 158 47.2 | S11 07.6 | | | |
| | 16 | | | 3 59.1 | 11 48.8 | 53.9 | 260 49.7 | 58.8 | 169 56.2 | 29.0 | 42 12.8 | 05.8 | Suhail | 223 03.2 | S43 24.4 | | | |
| | 17 | | | 19 01 | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | |
|---------------------------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|------------|-------|------------|-------|-------|--|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 22 | 23 | 24 | 25 | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | | | |
| V I E R N E S | 22 00 | 177 | 07.2 | S19 | 43.2 | 186 | 37.6 | 12.0 | S18 | 41.4 | 7.5 | 55.0 | 07 39 | 09 18 | 10 52 | 09 55 | 09 28 | 09 07 | |
| | 01 | 192 | 07.1 | | 42.6 | 201 | 08.6 | 12.1 | 18 | 33.9 | 7.5 | 54.9 | 07 27 | 08 52 | 09 53 | 09 28 | 09 13 | 09 00 | |
| | 02 | 207 | 06.9 | | 42.0 | 215 | 39.7 | 12.2 | 18 | 26.4 | 7.6 | 54.9 | 07 18 | 08 33 | 09 18 | 09 08 | 09 00 | 08 53 | |
| | 03 | 222 | 06.7 | .. | 41.5 | 230 | 10.9 | 12.2 | 18 | 18.8 | 7.7 | 54.9 | 07 10 | 08 17 | 08 53 | 08 52 | 08 50 | 08 48 | |
| | 04 | 237 | 06.5 | | 40.9 | 244 | 42.1 | 12.3 | 18 | 11.1 | 7.7 | 54.9 | 07 03 | 08 04 | 08 33 | 08 39 | 08 42 | 08 44 | |
| | 05 | 252 | 06.4 | | 40.3 | 259 | 13.4 | 12.3 | 18 | 03.4 | 7.9 | 54.9 | 06 56 | 07 53 | 08 17 | 08 27 | 08 34 | 08 40 | |
| | 06 | 267 | 06.2 | S19 | 39.8 | 273 | 44.7 | 12.4 | S17 | 55.5 | 7.9 | 54.9 | 06 51 | 07 43 | 08 33 | 08 04 | 08 18 | 08 28 | |
| | 07 | 282 | 06.0 | | 39.2 | 288 | 16.1 | 12.5 | 17 | 47.6 | 8.0 | 54.8 | 06 46 | 07 35 | 08 21 | 07 52 | 08 09 | 08 22 | |
| | 08 | 297 | 05.9 | | 38.6 | 302 | 47.6 | 12.5 | 17 | 39.6 | 8.1 | 54.8 | 06 41 | 07 28 | 08 10 | 07 42 | 08 02 | 08 17 | |
| | 09 | 312 | 05.7 | .. | 38.0 | 317 | 19.1 | 12.6 | 17 | 31.5 | 8.1 | 54.8 | 06 37 | 07 21 | 08 01 | 07 33 | 07 55 | 08 13 | |
| | 10 | 327 | 05.5 | | 37.5 | 331 | 50.7 | 12.7 | 17 | 23.4 | 8.2 | 54.8 | 06 33 | 07 15 | 07 53 | 07 25 | 07 49 | 08 09 | |
| | 11 | 342 | 05.4 | | 36.9 | 346 | 22.4 | 12.7 | 17 | 15.2 | 8.3 | 54.8 | 06 30 | 07 09 | 07 45 | 07 18 | 07 43 | 08 05 | |
| | 12 | 357 | 05.2 | S19 | 36.3 | 0 | 54.1 | 12.8 | S17 | 06.9 | 8.4 | 54.8 | 06 21 | 06 57 | 07 29 | 07 02 | 07 32 | 07 57 | |
| | 13 | 12 | 05.0 | | 35.7 | 15 | 25.9 | 12.9 | 16 | 58.5 | 8.4 | 54.8 | 06 14 | 06 47 | 07 16 | 06 50 | 07 22 | 07 50 | |
| | 14 | 27 | 04.9 | | 35.2 | 29 | 57.8 | 12.9 | 16 | 50.1 | 8.5 | 54.7 | 06 07 | 06 37 | 07 05 | 06 39 | 07 13 | 07 44 | |
| | 15 | 42 | 04.7 | .. | 34.6 | 44 | 29.7 | 12.9 | 16 | 41.6 | 8.6 | 54.7 | 06 00 | 06 29 | 06 55 | 06 29 | 07 06 | 07 39 | |
| | 16 | 57 | 04.5 | | 34.0 | 59 | 01.6 | 13.1 | 16 | 33.0 | 8.7 | 54.7 | 05 47 | 06 14 | 06 38 | 06 13 | 06 53 | 07 30 | |
| | 17 | 72 | 04.4 | | 33.4 | 73 | 33.7 | 13.1 | 16 | 24.3 | 8.7 | 54.7 | 05 35 | 06 00 | 06 23 | 05 58 | 06 42 | 07 22 | |
| | 18 | 87 | 04.2 | S19 | 32.8 | 88 | 05.8 | 13.1 | S16 | 15.6 | 8.8 | 54.7 | 05 21 | 05 46 | 06 08 | 05 45 | 06 31 | 07 15 | |
| | 19 | 102 | 04.1 | | 32.3 | 102 | 37.9 | 13.2 | 16 | 06.8 | 8.8 | 54.7 | 05 05 | 05 32 | 05 54 | 05 31 | 06 20 | 07 07 | |
| | 20 | 117 | 03.9 | | 31.7 | 117 | 10.1 | 13.3 | 15 | 58.0 | 8.9 | 54.7 | 04 47 | 05 15 | 05 39 | 05 17 | 06 09 | 06 59 | |
| | 21 | 132 | 03.7 | .. | 31.1 | 131 | 42.4 | 13.3 | 15 | 49.1 | 9.0 | 54.6 | 04 23 | 04 54 | 05 21 | 05 00 | 05 56 | 06 50 | |
| | 22 | 147 | 03.6 | | 30.5 | 146 | 14.7 | 13.4 | 15 | 40.1 | 9.1 | 54.6 | 04 07 | 04 42 | 05 10 | 04 50 | 05 48 | 06 45 | |
| 23 | 162 | 03.4 | | 29.9 | 160 | 47.1 | 13.5 | 15 | 31.0 | 9.1 | 54.6 | 03 49 | 04 27 | 04 58 | 04 39 | 05 39 | 06 39 | | |
| 23 00 | 177 | 03.2 | S19 | 29.3 | 175 | 19.6 | 13.5 | S15 | 21.9 | 9.1 | 54.6 | 03 25 | 04 09 | 04 44 | 04 26 | 05 29 | 06 32 | | |
| 01 | 192 | 03.1 | | 28.8 | 189 | 52.1 | 13.5 | 15 | 12.8 | 9.3 | 54.6 | 02 52 | 03 46 | 04 26 | 04 10 | 05 17 | 06 23 | | |
| 02 | 207 | 02.9 | | 28.2 | 204 | 24.6 | 13.7 | 15 | 03.5 | 9.3 | 54.6 | 02 35 | 03 35 | 04 18 | 04 03 | 05 11 | 06 19 | | |
| 03 | 222 | 02.8 | .. | 27.6 | 218 | 57.3 | 13.6 | 14 | 54.2 | 9.3 | 54.6 | 02 14 | 03 22 | 04 09 | 03 54 | 05 05 | 06 15 | | |
| 04 | 237 | 02.6 | | 27.0 | 233 | 29.9 | 13.8 | 14 | 44.9 | 9.4 | 54.6 | 01 45 | 03 07 | 03 58 | 03 45 | 04 58 | 06 10 | | |
| 05 | 252 | 02.4 | | 26.4 | 248 | 02.7 | 13.8 | 14 | 35.5 | 9.5 | 54.5 | 00 55 | 02 49 | 03 46 | 03 34 | 04 50 | 06 05 | | |
| 06 | 267 | 02.3 | S19 | 25.8 | 262 | 35.5 | 13.8 | S14 | 26.0 | 9.5 | 54.5 | /// | 02 26 | 03 32 | 03 21 | 04 40 | 05 59 | | |
| 07 | 282 | 02.1 | | 25.2 | 277 | 08.3 | 13.9 | 14 | 16.5 | 9.6 | 54.5 | | | | | | | | |
| 08 | 297 | 02.0 | | 24.6 | 291 | 41.2 | 14.0 | 14 | 06.9 | 9.6 | 54.5 | | | | | | | | |
| 09 | 312 | 01.8 | .. | 24.1 | 306 | 14.2 | 14.0 | 13 | 57.3 | 9.7 | 54.5 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| 10 | 327 | 01.6 | | 23.5 | 320 | 47.2 | 14.1 | 13 | 47.6 | 9.8 | 54.5 | | | | | | | | |
| 11 | 342 | 01.5 | | 22.9 | 335 | 20.3 | 14.1 | 13 | 37.8 | 9.7 | 54.5 | | | | | | | | |
| 12 | 357 | 01.3 | S19 | 22.3 | 349 | 53.4 | 14.2 | S13 | 28.1 | 9.9 | 54.5 | | | | | | | | |
| 13 | 12 | 01.2 | | 21.7 | 4 | 26.6 | 14.2 | 13 | 18.2 | 9.9 | 54.4 | | | | | | | | |
| 14 | 27 | 01.0 | | 21.1 | 18 | 59.8 | 14.3 | 13 | 08.3 | 9.9 | 54.4 | | | | | | | | |
| 15 | 42 | 00.8 | .. | 20.5 | 33 | 33.1 | 14.3 | 12 | 58.4 | 10.0 | 54.4 | | | | | | | | |
| 16 | 57 | 00.7 | | 19.9 | 48 | 06.4 | 14.4 | 12 | 48.4 | 10.1 | 54.4 | | | | | | | | |
| 17 | 72 | 00.5 | | 19.3 | 62 | 39.8 | 14.4 | 12 | 38.3 | 10.1 | 54.4 | | | | | | | | |
| 18 | 87 | 00.4 | S19 | 18.7 | 77 | 13.2 | 14.5 | S12 | 28.2 | 10.1 | 54.4 | | | | | | | | |
| 19 | 102 | 00.2 | | 18.1 | 91 | 46.7 | 14.6 | 12 | 18.1 | 10.2 | 54.4 | | | | | | | | |
| 20 | 117 | 00.1 | | 17.5 | 106 | 20.3 | 14.5 | 12 | 07.9 | 10.2 | 54.4 | | | | | | | | |
| 21 | 131 | 59.9 | .. | 16.9 | 120 | 53.8 | 14.7 | 11 | 57.7 | 10.3 | 54.4 | | | | | | | | |
| 22 | 146 | 59.8 | | 16.3 | 135 | 27.5 | 14.7 | 11 | 47.4 | 10.3 | 54.3 | | | | | | | | |
| 23 | 161 | 59.6 | | 15.7 | 150 | 01.2 | 14.7 | 11 | 37.1 | 10.4 | 54.3 | | | | | | | | |
| 24 00 | 176 | 59.5 | S19 | 15.1 | 164 | 34.9 | 14.8 | S11 | 26.7 | 10.4 | 54.3 | | | | | | | | |
| 01 | 191 | 59.3 | | 14.5 | 179 | 08.7 | 14.8 | 11 | 16.3 | 10.4 | 54.3 | | | | | | | | |
| 02 | 206 | 59.1 | | 13.9 | 193 | 42.5 | 14.9 | 11 | 05.9 | 10.5 | 54.3 | | | | | | | | |
| 03 | 221 | 59.0 | .. | 13.3 | 208 | 16.4 | 14.9 | 10 | 55.4 | 10.5 | 54.3 | | | | | | | | |
| 04 | 236 | 58.8 | | 12.7 | 222 | 50.3 | 14.9 | 10 | 44.9 | 10.6 | 54.3 | | | | | | | | |
| 05 | 251 | 58.7 | | 12.1 | 237 | 24.2 | 15.1 | 10 | 34.3 | 10.6 | 54.3 | | | | | | | | |
| 06 | 266 | 58.5 | S19 | 11.5 | 251 | 58.3 | 15.0 | S10 | 23.7 | 10.7 | 54.3 | | | | | | | | |
| 07 | 281 | 58.4 | | 10.9 | 266 | 32.3 | 15.1 | 10 | 13.0 | 10.6 | 54.3 | | | | | | | | |
| 08 | 296 | 58.2 | | 10.3 | 281 | 06.4 | 15.1 | 10 | 02.4 | 10.7 | 54.2 | | | | | | | | |
| 09 | 311 | 58.1 | .. | 09.7 | 295 | 40.5 | 15.2 | 9 | 51.7 | 10.8 | 54.2 | | | | | | | | |
| 10 | 326 | 57.9 | | 09.1 | 310 | 14.7 | 15.2 | 9 | 40.9 | 10.8 | 54.2 | | | | | | | | |
| 11 | 341 | 57.8 | | 08.5 | 324 | 48.9 | 15.3 | 9 | 30.1 | 10.8 | 54.2 | | | | | | | | |
| 12 | 356 | 57.6 | S19 | 07.9 | 339 | 23.2 | 15.3 | S | 9 | 19.3 | 10.8 | | | | | | | | |
| 13 | 11 | 57.5 | | 07.3 | 353 | 57.5 | 15.3 | 9 | 08.5 | 10.9 | 54.2 | | | | | | | | |
| 14 | 26 | 57.3 | | 06.7 | 8 | 31.8 | 15.4 | 8 | 57.6 | 10.9 | 54.2 | | | | | | | | |
| 15 | 41 | 57.2 | .. | 06.1 | 23 | 06.2 | 15.4 | 8 | 46.7 | 11.0 | 54.2 | | | | | | | | |
| 16 | 56 | 57.0 | | 05.5 | 37 | 40.6 | 15.4 | 8 | 35.7 | 10.9 | 54.2 | | | | | | | | |
| 17 | 71 | 56.9 | | 04.9 | 52 | 15.0 | 15.5 | 8 | 24.8 | 11.0 | 54.2 | | | | | | | | |
| 18 | 86 | 56.7 | S19 | 04.2 | 66 | 49.5 | 15.5 | S | 8 | 13.8 | 11.0 | | | | | | | | |
| 19 | 101 | 56.6 | | 03.6 | 81 | 24.0 | 15.6 | 8 | 02.8 | 11.1 | 54.2 | | | | | | | | |
| 20 | 116 | 56.4 | | 03.0 | 95 | 58.6 | 15.6 | 7 | 51.7 | 11.1 | 54.2 | | | | | | | | |
| 21 | 131 | 56.3 | .. | 02.4 | 110 | 33.2 | 15.6 | 7 | 40.6 | 11.1 | 54.1 | | | | | | | | |
| 22 | 146 | 56.2 | | 01.8 | 125 | 07.8 | 15.6 | 7 | 29.5 | 11.1 | 54.1 | | | | | | | | |
| 23 | 161 | 56.0 | | 01.2 | 139 | 42.4 | 15.7 | 7 | 18.4 | 11.2 | 54.1 | | | | | | | | |
| | S.D. | 16.3 | d | 0.6 | S.D. | 14.9 | 14.8 | 14.8 | | | | | | | | | | | |

| Día | SOL | | | | LUNA | | | | | | | | |
|-----|----------|------|-----------|-----------|------|------|------|------|------|------|------|--|--|
| | E.T. (-) | | Pas. Mer. | Pas. Mer. | | Edad | Fase | | | | | | |
| | 00 h | 12 h | | Sup. | Inf. | | | | | | | | |
| 18 | 86 | 47.0 | S18 | 18.8 | 36 | 57.9 | 16.0 | N 5 | 29.4 | 11.3 | 54.1 | | |
| 19 | 101 | 46.9 | | 18.1 | 51 | 32.9 | 16.0 | 5 | 40.7 | 11.2 | 54.1 | | |
| 20 | 116 | 46.8 | | 17.5 | 66 | 07.9 | 16.0 | 5 | 51.9 | 11.3 | 54.1 | | |
| 21 | 131 | 46.7 | .. | 16.8 | 80 | 42.9 | 15.9 | 6 | 03.2 | 11.2 | 54.1 | | |
| 22 | 146 | 46.6 | | 16.2 | 95 | 17.8 | 15.9 | 6 | 14.4 | 11.2 | 54.2 | | |
| 23 | 161 | 46.4 | | 15.5 | 109 | 52.7 | 15.9 | 6 | 25.6 | 11.2 | 54.2 | | |
| | S.D. | 16.3 | d | 0.6 | S.D. | 14.7 | 14.7 | 14.7 | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.5 | | MARTE -1.0 | | JUPITER -2.2 | | SATURNO +0.7 | | ESTRELLAS | | |
|----------------|----------|------------|----------|------------|----------|--------------|----------|--------------|----------|-----------|----------|----------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| d h | | | | | | | | | | | | |
| 25 00 | 124 18.8 | 131 51.4 | S 2 44.2 | 21 15.7 | N26 59.1 | 290 15.7 | S 4 29.0 | 162 30.1 | S16 05.1 | Acamar | 315 29.8 | S40 20.1 |
| 01 | 139 21.3 | 146 51.7 | 43.0 | 36 18.9 | 59.1 | 305 18.1 | 29.0 | 177 32.3 | 05.0 | Achernar | 335 38.1 | S57 16.5 |
| 02 | 154 23.7 | 161 52.0 | 41.7 | 51 22.2 | 59.1 | 320 20.5 | 29.0 | 192 34.5 | 04.9 | AcruX | 173 26.1 | S63 03.5 |

| T.M.G. (TU) | ARIES | VENUS -4.5 | | MARTE -1.0 | | JUPITER -2.2 | | SATURNO +0.7 | | ESTRELLAS | | |
|----------------|----------|------------|----------|------------|----------|--------------|----------|--------------|----------|-------------|----------|----------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| d h | | | | | | | | | | | | |
| 28 00 | 127 16.2 | 132 17.2 | S 1 16.6 | 25 05.3 | N27 00.9 | 293 11.4 | S 4 28.8 | 165 06.4 | S15 58.5 | Acamar | 315 29.8 | S40 20.2 |
| 01 | 142 18.7 | 147 17.6 | 15.4 | 40 08.4 | 00.9 | 308 13.9 | 28.8 | 180 08.6 | 58.4 | Achernar | 335 38.1 | S57 16.5 |
| 02 | 157 21.1 | 162 18.0 | 14.2 | 55 11.6 | 00.9 | 323 16.3 | 28.8 | 195 10.8 | 58.3 | AcruX | 173 26.1 | S63 03.6 |
| 03 | 172 23.6 | 177 18.4 | 13.0 | 70 14.7 | 00.9 | 338 18.8 | 28.8 | 210 12.9 | 58.2 | Adhara | 255 24.1 | S28 57.9 |
| 04 | 187 26.1 | 192 18.8 | 11.8 | 85 17.8 | 00.9 | 353 21.3 | 28.8 | 225 15.1 | 58.1 | Aldebaran | 291 06.7 | N16 29.8 |
| 05 | 202 28.5 | 207 19.2 | 10.5 | 100 21.0 | 00.9 | 8 23.7 | 28.8 | 240 17.3 | 58.0 | | | |
| 06 | 217 31.0 | 222 19.6 | S 1 09.3 | 115 24.1 | N27 00.9 | 23 26.2 | S 4 28.8 | 255 19.4 | S15 58.0 | Alioth | 166 33.7 | N55 59.4 |
| 07 | 232 33.5 | 237 20.0 | 08.1 | 130 27.2 | 01.0 | 38 28.6 | 28.8 | 270 21.6 | 57.9 | Alkaid | 153 10.7 | N49 20.5 |
| 08 | 247 35.9 | 252 20.4 | 06.9 | 145 30.4 | 01.0 | 53 31.1 | 28.8 | 285 23.8 | 57.8 | Al Na'ir | 28 03.1 | S46 59.7 |
| J 09 | 262 38.4 | 267 20.8 | 05.7 | 160 33.5 | 01.0 | 68 33.5 | 28.8 | 300 25.9 | 57.7 | Alnilam | 276 01.6 | S 1 12.5 |
| U 10 | 277 40.8 | 282 21.2 | 04.5 | 175 36.6 | 01.0 | 83 36.0 | 28.8 | 315 28.1 | 57.6 | Alphard | 218 10.7 | S 8 37.9 |
| E 11 | 292 43.3 | 297 21.6 | 03.3 | 190 39.7 | 01.0 | 98 38.4 | 28.7 | 330 30.3 | 57.5 | | | |
| V 12 | 307 45.8 | 312 22.0 | S 1 02.1 | 205 42.9 | N27 01.0 | 113 40.9 | S 4 28.7 | 345 32.5 | S15 57.4 | Alphecca | 126 24.0 | N26 44.0 |
| S 13 | 322 48.2 | 327 22.4 | 1 00.9 | 220 46.0 | 01.0 | 128 43.4 | 28.7 | 0 34.6 | 57.3 | Alpheratz | 357 59.5 | N29 03.3 |
| 14 | 337 50.7 | 342 22.8 | 0 59.6 | 235 49.1 | 01.0 | 143 45.8 | 28.7 | 15 36.8 | 57.2 | Altair | 62 23.4 | N 8 51.0 |
| 15 | 352 53.2 | 357 23.3 | 58.4 | 250 52.2 | 01.1 | 158 48.3 | 28.7 | 30 39.0 | 57.1 | Ankaa | 353 30.8 | S42 20.8 |
| 16 | 7 55.6 | 12 23.7 | 57.2 | 265 55.3 | 01.1 | 173 50.7 | 28.7 | 45 41.1 | 57.0 | Antares | 112 45.1 | S26 25.0 |
| 17 | 22 58.1 | 27 24.1 | 56.0 | 280 58.4 | 01.1 | 188 53.2 | 28.7 | 60 43.3 | 56.9 | | | |
| 18 | 38 00.6 | 42 24.5 | S 0 54.8 | 296 01.5 | N27 01.1 | 203 55.6 | S 4 28.7 | 75 45.5 | S15 56.9 | Arcturus | 146 09.5 | N19 12.8 |
| 19 | 53 03.0 | 57 24.9 | 53.6 | 311 04.7 | 01.1 | 218 58.1 | 28.7 | 90 47.6 | 56.8 | Atria | 108 01.0 | S69 00.7 |
| 20 | 68 05.5 | 72 25.3 | 52.4 | 326 07.8 | 01.1 | 234 00.6 | 28.7 | 105 49.8 | 56.7 | Avior | 234 23.6 | S59 29.4 |
| 21 | 83 08.0 | 87 25.7 | 51.2 | 341 10.9 | 01.1 | 249 03.0 | 28.7 | 120 52.0 | 56.6 | Bellatrix | 278 48.1 | N 6 20.6 |
| 22 | 98 10.4 | 102 26.2 | 50.0 | 356 14.0 | 01.1 | 264 05.5 | 28.6 | 135 54.1 | 56.5 | Betelgeuse | 271 17.5 | N 7 24.3 |
| 23 | 113 12.9 | 117 26.6 | 48.8 | 11 17.1 | 01.1 | 279 07.9 | 28.6 | 150 56.3 | 56.4 | | | |
| 29 00 | 128 15.3 | 132 27.0 | S 0 47.5 | 26 20.2 | N27 01.1 | 294 10.4 | S 4 28.6 | 165 58.5 | S15 56.3 | Canopus | 264 02.4 | S52 41.7 |
| 01 | 143 17.8 | 147 27.4 | 46.3 | 41 23.3 | 01.2 | 309 12.9 | 28.6 | 181 00.7 | 56.2 | Capella | 280 56.6 | N45 59.6 |
| 02 | 158 20.3 | 162 27.8 | 45.1 | 56 26.4 | 01.2 | 324 15.3 | 28.6 | 196 02.8 | 56.1 | Deneb | 49 42.3 | N45 15.4 |
| 03 | 173 22.7 | 177 28.3 | 43.9 | 71 29.5 | 01.2 | 339 17.8 | 28.6 | 211 05.0 | 56.0 | Denebola | 182 48.9 | N14 36.4 |
| 04 | 188 25.2 | 192 28.7 | 42.7 | 86 32.6 | 01.2 | 354 20.2 | 28.6 | 226 07.2 | 55.9 | Diphda | 349 11.3 | S18 01.5 |
| 05 | 203 27.7 | 207 29.1 | 41.5 | 101 35.7 | 01.2 | 9 22.7 | 28.6 | 241 09.3 | 55.8 | | | |
| 06 | 218 30.1 | 222 29.5 | S 0 40.3 | 116 38.8 | N27 01.2 | 24 25.2 | S 4 28.6 | 256 11.5 | S15 55.8 | Dubhe | 194 09.6 | N61 47.0 |
| 07 | 233 32.6 | 237 30.0 | 39.1 | 131 41.9 | 01.2 | 39 27.6 | 28.5 | 271 13.7 | 55.7 | Elnath | 278 31.6 | N28 36.2 |
| 08 | 248 35.1 | 252 30.4 | 37.9 | 146 45.0 | 01.2 | 54 30.1 | 28.5 | 286 15.8 | 55.6 | Eltanin | 90 53.6 | N51 29.2 |
| V 09 | 263 37.5 | 267 30.8 | 36.7 | 161 48.0 | 01.2 | 69 32.5 | 28.5 | 301 18.0 | 55.5 | Enif | 34 02.4 | N 9 50.6 |
| I 10 | 278 40.0 | 282 31.2 | 35.5 | 176 51.1 | 01.2 | 84 35.0 | 28.5 | 316 20.2 | 55.4 | Fomalhaut | 15 41.0 | S29 39.6 |
| E 11 | 293 42.4 | 297 31.7 | 34.3 | 191 54.2 | 01.2 | 99 37.5 | 28.5 | 331 22.3 | 55.3 | | | |
| R 12 | 308 44.9 | 312 32.1 | S 0 33.0 | 206 57.3 | N27 01.2 | 114 39.9 | S 4 28.5 | 346 24.5 | S15 55.2 | Gacrux | 172 17.7 | S57 04.4 |
| N 13 | 323 47.4 | 327 32.5 | 31.8 | 222 00.4 | 01.2 | 129 42.4 | 28.5 | 1 26.7 | 55.1 | Gienah | 176 07.8 | S17 30.3 |
| E 14 | 338 49.8 | 342 33.0 | 30.6 | 237 03.5 | 01.2 | 144 44.9 | 28.5 | 16 28.9 | 55.0 | Hadar | 149 09.5 | S60 20.2 |
| S 15 | 353 52.3 | 357 33.4 | 29.4 | 252 06.6 | 01.2 | 159 47.3 | 28.5 | 31 31.0 | 54.9 | Hamal | 328 18.0 | N23 25.9 |
| 16 | 8 54.8 | 12 33.8 | 28.2 | 267 09.6 | 01.2 | 174 49.8 | 28.4 | 46 33.2 | 54.8 | Kaus Aust. | 84 04.3 | S34 23.2 |
| 17 | 23 57.2 | 27 34.3 | 27.0 | 282 12.7 | 01.3 | 189 52.3 | 28.4 | 61 35.4 | 54.7 | | | |
| 18 | 38 59.7 | 42 34.7 | S 0 25.8 | 297 15.8 | N27 01.3 | 204 54.7 | S 4 28.4 | 76 37.5 | S15 54.6 | Kochab | 137 19.4 | N74 10.6 |
| 19 | 54 02.2 | 57 35.1 | 24.6 | 312 18.9 | 01.3 | 219 57.2 | 28.4 | 91 39.7 | 54.6 | Markab | 13 53.8 | N15 10.2 |
| 20 | 69 04.6 | 72 35.6 | 23.4 | 327 21.9 | 01.3 | 234 59.7 | 28.4 | 106 41.9 | 54.5 | Menkar | 314 30.9 | N 4 03.8 |
| 21 | 84 07.1 | 87 36.0 | 22.2 | 342 25.0 | 01.3 | 250 02.1 | 28.4 | 121 44.0 | 54.4 | Menkent | 148 25.5 | S36 20.1 |
| 22 | 99 09.6 | 102 36.5 | 21.0 | 357 28.1 | 01.3 | 265 04.6 | 28.4 | 136 46.2 | 54.3 | Miaplacidus | 221 42.0 | S69 41.4 |
| 23 | 114 12.0 | 117 36.9 | 19.8 | 12 31.1 | 01.3 | 280 07.1 | 28.4 | 151 48.4 | 54.2 | | | |
| 30 00 | 129 14.5 | 132 37.4 | S 0 18.6 | 27 34.2 | N27 01.3 | 295 09.5 | S 4 28.3 | 166 50.5 | S15 54.1 | Mirfak | 309 02.1 | N49 50.5 |
| 01 | 144 16.9 | 147 37.8 | 17.4 | 42 37.3 | 01.3 | 310 12.0 | 28.3 | 181 52.7 | 54.0 | Nunki | 76 17.5 | S26 18.3 |
| 02 | 159 19.4 | 162 38.3 | 16.2 | 57 40.3 | 01.3 | 325 14.5 | 28.3 | 196 54.9 | 53.9 | Peacock | 53 43.6 | S56 45.4 |
| 03 | 174 21.9 | 177 38.7 | 15.0 | 72 43.4 | 01.3 | 340 16.9 | 28.3 | 211 57.0 | 53.8 | Pollux | 243 45.9 | N28 02.5 |
| 04 | 189 24.3 | 192 39.1 | 13.8 | 87 46.5 | 01.3 | 355 19.4 | 28.3 | 226 59.2 | 53.7 | Procyon | 245 15.3 | N 5 14.4 |
| 05 | 204 26.8 | 207 39.6 | 12.6 | 102 49.5 | 01.3 | 10 21.9 | 28.3 | 242 01.4 | 53.6 | | | |
| 06 | 219 29.3 | 222 40.0 | S 0 11.3 | 117 52.6 | N27 01.3 | 25 24.3 | S 4 28.3 | 257 03.6 | S15 53.5 | Rasalhague | 96 20.8 | N12 33.8 |
| 07 | 234 31.7 | 237 40.5 | 10.1 | 132 55.6 | 01.3 | 40 26.8 | 28.2 | 272 05.7 | 53.4 | Regulus | 207 59.3 | N11 59.8 |
| 08 | 249 34.2 | 252 41.0 | 08.9 | 147 58.7 | 01.3 | 55 29.3 | 28.2 | 287 07.9 | 53.4 | Rigel | 281 26.4 | S 8 12.7 |
| S 09 | 264 36.7 | 267 41.4 | 07.7 | 163 01.7 | 01.3 | 70 31.7 | 28.2 | 302 10.1 | 53.3 | Rigel Kent. | 140 12.5 | S60 48.2 |
| A 10 | 279 39.1 | 282 41.9 | 06.5 | 178 04.8 | 01.3 | 85 34.2 | 28.2 | 317 12.2 | 53.2 | Sabik | 102 30.2 | S15 43.0 |
| B 11 | 294 41.6 | 297 42.3 | 05.3 | 193 07.8 | 01.3 | 100 36.7 | 28.2 | 332 14.4 | 53.1 | | | |
| A 12 | 309 44.1 | 312 42.8 | S 0 04.1 | 208 10.9 | N27 01.3 | 115 39.1 | S 4 28.2 | 347 16.6 | S15 53.0 | Schedar | 349 58.2 | N56 30.3 |
| D 13 | 324 46.5 | 327 43.2 | 02.9 | 223 13.9 | 01.3 | 130 41.6 | 28.2 | 2 18.7 | 52.9 | Shaula | 96 42.9 | S37 05.9 |
| O 14 | 339 49.0 | 342 43.7 | 01.7 | 238 17.0 | 01.3 | 145 44.1 | 28.1 | 17 20.9 | 52.8 | Sirius | 258 46.8 | S16 42.6 |
| 15 | 354 51.4 | 357 44.2 | S 0 00.5 | 253 20.0 | 01.3 | 160 46.6 | 28.1 | 32 23.1 | 52.7 | Spica | 158 47.2 | S11 07.6 |
| 16 | 9 53.9 | 12 44.6 | N 0 00.7 | 268 23.1 | 01.3 | 175 49.0 | 28.1 | 47 25.2 | 52.6 | Suhail | 223 03.2 | S43 24.4 |
| 17 | 24 56.4 | 27 45.1 | 01.9 | 283 26.1 | 01.3 | 190 51.5 | 28.1 | 62 27.4 | 52.5 | | | |
| 18 | 39 58.8 | 42 45.5 | N 0 03.1 | 298 29.2 | N27 01.3 | 205 54.0 | S 4 28.1 | 77 29.6 | S15 52.4 | Vega | 80 49.6 | N38 46.5 |
| 19 | 55 01.3 | 57 46.0 | 04.3 | 313 32.2 | 01.3 | 220 56.5 | 28.1 | 92 31.7 | 52.3 | Zuben'ubi | 137 22.3 | S16 00.9 |
| 20 | 70 03.8 | 72 46.5 | 05.5 | 328 35.2 | 01.3 | 235 58.9 | 28.0 | 107 33.9 | 52.2 | | | |
| 21 | 85 06.2 | 87 46.9 | 06.7 | 343 38.3 | 01.3 | 251 01.4 | 28.0 | 122 36.1 | 52.2 | | | |
| | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------|--------|------|--------|------|------|------|------|------------|-------|----------|-----------|------|-----------|------------------|-------|------------|-------|-------|-------|
| | A.H.G. | | A.H.G. | | P.H. | | | Naut. | Civil | | 28 | 29 | 30 | 31 | | | | | |
| | Dec. | Dec. | Dec. | Dec. | d | P.H. | | | | | | | | | | | | | |
| 28 00 | 176 | 46.3 | S18 | 14.8 | 124 | 27.6 | 15.9 | N 6 | 36.8 | 11.1 | 54.2 | N 72 | 07 20 | 08 52 | 10 55 | 08 13 | 07 50 | 07 14 | □ |
| 01 | 191 | 46.2 | | 14.2 | 139 | 02.5 | 15.8 | 6 | 47.9 | 11.2 | 54.2 | N 70 | 07 11 | 08 31 | 10 02 | 08 25 | 08 11 | 07 52 | 07 17 |
| 02 | 206 | 46.1 | | 13.5 | 153 | 37.3 | 15.8 | 6 | 59.1 | 11.1 | 54.2 | 68 | 07 03 | 08 15 | 09 30 | 08 34 | 08 27 | 08 19 | 08 09 |
| 03 | 221 | 46.0 | | 12.9 | 168 | 12.1 | 15.8 | 7 | 10.2 | 11.1 | 54.2 | 66 | 06 57 | 08 01 | 09 07 | 08 42 | 08 41 | 08 40 | 08 41 |
| 04 | 236 | 45.8 | | 12.2 | 182 | 46.9 | 15.7 | 7 | 21.3 | 11.0 | 54.2 | 64 | 06 51 | 07 50 | 08 48 | 08 49 | 08 52 | 08 57 | 09 05 |
| 05 | 251 | 45.7 | | 11.6 | 197 | 21.6 | 15.8 | 7 | 32.3 | 11.1 | 54.2 | 62 | 06 46 | 07 41 | 08 33 | 08 55 | 09 01 | 09 10 | 09 24 |
| 06 | 266 | 45.6 | S18 | 10.9 | 211 | 56.4 | 15.6 | N 7 | 43.4 | 11.0 | 54.2 | 60 | 06 41 | 07 33 | 08 21 | 09 00 | 09 09 | 09 22 | 09 40 |
| 07 | 281 | 45.5 | | 10.2 | 226 | 31.0 | 15.7 | 7 | 54.4 | 11.0 | 54.2 | N 58 | 06 37 | 07 25 | 08 10 | 09 04 | 09 17 | 09 32 | 09 53 |
| 08 | 296 | 45.4 | | 09.6 | 241 | 05.7 | 15.6 | 8 | 05.4 | 10.9 | 54.3 | 56 | 06 33 | 07 19 | 08 00 | 09 08 | 09 23 | 09 41 | 10 05 |
| 09 | 311 | 45.2 | | 08.9 | 255 | 40.3 | 15.6 | 8 | 16.3 | 10.9 | 54.3 | 54 | 06 30 | 07 13 | 07 52 | 09 12 | 09 29 | 09 49 | 10 15 |
| 10 | 326 | 45.1 | | 08.3 | 270 | 14.9 | 15.5 | 8 | 27.2 | 10.9 | 54.3 | 52 | 06 27 | 07 08 | 07 45 | 09 15 | 09 34 | 09 56 | 10 24 |
| 11 | 341 | 45.0 | | 07.6 | 284 | 49.4 | 15.5 | 8 | 38.1 | 10.9 | 54.3 | 50 | 06 24 | 07 03 | 07 38 | 09 18 | 09 39 | 10 03 | 10 32 |
| 12 | 356 | 44.9 | S18 | 06.9 | 299 | 23.9 | 15.5 | N 8 | 49.0 | 10.8 | 54.3 | 45 | 06 16 | 06 52 | 07 23 | 09 25 | 09 49 | 10 17 | 10 50 |
| 13 | 11 | 44.8 | | 06.3 | 313 | 58.4 | 15.4 | 8 | 59.8 | 10.9 | 54.3 | N 40 | 06 10 | 06 42 | 07 11 | 09 30 | 09 58 | 10 28 | 11 04 |
| 14 | 26 | 44.7 | | 05.6 | 328 | 32.8 | 15.4 | 9 | 10.7 | 10.7 | 54.3 | 35 | 06 04 | 06 34 | 07 01 | 09 35 | 10 05 | 10 38 | 11 16 |
| 15 | 41 | 44.6 | | 04.9 | 343 | 07.2 | 15.3 | 9 | 21.4 | 10.8 | 54.3 | 30 | 05 58 | 06 27 | 06 52 | 09 39 | 10 11 | 10 47 | 11 26 |
| 16 | 56 | 44.4 | | 04.3 | 357 | 41.5 | 15.3 | 9 | 32.2 | 10.7 | 54.4 | 20 | 05 47 | 06 13 | 06 36 | 09 47 | 10 23 | 11 02 | 11 45 |
| 17 | 71 | 44.3 | | 03.6 | 12 | 15.8 | 15.3 | 9 | 42.9 | 10.6 | 54.4 | N 10 | 05 35 | 06 01 | 06 23 | 09 53 | 10 33 | 11 15 | 12 01 |
| 18 | 86 | 44.2 | S18 | 02.9 | 26 | 50.1 | 15.2 | N 9 | 53.5 | 10.7 | 54.4 | 0 | 05 23 | 05 48 | 06 10 | 09 59 | 10 42 | 11 27 | 12 16 |
| 19 | 101 | 44.1 | | 02.3 | 41 | 24.3 | 15.2 | 10 | 04.2 | 10.6 | 54.4 | S 10 | 05 08 | 05 34 | 05 57 | 10 06 | 10 52 | 11 40 | 12 31 |
| 20 | 116 | 44.0 | | 01.6 | 55 | 58.5 | 15.1 | 10 | 14.8 | 10.6 | 54.4 | 20 | 04 51 | 05 19 | 05 42 | 10 12 | 11 02 | 11 53 | 12 47 |
| 21 | 131 | 43.9 | | 00.9 | 70 | 32.6 | 15.1 | 10 | 25.4 | 10.5 | 54.4 | 30 | 04 29 | 05 00 | 05 26 | 10 20 | 11 13 | 12 09 | 13 06 |
| 22 | 146 | 43.8 | | 00.3 | 85 | 06.7 | 15.0 | 10 | 35.9 | 10.5 | 54.4 | 35 | 04 15 | 04 49 | 05 16 | 10 24 | 11 20 | 12 18 | 13 17 |
| 23 | 161 | 43.6 | | 00.3 | 99 | 40.7 | 15.0 | 10 | 46.4 | 10.4 | 54.5 | 40 | 03 58 | 04 35 | 05 05 | 10 29 | 11 28 | 12 28 | 13 29 |
| 29 00 | 176 | 43.5 | S17 | 58.9 | 114 | 14.7 | 15.0 | N10 | 56.8 | 10.4 | 54.5 | 45 | 03 36 | 04 19 | 04 52 | 10 35 | 11 37 | 12 40 | 13 44 |
| 01 | 191 | 43.4 | | 58.3 | 128 | 48.7 | 14.9 | 11 | 07.2 | 10.4 | 54.5 | S 50 | 03 07 | 03 58 | 04 36 | 10 42 | 11 48 | 12 55 | 14 02 |
| 02 | 206 | 43.3 | | 57.6 | 143 | 22.6 | 14.8 | 11 | 17.6 | 10.4 | 54.5 | 52 | 02 52 | 03 48 | 04 29 | 10 46 | 11 53 | 13 02 | 14 11 |
| 03 | 221 | 43.2 | | 56.9 | 157 | 56.4 | 14.8 | 11 | 28.0 | 10.3 | 54.5 | 54 | 02 34 | 03 36 | 04 21 | 10 49 | 11 59 | 13 10 | 14 21 |
| 04 | 236 | 43.1 | | 56.3 | 172 | 30.2 | 14.7 | 11 | 38.3 | 10.2 | 54.5 | 56 | 02 11 | 03 23 | 04 11 | 10 53 | 12 05 | 13 18 | 14 32 |
| 05 | 251 | 43.0 | | 55.6 | 187 | 03.9 | 14.7 | 11 | 48.5 | 10.2 | 54.6 | 58 | 01 39 | 03 07 | 04 01 | 10 58 | 12 12 | 13 28 | 14 44 |
| 06 | 266 | 42.9 | S17 | 54.9 | 201 | 37.6 | 14.6 | N11 | 58.7 | 10.2 | 54.6 | S 60 | 00 22 | 02 48 | 03 48 | 11 03 | 12 20 | 13 39 | 14 59 |
| 07 | 281 | 42.8 | | 54.2 | 216 | 11.2 | 14.6 | 12 | 08.9 | 10.1 | 54.6 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| 08 | 296 | 42.7 | | 53.6 | 230 | 44.8 | 14.6 | 12 | 19.0 | 10.1 | 54.6 | 28 | 29 | 30 | 31 | | | | |
| 09 | 311 | 42.5 | | 52.9 | 245 | 18.4 | 14.4 | 12 | 29.1 | 10.0 | 54.6 | N 72 | 13 33 | 15 36 | 17 08 | 24 51 | 00 51 | 03 00 | □ |
| 10 | 326 | 42.4 | | 52.2 | 259 | 51.8 | 14.4 | 12 | 39.1 | 10.0 | 54.6 | N 70 | 14 25 | 15 57 | 17 17 | 24 32 | 00 32 | 02 23 | 04 36 |
| 11 | 341 | 42.3 | | 51.5 | 274 | 25.2 | 14.4 | 12 | 49.1 | 10.0 | 54.7 | 68 | 14 57 | 16 13 | 17 24 | 24 17 | 00 17 | 01 57 | 03 45 |
| 12 | 356 | 42.2 | S17 | 50.9 | 288 | 58.6 | 14.3 | N12 | 59.1 | 9.8 | 54.7 | 66 | 15 21 | 16 26 | 17 31 | 24 05 | 00 05 | 01 37 | 03 14 |
| 13 | 11 | 42.1 | | 50.2 | 303 | 31.9 | 14.2 | 13 | 08.9 | 9.9 | 54.7 | 64 | 15 39 | 16 37 | 17 36 | 23 55 | 25 22 | 01 22 | 02 50 |
| 14 | 26 | 42.0 | | 49.5 | 318 | 05.1 | 14.2 | 13 | 18.8 | 9.8 | 54.7 | 62 | 15 54 | 16 46 | 17 41 | 23 47 | 25 09 | 01 09 | 02 32 |
| 15 | 41 | 41.9 | | 48.8 | 332 | 38.3 | 14.1 | 13 | 28.6 | 9.7 | 54.7 | 60 | 16 06 | 16 55 | 17 46 | 23 39 | 24 58 | 00 58 | 02 17 |
| 16 | 56 | 41.8 | | 48.1 | 347 | 11.4 | 14.1 | 13 | 38.3 | 9.7 | 54.8 | N 58 | 16 17 | 17 02 | 17 50 | 23 33 | 24 48 | 00 48 | 02 04 |
| 17 | 71 | 41.7 | | 47.5 | 1 | 44.5 | 14.0 | 13 | 48.0 | 9.7 | 54.8 | 56 | 16 27 | 17 08 | 17 54 | 23 27 | 24 40 | 00 40 | 01 53 |
| 18 | 86 | 41.6 | S17 | 46.8 | 16 | 17.5 | 13.9 | N13 | 57.7 | 9.6 | 54.8 | 54 | 16 35 | 17 14 | 17 57 | 23 22 | 24 32 | 00 32 | 01 43 |
| 19 | 101 | 41.5 | | 46.1 | 30 | 50.4 | 13.9 | 14 | 07.3 | 9.5 | 54.8 | 52 | 16 42 | 17 19 | 18 00 | 23 18 | 24 26 | 00 26 | 01 35 |
| 20 | 116 | 41.4 | | 45.4 | 45 | 23.3 | 13.8 | 14 | 16.8 | 9.5 | 54.8 | 50 | 16 49 | 17 24 | 18 03 | 23 14 | 24 20 | 00 20 | 01 27 |
| 21 | 131 | 41.3 | | 44.7 | 59 | 56.1 | 13.8 | 14 | 26.3 | 9.4 | 54.9 | 45 | 17 04 | 17 35 | 18 11 | 23 05 | 24 07 | 00 07 | 01 11 |
| 22 | 146 | 41.2 | | 44.1 | 74 | 28.9 | 13.7 | 14 | 35.7 | 9.4 | 54.9 | N 40 | 17 15 | 17 44 | 18 17 | 22 57 | 23 57 | 24 57 | 00 57 |
| 23 | 161 | 41.1 | | 43.4 | 89 | 01.6 | 13.6 | 14 | 45.1 | 9.3 | 54.9 | 35 | 17 26 | 17 52 | 18 23 | 22 51 | 23 48 | 24 46 | 00 46 |
| 30 00 | 176 | 41.0 | S17 | 42.7 | 103 | 34.2 | 13.5 | N14 | 54.4 | 9.3 | 54.9 | 30 | 17 35 | 18 00 | 18 29 | 22 46 | 23 40 | 24 36 | 00 36 |
| 01 | 191 | 40.9 | | 42.0 | 118 | 06.7 | 13.5 | 15 | 03.7 | 9.2 | 55.0 | 20 | 17 50 | 18 13 | 18 40 | 22 36 | 23 26 | 24 19 | 00 19 |
| 02 | 206 | 40.8 | | 41.3 | 132 | 39.2 | 13.4 | 15 | 12.9 | 9.1 | 55.0 | N 10 | 18 04 | 18 26 | 18 51 | 22 28 | 23 15 | 24 04 | 00 04 |
| 03 | 221 | 40.7 | | 40.7 | 147 | 11.6 | 13.4 | 15 | 22.0 | 9.1 | 55.0 | 0 | 18 17 | 18 38 | 19 04 | 22 20 | 23 04 | 23 50 | 24 40 |
| 04 | 236 | 40.6 | | 40.0 | 161 | 44.0 | 13.2 | 15 | 31.1 | 9.0 | 55.0 | S 10 | 18 30 | 18 52 | 19 18 | 22 12 | 22 53 | 23 36 | 24 24 |
| 05 | 251 | 40.5 | | 39.3 | 176 | 16.2 | 13.3 | 15 | 40.1 | 9.0 | 55.0 | 20 | 18 44 | 19 07 | 19 35 | 22 04 | 22 41 | 23 22 | 24 07 |
| 06 | 266 | 40.4 | S17 | 38.6 | 190 | 48.5 | 13.1 | N15 | 49.1 | 8.9 | 55.1 | 30 | 19 00 | 19 26 | 19 57 | 21 54 | 22 28 | 23 05 | 23 47 |
| 07 | 281 | 40.3 | | 37.9 | 205 | 20.6 | 13.1 | 15 | 58.0 | 8.8 | 55.1 | 35 | 19 09 | 19 37 | 20 11 | 21 49 | 22 20 | 22 55 | 23 36 |
| 08 | 296 | 40.2 | | 37.2 | 219 | 52.7 | 12.9 | 16 | 06.8 | 8.8 | 55.1 | 40 | 19 20 | 19 51 | 20 28 | 21 43 | 22 11 | 22 44 | 23 22 |
| 09 | 311 | 40.1 | | 36.5 | 234 | 24.6 | 13.0 | 16 | 15.6 | 8.7 | 55.1 | 45 | 19 33 | 20 07 | 20 49 | 21 35 | 22 01 | 22 31 | 23 07 |
| 10 | 326 | 40.0 | | 35.8 | 248 | 56.6 | 12.8 | 16 | 24.3 | 8.6 | 55.2 | S 50 | 19 49 | 20 27 | 21 18 | 21 27 | 21 49 | 22 15 | 22 48 |
| 11 | 341 | 39.9 | | 35.2 | 263 | 28.4 | 12.8 | 16 | 32.9 | 8.6 | 55.2 | 52 | 19 56 | 20 37 | 21 33 | 21 23 | 21 43 | 22 08 | 22 39 |
| 12 | 356 | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE -0.9 | | | JUPITER -2.2 | | | SATURNO +0.7 | | | ESTRELLAS | | | |
|----------------|-------|------|------|------------|--------|----------|------------|--------|----------|--------------|--------|----------|--------------|--------|----------|-------------|----------|------|----------|
| | d | h | | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | |
| 31 | 00 | 130 | 13.6 | 132 | 48.3 | N 0 10.3 | 28 | 47.4 | N27 01.3 | 296 | 08.8 | S 4 28.0 | 167 | 42.6 | S15 51.9 | Acamar | 315 | 29.8 | S40 20.2 |
| | 01 | 145 | 16.1 | 147 | 48.8 | 11.5 | 43 | 50.4 | 01.3 | 311 | 11.3 | 28.0 | 182 | 44.8 | 51.8 | Achernar | 335 | 38.1 | S57 16.5 |
| | 02 | 160 | 18.5 | 162 | 49.3 | 12.7 | 58 | 53.4 | 01.3 | 326 | 13.8 | 28.0 | 197 | 46.9 | 51.7 | AcruX | 173 | 26.0 | S63 03.6 |
| | 03 | 175 | 21.0 | 177 | 49.8 | 13.9 | 73 | 56.4 | 01.3 | 341 | 16.2 | 27.9 | 212 | 49.1 | 51.6 | Adhara | 255 | 24.1 | S28 58.0 |
| | 04 | 190 | 23.5 | 192 | 50.2 | 15.1 | 88 | 59.5 | 01.2 | 356 | 18.7 | 27.9 | 227 | 51.3 | 51.5 | Aldebaran | 291 | 06.7 | N16 29.8 |
| | 05 | 205 | 25.9 | 207 | 50.7 | 16.3 | 104 | 02.5 | 01.2 | 11 | 21.2 | 27.9 | 242 | 53.4 | 51.4 | | | | |
| | 06 | 220 | 28.4 | 222 | 51.2 | N 0 17.5 | 119 | 05.5 | N27 01.2 | 26 | 23.7 | S 4 27.9 | 257 | 55.6 | S15 51.3 | Alioth | 166 | 33.6 | N55 59.4 |
| | 07 | 235 | 30.9 | 237 | 51.7 | 18.7 | 134 | 08.5 | 01.2 | 41 | 26.2 | 27.9 | 272 | 57.8 | 51.2 | Alkaid | 153 | 10.7 | N49 20.5 |
| | 08 | 250 | 33.3 | 252 | 52.2 | 19.9 | 149 | 11.6 | 01.2 | 56 | 28.6 | 27.9 | 287 | 59.9 | 51.1 | Al Na'ir | 28 | 03.1 | S46 59.7 |
| | 09 | 265 | 35.8 | 267 | 52.6 | 21.1 | 164 | 14.6 | 01.2 | 71 | 31.1 | 27.8 | 303 | 02.1 | 51.0 | Alnilam | 276 | 01.6 | S 1 12.5 |
| | 10 | 280 | 38.3 | 282 | 53.1 | 22.3 | 179 | 17.6 | 01.2 | 86 | 33.6 | 27.8 | 318 | 04.3 | 51.0 | Alphard | 218 | 10.7 | S 8 37.9 |
| | 11 | 295 | 40.7 | 297 | 53.6 | 23.5 | 194 | 20.6 | 01.2 | 101 | 36.1 | 27.8 | 333 | 06.4 | 50.9 | | | | |
| | 12 | 310 | 43.2 | 312 | 54.1 | N 0 24.7 | 209 | 23.6 | N27 01.2 | 116 | 38.5 | S 4 27.8 | 348 | 08.6 | S15 50.8 | Alphecca | 126 | 23.9 | N26 44.0 |
| | 13 | 325 | 45.7 | 327 | 54.6 | 25.9 | 224 | 26.6 | 01.2 | 131 | 41.0 | 27.8 | 3 | 10.8 | 50.7 | Alpheratz | 357 | 59.5 | N29 03.3 |
| | 14 | 340 | 48.1 | 342 | 55.0 | 27.1 | 239 | 29.6 | 01.2 | 146 | 43.5 | 27.7 | 18 | 12.9 | 50.6 | Altair | 62 | 23.4 | N 8 51.0 |
| | 15 | 355 | 50.6 | 357 | 55.5 | 28.3 | 254 | 32.6 | 01.2 | 161 | 46.0 | 27.7 | 33 | 15.1 | 50.5 | Ankaa | 353 | 30.9 | S42 20.8 |
| | 16 | 10 | 53.0 | 12 | 56.0 | 29.5 | 269 | 35.6 | 01.2 | 176 | 48.5 | 27.7 | 48 | 17.3 | 50.4 | Antares | 112 | 45.1 | S26 25.0 |
| | 17 | 25 | 55.5 | 27 | 56.5 | 30.7 | 284 | 38.6 | 01.2 | 191 | 50.9 | 27.7 | 63 | 19.5 | 50.3 | | | | |
| | 18 | 40 | 58.0 | 42 | 57.0 | N 0 31.9 | 299 | 41.7 | N27 01.2 | 206 | 53.4 | S 4 27.7 | 78 | 21.6 | S15 50.2 | Arcturus | 146 | 09.5 | N19 12.8 |
| | 19 | 56 | 00.4 | 57 | 57.5 | 33.1 | 314 | 44.7 | 01.2 | 221 | 55.9 | 27.7 | 93 | 23.8 | 50.1 | Atria | 108 | 00.9 | S69 00.7 |
| | 20 | 71 | 02.9 | 72 | 58.0 | 34.2 | 329 | 47.7 | 01.1 | 236 | 58.4 | 27.6 | 108 | 26.0 | 50.0 | Avior | 234 | 23.6 | S59 29.4 |
| | 21 | 86 | 05.4 | 87 | 58.5 | 35.4 | 344 | 50.7 | 01.1 | 252 | 00.9 | 27.6 | 123 | 28.1 | 49.9 | Bellatrix | 278 | 48.1 | N 6 20.6 |
| | 22 | 101 | 07.8 | 102 | 59.0 | 36.6 | 359 | 53.6 | 01.1 | 267 | 03.3 | 27.6 | 138 | 30.3 | 49.8 | Betelgeuse | 271 | 17.5 | N 7 24.3 |
| 23 | 116 | 10.3 | 117 | 59.5 | 37.8 | 14 | 56.6 | 01.1 | 282 | 05.8 | 27.6 | 153 | 32.5 | 49.8 | | | | | |
| 1 | 00 | 131 | 12.8 | 133 | 00.0 | N 0 39.0 | 29 | 59.6 | N27 01.1 | 297 | 08.3 | S 4 27.6 | 168 | 34.6 | S15 49.7 | Canopus | 264 | 02.4 | S52 41.7 |
| | 01 | 146 | 15.2 | 148 | 00.5 | 40.2 | 45 | 02.6 | 01.1 | 312 | 10.8 | 27.5 | 183 | 36.8 | 49.6 | Capella | 280 | 56.6 | N45 59.6 |
| | 02 | 161 | 17.7 | 163 | 01.0 | 41.4 | 60 | 05.6 | 01.1 | 327 | 13.3 | 27.5 | 198 | 39.0 | 49.5 | Deneb | 49 | 42.3 | N45 15.4 |
| | 03 | 176 | 20.2 | 178 | 01.5 | 42.6 | 75 | 08.6 | 01.1 | 342 | 15.7 | 27.5 | 213 | 41.1 | 49.4 | Denebola | 182 | 48.9 | N14 36.4 |
| | 04 | 191 | 22.6 | 193 | 02.0 | 43.8 | 90 | 11.6 | 01.1 | 357 | 18.2 | 27.5 | 228 | 43.3 | 49.3 | Diphda | 349 | 11.3 | S18 01.5 |
| | 05 | 206 | 25.1 | 208 | 02.5 | 45.0 | 105 | 14.6 | 01.1 | 12 | 20.7 | 27.5 | 243 | 45.5 | 49.2 | | | | |
| | 06 | 221 | 27.5 | 223 | 03.0 | N 0 46.2 | 120 | 17.6 | N27 01.1 | 27 | 23.2 | S 4 27.4 | 258 | 47.6 | S15 49.1 | Dubhe | 194 | 09.6 | N61 47.0 |
| | 07 | 236 | 30.0 | 238 | 03.5 | 47.4 | 135 | 20.5 | 01.0 | 42 | 25.7 | 27.4 | 273 | 49.8 | 49.0 | Elmath | 278 | 31.6 | N28 36.1 |
| | 08 | 251 | 32.5 | 253 | 04.0 | 48.6 | 150 | 23.5 | 01.0 | 57 | 28.2 | 27.4 | 288 | 52.0 | 48.9 | Eltanin | 90 | 53.6 | N51 29.2 |
| | 09 | 266 | 34.9 | 268 | 04.5 | 49.8 | 165 | 26.5 | 01.0 | 72 | 30.7 | 27.4 | 303 | 54.1 | 48.8 | Enif | 34 | 02.4 | N 9 50.6 |
| | 10 | 281 | 37.4 | 283 | 05.0 | 51.0 | 180 | 29.5 | 01.0 | 87 | 33.1 | 27.4 | 318 | 56.3 | 48.7 | Fomalhaut | 15 | 41.0 | S29 39.6 |
| | 11 | 296 | 39.9 | 298 | 05.5 | 52.2 | 195 | 32.5 | 01.0 | 102 | 35.6 | 27.3 | 333 | 58.5 | 48.6 | | | | |
| | 12 | 311 | 42.3 | 313 | 06.0 | N 0 53.3 | 210 | 35.4 | N27 01.0 | 117 | 38.1 | S 4 27.3 | 349 | 00.6 | S15 48.5 | Gacrux | 172 | 17.6 | S57 04.4 |
| | 13 | 326 | 44.8 | 328 | 06.5 | 54.5 | 225 | 38.4 | 01.0 | 132 | 40.6 | 27.3 | 4 | 02.8 | 48.5 | Gienah | 176 | 07.8 | S17 30.3 |
| | 14 | 341 | 47.3 | 343 | 07.0 | 55.7 | 240 | 41.4 | 01.0 | 147 | 43.1 | 27.3 | 19 | 05.0 | 48.4 | Hadar | 149 | 09.5 | S60 20.2 |
| | 15 | 356 | 49.7 | 358 | 07.6 | 56.9 | 255 | 44.4 | 01.0 | 162 | 45.6 | 27.3 | 34 | 07.1 | 48.3 | Hamal | 328 | 18.0 | N23 25.9 |
| | 16 | 11 | 52.2 | 13 | 08.1 | 58.1 | 270 | 47.3 | 00.9 | 177 | 48.1 | 27.2 | 49 | 09.3 | 48.2 | Kaus Aust. | 84 | 04.3 | S34 23.2 |
| | 17 | 26 | 54.6 | 28 | 08.6 | 0 59.3 | 285 | 50.3 | 00.9 | 192 | 50.5 | 27.2 | 64 | 11.5 | 48.1 | | | | |
| | 18 | 41 | 57.1 | 43 | 09.1 | N 1 00.5 | 300 | 53.3 | N27 00.9 | 207 | 53.0 | S 4 27.2 | 79 | 13.7 | S15 48.0 | Kochab | 137 | 19.3 | N74 10.6 |
| | 19 | 56 | 59.6 | 58 | 09.6 | 01.7 | 315 | 56.2 | 00.9 | 222 | 55.5 | 27.2 | 94 | 15.8 | 47.9 | Markab | 13 | 53.8 | N15 10.2 |
| | 20 | 72 | 02.0 | 73 | 10.1 | 02.9 | 330 | 59.2 | 00.9 | 237 | 58.0 | 27.1 | 109 | 18.0 | 47.8 | Menkar | 314 | 30.9 | N 4 03.8 |
| | 21 | 87 | 04.5 | 88 | 10.7 | 04.1 | 346 | 02.1 | 00.9 | 253 | 00.5 | 27.1 | 124 | 20.2 | 47.7 | Menkent | 148 | 25.5 | S36 20.1 |
| | 22 | 102 | 07.0 | 103 | 11.2 | 05.3 | 1 | 05.1 | 00.9 | 268 | 03.0 | 27.1 | 139 | 22.3 | 47.6 | Miaplacidus | 221 | 42.0 | S69 41.4 |
| 23 | 117 | 09.4 | 118 | 11.7 | 06.4 | 16 | 08.1 | 00.8 | 283 | 05.5 | 27.1 | 154 | 24.5 | 47.5 | | | | | |
| 2 | 00 | 132 | 11.9 | 133 | 12.2 | N 1 07.6 | 31 | 11.0 | N27 00.3 | 298 | 08.0 | S 4 27.1 | 169 | 26.7 | S15 47.4 | Mirfak | 309 | 02.1 | N49 50.5 |
| | 01 | 147 | 14.4 | 148 | 12.8 | 08.8 | 46 | 14.0 | 00.3 | 313 | 10.4 | 27.0 | 184 | 28.8 | 47.3 | Nunki | 76 | 17.4 | S26 18.3 |
| | 02 | 162 | 16.8 | 163 | 13.3 | 10.0 | 61 | 16.9 | 00.3 | 328 | 12.9 | 27.0 | 199 | 31.0 | 47.2 | Peacock | 53 | 43.6 | S56 45.4 |
| | 03 | 177 | 19.3 | 178 | 13.8 | 11.2 | 76 | 19.9 | 00.8 | 343 | 15.4 | 27.0 | 214 | 33.2 | 47.2 | Pollux | 243 | 45.9 | N28 02.5 |
| | 04 | 192 | 21.8 | 193 | 14.3 | 12.4 | 91 | 22.8 | 00.8 | 358 | 17.9 | 27.0 | 229 | 35.3 | 47.1 | Procyon | 245 | 15.3 | N 5 14.4 |
| | 05 | 207 | 24.2 | 208 | 14.9 | 13.6 | 106 | 25.8 | 00.8 | 13 | 20.4 | 26.9 | 244 | 37.5 | 47.0 | | | | |
| | 06 | 222 | 26.7 | 223 | 15.4 | N 1 14.8 | 121 | 28.7 | N27 00.7 | 28 | 22.9 | S 4 26.9 | 259 | 39.7 | S15 46.9 | Rasalhague | 96 | 20.8 | N12 33.8 |
| | 07 | 237 | 29.1 | 238 | 15.9 | 16.0 | 136 | 31.7 | 00.7 | 43 | 25.4 | 26.9 | 274 | 41.8 | 46.8 | Regulus | 207 | 59.3 | N11 59.8 |
| | 08 | 252 | 31.6 | 253 | 16.5 | 17.1 | 151 | 34.6 | 00.7 | 58 | 27.9 | 26.9 | 289 | 44.0 | 46.7 | Rigel | 281 | 26.5 | S 8 12.7 |
| | 09 | 267 | 34.1 | 268 | 17.0 | 18.3 | 166 | 37.6 | 00.7 | 73 | 30.4 | 26.8 | 304 | 46.2 | 46.6 | Rigel Kent. | 140 | 12.5 | S60 48.2 |
| | 10 | 282 | 36.5 | 283 | 17.5 | 19.5 | 181 | 40.5 | 00.7 | 88 | 32.9 | 26.8 | 319 | 48.3 | 46.5 | Sabik | 102 | 30.2 | S15 43.0 |
| | 11 | 297 | 39.0 | 298 | 18.1 | 20.7 | 196 | 43.4 | 00.7 | 103 | 35.4 | 26.8 | 334 | 50.5 | 46.4 | | | | |
| | 12 | 312 | 41.5 | 313 | 18.6 | N 1 21.9 | 211 | 46.4 | N27 00.6 | 118 | 37.9 | S 4 26.8 | 349 | 52.7 | S15 46.3 | Schedar | 349 | 58.3 | N56 30.3 |
| | 13 | 327 | 43.9 | 328 | 19.2 | 23.1 | 226 | 49.3 | 00.6 | 133 | 40.3 | 26.8 | 4 | 54.8 | 46.2 | Shaula | 96 | 42.8 | S37 05.9 |
| | 14 | 342 | 46.4 | 343 | 19.7 | 24.3 | 241 | 52.3 | 00.6 | 148 | 42.8 | 26.7 | 19 | 57.0 | 46.1 | Sirius | 258 | 46.8 | S16 42.6 |
| | 15 | 357 | 48.9 | 358 | 20.2 | 25.4 | 256 | 55.2 | 00.6 | 163 | 45.3 | 26.7 | 34 | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|----------------|----------|----------|----------|----------|---------|----------|----------|------------|-----------|------------------|-----------|------------|-----------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 31 | 1 | 2 | 3 |
| | | | | | | | | | | | | h m | h m | h m | h m |
| DOMINGO | 31 00 | 176 38.6 | S17 26.2 | 92 15.6 | 11.7 | N18 18.8 | 7.6 55.5 | N 72 | 07 09 | 08 38 | 10 27 | □ | □ | □ | □ |
| | 01 | 191 38.5 | 25.5 | 106 46.3 | 11.7 | 18 26.4 | 7.6 55.6 | N 70 | 07 02 | 08 20 | 09 45 | 07 17 | □ | □ | □ |
| | 02 | 206 38.4 | 24.8 | 121 17.0 | 11.6 | 18 34.0 | 7.4 55.6 | 68 | 06 55 | 08 05 | 09 17 | 08 09 | 07 47 | □ | □ |
| | 03 | 221 38.3 | 24.1 | 135 47.6 | 11.6 | 18 41.4 | 7.4 55.6 | 66 | 06 49 | 07 53 | 08 56 | 08 41 | 08 47 | 09 08 | 10 09 |
| | 04 | 236 38.2 | 23.4 | 150 18.2 | 11.4 | 18 48.8 | 7.3 55.7 | 64 | 06 44 | 07 43 | 08 39 | 09 05 | 09 22 | 09 54 | 10 55 |
| | 05 | 251 38.1 | 22.7 | 164 48.6 | 11.4 | 18 56.1 | 7.2 55.7 | 62 | 06 40 | 07 34 | 08 26 | 09 24 | 09 47 | 10 24 | 11 25 |
| | 06 | 266 38.1 | S17 22.0 | 179 19.0 | 11.3 | N19 03.3 | 7.1 55.7 | 60 | 06 36 | 07 27 | 08 14 | 09 40 | 10 07 | 10 47 | 11 47 |
| | 07 | 281 38.0 | 21.3 | 193 49.3 | 11.2 | 19 10.4 | 7.1 55.8 | N 58 | 06 32 | 07 20 | 08 04 | 09 53 | 10 23 | 11 06 | 12 06 |
| | 08 | 296 37.9 | 20.6 | 208 19.5 | 11.1 | 19 17.5 | 6.9 55.8 | 56 | 06 29 | 07 14 | 07 55 | 10 05 | 10 37 | 11 21 | 12 21 |
| | 09 | 311 37.8 | 19.9 | 222 49.6 | 11.0 | 19 24.4 | 6.9 55.8 | 54 | 06 26 | 07 08 | 07 47 | 10 15 | 10 49 | 11 35 | 12 34 |
| | 10 | 326 37.7 | 19.2 | 237 19.6 | 11.0 | 19 31.3 | 6.8 55.9 | 52 | 06 23 | 07 03 | 07 40 | 10 24 | 11 00 | 11 46 | 12 46 |
| | 11 | 341 37.6 | 18.5 | 251 49.6 | 10.8 | 19 38.1 | 6.6 55.9 | 50 | 06 20 | 06 59 | 07 34 | 10 32 | 11 09 | 11 57 | 12 56 |
| | 12 | 356 37.5 | S17 17.8 | 266 19.4 | 10.8 | N19 44.7 | 6.6 55.9 | 45 | 06 14 | 06 49 | 07 20 | 10 50 | 11 30 | 12 19 | 13 18 |
| | 13 | 11 37.4 | 17.1 | 280 49.2 | 10.7 | 19 51.3 | 6.5 55.9 | N 40 | 06 08 | 06 40 | 07 09 | 11 04 | 11 46 | 12 36 | 13 35 |
| | 14 | 26 37.3 | 16.4 | 295 18.9 | 10.6 | 19 57.8 | 6.5 56.0 | 35 | 06 02 | 06 32 | 06 59 | 11 16 | 12 00 | 12 51 | 13 50 |
| | 15 | 41 37.2 | 15.7 | 309 48.5 | 10.6 | 20 04.3 | 6.3 56.0 | 30 | 05 57 | 06 25 | 06 50 | 11 26 | 12 12 | 13 04 | 14 03 |
| | 16 | 56 37.2 | 15.0 | 324 18.1 | 10.4 | 20 10.6 | 6.2 56.0 | 20 | 05 46 | 06 13 | 06 36 | 11 45 | 12 33 | 13 26 | 14 24 |
| | 17 | 71 37.1 | 14.2 | 338 47.5 | 10.4 | 20 16.8 | 6.1 56.1 | N 20 | 05 35 | 06 01 | 06 22 | 12 01 | 12 51 | 13 45 | 14 43 |
| | 18 | 86 37.0 | S17 13.5 | 353 16.9 | 10.3 | N20 22.9 | 6.1 56.1 | 0 | 05 23 | 05 48 | 06 10 | 12 16 | 13 08 | 14 03 | 15 01 |
| | 19 | 101 36.9 | 12.8 | 7 46.2 | 10.2 | 20 29.0 | 5.9 56.1 | S 10 | 05 10 | 05 36 | 05 58 | 12 31 | 13 25 | 14 21 | 15 18 |
| | 20 | 116 36.8 | 12.1 | 22 15.4 | 10.1 | 20 34.9 | 5.8 56.2 | 20 | 04 53 | 05 21 | 05 44 | 12 47 | 13 43 | 14 40 | 15 37 |
| | 21 | 131 36.7 | 11.4 | 36 44.5 | 10.0 | 20 40.7 | 5.8 56.2 | 30 | 04 32 | 05 03 | 05 29 | 13 06 | 14 04 | 15 02 | 15 59 |
| | 22 | 146 36.6 | 10.7 | 51 13.5 | 10.0 | 20 46.5 | 5.6 56.3 | 35 | 04 19 | 04 52 | 05 19 | 13 17 | 14 16 | 15 15 | 16 11 |
| 23 | 161 36.5 | 10.0 | 65 42.5 | 9.8 | 20 52.1 | 5.5 56.3 | 40 | 04 02 | 04 39 | 05 09 | 13 29 | 14 30 | 15 30 | 16 26 | |
| LUNES | 1 00 | 176 36.5 | S17 09.3 | 80 11.3 | 9.8 | N20 57.6 | 5.5 56.3 | 45 | 03 42 | 04 23 | 04 57 | 13 44 | 14 47 | 15 48 | 16 43 |
| | 01 | 191 36.4 | 08.6 | 94 40.1 | 9.7 | 21 03.1 | 5.3 56.4 | S 50 | 03 14 | 04 04 | 04 42 | 14 02 | 15 08 | 16 10 | 17 05 |
| | 02 | 206 36.3 | 07.9 | 109 08.8 | 9.6 | 21 08.4 | 5.2 56.4 | 52 | 03 00 | 03 54 | 04 35 | 14 11 | 15 18 | 16 21 | 17 15 |
| | 03 | 221 36.2 | 07.2 | 123 37.4 | 9.5 | 21 13.6 | 5.1 56.4 | 54 | 02 43 | 03 43 | 04 27 | 14 21 | 15 30 | 16 33 | 17 26 |
| | 04 | 236 36.1 | 06.5 | 138 05.9 | 9.5 | 21 18.7 | 5.0 56.5 | 56 | 02 22 | 03 31 | 04 18 | 14 32 | 15 42 | 16 46 | 17 39 |
| | 05 | 251 36.0 | 05.8 | 152 34.4 | 9.3 | 21 23.7 | 4.9 56.5 | 58 | 01 55 | 03 16 | 04 08 | 14 44 | 15 57 | 17 02 | 17 55 |
| | 06 | 266 36.0 | S17 05.0 | 167 02.7 | 9.3 | N21 28.6 | 4.8 56.5 | S 60 | 01 10 | 02 58 | 03 56 | 14 59 | 16 15 | 17 22 | 18 13 |
| | 07 | 281 35.9 | 04.3 | 181 31.0 | 9.2 | 21 33.4 | 4.7 56.6 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| | 08 | 296 35.8 | 03.6 | 195 59.2 | 9.1 | 21 38.1 | 4.6 56.6 | 31 | h m | h m | h m | 31 | 1 | 2 | 3 |
| | 09 | 311 35.7 | 02.9 | 210 27.3 | 9.1 | 21 42.7 | 4.4 56.6 | N 72 | 14 02 | 15 50 | 17 19 | h m | h m | h m | h m |
| | 10 | 326 35.6 | 02.2 | 224 55.4 | 8.9 | 21 47.1 | 4.4 56.7 | N 70 | 14 43 | 16 09 | 17 27 | 04 36 | □ | □ | □ |
| | 11 | 341 35.5 | 01.5 | 239 23.3 | 8.9 | 21 51.5 | 4.2 56.7 | 68 | 15 11 | 16 23 | 17 34 | 03 45 | 05 53 | □ | □ |
| | 12 | 356 35.5 | S17 00.8 | 253 51.2 | 8.8 | N21 55.7 | 4.1 56.8 | 66 | 15 32 | 16 35 | 17 39 | 03 14 | 04 53 | 06 26 | 07 25 |
| | 13 | 11 35.4 | 17 00.0 | 268 19.0 | 8.7 | 21 59.8 | 4.0 56.8 | 64 | 15 49 | 16 45 | 17 44 | 02 50 | 04 19 | 05 40 | 06 39 |
| | 14 | 26 35.3 | 16 59.3 | 282 46.7 | 8.6 | 22 03.8 | 3.9 56.8 | 62 | 16 03 | 16 54 | 17 48 | 02 32 | 03 55 | 05 10 | 06 08 |
| | 15 | 41 35.2 | 16 58.6 | 297 14.3 | 8.5 | 22 07.7 | 3.8 56.9 | 60 | 16 14 | 17 02 | 17 52 | 02 17 | 03 35 | 04 47 | 05 46 |
| | 16 | 56 35.1 | 16 57.9 | 311 41.8 | 8.5 | 22 11.5 | 3.6 56.9 | N 58 | 16 24 | 17 08 | 17 56 | 02 04 | 03 19 | 04 28 | 05 27 |
| | 17 | 71 35.1 | 16 57.2 | 326 09.3 | 8.4 | 22 15.1 | 3.5 56.9 | 56 | 16 33 | 17 14 | 17 59 | 01 53 | 03 05 | 04 13 | 05 11 |
| | 18 | 86 35.0 | S16 56.5 | 340 36.7 | 8.3 | N22 18.6 | 3.4 57.0 | 54 | 16 41 | 17 20 | 18 02 | 01 43 | 02 53 | 04 00 | 04 58 |
| | 19 | 101 34.9 | 55.7 | 355 04.0 | 8.2 | 22 22.0 | 3.3 57.0 | 52 | 16 48 | 17 25 | 18 05 | 01 35 | 02 43 | 03 48 | 04 46 |
| | 20 | 116 34.8 | 55.0 | 9 31.2 | 8.2 | 22 25.3 | 3.2 57.1 | 50 | 16 54 | 17 29 | 18 08 | 01 27 | 02 34 | 03 38 | 04 36 |
| | 21 | 131 34.7 | 54.3 | 23 58.4 | 8.1 | 22 28.5 | 3.0 57.1 | 45 | 17 08 | 17 39 | 18 14 | 01 11 | 02 14 | 03 16 | 04 14 |
| | 22 | 146 34.7 | 53.6 | 38 25.5 | 8.0 | 22 31.5 | 2.9 57.1 | N 40 | 17 19 | 17 48 | 18 20 | 00 57 | 01 58 | 02 59 | 03 57 |
| 23 | 161 34.6 | 52.9 | 52 52.5 | 7.9 | 22 34.4 | 2.8 57.2 | 35 | 17 29 | 17 55 | 18 26 | 00 46 | 01 45 | 02 44 | 03 42 | |
| MARTES | 2 00 | 176 34.5 | S16 52.1 | 67 19.4 | 7.8 | N22 37.2 | 2.7 57.2 | 30 | 17 37 | 18 02 | 18 31 | 00 36 | 01 33 | 02 32 | 03 29 |
| | 01 | 191 34.4 | 51.4 | 81 46.2 | 7.8 | 22 39.9 | 2.5 57.3 | 20 | 17 52 | 18 15 | 18 41 | 00 19 | 01 14 | 02 10 | 03 07 |
| | 02 | 206 34.4 | 50.7 | 96 13.0 | 7.7 | 22 42.4 | 2.4 57.3 | N 10 | 18 05 | 18 27 | 18 52 | 00 04 | 00 56 | 01 51 | 02 48 |
| | 03 | 221 34.3 | 50.0 | 110 39.7 | 7.7 | 22 44.8 | 2.3 57.3 | 0 | 18 17 | 18 39 | 19 04 | 24 40 | 00 40 | 01 34 | 02 30 |
| | 04 | 236 34.2 | 49.3 | 125 06.4 | 7.5 | 22 47.1 | 2.1 57.4 | S 10 | 18 30 | 18 52 | 19 17 | 24 24 | 00 24 | 01 16 | 02 12 |
| | 05 | 251 34.1 | 48.5 | 139 32.9 | 7.5 | 22 49.2 | 2.0 57.4 | 20 | 18 43 | 19 06 | 19 34 | 24 07 | 00 07 | 00 57 | 01 53 |
| | 06 | 266 34.1 | S16 47.8 | 153 59.4 | 7.5 | N22 51.2 | 1.9 57.5 | 30 | 18 58 | 19 24 | 19 55 | 23 47 | 24 36 | 00 36 | 01 31 |
| | 07 | 281 34.0 | 47.1 | 168 25.9 | 7.3 | 22 53.1 | 1.7 57.5 | 35 | 19 07 | 19 35 | 20 08 | 23 36 | 24 23 | 00 23 | 01 18 |
| | 08 | 296 33.9 | 46.4 | 182 52.2 | 7.3 | 22 54.8 | 1.6 57.5 | 40 | 19 18 | 19 47 | 20 24 | 23 22 | 24 08 | 00 08 | 01 03 |
| | 09 | 311 33.8 | 45.6 | 197 18.5 | 7.2 | 22 56.4 | 1.5 57.6 | 45 | 19 30 | 20 03 | 20 44 | 23 07 | 23 51 | 24 45 | 00 45 |
| | 10 | 326 33.8 | 44.9 | 211 44.7 | 7.2 | 22 57.9 | 1.4 57.6 | S 50 | 19 45 | 20 22 | 21 11 | 22 48 | 23 30 | 24 23 | 00 23 |
| | 11 | 341 33.7 | 44.2 | 226 10.9 | 7.1 | 22 59.3 | 1.2 57.7 | 52 | 19 52 | 20 32 | 21 25 | 22 39 | 23 19 | 24 12 | 00 12 |
| | 12 | 356 33.6 | S16 43.5 | 240 37.0 | 7.0 | N23 00.5 | 1.0 57.7 | 54 | 19 59 | 20 42 | 21 42 | 22 29 | 23 08 | 24 00 | 00 00 |
| | 13 | 11 33.5 | 42.7 | 255 03.0 | 7.0 | 23 01.5 | 1.0 57.7 | 56 | 20 08 | 20 55 | 22 02 | 22 18 | 22 55 | 23 46 | 24 54 |
| | 14 | 26 33.5 | 42.0 | 269 29.0 | 6.9 | 23 02.5 | 0.8 57.8 | 58 | 20 18 | 21 09 | 22 28 | 22 04 | 22 40 | 23 30 | 24 39 |
| | 15 | 41 33.4 | 41.3 | 283 54.9 | 6.8 | 23 03.3 | 0.6 57.8 | S 60 | 20 29 | 21 26 | 23 09 | 21 49 | 22 22 | 23 11 | 24 21 |
| | 16 | 56 33.3 | 40.5 | 298 20.7 | 6.8 | 23 03.9 | 0.5 57.9 | Día | SOL | | | LUNA | | | |
| | 17 | 71 33.3 | 39.8 | 312 46.5 | 6.7 | 23 04.4 | 0.4 57.9 | E.T. (-) | Pas. Mer. | Pas. Mer. | Pas. Mer. | Mer. Sup. | Mer. Inf. | Edad. | Fase |
| | 18 | 86 33.2 | S16 39.1 | 327 12.2 | 6.7 | N23 04.8 | 0.2 57.9 | 00 h | 12 h | h m | h m | h m | h m | d | |
| | 19 | 101 33.1 | 38.4 | 341 37.9 | 6.6 | 23 05.0 | 0.1 58.0 | 13 25 | 13 30 | 12 13 | 18 28 | 06 03 | 09 | | |
| | 20 | 116 33.1 | 37.6 | 356 03.5 | 6.5 | 23 05.1 | 0.0 58.0 | 13 34 | 13 38 | 12 14 | 19 20 | 06 54 | 10 | | |
| | 21 | 131 33.0 | 36.9 | 10 29.0 | 6.6 | 23 05.1 | 0.2 58.1 | 1 | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE -0.8 | | | JUPITER -2.2 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 300 | 133 11.0 | 133 25.2 | N 1 36.1 | 32 21.5 | N27 00.4 | 299 07.8 | S 4 26.5 | 170 18.7 | S15 45.2 | Acomar | 315 29.8 | S40 20.2 | | | | | | |
| 01 | 148 13.5 | 148 25.7 | 37.3 | 47 24.4 | 00.4 | 314 10.3 | 26.5 | 185 20.9 | 45.1 | Achernar | 335 38.1 | S57 16.5 | | | | | | |
| 02 | 163 16.0 | 163 26.3 | 38.5 | 62 27.3 | 00.4 | 329 12.8 | 26.4 | 200 23.0 | 45.0 | Acruz | 173 26.0 | S63 03.6 | | | | | | |
| 03 | 178 18.4 | 178 26.8 | 39.6 | 77 30.3 | 00.4 | 344 15.3 | 26.4 | 215 25.2 | 44.9 | Adhara | 255 24.1 | S28 58.0 | | | | | | |
| 04 | 193 20.9 | 193 27.4 | 40.8 | 92 33.2 | 00.3 | 359 17.8 | 26.4 | 230 27.4 | 44.8 | Aldebaran | 291 06.7 | N16 29.8 | | | | | | |
| 05 | 208 23.4 | 208 28.0 | 42.0 | 107 36.1 | 00.3 | 14 20.3 | 26.4 | 245 29.5 | 44.7 | | | | | | | | | |
| 06 | 223 25.8 | 223 28.5 | N 1 43.2 | 122 39.0 | N27 00.3 | 29 22.8 | S 4 26.3 | 260 31.7 | S15 44.6 | Alioth | 166 33.6 | N55 59.4 | | | | | | |
| 07 | 238 28.3 | 238 29.1 | 44.4 | 137 41.9 | 00.3 | 44 25.3 | 26.3 | 275 33.9 | 44.6 | Alkaid | 153 10.6 | N49 20.5 | | | | | | |
| 08 | 253 30.8 | 253 29.6 | 45.5 | 152 44.8 | 00.3 | 59 27.8 | 26.3 | 290 36.0 | 44.5 | Al Na'ir | 28 03.1 | S46 59.7 | | | | | | |
| 09 | 268 33.2 | 268 30.2 | 46.7 | 167 47.7 | 00.2 | 74 30.3 | 26.2 | 305 38.2 | 44.4 | Alnilam | 276 01.6 | S 1 12.5 | | | | | | |
| 10 | 283 35.7 | 283 30.8 | 47.9 | 182 50.6 | 00.2 | 89 32.8 | 26.2 | 320 40.4 | 44.3 | Alphard | 218 10.7 | S 8 37.9 | | | | | | |
| 11 | 298 38.1 | 298 31.3 | 49.1 | 197 53.5 | 00.2 | 104 35.3 | 26.2 | 335 42.5 | 44.2 | | | | | | | | | |
| 12 | 313 40.6 | 313 31.9 | N 1 50.3 | 212 56.4 | N27 00.2 | 119 37.8 | S 4 26.2 | 350 44.7 | S15 44.1 | Alphecca | 126 23.9 | N26 44.0 | | | | | | |
| 13 | 328 43.1 | 328 32.5 | 51.4 | 227 59.3 | 00.2 | 134 40.3 | 26.1 | 5 46.9 | 44.0 | Alpheratz | 357 59.5 | N29 03.3 | | | | | | |
| 14 | 343 45.5 | 343 33.0 | 52.6 | 243 02.2 | 00.1 | 149 42.8 | 26.1 | 20 49.0 | 43.9 | Altair | 62 23.4 | N 8 51.0 | | | | | | |
| 15 | 358 48.0 | 358 33.6 | 53.8 | 258 05.1 | 00.1 | 164 45.3 | 26.1 | 35 51.2 | 43.8 | Ankaa | 353 30.9 | S42 20.7 | | | | | | |
| 16 | 13 50.5 | 13 34.2 | 55.0 | 273 08.0 | 00.1 | 179 47.8 | 26.1 | 50 53.4 | 43.7 | Antares | 112 45.1 | S26 25.0 | | | | | | |
| 17 | 28 52.9 | 28 34.7 | 56.1 | 288 10.9 | 00.1 | 194 50.3 | 26.0 | 65 55.5 | 43.6 | | | | | | | | | |
| 18 | 43 55.4 | 43 35.3 | N 1 57.3 | 303 13.8 | N27 00.0 | 209 52.8 | S 4 26.0 | 80 57.7 | S15 43.5 | Arcturus | 146 09.5 | N19 12.8 | | | | | | |
| 19 | 58 57.9 | 58 35.9 | 58.5 | 318 16.7 | 00.0 | 224 55.3 | 26.0 | 95 59.9 | 43.4 | Atria | 108 00.9 | S69 00.7 | | | | | | |
| 20 | 74 00.3 | 73 36.5 | 1 59.7 | 333 19.6 | 00.0 | 239 57.8 | 25.9 | 111 02.0 | 43.3 | Avior | 234 23.6 | S59 29.4 | | | | | | |
| 21 | 89 02.8 | 88 37.0 | 2 00.9 | 348 22.5 | 00.0 | 255 00.3 | 25.9 | 126 04.2 | 43.2 | Bellatrix | 278 48.1 | N 6 20.5 | | | | | | |
| 22 | 104 05.2 | 103 37.6 | 02.0 | 3 25.3 | 27 00.0 | 270 02.8 | 25.9 | 141 06.4 | 43.2 | Betelgeuse | 271 17.5 | N 7 24.3 | | | | | | |
| 23 | 119 07.7 | 118 38.2 | 03.2 | 18 28.2 | 26 59.9 | 285 05.3 | 25.9 | 156 08.5 | 43.1 | | | | | | | | | |
| 400 | 134 10.2 | 133 38.8 | N 2 04.4 | 33 31.1 | N26 59.9 | 300 07.8 | S 4 25.8 | 171 10.7 | S15 43.0 | Canopus | 264 02.4 | S52 41.8 | | | | | | |
| 01 | 149 12.6 | 148 39.4 | 05.6 | 48 34.0 | 59.9 | 315 10.3 | 25.8 | 186 12.9 | 42.9 | Capella | 280 56.6 | N45 59.6 | | | | | | |
| 02 | 164 15.1 | 163 40.0 | 06.7 | 63 36.9 | 59.9 | 330 12.8 | 25.8 | 201 15.0 | 42.8 | Deneb | 49 42.3 | N45 15.4 | | | | | | |
| 03 | 179 17.6 | 178 40.5 | 07.9 | 78 39.7 | 59.8 | 345 15.3 | 25.8 | 216 17.2 | 42.7 | Denebola | 182 48.9 | N14 36.4 | | | | | | |
| 04 | 194 20.0 | 193 41.1 | 09.1 | 93 42.6 | 59.8 | 0 17.8 | 25.7 | 231 19.4 | 42.6 | Diphda | 349 11.3 | S18 01.5 | | | | | | |
| 05 | 209 22.5 | 208 41.7 | 10.3 | 108 45.5 | 59.8 | 15 20.3 | 25.7 | 246 21.5 | 42.5 | | | | | | | | | |
| 06 | 224 25.0 | 223 42.3 | N 2 11.4 | 123 48.4 | N26 59.8 | 30 22.8 | S 4 25.7 | 261 23.7 | S15 42.4 | Dubhe | 194 09.5 | N61 47.0 | | | | | | |
| 07 | 239 27.4 | 238 42.9 | 12.6 | 138 51.2 | 59.7 | 45 25.3 | 25.6 | 276 25.9 | 42.3 | Elnath | 278 31.6 | N28 36.2 | | | | | | |
| 08 | 254 29.9 | 253 43.5 | 13.8 | 153 54.1 | 59.7 | 60 27.8 | 25.6 | 291 28.0 | 42.2 | Eltanin | 90 53.6 | N51 29.2 | | | | | | |
| 09 | 269 32.4 | 268 44.1 | 14.9 | 168 57.0 | 59.7 | 75 30.4 | 25.6 | 306 30.2 | 42.1 | Enif | 34 02.3 | N 9 50.6 | | | | | | |
| 10 | 284 34.8 | 283 44.7 | 16.1 | 183 59.8 | 59.7 | 90 32.9 | 25.5 | 321 32.4 | 42.0 | Fomalhaut | 15 41.0 | S29 39.6 | | | | | | |
| 11 | 299 37.3 | 298 45.3 | 17.3 | 199 02.7 | 59.6 | 105 35.4 | 25.5 | 336 34.5 | 41.9 | | | | | | | | | |
| 12 | 314 39.7 | 313 45.9 | N 2 18.5 | 214 05.6 | N26 59.6 | 120 37.9 | S 4 25.5 | 351 36.7 | S15 41.8 | Gacrux | 172 17.6 | S57 04.4 | | | | | | |
| 13 | 329 42.2 | 328 46.5 | 19.6 | 229 08.4 | 59.6 | 135 40.4 | 25.5 | 6 38.9 | 41.8 | Gienah | 176 07.7 | S17 30.4 | | | | | | |
| 14 | 344 44.7 | 343 47.1 | 20.8 | 244 11.3 | 59.6 | 150 42.9 | 25.4 | 21 41.0 | 41.7 | Hadar | 149 09.4 | S60 20.3 | | | | | | |
| 15 | 359 47.1 | 358 47.7 | 22.0 | 259 14.1 | 59.5 | 165 45.4 | 25.4 | 36 43.2 | 41.6 | Hamal | 328 18.0 | N23 25.9 | | | | | | |
| 16 | 14 49.6 | 13 48.3 | 23.1 | 274 17.0 | 59.5 | 180 47.9 | 25.4 | 51 45.4 | 41.5 | Kaus Aust. | 84 04.2 | S34 23.2 | | | | | | |
| 17 | 29 52.1 | 28 48.9 | 24.3 | 289 19.9 | 59.5 | 195 50.4 | 25.3 | 66 47.5 | 41.4 | | | | | | | | | |
| 18 | 44 54.5 | 43 49.5 | N 2 25.5 | 304 22.7 | N26 59.4 | 210 52.9 | S 4 25.3 | 81 49.7 | S15 41.3 | Kochab | 137 19.3 | N74 10.6 | | | | | | |
| 19 | 59 57.0 | 58 50.1 | 26.6 | 319 25.6 | 59.4 | 225 55.4 | 25.3 | 96 51.9 | 41.2 | Markab | 13 53.8 | N15 10.2 | | | | | | |
| 20 | 74 59.5 | 73 50.7 | 27.8 | 334 28.4 | 59.4 | 240 57.9 | 25.2 | 111 54.0 | 41.1 | Menkar | 314 30.9 | N 4 03.8 | | | | | | |
| 21 | 90 01.9 | 88 51.3 | 29.0 | 349 31.3 | 59.4 | 256 00.5 | 25.2 | 126 56.2 | 41.0 | Menkent | 148 25.5 | S36 20.2 | | | | | | |
| 22 | 105 04.4 | 103 51.9 | 30.2 | 4 34.1 | 59.3 | 271 03.0 | 25.2 | 141 58.4 | 40.9 | Miaplacidus | 221 42.0 | S69 41.4 | | | | | | |
| 23 | 120 06.9 | 118 52.5 | 31.3 | 19 37.0 | 59.3 | 286 05.5 | 25.2 | 157 00.5 | 40.8 | | | | | | | | | |
| 500 | 135 09.3 | 133 53.1 | N 2 32.5 | 34 39.8 | N26 59.3 | 301 08.0 | S 4 25.1 | 172 02.7 | S15 40.7 | Mirfak | 309 02.1 | N49 50.5 | | | | | | |
| 01 | 150 11.8 | 148 53.7 | 33.7 | 49 42.6 | 59.2 | 316 10.5 | 25.1 | 187 04.9 | 40.6 | Nunki | 76 17.4 | S26 18.3 | | | | | | |
| 02 | 165 14.2 | 163 54.3 | 34.8 | 64 45.5 | 59.2 | 331 13.0 | 25.1 | 202 07.0 | 40.5 | Peacock | 53 43.6 | S56 45.4 | | | | | | |
| 03 | 180 16.7 | 178 55.0 | 36.0 | 79 48.3 | 59.2 | 346 15.5 | 25.0 | 217 09.2 | 40.4 | Pollux | 243 45.9 | N28 02.5 | | | | | | |
| 04 | 195 19.2 | 193 55.6 | 37.2 | 94 51.2 | 59.2 | 1 18.0 | 25.0 | 232 11.4 | 40.4 | Procyon | 245 15.3 | N 5 14.4 | | | | | | |
| 05 | 210 21.6 | 208 56.2 | 38.3 | 109 54.0 | 59.1 | 16 20.5 | 25.0 | 247 13.6 | 40.3 | | | | | | | | | |
| 06 | 225 24.1 | 223 56.8 | N 2 39.5 | 124 56.8 | N26 59.1 | 31 23.1 | S 4 24.9 | 262 15.7 | S15 40.2 | Rasalhague | 96 20.8 | N12 33.7 | | | | | | |
| 07 | 240 26.6 | 238 57.4 | 40.7 | 139 59.7 | 59.1 | 46 25.6 | 24.9 | 277 17.9 | 40.1 | Regulus | 207 59.3 | N11 59.8 | | | | | | |
| 08 | 255 29.0 | 253 58.0 | 41.8 | 155 02.5 | 59.0 | 61 28.1 | 24.9 | 292 20.1 | 40.0 | Rigel | 281 26.5 | S 8 12.7 | | | | | | |
| 09 | 270 31.5 | 268 58.7 | 43.0 | 170 05.3 | 59.0 | 76 30.6 | 24.8 | 307 22.2 | 39.9 | Rigel Kent. | 140 12.4 | S60 48.2 | | | | | | |
| 10 | 285 34.0 | 283 59.3 | 44.1 | 185 08.2 | 59.0 | 91 33.1 | 24.8 | 322 24.4 | 39.8 | Sabik | 102 30.2 | S15 43.0 | | | | | | |
| 11 | 300 36.4 | 298 59.9 | 45.3 | 200 11.0 | 58.9 | 106 35.6 | 24.8 | 337 26.6 | 39.7 | | | | | | | | | |
| 12 | 315 38.9 | 314 00.5 | N 2 46.5 | 215 13.8 | N26 58.9 | 121 38.1 | S 4 24.7 | 352 28.7 | S15 39.6 | Schedar | 349 58.3 | N56 30.3 | | | | | | |
| 13 | 330 41.3 | 329 01.2 | 47.6 | 230 16.6 | 58.9 | 136 40.7 | 24.7 | 7 30.9 | 39.5 | Shaula | 96 42.8 | S37 05.9 | | | | | | |
| 14 | 345 43.8 | 344 01.8 | 48.8 | 245 19.5 | 58.9 | 151 43.2 | 24.7 | 22 33.1 | 39.4 | Sirius | 258 46.8 | S16 42.6 | | | | | | |
| 15 | 0 46.3 | 359 02.4 | 50.0 | 260 22.3 | 58.8 | 166 45.7 | 24.6 | 37 35.2 | 39.3 | Spica | 158 47.2 | S11 07.7 | | | | | | |
| 16 | 15 48.7 | 14 03.1 | 51.1 | 275 25.1 | 58.8 | 181 48.2 | 24.6 | 52 37.4 | 39.2 | Suhail | 223 03.2 | S43 24.4 | | | | | | |
| 17 | 30 51.2 | 29 03.7 | 52.3 | 290 27.9 | 58.8 | 196 50.7 | 24.6 | 67 39.6 | 39.1 | | | | | | | | | |
| 18 | 45 53.7 | 44 04.3 | N 2 53.4 | 305 30.7 | N26 58.7 | 211 53.2 | S 4 24.5 | 82 41.7 | S15 39.0 | Vega | 80 49.6 | N38 46.5 | | | | | | |
| 19 | 60 56.1 | 59 05.0 | 54.6 | 320 33.6 | 58.7 | 226 55.8 | 24.5 | 97 4 | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|---|----------|----------|----------|----------|----------|----------|------|------------|-----------|------------|-----------|------------|-------|-------|-------|-------|-------|-------|---|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | Sol | 3 | | 4 | | 5 | | 6 | |
| | | | | | | | | | | | | | h | m | h | m | h | m | h | m |
| M I E R C O L E S | 3 00 | 176 32.8 | S16 34.7 | 53 45.4 | 6.4 | N23 04.1 | 0.7 | 58.2 | N 72 | 06 59 | 08 25 | 10 04 | □ | □ | □ | □ | 14 47 | 14 47 | | |
| | 01 | 191 32.7 | 34.0 | 68 10.8 | 6.3 | 23 03.4 | 0.7 | 58.2 | N 70 | 06 52 | 08 08 | 09 29 | □ | □ | 12 40 | 15 13 | 15 32 | | | |
| | 02 | 206 32.6 | 33.2 | 82 36.1 | 6.2 | 23 02.7 | 0.9 | 58.3 | 68 | 06 46 | 07 55 | 09 04 | □ | 10 57 | 13 21 | 15 32 | 15 48 | | | |
| | 03 | 221 32.6 | 32.5 | 97 01.3 | 6.2 | 23 01.8 | 1.1 | 58.3 | 66 | 06 42 | 07 44 | 08 46 | 10 09 | 11 51 | 13 49 | 15 48 | 16 00 | | | |
| | 04 | 236 32.5 | 31.8 | 111 26.5 | 6.2 | 23 00.7 | 1.2 | 58.3 | 64 | 06 37 | 07 35 | 08 30 | 10 55 | 12 24 | 14 10 | 16 00 | 16 11 | | | |
| | 05 | 251 32.4 | 31.0 | 125 51.7 | 6.1 | 22 59.5 | 1.4 | 58.4 | 62 | 06 34 | 07 27 | 08 18 | 11 25 | 12 48 | 14 26 | 16 11 | 16 20 | | | |
| | 06 | 266 32.4 | S16 30.3 | 140 16.8 | 6.1 | N22 58.1 | 1.5 | 58.4 | 60 | 06 30 | 07 20 | 08 07 | 11 47 | 13 07 | 14 40 | 16 20 | 16 28 | | | |
| | 07 | 281 32.3 | 29.5 | 154 41.9 | 6.0 | 22 56.6 | 1.6 | 58.5 | N 58 | 06 27 | 07 14 | 07 57 | 12 06 | 13 23 | 14 52 | 16 28 | 16 35 | | | |
| | 08 | 296 32.2 | 28.8 | 169 06.9 | 6.0 | 22 55.0 | 1.8 | 58.5 | 56 | 06 24 | 07 09 | 07 49 | 12 21 | 13 36 | 15 03 | 16 35 | 16 41 | | | |
| | 09 | 311 32.2 | 28.1 | 183 31.9 | 6.0 | 22 53.2 | 2.0 | 58.5 | 54 | 06 21 | 07 03 | 07 42 | 12 34 | 13 48 | 15 12 | 16 41 | 16 46 | | | |
| | 10 | 326 32.1 | 27.3 | 197 56.9 | 5.9 | 22 51.2 | 2.1 | 58.6 | 52 | 06 19 | 06 59 | 07 35 | 12 46 | 13 58 | 15 20 | 16 46 | 16 51 | | | |
| | 11 | 341 32.1 | 26.6 | 212 21.8 | 5.9 | 22 49.1 | 2.2 | 58.6 | 50 | 06 16 | 06 55 | 07 29 | 12 56 | 14 07 | 15 27 | 16 51 | 17 02 | | | |
| | 12 | 356 32.0 | S16 25.9 | 226 46.7 | 5.9 | N22 46.9 | 2.4 | 58.7 | 45 | 06 10 | 06 45 | 07 16 | 13 18 | 14 27 | 15 42 | 17 02 | 17 11 | | | |
| | 13 | 11 31.9 | 25.1 | 241 11.6 | 5.8 | 22 44.5 | 2.6 | 58.7 | N 40 | 06 05 | 06 37 | 07 06 | 13 35 | 14 42 | 15 55 | 17 11 | 17 18 | | | |
| | 14 | 26 31.9 | 24.4 | 255 36.4 | 5.8 | 22 41.9 | 2.7 | 58.7 | 35 | 06 00 | 06 30 | 06 57 | 13 50 | 14 55 | 16 06 | 17 18 | 17 25 | | | |
| | 15 | 41 31.8 | 23.6 | 270 01.2 | 5.8 | 22 39.2 | 2.8 | 58.8 | 30 | 05 55 | 06 24 | 06 49 | 14 03 | 15 07 | 16 15 | 17 25 | 17 37 | | | |
| | 16 | 56 31.7 | 22.9 | 284 26.0 | 5.7 | 22 36.4 | 3.0 | 58.8 | 20 | 05 45 | 06 12 | 06 35 | 14 24 | 15 27 | 16 31 | 17 37 | 17 47 | | | |
| | 17 | 71 31.7 | 22.2 | 298 50.7 | 5.7 | 22 33.4 | 3.2 | 58.9 | N 10 | 05 35 | 06 00 | 06 22 | 14 43 | 15 44 | 16 45 | 17 47 | 17 56 | | | |
| | 18 | 86 31.6 | S16 21.4 | 313 15.4 | 5.7 | N22 30.2 | 3.3 | 58.9 | 0 | 05 24 | 05 49 | 06 10 | 15 01 | 16 00 | 16 58 | 17 56 | 18 05 | | | |
| | 19 | 101 31.6 | 20.7 | 327 40.1 | 5.7 | 22 26.9 | 3.5 | 58.9 | S 10 | 05 11 | 05 37 | 05 59 | 15 18 | 16 16 | 17 11 | 18 05 | 18 15 | | | |
| | 20 | 116 31.5 | 19.9 | 342 04.8 | 5.6 | 22 23.4 | 3.6 | 59.0 | 20 | 04 55 | 05 23 | 05 46 | 15 37 | 16 33 | 17 25 | 18 15 | 18 26 | | | |
| | 21 | 131 31.4 | 19.2 | 356 29.4 | 5.6 | 22 19.8 | 3.7 | 59.0 | 30 | 04 35 | 05 06 | 05 31 | 15 59 | 16 52 | 17 41 | 18 26 | 18 33 | | | |
| | 22 | 146 31.4 | 18.4 | 10 54.0 | 5.6 | 22 16.1 | 3.9 | 59.1 | 35 | 04 22 | 04 55 | 05 23 | 16 11 | 17 03 | 17 50 | 18 33 | 18 40 | | | |
| 23 | 161 31.3 | 17.7 | 25 18.6 | 5.6 | 22 12.2 | 4.1 | 59.1 | 40 | 04 07 | 04 43 | 05 13 | 16 26 | 17 16 | 18 01 | 18 40 | 18 49 | | | | |
| 4 00 | 176 31.2 | S16 17.0 | 39 43.2 | 5.6 | N22 08.1 | 4.2 | 59.1 | 45 | 03 47 | 04 28 | 05 01 | 16 43 | 17 32 | 18 13 | 18 49 | 18 59 | | | | |
| 01 | 191 31.2 | 16.2 | 54 07.8 | 5.6 | 22 03.9 | 4.4 | 59.2 | S 50 | 03 21 | 04 10 | 04 47 | 17 05 | 17 50 | 18 28 | 18 59 | 19 04 | | | | |
| 02 | 206 31.1 | 15.5 | 68 32.4 | 5.5 | 21 59.5 | 4.5 | 59.2 | 52 | 03 08 | 04 01 | 04 40 | 17 15 | 17 59 | 18 35 | 19 04 | 19 09 | | | | |
| 03 | 221 31.1 | 14.7 | 82 56.9 | 5.5 | 21 55.0 | 4.6 | 59.3 | 54 | 02 53 | 03 50 | 04 33 | 17 26 | 18 09 | 18 42 | 19 09 | 19 15 | | | | |
| 04 | 236 31.0 | 14.0 | 97 21.4 | 5.6 | 21 50.4 | 4.9 | 59.3 | 56 | 02 34 | 03 39 | 04 25 | 17 39 | 18 20 | 18 51 | 19 15 | 19 21 | | | | |
| 05 | 251 31.0 | 13.2 | 111 46.0 | 5.5 | 21 45.5 | 4.9 | 59.3 | 58 | 02 10 | 03 25 | 04 15 | 17 55 | 18 33 | 19 01 | 19 21 | 19 28 | | | | |
| 06 | 266 30.9 | S16 12.5 | 126 10.5 | 5.5 | N21 40.6 | 5.1 | 59.4 | S 60 | 01 35 | 03 09 | 04 05 | 18 13 | 18 48 | 19 11 | 19 28 | | | | | |
| 07 | 281 30.8 | 11.7 | 140 35.0 | 5.5 | 21 35.5 | 5.3 | 59.4 | | | | | | | | | | | | | |
| 08 | 296 30.8 | 11.0 | 154 59.5 | 5.5 | 21 30.2 | 5.4 | 59.5 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | | | | | |
| 09 | 311 30.7 | 10.2 | 169 24.0 | 5.5 | 21 24.8 | 5.6 | 59.5 | | | Civil | Naut. | 3 | 4 | 5 | 6 | | | | | |
| 10 | 326 30.7 | 09.5 | 183 48.5 | 5.5 | 21 19.2 | 5.7 | 59.5 | | | | | | | | | | | | | |
| 11 | 341 30.6 | 08.7 | 198 13.0 | 5.4 | 21 13.5 | 5.9 | 59.6 | N 72 | 14 26 | 16 05 | 17 31 | □ | □ | □ | □ | 08 59 | | | | |
| 12 | 356 30.6 | S16 08.0 | 212 37.4 | 5.5 | N21 07.6 | 6.0 | 59.6 | N 70 | 15 00 | 16 21 | 17 38 | □ | □ | □ | 09 02 | 08 31 | | | | |
| 13 | 11 30.5 | 07.2 | 227 01.9 | 5.5 | 21 01.6 | 6.1 | 59.6 | 68 | 15 25 | 16 34 | 17 43 | □ | 08 40 | 08 20 | 08 10 | 07 53 | | | | |
| 14 | 26 30.5 | 06.5 | 241 26.4 | 5.5 | 20 55.5 | 6.4 | 59.7 | 66 | 15 43 | 16 45 | 17 48 | 07 25 | 07 45 | 07 52 | 07 39 | 07 27 | | | | |
| 15 | 41 30.4 | 05.7 | 255 50.9 | 5.5 | 20 49.1 | 6.4 | 59.7 | 64 | 15 59 | 16 54 | 17 52 | 06 39 | 07 12 | 07 30 | 07 39 | 07 27 | | | | |
| 16 | 56 30.3 | 05.0 | 270 15.4 | 5.5 | 20 42.7 | 6.6 | 59.7 | 62 | 16 11 | 17 02 | 17 56 | 06 08 | 06 48 | 07 12 | 07 27 | 07 17 | | | | |
| 17 | 71 30.3 | 04.2 | 284 39.9 | 5.6 | 20 36.1 | 6.8 | 59.8 | 60 | 16 22 | 17 09 | 17 59 | 05 46 | 06 28 | 06 57 | 07 17 | 07 08 | | | | |
| 18 | 86 30.2 | S16 03.5 | 299 04.5 | 5.5 | N20 29.3 | 6.8 | 59.8 | N 58 | 16 31 | 17 15 | 18 02 | 05 27 | 06 12 | 06 45 | 07 08 | 07 01 | | | | |
| 19 | 101 30.2 | 02.7 | 313 29.0 | 5.5 | 20 22.5 | 7.1 | 59.9 | 56 | 16 40 | 17 20 | 18 05 | 05 11 | 05 58 | 06 34 | 07 01 | 06 54 | | | | |
| 20 | 116 30.1 | 02.0 | 327 53.5 | 5.6 | 20 15.4 | 7.2 | 59.9 | 54 | 16 47 | 17 25 | 18 08 | 04 58 | 05 46 | 06 24 | 06 54 | 06 47 | | | | |
| 21 | 131 30.1 | 01.2 | 342 18.1 | 5.5 | 20 08.2 | 7.3 | 59.9 | 52 | 16 53 | 17 30 | 18 10 | 04 46 | 05 36 | 06 15 | 06 47 | 06 42 | | | | |
| 22 | 146 30.0 | 16 00.4 | 356 42.6 | 5.6 | 20 00.9 | 7.5 | 60.0 | 50 | 16 59 | 17 34 | 18 13 | 04 36 | 05 26 | 06 08 | 06 42 | 06 29 | | | | |
| 23 | 161 30.0 | 15 59.7 | 11 07.2 | 5.6 | 19 53.4 | 7.6 | 60.0 | 45 | 17 12 | 17 43 | 18 18 | 04 14 | 05 06 | 05 51 | 06 29 | 06 19 | | | | |
| 5 00 | 176 29.9 | S15 58.9 | 25 31.8 | 5.6 | N19 45.8 | 7.7 | 60.0 | N 40 | 17 23 | 17 51 | 18 23 | 03 57 | 04 50 | 05 37 | 06 19 | 06 10 | | | | |
| 01 | 191 29.9 | 58.2 | 39 56.4 | 5.6 | 19 38.1 | 7.9 | 60.1 | 35 | 17 32 | 17 58 | 18 28 | 03 42 | 04 36 | 05 26 | 06 10 | 06 03 | | | | |
| 02 | 206 29.8 | 57.4 | 54 21.0 | 5.7 | 19 30.2 | 8.0 | 60.1 | 30 | 17 40 | 18 05 | 18 33 | 03 29 | 04 24 | 05 15 | 06 03 | 05 49 | | | | |
| 03 | 221 29.8 | 56.7 | 68 45.7 | 5.6 | 19 22.2 | 8.2 | 60.1 | 20 | 17 54 | 18 17 | 18 43 | 03 07 | 04 04 | 04 58 | 05 49 | 05 37 | | | | |
| 04 | 236 29.7 | 55.9 | 83 10.3 | 5.7 | 19 14.0 | 8.3 | 60.2 | N 10 | 18 06 | 18 28 | 18 53 | 02 48 | 03 46 | 04 42 | 05 37 | 05 26 | | | | |
| 05 | 251 29.7 | 55.1 | 97 35.0 | 5.7 | 19 05.7 | 8.5 | 60.2 | 0 | 18 17 | 18 39 | 19 04 | 02 30 | 03 29 | 04 28 | 05 26 | 05 15 | | | | |
| 06 | 266 29.6 | S15 54.4 | 111 59.7 | 5.7 | N18 57.2 | 8.6 | 60.2 | S 10 | 18 29 | 18 51 | 19 17 | 02 12 | 03 12 | 04 13 | 05 15 | 05 02 | | | | |
| 07 | 281 29.6 | 53.6 | 126 24.4 | 5.8 | 18 48.6 | 8.7 | 60.2 | 20 | 18 42 | 19 05 | 19 32 | 01 53 | 02 54 | 03 57 | 05 02 | 04 48 | | | | |
| 08 | 296 29.5 | 52.9 | 140 49.2 | 5.8 | 18 39.9 | 8.8 | 60.3 | 30 | 18 56 | 19 22 | 19 52 | 01 31 | 02 33 | 03 39 | 04 48 | 04 40 | | | | |
| 09 | 311 29.5 | 52.1 | 155 14.0 | 5.8 | 18 31.1 | 9.0 | 60.3 | 35 | 19 05 | 19 32 | 20 05 | 01 18 | 02 20 | 03 28 | 04 40 | 04 31 | | | | |
| 10 | 326 29.4 | 51.3 | 169 38.8 | 5.8 | 18 22.1 | 9.1 | 60.3 | 40 | 19 15 | 19 44 | 20 20 | 01 03 | 02 06 | 03 16 | 04 31 | 04 20 | | | | |
| 11 | 341 29.4 | 50.6 | 184 03.6 | 5.8 | 18 13.0 | 9.3 | 60.4 | 45 | 19 26 | 19 59 | 20 40 | 00 45 | 01 49 | 03 02 | 04 20 | 04 06 | | | | |
| 12 | 356 29.3 | S15 49.8 | 198 28.4 | 5.9 | N18 03.7 | 9.4 | 60.4 | S 50 | 19 40 | 20 17 | 21 05 | 00 23 | 01 28 | 02 44 | 04 06 | 04 00 | | | | |
| 13 | 11 29.3 | 49.1 | 212 53.3 | 5.9 | 17 54.3 | 9.5 | 60.4 | 52 | 19 46 | 20 26 | 21 18 | 00 12 | 01 18 | 02 35 | 04 00 | 03 53 | | | | |
| 14 | 26 29.2 | 48.3 | 227 18.2 | 6.0 | 17 44.8 | 9.6 | 60.5 | 54 | 19 54 | 20 36 | 21 33 | 00 00 | 01 07 | 02 26 | 03 53 | 03 45 | | | | |
| 15 | 41 29.2 | 47.5 | 241 43.2 | 5.9 | 17 35.2 | 9.8 | 60.5 | 56 | 20 02 | 20 47 | 21 51 | 24 54 | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | | | | | |
|----------------|--------|------|------|------|--------|------|--------|-----|------|------------|-------|----------|-----------|------------|-------|------------|----|----|----|----|----|----|----|----|----|----|----|----|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. | | | Naut. | Civil | | 6 | | 7 | | 8 | | 9 | | | | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | h | m | h | m | h | m | h | m | h | m | | | | | | |
| 6 00 | 176 | 28.8 | S15 | 40.6 | 11 | 29.1 | 6.3 | N16 | 02.9 | 10.9 | 60.7 | N 72 | 06 | 47 | 08 | 11 | 09 | 43 | 14 | 47 | 17 | 17 | 19 | 36 | 21 | 52 | | |
| 01 | 191 | 28.8 | | 39.9 | 25 | 54.4 | 6.3 | 15 | 52.0 | 10.9 | 60.7 | N 70 | 06 | 42 | 07 | 57 | 09 | 13 | 15 | 13 | 17 | 28 | 19 | 37 | 21 | 44 | | |
| 02 | 206 | 28.7 | | 39.1 | 40 | 19.7 | 6.4 | 15 | 41.1 | 11.1 | 60.8 | 68 | 06 | 37 | 07 | 45 | 08 | 52 | 15 | 32 | 17 | 37 | 19 | 38 | 21 | 37 | | |
| 03 | 221 | 28.7 | | 38.3 | 54 | 45.1 | 6.3 | 15 | 30.0 | 11.2 | 60.8 | 66 | 06 | 33 | 07 | 35 | 08 | 35 | 15 | 48 | 17 | 45 | 19 | 39 | 21 | 31 | | |
| 04 | 236 | 28.6 | | 37.6 | 69 | 10.4 | 6.5 | 15 | 18.8 | 11.3 | 60.8 | 64 | 06 | 30 | 07 | 27 | 08 | 21 | 16 | 00 | 17 | 51 | 19 | 39 | 21 | 26 | | |
| 05 | 251 | 28.6 | | 36.8 | 83 | 35.9 | 6.4 | 15 | 07.5 | 11.4 | 60.8 | 62 | 06 | 27 | 07 | 20 | 08 | 09 | 16 | 11 | 17 | 56 | 19 | 40 | 21 | 22 | | |
| 06 | 266 | 28.6 | S15 | 36.0 | 98 | 01.3 | 6.5 | N14 | 56.1 | 11.5 | 60.9 | 60 | 06 | 24 | 07 | 14 | 07 | 59 | 16 | 20 | 18 | 01 | 19 | 40 | 21 | 19 | | |
| 07 | 281 | 28.5 | | 35.2 | 112 | 26.8 | 6.6 | 14 | 44.6 | 11.6 | 60.9 | N 58 | 06 | 19 | 07 | 03 | 07 | 43 | 16 | 35 | 18 | 08 | 19 | 41 | 21 | 13 | | |
| 08 | 296 | 28.5 | | 34.5 | 126 | 52.4 | 6.6 | 14 | 33.0 | 11.8 | 60.9 | 56 | 06 | 16 | 06 | 58 | 07 | 36 | 16 | 41 | 18 | 11 | 19 | 41 | 21 | 10 | | |
| S 09 | 311 | 28.4 | | 33.7 | 141 | 18.0 | 6.6 | 14 | 21.2 | 11.8 | 60.9 | 54 | 06 | 14 | 06 | 54 | 07 | 30 | 16 | 46 | 18 | 14 | 19 | 42 | 21 | 08 | | |
| A 10 | 326 | 28.4 | | 32.9 | 155 | 43.6 | 6.7 | 14 | 09.4 | 11.9 | 60.9 | 52 | 06 | 12 | 06 | 50 | 07 | 24 | 16 | 51 | 18 | 17 | 19 | 42 | 21 | 06 | | |
| B 11 | 341 | 28.4 | | 32.2 | 170 | 09.3 | 6.7 | 13 | 57.5 | 12.0 | 61.0 | 50 | 06 | 12 | 06 | 42 | 07 | 12 | 17 | 02 | 18 | 23 | 19 | 43 | 21 | 01 | | |
| A 12 | 356 | 28.3 | S15 | 31.4 | 184 | 35.0 | 6.7 | N13 | 45.5 | 12.2 | 61.0 | 45 | 06 | 07 | 06 | 42 | 07 | 12 | 17 | 01 | 18 | 23 | 19 | 43 | 21 | 01 | | |
| D 13 | 11 | 28.3 | | 30.6 | 199 | 00.7 | 6.8 | 13 | 33.3 | 12.2 | 61.0 | N 40 | 06 | 02 | 06 | 34 | 07 | 03 | 17 | 11 | 18 | 27 | 19 | 43 | 20 | 58 | | |
| O 14 | 26 | 28.2 | | 29.8 | 213 | 26.5 | 6.8 | 13 | 21.1 | 12.3 | 61.0 | 35 | 05 | 58 | 06 | 28 | 06 | 54 | 17 | 18 | 18 | 31 | 19 | 43 | 20 | 55 | | |
| 15 | 41 | 28.2 | | 29.1 | 227 | 52.3 | 6.9 | 13 | 08.8 | 12.4 | 61.0 | 30 | 05 | 53 | 06 | 22 | 06 | 46 | 17 | 25 | 18 | 35 | 19 | 44 | 20 | 52 | | |
| 16 | 56 | 28.2 | | 28.3 | 242 | 18.2 | 6.9 | 12 | 56.4 | 12.5 | 61.0 | 20 | 05 | 44 | 06 | 11 | 06 | 33 | 17 | 37 | 18 | 41 | 19 | 45 | 20 | 47 | | |
| 17 | 71 | 28.1 | | 27.5 | 256 | 44.1 | 7.0 | 12 | 43.9 | 12.6 | 61.1 | N 10 | 05 | 35 | 06 | 00 | 06 | 22 | 17 | 47 | 18 | 47 | 19 | 45 | 20 | 43 | | |
| 18 | 86 | 28.1 | S15 | 26.7 | 271 | 10.1 | 7.0 | N12 | 31.3 | 12.7 | 61.1 | 0 | 05 | 24 | 05 | 49 | 06 | 11 | 17 | 56 | 18 | 52 | 19 | 46 | 20 | 39 | | |
| 19 | 101 | 28.1 | | 26.0 | 285 | 36.1 | 7.0 | 12 | 18.6 | 12.7 | 61.1 | S 10 | 05 | 12 | 05 | 38 | 06 | 00 | 18 | 05 | 18 | 57 | 19 | 46 | 20 | 35 | | |
| 20 | 116 | 28.0 | | 25.2 | 300 | 02.1 | 7.1 | 12 | 05.9 | 12.9 | 61.1 | 20 | 04 | 57 | 05 | 25 | 05 | 48 | 18 | 15 | 19 | 02 | 19 | 47 | 20 | 31 | | |
| 21 | 131 | 28.0 | | 24.4 | 314 | 28.2 | 7.1 | 11 | 53.0 | 12.9 | 61.1 | 30 | 04 | 38 | 05 | 08 | 05 | 34 | 18 | 26 | 19 | 08 | 19 | 48 | 20 | 27 | | |
| 22 | 146 | 27.9 | | 23.6 | 328 | 54.3 | 7.1 | 11 | 40.1 | 13.0 | 61.1 | 35 | 04 | 26 | 04 | 59 | 05 | 26 | 18 | 33 | 19 | 12 | 19 | 48 | 20 | 24 | | |
| 23 | 161 | 27.9 | | 22.8 | 343 | 20.4 | 7.2 | 11 | 27.1 | 13.1 | 61.1 | 40 | 04 | 11 | 04 | 47 | 05 | 16 | 18 | 40 | 19 | 16 | 19 | 49 | 20 | 21 | | |
| 7 00 | 176 | 27.9 | S15 | 22.1 | 357 | 46.6 | 7.3 | N11 | 14.0 | 13.2 | 61.1 | 45 | 03 | 53 | 04 | 33 | 05 | 06 | 18 | 49 | 19 | 20 | 19 | 50 | 20 | 18 | | |
| 01 | 191 | 27.8 | | 21.3 | 12 | 12.9 | 7.3 | 11 | 00.8 | 13.2 | 61.2 | S 50 | 03 | 28 | 04 | 15 | 04 | 52 | 18 | 59 | 19 | 26 | 19 | 50 | 20 | 14 | | |
| 02 | 206 | 27.8 | | 20.5 | 26 | 39.2 | 7.3 | 10 | 47.6 | 13.3 | 61.2 | 52 | 03 | 16 | 04 | 07 | 04 | 46 | 19 | 04 | 19 | 28 | 19 | 51 | 20 | 12 | | |
| 03 | 221 | 27.8 | | 19.7 | 41 | 05.5 | 7.4 | 10 | 34.3 | 13.4 | 61.2 | 54 | 03 | 02 | 03 | 58 | 04 | 39 | 19 | 09 | 19 | 31 | 19 | 51 | 20 | 10 | | |
| 04 | 236 | 27.7 | | 18.9 | 55 | 31.9 | 7.4 | 10 | 20.9 | 13.5 | 61.2 | 56 | 02 | 45 | 03 | 47 | 04 | 32 | 19 | 15 | 19 | 34 | 19 | 51 | 20 | 08 | | |
| 05 | 251 | 27.7 | | 18.2 | 69 | 58.3 | 7.4 | 10 | 07.4 | 13.5 | 61.2 | 58 | 02 | 23 | 03 | 34 | 04 | 23 | 19 | 21 | 19 | 37 | 19 | 52 | 20 | 06 | | |
| 06 | 266 | 27.7 | S15 | 17.4 | 84 | 24.7 | 7.5 | N 9 | 53.9 | 13.6 | 61.2 | S 60 | 01 | 54 | 03 | 19 | 04 | 13 | 19 | 28 | 19 | 41 | 19 | 52 | 20 | 03 | | |
| 07 | 281 | 27.6 | | 16.6 | 98 | 51.2 | 7.5 | 9 | 40.3 | 13.6 | 61.2 | Lat. | Ocaso | Crepúsculo | | Ocaso Luna | | | | | | | | | | | | |
| 08 | 296 | 27.6 | | 15.8 | 113 | 17.7 | 7.6 | 9 | 26.7 | 13.8 | 61.2 | Sol | Sal | Civil | Naut. | 6 | 7 | 8 | 9 | | | | | | | | | |
| 09 | 311 | 27.6 | | 15.0 | 127 | 44.3 | 7.6 | 9 | 12.9 | 13.8 | 61.2 | ° | h | m | h | m | h | m | h | m | h | m | h | m | h | m | | |
| 10 | 326 | 27.6 | | 14.3 | 142 | 10.9 | 7.6 | 8 | 59.1 | 13.8 | 61.2 | N 72 | 14 | 47 | 16 | 19 | 17 | 43 | 08 | 59 | 08 | 27 | 08 | 04 | 07 | 43 | | |
| 11 | 341 | 27.5 | | 13.5 | 156 | 37.5 | 7.7 | 8 | 45.3 | 13.9 | 61.2 | N 70 | 15 | 16 | 16 | 33 | 17 | 48 | 08 | 31 | 08 | 13 | 07 | 59 | 07 | 46 | | |
| 12 | 356 | 27.5 | S15 | 12.7 | 171 | 04.2 | 7.7 | N 8 | 31.4 | 14.0 | 61.2 | 68 | 15 | 38 | 16 | 45 | 17 | 52 | 08 | 10 | 08 | 02 | 07 | 55 | 07 | 48 | | |
| 13 | 11 | 27.5 | | 11.9 | 185 | 30.9 | 7.8 | 8 | 17.4 | 14.0 | 61.3 | 66 | 15 | 55 | 16 | 54 | 17 | 56 | 07 | 53 | 07 | 53 | 07 | 52 | 07 | 50 | | |
| 14 | 26 | 27.4 | | 11.1 | 199 | 57.7 | 7.8 | 8 | 03.4 | 14.0 | 61.3 | 64 | 16 | 09 | 17 | 02 | 18 | 00 | 07 | 39 | 07 | 45 | 07 | 49 | 07 | 52 | | |
| 15 | 41 | 27.4 | | 10.3 | 214 | 24.5 | 7.8 | 7 | 49.4 | 14.2 | 61.3 | 62 | 16 | 20 | 17 | 10 | 18 | 03 | 07 | 27 | 07 | 38 | 07 | 46 | 07 | 54 | | |
| 16 | 56 | 27.4 | | 09.5 | 228 | 51.3 | 7.9 | 7 | 35.2 | 14.1 | 61.3 | 60 | 16 | 30 | 17 | 16 | 18 | 06 | 07 | 17 | 07 | 32 | 07 | 44 | 07 | 55 | | |
| 17 | 71 | 27.3 | | 08.8 | 243 | 18.2 | 7.9 | 7 | 21.1 | 14.2 | 61.3 | N 58 | 16 | 39 | 17 | 21 | 18 | 08 | 07 | 08 | 07 | 27 | 07 | 42 | 07 | 56 | | |
| 18 | 86 | 27.3 | S15 | 08.0 | 257 | 45.1 | 7.9 | N 7 | 06.9 | 14.3 | 61.3 | 56 | 16 | 46 | 17 | 26 | 18 | 11 | 07 | 01 | 07 | 22 | 07 | 40 | 07 | 57 | | |
| 19 | 101 | 27.3 | | 07.2 | 272 | 12.0 | 8.0 | 6 | 52.6 | 14.3 | 61.3 | 54 | 16 | 53 | 17 | 31 | 18 | 13 | 06 | 54 | 07 | 18 | 07 | 39 | 07 | 58 | | |
| 20 | 116 | 27.3 | | 06.4 | 286 | 39.0 | 8.0 | 6 | 38.3 | 14.3 | 61.3 | 52 | 16 | 59 | 17 | 35 | 18 | 15 | 06 | 47 | 07 | 14 | 07 | 37 | 07 | 59 | | |
| 21 | 131 | 27.2 | | 05.6 | 301 | 06.0 | 8.1 | 6 | 24.0 | 14.4 | 61.3 | 50 | 17 | 05 | 17 | 39 | 18 | 17 | 06 | 42 | 07 | 11 | 07 | 36 | 08 | 00 | | |
| 22 | 146 | 27.2 | | 04.8 | 315 | 33.1 | 8.1 | 6 | 09.6 | 14.4 | 61.3 | 45 | 17 | 16 | 17 | 47 | 18 | 22 | 06 | 29 | 07 | 03 | 07 | 33 | 08 | 02 | | |
| 23 | 161 | 27.2 | | 04.0 | 330 | 00.2 | 8.1 | 5 | 55.2 | 14.5 | 61.3 | N 40 | 17 | 26 | 17 | 55 | 18 | 27 | 06 | 19 | 06 | 19 | 06 | 56 | 07 | 31 | 08 | 03 |
| 8 00 | 176 | 27.2 | S15 | 03.2 | 344 | 27.3 | 8.1 | N 5 | 40.7 | 14.5 | 61.3 | 35 | 17 | 35 | 18 | 01 | 18 | 31 | 06 | 10 | 06 | 51 | 07 | 28 | 08 | 05 | | |
| 01 | 191 | 27.1 | | 02.4 | 558 | 54.4 | 8.2 | 5 | 26.2 | 14.5 | 61.3 | 30 | 17 | 42 | 18 | 07 | 18 | 35 | 06 | 03 | 06 | 46 | 07 | 27 | 08 | 06 | | |
| 02 | 206 | 27.1 | | 01.7 | 13 | 21.6 | 8.2 | 5 | 11.7 | 14.5 | 61.3 | 20 | 17 | 55 | 18 | 18 | 18 | 44 | 05 | 49 | 06 | 37 | 07 | 23 | 08 | 08 | | |
| 03 | 221 | 27.1 | | 00.9 | 27 | 48.8 | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.6 | | | MARTE -0.6 | | | JUPITER -2.3 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|--------------|--------|--------------|------------|--------------|------|--------------|--------------|------|--------------|--------|------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| d h | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | ° / | ° / |
| 9 00 | 139 05.9 | 134 57.8 N 4 | 22.8 | 39 05.6 N26 | 55.7 | 305 10.5 S 4 | 21.5 | 175 30.7 S15 | 31.7 | Acamar | 315 29.8 S40 | 20.2 | | | | | | |
| 01 | 154 08.3 | 149 58.6 | 23.9 | 54 08.3 | 55.7 | 320 13.0 | 21.5 | 190 32.9 | 31.6 | Achernar | 335 38.2 S57 | 16.5 | | | | | | |
| 02 | 169 10.8 | 164 59.3 | 25.1 | 69 11.0 | 55.6 | 335 15.6 | 21.4 | 205 35.1 | 31.5 | Acrux | 173 25.9 S63 | 03.6 | | | | | | |
| 03 | 184 13.3 | 180 00.1 | 26.2 | 84 13.7 | 55.6 | 350 18.1 | 21.4 | 220 37.2 | 31.4 | Adhara | 255 24.1 S28 | 58.0 | | | | | | |
| 04 | 199 15.7 | 195 00.8 | 27.3 | 99 16.4 | 55.5 | 5 20.7 | 21.4 | 235 39.4 | 31.4 | Aldebaran | 291 06.7 N16 | 29.8 | | | | | | |
| 05 | 214 18.2 | 210 01.6 | 28.5 | 114 19.1 | 55.5 | 20 23.2 | 21.3 | 250 41.6 | 31.3 | | | | | | | | | |
| 06 | 229 20.7 | 225 02.3 N 4 | 29.6 | 129 21.8 N26 | 55.5 | 35 25.7 S 4 | 21.3 | 265 43.7 S15 | 31.2 | Alioth | 166 33.5 N55 | 59.4 | | | | | | |
| 07 | 244 23.1 | 240 03.1 | 30.7 | 144 24.5 | 55.4 | 50 28.3 | 21.2 | 280 45.9 | 31.1 | Alkaid | 153 10.6 N49 | 20.5 | | | | | | |
| 08 | 259 25.6 | 255 03.8 | 31.8 | 159 27.2 | 55.4 | 65 30.8 | 21.2 | 295 48.1 | 31.0 | Al Na'ir | 28 03.1 S46 | 59.7 | | | | | | |
| M 09 | 274 28.0 | 270 04.6 | 33.0 | 174 29.8 | 55.3 | 80 33.4 | 21.1 | 310 50.2 | 30.9 | Alnilam | 276 01.6 S 1 | 12.5 | | | | | | |
| A 10 | 289 30.5 | 285 05.3 | 34.1 | 189 32.5 | 55.3 | 95 35.9 | 21.1 | 325 52.4 | 30.8 | Alphard | 218 10.7 S 8 | 37.9 | | | | | | |
| R 11 | 304 33.0 | 300 06.1 | 35.2 | 204 35.2 | 55.2 | 110 38.5 | 21.1 | 340 54.6 | 30.7 | | | | | | | | | |
| T 12 | 319 35.4 | 315 06.8 N 4 | 36.3 | 219 37.9 N26 | 55.2 | 125 41.0 S 4 | 21.0 | 355 56.7 S15 | 30.6 | Alphecca | 126 23.9 N26 | 44.0 | | | | | | |
| E 13 | 334 37.9 | 330 07.6 | 37.5 | 234 40.5 | 55.1 | 140 43.5 | 21.0 | 10 58.9 | 30.5 | Alpheratz | 357 59.5 N29 | 03.3 | | | | | | |
| S 14 | 349 40.4 | 345 08.3 | 38.6 | 249 43.2 | 55.1 | 155 46.1 | 20.9 | 26 01.1 | 30.4 | Altair | 62 23.3 N 8 | 50.9 | | | | | | |
| 15 | 4 42.8 | 0 09.1 | 39.7 | 264 45.9 | 55.0 | 170 48.6 | 20.9 | 41 03.2 | 30.3 | Ankaa | 353 30.9 S42 | 20.7 | | | | | | |
| 16 | 19 45.3 | 15 09.9 | 40.8 | 279 48.6 | 55.0 | 185 51.2 | 20.8 | 56 05.4 | 30.2 | Antares | 112 45.0 S26 | 25.0 | | | | | | |
| 17 | 34 47.8 | 30 10.6 | 41.9 | 294 51.2 | 55.0 | 200 53.7 | 20.8 | 71 07.6 | 30.1 | | | | | | | | | |
| 18 | 49 50.2 | 45 11.4 N 4 | 43.1 | 309 53.9 N26 | 54.9 | 215 56.3 S 4 | 20.7 | 86 09.8 S15 | 30.0 | Arcturus | 146 09.5 N19 | 12.8 | | | | | | |
| 19 | 64 52.7 | 60 12.2 | 44.2 | 324 56.6 | 54.9 | 230 58.8 | 20.7 | 101 11.9 | 29.9 | Atria | 108 00.8 S69 | 00.7 | | | | | | |
| 20 | 79 55.2 | 75 12.9 | 45.3 | 339 59.2 | 54.8 | 246 01.4 | 20.6 | 116 14.1 | 29.9 | Avior | 234 23.6 S59 | 29.4 | | | | | | |
| 21 | 94 57.6 | 90 13.7 | 46.4 | 355 01.9 | 54.8 | 261 03.9 | 20.6 | 131 16.3 | 29.8 | Bellatrix | 278 48.1 N 6 | 20.5 | | | | | | |
| 22 | 110 00.1 | 105 14.5 | 47.5 | 10 04.6 | 54.7 | 276 06.5 | 20.6 | 146 18.4 | 29.7 | Betelgeuse | 271 17.5 N 7 | 24.3 | | | | | | |
| 23 | 125 02.5 | 120 15.2 | 48.7 | 25 07.2 | 54.7 | 291 09.0 | 20.5 | 161 20.6 | 29.6 | | | | | | | | | |
| 10 00 | 140 05.0 | 135 16.0 N 4 | 49.8 | 40 09.9 N26 | 54.6 | 306 11.6 S 4 | 20.5 | 176 22.8 S15 | 29.5 | Canopus | 264 02.5 S52 | 41.8 | | | | | | |
| 01 | 155 07.5 | 150 16.8 | 50.9 | 55 12.5 | 54.6 | 321 14.1 | 20.4 | 191 24.9 | 29.4 | Capella | 280 56.7 N45 | 59.6 | | | | | | |
| 02 | 170 09.9 | 165 17.6 | 52.0 | 70 15.2 | 54.5 | 336 16.6 | 20.4 | 206 27.1 | 29.3 | Deneb | 49 42.3 N45 | 15.3 | | | | | | |
| 03 | 185 12.4 | 180 18.3 | 53.1 | 85 17.9 | 54.5 | 351 19.2 | 20.3 | 221 29.3 | 29.2 | Denebola | 182 48.8 N14 | 36.4 | | | | | | |
| 04 | 200 14.9 | 195 19.1 | 54.3 | 100 20.5 | 54.4 | 6 21.7 | 20.3 | 236 31.4 | 29.1 | Diphda | 349 11.3 S18 | 01.5 | | | | | | |
| 05 | 215 17.3 | 210 19.9 | 55.4 | 115 23.2 | 54.4 | 21 24.3 | 20.2 | 251 33.6 | 29.0 | | | | | | | | | |
| 06 | 230 19.8 | 225 20.7 N 4 | 56.5 | 130 25.8 N26 | 54.3 | 36 26.8 S 4 | 20.2 | 266 35.8 S15 | 28.9 | Dubhe | 194 09.5 N61 | 47.0 | | | | | | |
| 07 | 245 22.3 | 240 21.5 | 57.6 | 145 28.5 | 54.3 | 51 29.4 | 20.1 | 281 37.9 | 28.8 | Elnath | 278 31.6 N28 | 36.2 | | | | | | |
| M 08 | 260 24.7 | 255 22.2 | 58.7 | 160 31.1 | 54.2 | 66 31.9 | 20.1 | 296 40.1 | 28.7 | Eltanin | 90 53.5 N51 | 29.1 | | | | | | |
| 09 | 275 27.2 | 270 23.0 | 59.8 | 175 33.7 | 54.2 | 81 34.5 | 20.0 | 311 42.3 | 28.6 | Enif | 34 02.3 N 9 | 50.6 | | | | | | |
| 10 | 290 29.7 | 285 23.8 | 60.9 | 190 36.4 | 54.1 | 96 37.0 | 20.0 | 326 44.4 | 28.5 | Fomalhaut | 15 41.0 S29 | 39.6 | | | | | | |
| 11 | 305 32.1 | 300 24.6 | 62.1 | 205 39.0 | 54.1 | 111 39.6 | 19.9 | 341 46.6 | 28.4 | | | | | | | | | |
| 12 | 320 34.6 | 315 25.4 N 5 | 63.2 | 220 41.7 N26 | 54.0 | 126 42.1 S 4 | 19.9 | 356 48.8 S15 | 28.3 | Gacrux | 172 17.5 S57 | 04.4 | | | | | | |
| 13 | 335 37.0 | 330 26.2 | 64.3 | 235 44.3 | 54.0 | 141 44.7 | 19.9 | 11 50.9 | 28.3 | Gienah | 176 07.7 S17 | 30.4 | | | | | | |
| 14 | 350 39.5 | 345 27.0 | 65.4 | 250 47.0 | 53.9 | 156 47.2 | 19.8 | 26 53.1 | 28.2 | Hadar | 149 09.4 S60 | 20.3 | | | | | | |
| 15 | 5 42.0 | 0 27.8 | 66.5 | 265 49.6 | 53.9 | 171 49.8 | 19.8 | 41 55.3 | 28.1 | Hamal | 328 18.0 N23 | 25.9 | | | | | | |
| 16 | 20 44.4 | 15 28.6 | 67.6 | 280 52.2 | 53.8 | 186 52.4 | 19.7 | 56 57.4 | 28.0 | Kaus Aust. | 84 04.2 S34 | 23.2 | | | | | | |
| 17 | 35 46.9 | 30 29.4 | 68.7 | 295 54.9 | 53.8 | 201 54.9 | 19.7 | 71 59.6 | 27.9 | | | | | | | | | |
| 18 | 50 49.4 | 45 30.2 N 5 | 69.8 | 310 57.5 N26 | 53.7 | 216 57.5 S 4 | 19.6 | 87 01.8 S15 | 27.8 | Kochab | 137 19.1 N74 | 10.6 | | | | | | |
| 19 | 65 51.8 | 60 31.0 | 70.9 | 326 00.1 | 53.7 | 232 00.0 | 19.6 | 102 03.9 | 27.7 | Markab | 13 53.8 N15 | 10.1 | | | | | | |
| 20 | 80 54.3 | 75 31.8 | 72.1 | 341 02.7 | 53.6 | 247 02.6 | 19.5 | 117 06.1 | 27.6 | Menkar | 314 31.0 N 4 | 03.8 | | | | | | |
| 21 | 95 56.8 | 90 32.6 | 73.2 | 356 05.4 | 53.6 | 262 05.1 | 19.5 | 132 08.3 | 27.5 | Menkent | 148 25.4 S36 | 20.2 | | | | | | |
| 22 | 110 59.2 | 105 33.4 | 74.3 | 11 08.0 | 53.5 | 277 07.7 | 19.4 | 147 10.4 | 27.4 | Miaplacidus | 221 42.0 S69 | 41.5 | | | | | | |
| 23 | 126 01.7 | 120 34.2 | 75.4 | 26 10.6 | 53.5 | 292 10.2 | 19.4 | 162 12.6 | 27.3 | | | | | | | | | |
| 11 00 | 141 04.1 | 135 35.0 N 5 | 16.5 | 41 13.2 N26 | 53.4 | 307 12.8 S 4 | 19.3 | 177 14.8 S15 | 27.2 | Mirfak | 309 02.1 N49 | 50.5 | | | | | | |
| 01 | 156 06.6 | 150 35.8 | 17.6 | 56 15.9 | 53.4 | 322 15.3 | 19.3 | 192 16.9 | 27.1 | Nunki | 76 17.4 S26 | 18.3 | | | | | | |
| 02 | 171 09.1 | 165 36.6 | 18.7 | 71 18.5 | 53.3 | 337 17.9 | 19.2 | 207 19.1 | 27.0 | Peacock | 53 43.6 S56 | 45.4 | | | | | | |
| 03 | 186 11.5 | 180 37.4 | 19.8 | 86 21.1 | 53.3 | 352 20.5 | 19.2 | 222 21.3 | 26.9 | Pollux | 243 45.9 N28 | 02.5 | | | | | | |
| 04 | 201 14.0 | 195 38.3 | 20.9 | 101 23.7 | 53.2 | 7 23.0 | 19.1 | 237 23.4 | 26.8 | Procyon | 245 15.3 N 5 | 14.4 | | | | | | |
| 05 | 216 16.5 | 210 39.1 | 22.0 | 116 26.3 | 53.2 | 22 25.6 | 19.1 | 252 25.6 | 26.7 | | | | | | | | | |
| 06 | 231 18.9 | 225 39.9 N 5 | 23.1 | 131 29.0 N26 | 53.1 | 37 28.1 S 4 | 19.0 | 267 27.8 S15 | 26.7 | Rasalhague | 96 20.7 N12 | 33.7 | | | | | | |
| 07 | 246 21.4 | 240 40.7 | 24.2 | 146 31.6 | 53.1 | 52 30.7 | 19.0 | 282 29.9 | 26.6 | Regulus | 207 59.3 N11 | 59.8 | | | | | | |
| 08 | 261 23.9 | 255 41.5 | 25.3 | 161 34.2 | 53.0 | 67 33.2 | 18.9 | 297 32.1 | 26.5 | Rigel | 281 26.5 S 8 | 12.7 | | | | | | |
| J 09 | 276 26.3 | 270 42.4 | 26.4 | 176 36.8 | 53.0 | 82 35.8 | 18.9 | 312 34.3 | 26.4 | Rigil Kent. | 140 12.4 S60 | 48.2 | | | | | | |
| 10 | 291 28.8 | 285 43.2 | 27.5 | 191 39.4 | 52.9 | 97 38.3 | 18.8 | 327 36.4 | 26.3 | Sabik | 102 30.1 S15 | 43.0 | | | | | | |
| E 11 | 306 31.3 | 300 44.0 | 28.6 | 206 42.0 | 52.9 | 112 40.9 | 18.8 | 342 38.6 | 26.2 | | | | | | | | | |
| V 12 | 321 33.7 | 315 44.8 N 5 | 29.7 | 221 44.6 N26 | 52.8 | 127 43.5 S 4 | 18.7 | 357 40.8 S15 | 26.1 | Schedar | 349 58.3 N56 | 30.2 | | | | | | |
| 13 | 336 36.2 | 330 45.7 | 30.8 | 236 47.2 | 52.7 | 142 46.0 | 18.7 | 12 42.9 | 26.0 | Shaula | 96 42.7 S37 | 05.9 | | | | | | |
| S 14 | 351 38.6 | 345 46.5 | 31.9 | 251 49.8 | 52.7 | 157 48.6 | 18.6 | 27 45.1 | 25.9 | Sirius | 258 46.8 S16 | 42.6 | | | | | | |
| 15 | 6 41.1 | 0 47.3 | 33.0 | 266 52.4 | 52.6 | 172 51.1 | 18.6 | 42 47.3 | 25.8 | Spica | 158 47.1 S11 | 07.7 | | | | | | |
| 16 | 21 43.6 | 15 48.2 | 34.1 | 281 55.0 | 52.6 | 187 53.7 | 18.5 | 57 49.4 | 25.7 | Suhail | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | |
|---|----------|----------|----------|----------|---------|-----------|---------------|-------|-----------|------------|-----------|------------|-----------|-------|-------|----|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. d P.H. | | | Naut. | Civil | | 9 | 10 | 11 | 12 |
| | o / | o / | o / | o / | o / | o / | o / | o / | | | | | | | | |
| M A R T E S | 9 00 | 176 26.6 | S14 44.2 | 331 26.6 | 8.7 S | 0 12.1 | 14.8 61.1 | N 72 | 06 35 | 07 58 | 09 24 | 21 52 | 24 13 | 00 13 | 02 58 | |
| | 01 | 191 26.6 | 43.4 | 345 54.3 | 8.8 | 0 26.9 | 14.7 61.0 | N 70 | 06 31 | 07 45 | 08 58 | 21 44 | 23 52 | 26 09 | 02 09 | |
| | 02 | 206 26.6 | 42.6 | 0 22.1 | 8.8 | 0 41.6 | 14.7 61.0 | 68 | 06 28 | 07 35 | 08 39 | 21 37 | 23 36 | 25 37 | 01 37 | |
| | 03 | 221 26.6 | 41.8 | 14 49.9 | 8.8 | 0 56.3 | 14.7 61.0 | 66 | 06 25 | 07 26 | 08 24 | 21 31 | 23 23 | 25 15 | 01 15 | |
| | 04 | 236 26.6 | 41.0 | 29 17.7 | 8.8 | 1 11.0 | 14.7 61.0 | 64 | 06 22 | 07 19 | 08 11 | 21 26 | 23 12 | 24 57 | 00 57 | |
| | 05 | 251 26.6 | 40.1 | 43 45.5 | 8.9 | 1 25.7 | 14.7 61.0 | 62 | 06 20 | 07 12 | 08 01 | 21 22 | 23 03 | 24 42 | 00 42 | |
| | 06 | 266 26.5 | S14 39.3 | 58 13.4 | 8.8 S | 1 40.4 | 14.7 61.0 | 60 | 06 17 | 07 07 | 07 52 | 21 19 | 22 55 | 24 30 | 00 30 | |
| | 07 | 281 26.5 | 38.5 | 72 41.2 | 8.9 | 1 55.1 | 14.6 60.9 | N 58 | 06 15 | 07 02 | 07 44 | 21 15 | 22 49 | 24 19 | 00 19 | |
| | 08 | 296 26.5 | 37.7 | 87 09.1 | 8.9 | 2 09.7 | 14.6 60.9 | 56 | 06 13 | 06 57 | 07 37 | 21 13 | 22 43 | 24 10 | 00 10 | |
| | 09 | 311 26.5 | 36.9 | 101 37.0 | 8.9 | 2 24.3 | 14.6 60.9 | 54 | 06 11 | 06 53 | 07 30 | 21 10 | 22 37 | 24 02 | 00 02 | |
| | 10 | 326 26.5 | 36.1 | 116 04.9 | 8.9 | 2 38.9 | 14.6 60.9 | 52 | 06 09 | 06 49 | 07 25 | 21 08 | 22 33 | 23 55 | 25 13 | |
| | 11 | 341 26.5 | 35.3 | 130 32.8 | 8.9 | 2 53.5 | 14.5 60.9 | 50 | 06 08 | 06 46 | 07 19 | 21 06 | 22 28 | 23 48 | 25 04 | |
| | 12 | 356 26.4 | S14 34.5 | 145 00.7 | 8.9 S | 3 08.0 | 14.5 60.8 | 45 | 06 03 | 06 38 | 07 08 | 21 01 | 22 19 | 23 34 | 24 46 | |
| | 13 | 11 26.4 | 33.7 | 159 28.6 | 8.9 | 3 22.5 | 14.5 60.8 | N 40 | 05 59 | 06 31 | 06 59 | 20 58 | 22 11 | 23 23 | 24 32 | |
| | 14 | 26 26.4 | 32.9 | 173 56.5 | 9.0 | 3 37.0 | 14.4 60.8 | 35 | 05 55 | 06 25 | 06 51 | 20 55 | 22 05 | 23 13 | 24 19 | |
| | 15 | 41 26.4 | 32.1 | 188 24.5 | 8.9 | 3 51.4 | 14.4 60.8 | 30 | 05 51 | 06 19 | 06 44 | 20 52 | 21 59 | 23 05 | 24 09 | |
| | 16 | 56 26.4 | 31.3 | 202 52.4 | 8.9 | 4 05.8 | 14.4 60.8 | 20 | 05 43 | 06 09 | 06 32 | 20 47 | 21 49 | 22 50 | 23 50 | |
| | 17 | 71 26.4 | 30.5 | 217 20.3 | 9.0 | 4 20.2 | 14.3 60.7 | N 10 | 05 34 | 05 59 | 06 21 | 20 43 | 21 40 | 22 38 | 23 35 | |
| | 18 | 86 26.4 | S14 29.7 | 231 48.3 | 9.0 S | 4 34.5 | 14.3 60.7 | 0 | 05 25 | 05 49 | 06 11 | 20 39 | 21 32 | 22 26 | 23 20 | |
| | 19 | 101 26.4 | 28.9 | 246 16.3 | 8.9 | 4 48.8 | 14.2 60.7 | S 10 | 05 13 | 05 39 | 06 00 | 20 35 | 21 24 | 22 14 | 23 05 | |
| | 20 | 116 26.3 | 28.1 | 260 44.2 | 9.0 | 5 03.0 | 14.2 60.7 | 20 | 04 59 | 05 26 | 05 49 | 20 31 | 21 16 | 22 02 | 22 50 | |
| | 21 | 131 26.3 | 27.3 | 275 12.2 | 9.0 | 5 17.2 | 14.2 60.6 | 30 | 04 41 | 05 11 | 05 36 | 20 27 | 21 06 | 21 48 | 22 32 | |
| | 22 | 146 26.3 | 26.4 | 289 40.2 | 9.0 | 5 31.4 | 14.1 60.6 | 35 | 04 30 | 05 02 | 05 29 | 20 24 | 21 01 | 21 40 | 22 21 | |
| 23 | 161 26.3 | 25.6 | 304 08.2 | 8.9 | 5 45.5 | 14.1 60.6 | 40 | 04 16 | 04 51 | 05 20 | 20 21 | 20 55 | 21 30 | 22 10 | | |
| M I E R C O L E S | 10 00 | 176 26.3 | S14 24.8 | 318 36.1 | 9.0 S | 5 59.6 | 14.0 60.6 | S 50 | 03 35 | 04 21 | 04 58 | 20 14 | 20 39 | 21 07 | 21 39 | |
| | 01 | 191 26.3 | 24.0 | 333 04.1 | 9.0 | 6 13.6 | 14.0 60.5 | 52 | 03 24 | 04 13 | 04 52 | 20 12 | 20 35 | 21 01 | 21 31 | |
| | 02 | 206 26.3 | 23.2 | 347 32.1 | 9.0 | 6 27.6 | 13.9 60.5 | 54 | 03 11 | 04 05 | 04 45 | 20 10 | 20 31 | 20 54 | 21 23 | |
| | 03 | 221 26.3 | 22.4 | 2 00.1 | 9.0 | 6 41.5 | 13.8 60.5 | 56 | 02 55 | 03 55 | 04 38 | 20 08 | 20 26 | 20 47 | 21 13 | |
| | 04 | 236 26.3 | 21.6 | 16 28.1 | 9.0 | 6 55.3 | 13.8 60.5 | 58 | 02 36 | 03 43 | 04 30 | 20 06 | 20 21 | 20 39 | 21 02 | |
| | 05 | 251 26.3 | 20.8 | 30 56.1 | 8.9 | 7 09.1 | 13.8 60.4 | S 60 | 02 11 | 03 29 | 04 21 | 20 03 | 20 15 | 20 30 | 20 49 | |
| | 06 | 266 26.3 | S14 20.0 | 45 24.0 | 9.0 S | 7 22.9 | 13.7 60.4 | | | | | | | | | |
| | 07 | 281 26.2 | 19.1 | 59 52.0 | 9.0 | 7 36.6 | 13.6 60.4 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| | 08 | 296 26.2 | 18.3 | 74 20.0 | 9.0 | 7 50.2 | 13.6 60.4 | | | Civil | Naut. | 9 | 10 | 11 | 12 | |
| | 09 | 311 26.2 | 17.5 | 88 48.0 | 8.9 | 8 03.8 | 13.5 60.3 | N 72 | 15 06 | 16 33 | 17 55 | 07 43 | 07 21 | 06 53 | 06 01 | |
| | 10 | 326 26.2 | 16.7 | 103 15.9 | 9.0 | 8 17.3 | 13.4 60.3 | N 70 | 15 32 | 16 45 | 17 59 | 07 46 | 07 32 | 07 16 | 06 52 | |
| | 11 | 341 26.2 | 15.9 | 117 43.9 | 9.0 | 8 30.7 | 13.4 60.3 | 68 | 15 51 | 16 55 | 18 02 | 07 48 | 07 41 | 07 34 | 07 24 | |
| | 12 | 356 26.2 | S14 15.1 | 132 11.9 | 8.9 S | 8 44.1 | 13.3 60.2 | 66 | 16 06 | 17 04 | 18 05 | 07 50 | 07 49 | 07 48 | 07 48 | |
| | 13 | 11 26.2 | 14.3 | 146 39.8 | 9.0 | 8 57.4 | 13.3 60.2 | 64 | 16 18 | 17 11 | 18 08 | 07 52 | 07 56 | 08 00 | 08 07 | |
| | 14 | 26 26.2 | 13.4 | 161 07.8 | 8.9 | 9 10.7 | 13.2 60.2 | 62 | 16 29 | 17 17 | 18 10 | 07 54 | 08 01 | 08 10 | 08 22 | |
| | 15 | 41 26.2 | 12.6 | 175 35.7 | 8.9 | 9 23.9 | 13.1 60.2 | 60 | 16 38 | 17 23 | 18 12 | 07 55 | 08 06 | 08 19 | 08 35 | |
| | 16 | 56 26.2 | 11.8 | 190 03.6 | 9.0 | 9 37.0 | 13.0 60.1 | N 58 | 16 46 | 17 28 | 18 14 | 07 56 | 08 11 | 08 27 | 08 47 | |
| | 17 | 71 26.2 | 11.0 | 204 31.6 | 8.9 | 9 50.0 | 13.0 60.1 | 56 | 16 53 | 17 32 | 18 16 | 07 57 | 08 15 | 08 34 | 08 57 | |
| | 18 | 86 26.2 | S14 10.2 | 218 59.5 | 8.9 S | 10 03.0 | 12.9 60.1 | 54 | 16 59 | 17 36 | 18 18 | 07 58 | 08 18 | 08 40 | 09 05 | |
| | 19 | 101 26.2 | 09.4 | 233 27.4 | 8.9 | 10 15.9 | 12.8 60.0 | 52 | 17 05 | 17 40 | 18 20 | 07 59 | 08 21 | 08 45 | 09 13 | |
| | 20 | 116 26.2 | 08.5 | 247 55.3 | 8.9 | 10 28.7 | 12.7 60.0 | 50 | 17 10 | 17 44 | 18 22 | 08 00 | 08 24 | 08 50 | 09 20 | |
| | 21 | 131 26.2 | 07.7 | 262 23.2 | 8.9 | 10 41.4 | 12.7 60.0 | 45 | 17 21 | 17 51 | 18 26 | 08 02 | 08 31 | 09 01 | 09 35 | |
| | 22 | 146 26.2 | 06.9 | 276 51.1 | 8.9 | 10 54.1 | 12.6 59.9 | N 40 | 17 30 | 17 58 | 18 30 | 08 03 | 08 36 | 09 10 | 09 48 | |
| 23 | 161 26.2 | 06.1 | 291 19.0 | 8.8 | 11 06.7 | 12.5 59.9 | 35 | 17 38 | 18 04 | 18 34 | 08 05 | 08 41 | 09 18 | 09 59 | | |
| J U E V E S | 11 00 | 176 26.2 | S14 05.3 | 305 46.8 | 8.9 S | 11 19.2 | 12.4 59.9 | 30 | 17 45 | 18 09 | 18 38 | 08 06 | 08 45 | 09 25 | 10 08 | |
| | 01 | 191 26.2 | 04.4 | 320 14.7 | 8.8 | 11 31.6 | 12.3 59.8 | 20 | 17 57 | 18 19 | 18 46 | 08 08 | 08 52 | 09 37 | 10 24 | |
| | 02 | 206 26.2 | 03.6 | 334 42.5 | 8.9 | 11 43.9 | 12.3 59.8 | N 10 | 18 08 | 18 29 | 18 54 | 08 09 | 08 58 | 09 48 | 10 38 | |
| | 03 | 221 26.2 | 02.8 | 349 10.4 | 8.8 | 11 56.2 | 12.1 59.8 | 0 | 18 18 | 18 39 | 19 04 | 08 11 | 08 04 | 09 58 | 10 52 | |
| | 04 | 236 26.2 | 02.0 | 3 38.2 | 8.8 | 12 08.3 | 12.1 59.7 | S 10 | 18 28 | 18 50 | 19 15 | 08 13 | 09 10 | 10 08 | 11 05 | |
| | 05 | 251 26.2 | 01.1 | 18 06.0 | 8.8 | 12 20.4 | 12.0 59.7 | 20 | 18 39 | 19 02 | 19 29 | 08 14 | 09 17 | 10 18 | 11 19 | |
| | 06 | 266 26.2 | S14 00.3 | 32 33.8 | 8.8 S | 12 32.4 | 11.9 59.7 | 30 | 18 52 | 19 17 | 19 47 | 08 16 | 09 24 | 10 30 | 11 36 | |
| | 07 | 281 26.2 | 13 59.5 | 47 01.6 | 8.7 | 12 44.3 | 11.8 59.6 | 35 | 18 59 | 19 23 | 19 58 | 08 17 | 09 28 | 10 37 | 11 45 | |
| | 08 | 296 26.2 | 58.7 | 61 29.3 | 8.8 | 12 56.1 | 11.8 59.6 | 40 | 19 08 | 19 37 | 20 12 | 08 19 | 09 33 | 10 46 | 11 56 | |
| | 09 | 311 26.2 | 57.9 | 75 57.1 | 8.7 | 13 07.9 | 11.6 59.6 | 45 | 19 18 | 19 50 | 20 29 | 08 20 | 09 38 | 10 55 | 12 09 | |
| | 10 | 326 26.2 | 57.0 | 90 24.8 | 8.8 | 13 19.5 | 11.5 59.5 | S 50 | 19 30 | 20 06 | 20 52 | 08 22 | 09 45 | 11 06 | 12 25 | |
| | 11 | 341 26.2 | 56.2 | 104 52.6 | 8.7 | 13 31.0 | 11.5 59.5 | 52 | 19 35 | 20 14 | 21 03 | 08 23 | 09 48 | 11 12 | 12 32 | |
| | 12 | 356 26.2 | S13 55.4 | 119 20.3 | 8.7 S | 13 42.5 | 11.3 59.5 | 54 | 19 42 | 20 22 | 21 16 | 08 24 | 09 52 | 11 18 | 12 40 | |
| | 13 | 11 26.2 | 54.6 | 133 48.0 | 8.7 | 13 53.8 | 11.3 59.4 | 56 | 19 49 | 20 32 | 21 31 | 08 24 | 09 55 | 11 24 | 12 50 | |
| | 14 | 26 26.2 | 53.7 | 148 15.7 | 8.6 | 14 05.1 | 11.2 59.4 | 58 | 19 57 | 20 44 | 21 49 | 08 26 | 10 00 | 11 32 | 13 00 | |
| | 15 | 41 26.2 | 52.9 | 162 43.3 | 8.7 | 14 16.3 | 11.0 59.4 | S 60 | 20 05 | 20 57 | 22 13 | 08 27 | 10 04 | 11 40 | 13 12 | |
| | 16 | 56 26.2 | 52.1 | 177 11.0 | 8.6 | 14 27.3 | 11.0 59.3 | | | | | | | | | |
| | 17 | 71 26.2 | 51.3 | 191 38.6 | 8.7 | 14 38.3 | 10.8 59.3 | Día | SOL | | LUNA | | | | | |
| | 18 | 86 26.2 | S13 50.4 | 206 06.3 | 8.6 S | 14 49.1 | 10.8 59.3 | | E.T. (-) | Pas. Mer. | Pas. Mer. | | Edad. | Fase | | |
| | 19 | 101 26.2 | 49.6 | 220 33.9 | 8.6 | 14 59.9 | 10.7 59.2 | 9 | 00 h | 12 h | h m | h m | h m | d | | |
| | 20 | 116 26.2 | 48.8 | 235 01.5 | 8.6 | 15 10.6 | 10.5 59.2 | 10 | m s | m s | h m | h m | h m | 18 | | |
| | 21 | 131 26.2 | 47.9 | 249 29.1 | 8.5 | 15 21.1 | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.6 | | MARTE -0.5 | | JUPITER -2.3 | | SATURNO +0.7 | | ESTRELLAS | | |
|-------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|------|--------------|------|--------------------|----------|------|
| | A.H.G. | A.H.G. Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| 12 00 | 142 03.3 | 135 54.9 N 5 42.9 | 42 15.7 N26 52.2 | 308 14.2 S 4 18.1 | 178 06.8 S15 25.0 | Acomar | 315 29.9 S40 20.2 | | | | | | |
| 01 | 157 05.8 | 150 55.7 44.0 | 57 18.3 52.1 | 323 16.8 18.1 | 193 08.9 24.9 | Achernar | 335 38.2 S57 16.5 | | | | | | |
| 02 | 172 08.2 | 165 56.6 45.1 | 72 20.9 52.0 | 338 19.3 18.0 | 208 11.1 24.8 | Acruz | 173 25.9 S63 03.6 | | | | | | |
| 03 | 187 10.7 | 180 57.4 ·· 46.2 | 87 23.5 ·· 52.0 | 353 21.9 ·· 18.0 | 223 13.3 ·· 24.7 | Adhara | 255 24.2 S28 58.0 | | | | | | |
| 04 | 202 13.1 | 195 58.3 47.3 | 102 26.1 51.9 | 8 24.4 17.9 | 238 15.4 24.6 | Aldebaran | 291 06.7 N16 29.8 | | | | | | |
| 05 | 217 15.6 | 210 59.1 48.3 | 117 28.7 51.9 | 23 27.0 17.8 | 253 17.6 24.5 | | | | | | | | |
| 06 | 232 18.1 | 226 00.0 N 5 49.4 | 132 31.2 N26 51.8 | 38 29.6 S 4 17.8 | 268 19.8 S15 24.4 | Alioth | 166 33.5 N55 59.4 | | | | | | |
| 07 | 247 20.5 | 241 00.8 50.5 | 147 33.8 51.8 | 53 32.1 17.7 | 283 21.9 24.3 | Alkaid | 153 10.6 N49 20.5 | | | | | | |
| 08 | 262 23.0 | 256 01.7 51.6 | 162 36.4 51.7 | 68 34.7 17.7 | 298 24.1 24.2 | Al Na'ir | 28 03.1 S46 59.7 | | | | | | |
| 09 | 277 25.5 | 271 02.6 ·· 52.7 | 177 39.0 ·· 51.7 | 83 37.3 ·· 17.6 | 313 26.3 ·· 24.1 | Alnilam | 276 01.6 S 1 12.5 | | | | | | |
| 10 | 292 27.9 | 286 03.4 53.8 | 192 41.5 51.6 | 98 39.8 17.6 | 328 28.4 24.0 | Alphard | 218 10.7 S 8 37.9 | | | | | | |
| 11 | 307 30.4 | 301 04.3 54.9 | 207 44.1 51.5 | 113 42.4 17.5 | 343 30.6 23.9 | | | | | | | | |
| 12 | 322 32.9 | 316 05.2 N 5 56.0 | 222 46.7 N26 51.5 | 128 45.0 S 4 17.5 | 358 32.8 S15 23.8 | Alphecca | 126 23.8 N26 44.0 | | | | | | |
| 13 | 337 35.3 | 331 06.0 57.1 | 237 49.2 51.4 | 143 47.5 17.4 | 13 35.0 23.7 | Alpheratz | 357 59.5 N29 03.3 | | | | | | |
| 14 | 352 37.8 | 346 06.9 58.1 | 252 51.8 51.4 | 158 50.1 17.4 | 28 37.1 23.6 | Altair | 62 23.3 N 8 50.9 | | | | | | |
| 15 | 7 40.2 | 1 07.8 5 59.2 | 267 54.4 ·· 51.3 | 173 52.7 ·· 17.3 | 43 39.3 ·· 23.5 | Ankaa | 353 30.9 S42 20.7 | | | | | | |
| 16 | 22 42.7 | 16 08.6 6 00.3 | 282 56.9 51.3 | 188 55.2 17.3 | 58 41.5 23.4 | Antares | 112 45.0 S26 25.0 | | | | | | |
| 17 | 37 45.2 | 31 09.5 01.4 | 297 59.5 51.2 | 203 57.8 17.2 | 73 43.6 23.4 | | | | | | | | |
| 18 | 52 47.6 | 46 10.4 N 6 02.5 | 313 02.1 N26 51.2 | 219 00.4 S 4 17.2 | 88 45.8 S15 23.3 | Arcturus | 146 09.4 N19 12.8 | | | | | | |
| 19 | 67 50.1 | 61 11.3 03.6 | 328 04.6 51.1 | 234 02.9 17.1 | 103 48.0 23.2 | Atria | 108 00.7 S69 00.7 | | | | | | |
| 20 | 82 52.6 | 76 12.1 04.6 | 343 07.2 51.0 | 249 05.5 17.0 | 118 50.1 23.1 | Avior | 234 23.6 S59 29.5 | | | | | | |
| 21 | 97 55.0 | 91 13.0 ·· 05.7 | 358 09.7 ·· 51.0 | 264 08.1 ·· 17.0 | 133 52.3 ·· 23.0 | Bellatrix | 278 48.1 N 6 20.5 | | | | | | |
| 22 | 112 57.5 | 106 13.9 06.8 | 13 12.3 50.9 | 279 10.6 16.9 | 148 54.5 22.9 | Betelgeuse | 271 17.5 N 7 24.3 | | | | | | |
| 23 | 128 00.0 | 121 14.8 07.9 | 28 14.8 50.9 | 294 13.2 16.9 | 163 56.6 22.8 | | | | | | | | |
| 13 00 | 143 02.4 | 136 15.7 N 6 09.0 | 43 17.4 N26 50.8 | 309 15.8 S 4 16.8 | 178 58.8 S15 22.7 | Canopus | 264 02.5 S52 41.8 | | | | | | |
| 01 | 158 04.9 | 151 16.5 10.1 | 58 19.9 50.8 | 324 18.3 16.8 | 194 01.0 22.6 | Capella | 280 56.7 N45 59.6 | | | | | | |
| 02 | 173 07.4 | 166 17.4 11.1 | 73 22.5 50.7 | 339 20.9 16.7 | 209 03.1 22.5 | Deneb | 49 42.3 N45 15.3 | | | | | | |
| 03 | 188 09.8 | 181 18.3 ·· 12.2 | 88 25.0 ·· 50.6 | 354 23.5 ·· 16.7 | 224 05.3 ·· 22.4 | Denebola | 182 48.8 N14 36.4 | | | | | | |
| 04 | 203 12.3 | 196 19.2 13.3 | 103 27.6 50.6 | 9 26.0 16.6 | 239 07.5 22.3 | Diphda | 349 11.3 S18 01.5 | | | | | | |
| 05 | 218 14.7 | 211 20.1 14.4 | 118 30.1 50.5 | 24 28.6 16.6 | 254 09.6 22.2 | | | | | | | | |
| 06 | 233 17.2 | 226 21.0 N 6 15.4 | 133 32.7 N26 50.5 | 39 31.2 S 4 16.5 | 269 11.8 S15 22.1 | Dubhe | 194 09.5 N61 47.0 | | | | | | |
| 07 | 248 19.7 | 241 21.9 16.5 | 148 35.2 50.4 | 54 33.8 16.4 | 284 14.0 22.0 | Elnath | 278 31.6 N28 36.2 | | | | | | |
| 08 | 263 22.1 | 256 22.8 17.6 | 163 37.7 50.3 | 69 36.3 16.4 | 299 16.1 21.9 | Eltanin | 90 53.5 N51 29.1 | | | | | | |
| 09 | 278 24.6 | 271 23.7 ·· 18.7 | 178 40.3 ·· 50.3 | 84 38.9 ·· 16.3 | 314 18.3 ·· 21.8 | Enif | 34 02.3 N 9 50.6 | | | | | | |
| 10 | 293 27.1 | 286 24.6 19.8 | 193 42.8 50.2 | 99 41.5 16.3 | 329 20.5 21.8 | Fomalhaut | 15 41.0 S29 39.6 | | | | | | |
| 11 | 308 29.5 | 301 25.5 20.8 | 208 45.3 50.2 | 114 44.0 16.2 | 344 22.6 21.7 | | | | | | | | |
| 12 | 323 32.0 | 316 26.4 N 6 21.9 | 223 47.9 N26 50.1 | 129 46.6 S 4 16.2 | 359 24.8 S15 21.6 | Gacrux | 172 17.5 S57 04.5 | | | | | | |
| 13 | 338 34.5 | 331 27.3 23.0 | 238 50.4 50.1 | 144 49.2 16.1 | 14 27.0 21.5 | Gienah | 176 07.7 S17 30.4 | | | | | | |
| 14 | 353 36.9 | 346 28.2 24.0 | 253 52.9 50.0 | 159 51.8 16.0 | 29 29.1 21.4 | Hadar | 149 09.3 S60 20.3 | | | | | | |
| 15 | 8 39.4 | 1 29.1 ·· 25.1 | 268 55.5 ·· 49.9 | 174 54.3 ·· 16.0 | 44 31.3 ·· 21.3 | Hamal | 328 18.0 N23 25.9 | | | | | | |
| 16 | 23 41.9 | 16 30.0 26.2 | 283 58.0 49.9 | 189 56.9 15.9 | 59 33.5 21.2 | Kaus Aust. | 84 04.2 S34 23.2 | | | | | | |
| 17 | 38 44.3 | 31 30.9 27.3 | 299 00.5 49.8 | 204 59.5 15.9 | 74 35.6 21.1 | | | | | | | | |
| 18 | 53 46.8 | 46 31.8 N 6 28.3 | 314 03.1 N26 49.8 | 220 02.1 S 4 15.8 | 89 37.8 S15 21.0 | Kochab | 137 19.1 N74 10.6 | | | | | | |
| 19 | 68 49.2 | 61 32.8 29.4 | 329 05.6 49.7 | 235 04.6 15.8 | 104 40.0 20.9 | Markab | 13 53.8 N15 10.1 | | | | | | |
| 20 | 83 51.7 | 76 33.7 30.5 | 344 08.1 49.6 | 250 07.2 15.7 | 119 42.1 20.8 | Menkar | 314 31.0 N 4 03.8 | | | | | | |
| 21 | 98 54.2 | 91 34.6 ·· 31.5 | 359 10.6 ·· 49.6 | 265 09.8 ·· 15.7 | 134 44.3 ·· 20.7 | Menkent | 148 25.4 S36 20.2 | | | | | | |
| 22 | 113 56.6 | 106 35.5 32.6 | 14 13.1 49.5 | 280 12.4 15.6 | 149 46.5 20.6 | Miaplacidus | 221 42.0 S69 41.5 | | | | | | |
| 23 | 128 59.1 | 121 36.4 33.7 | 29 15.7 49.5 | 295 14.9 15.5 | 164 48.6 20.5 | | | | | | | | |
| 14 00 | 144 01.6 | 136 37.4 N 6 34.7 | 44 18.2 N26 49.4 | 310 17.5 S 4 15.5 | 179 50.8 S15 20.4 | Mirfak | 309 02.2 N49 50.5 | | | | | | |
| 01 | 159 04.0 | 151 38.3 35.8 | 59 20.7 49.3 | 325 20.1 15.4 | 194 53.0 20.3 | Nunki | 76 17.4 S26 18.3 | | | | | | |
| 02 | 174 06.5 | 166 39.2 36.9 | 74 23.2 49.3 | 340 22.7 15.4 | 209 55.2 20.2 | Peacock | 53 43.6 S56 45.4 | | | | | | |
| 03 | 189 09.0 | 181 40.1 ·· 37.9 | 89 25.7 ·· 49.2 | 355 25.2 ·· 15.3 | 224 57.3 ·· 20.2 | Pollux | 243 45.9 N28 02.5 | | | | | | |
| 04 | 204 11.4 | 196 41.1 39.0 | 104 28.2 49.2 | 10 27.8 15.2 | 239 59.5 20.1 | Procyon | 245 15.3 N 5 14.4 | | | | | | |
| 05 | 219 13.9 | 211 42.0 40.1 | 119 30.7 49.1 | 25 30.4 15.2 | 255 01.7 20.0 | | | | | | | | |
| 06 | 234 16.3 | 226 42.9 N 6 41.1 | 134 33.2 N26 49.0 | 40 33.0 S 4 15.1 | 270 03.8 S15 19.9 | Rasalhague | 96 20.7 N12 33.7 | | | | | | |
| 07 | 249 18.8 | 241 43.9 42.2 | 149 35.7 49.0 | 55 35.5 15.1 | 285 06.0 19.8 | Regulus | 207 59.3 N11 59.8 | | | | | | |
| 08 | 264 21.3 | 256 44.8 43.3 | 164 38.2 48.9 | 70 38.1 15.0 | 300 08.2 19.7 | Rigel | 281 26.5 S 8 12.7 | | | | | | |
| 09 | 279 23.7 | 271 45.7 ·· 44.3 | 179 40.7 ·· 48.8 | 85 40.7 ·· 15.0 | 315 10.3 ·· 19.6 | Rigel Kent. | 140 12.3 S60 48.2 | | | | | | |
| 10 | 294 26.2 | 286 46.7 45.4 | 194 43.2 48.8 | 100 43.3 14.9 | 330 12.5 19.5 | Sabik | 102 30.1 S15 43.0 | | | | | | |
| 11 | 309 28.7 | 301 47.6 46.4 | 209 45.7 48.7 | 115 45.9 14.8 | 345 14.7 19.4 | | | | | | | | |
| 12 | 324 31.1 | 316 48.6 N 6 47.5 | 224 48.2 N26 48.7 | 130 48.4 S 4 14.8 | 0 16.8 S15 19.3 | Schedar | 349 58.3 N56 30.2 | | | | | | |
| 13 | 339 33.6 | 331 49.5 48.6 | 239 50.7 48.6 | 145 51.0 14.7 | 15 19.0 19.2 | Shaula | 96 42.7 S37 05.9 | | | | | | |
| 14 | 354 36.1 | 346 50.5 49.6 | 254 53.2 48.5 | 160 53.6 14.7 | 30 21.2 19.1 | Sirius | 258 46.8 S16 42.6 | | | | | | |
| 15 | 9 38.5 | 1 51.4 ·· 50.7 | 269 55.7 ·· 48.5 | 175 56.2 ·· 14.6 | 45 23.3 ·· 19.0 | Spica | 158 47.1 S11 07.7 | | | | | | |
| 16 | 24 41.0 | 16 52.4 51.7 | 284 58.2 48.4 | 190 58.8 14.5 | 60 25.5 18.9 | Suhail | 223 03.2 S43 24.5 | | | | | | |
| 17 | 39 43.5 | 31 53.3 52.8 | 300 00.7 48.4 | 206 01.3 14.5 | 75 27.7 18.8 | | | | | | | | |
| 18 | 54 45.9 | 46 54.3 N 6 53.8 | 315 03.2 N26 48.3 | 221 03.9 S 4 14.4 | 90 29.8 S15 18.7 | Vega | 80 49.5 N38 46.4 | | | | | | |
| 19 | 69 48.4 | 61 55.2 54.9 | 330 05.7 48.2 | 236 06.5 14.4 | 105 32.0 18.6 | Zuben'ubi | 137 22.2 S16 00.9 | | | | | | |
| 20 | 84 50.8 | 76 56.2 55.9 | 345 08.2 48.2 | 251 09.1 14.3 | 120 34.2 18.5 | | | | | | | | |
| 21 | 99 53.3 | 91 57.1 ·· 57.0 | 0 10.7 ·· 48.1 | 266 11.7 ·· 14.2 | 135 36.3 ·· 18.5 | | | | | | | | |
| 22 | 114 55.8 | 106 58.1 58.1 | 15 13.1 48.0 | 281 14.3 14.2 | 150 38.5 18.4 | | | | | | | | |
| 23 | 129 58.2 | 121 59.1 59.1 | 30 15.6 48.0 | 296 16.8 14.1 | 165 40.7 18.3 | | | | | | | | |
| | | | | | | | | | | | A. H. S. Pas. Mer. | | |
| | | | | | | | | | | | o / h m | | |
| Pas. Mer. 14 25.5 | | | | | | | | | | | v 0.9 d 1.1 | | |
| | | | | | | | | | | | v 2.5 d 0.1 | | |
| | | | | | | | | | | | v 2.6 d 0.1 | | |
| | | | | | | | | | | | v 2.2 d 0.1 | | |
| | | | | | | | | | | | v 2.2 d 0.1 | | |
| | | | | | | | | | | | v 2.2 d 0.1 | | |
| | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|---------------------------------|--------|------|------|------|--------|------|------|-----|------|------------|-------|----------|-----------|------------------|------------|-------|-------|-------|-------|-------|---|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 12 | 13 | 14 | 15 | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | | | | | |
| V I E R N E S | 12 00 | 176 | 26.2 | S13 | 45.5 | 292 | 51.7 | 8.5 | S15 | 52.2 | 10.1 | 59.1 | N 72 | 06 23 | 07 44 | 09 05 | 02 58 | ■ | ■ | ■ | |
| | 01 | 191 | 26.2 | | 44.6 | 307 | 19.2 | 8.5 | 16 | 02.3 | 10.0 | 59.0 | N 70 | 06 20 | 07 33 | 08 43 | 02 09 | ■ | ■ | ■ | |
| | 02 | 206 | 26.2 | | 43.8 | 321 | 46.7 | 8.5 | 16 | 12.3 | 10.0 | 59.0 | 68 | 06 18 | 07 24 | 08 26 | 01 37 | 03 46 | ■ | ■ | ■ |
| | 03 | 221 | 26.2 | | 43.0 | 336 | 14.2 | 8.5 | 16 | 22.3 | 9.8 | 58.9 | 66 | 06 16 | 07 16 | 08 13 | 01 15 | 03 05 | 04 50 | 06 13 | |
| | 04 | 236 | 26.2 | | 42.1 | 350 | 41.7 | 8.5 | 16 | 32.1 | 9.7 | 58.9 | 64 | 06 14 | 07 10 | 08 01 | 00 57 | 02 38 | 04 09 | 05 21 | |
| | 05 | 251 | 26.3 | | 41.3 | 5 | 09.2 | 8.4 | 16 | 41.8 | 9.6 | 58.9 | 62 | 06 12 | 07 04 | 07 52 | 00 42 | 02 17 | 03 41 | 04 49 | |
| | 06 | 266 | 26.3 | S13 | 40.5 | 19 | 36.6 | 8.5 | S16 | 51.4 | 9.5 | 58.8 | 60 | 06 10 | 06 59 | 07 44 | 00 30 | 01 59 | 03 20 | 04 26 | |
| | 07 | 281 | 26.3 | | 39.6 | 34 | 04.1 | 8.4 | 17 | 00.9 | 9.3 | 58.8 | N 58 | 06 09 | 06 55 | 07 36 | 00 19 | 01 45 | 03 02 | 04 07 | |
| | 08 | 296 | 26.3 | | 38.8 | 48 | 31.5 | 8.4 | 17 | 10.2 | 9.3 | 58.8 | 56 | 06 07 | 06 51 | 07 30 | 00 10 | 01 33 | 02 48 | 03 51 | |
| | 09 | 311 | 26.3 | | 38.0 | 62 | 58.9 | 8.4 | 17 | 19.5 | 9.1 | 58.7 | 54 | 06 06 | 06 47 | 07 24 | 00 02 | 01 22 | 02 35 | 03 37 | |
| | 10 | 326 | 26.3 | | 37.1 | 77 | 26.3 | 8.3 | 17 | 28.6 | 9.1 | 58.7 | 52 | 06 04 | 06 44 | 07 19 | 25 13 | 01 13 | 02 24 | 03 25 | |
| | 11 | 341 | 26.3 | | 36.3 | 91 | 53.6 | 8.4 | 17 | 37.7 | 8.9 | 58.7 | 50 | 06 03 | 06 41 | 07 14 | 25 04 | 01 04 | 02 14 | 03 15 | |
| | 12 | 356 | 26.3 | S13 | 35.5 | 106 | 21.0 | 8.3 | S17 | 46.6 | 8.8 | 58.6 | 45 | 05 59 | 06 34 | 07 04 | 24 46 | 00 46 | 01 53 | 02 53 | |
| | 13 | 11 | 26.3 | | 34.6 | 120 | 48.3 | 8.4 | 17 | 55.4 | 8.7 | 58.6 | N 40 | 05 56 | 06 28 | 06 56 | 24 32 | 00 32 | 01 36 | 02 35 | |
| | 14 | 26 | 26.3 | | 33.8 | 135 | 15.7 | 8.3 | 18 | 04.1 | 8.5 | 58.6 | 35 | 05 52 | 06 22 | 06 48 | 24 19 | 00 19 | 01 22 | 02 20 | |
| | 15 | 41 | 26.4 | | 33.0 | 149 | 43.0 | 8.3 | 18 | 12.6 | 8.5 | 58.5 | 30 | 05 49 | 06 17 | 06 42 | 24 09 | 00 09 | 01 10 | 02 07 | |
| | 16 | 56 | 26.4 | | 32.1 | 164 | 10.3 | 8.3 | 18 | 21.1 | 8.3 | 58.5 | 20 | 05 42 | 06 08 | 06 30 | 23 50 | 24 49 | 00 49 | 01 46 | |
| | 17 | 71 | 26.4 | | 31.3 | 178 | 37.6 | 8.3 | 18 | 29.4 | 8.2 | 58.4 | N 10 | 05 34 | 05 59 | 06 20 | 23 35 | 24 31 | 00 31 | 01 26 | |
| | 18 | 86 | 26.4 | S13 | 30.4 | 193 | 04.9 | 8.2 | S18 | 37.6 | 8.1 | 58.4 | 0 | 05 25 | 05 50 | 06 11 | 23 20 | 24 14 | 00 14 | 01 09 | |
| | 19 | 101 | 26.4 | | 29.6 | 207 | 32.1 | 8.3 | 18 | 45.7 | 8.0 | 58.4 | S 10 | 05 14 | 05 40 | 06 01 | 23 05 | 23 58 | 24 51 | 00 51 | |
| | 20 | 116 | 26.4 | | 28.8 | 221 | 59.4 | 8.2 | 18 | 53.7 | 7.8 | 58.3 | 20 | 05 01 | 05 28 | 05 51 | 22 50 | 23 40 | 24 32 | 00 32 | |
| | 21 | 131 | 26.4 | | 27.9 | 236 | 26.6 | 8.3 | 19 | 01.5 | 7.8 | 58.3 | 30 | 04 44 | 05 14 | 05 39 | 22 32 | 23 19 | 24 10 | 00 10 | |
| | 22 | 146 | 26.4 | | 27.1 | 250 | 53.9 | 8.2 | 19 | 09.3 | 7.6 | 58.3 | 35 | 04 33 | 05 05 | 05 32 | 22 21 | 23 07 | 23 57 | 24 51 | |
| 23 | 161 | 26.4 | | 26.3 | 265 | 21.1 | 8.2 | 19 | 16.9 | 7.5 | 58.2 | 40 | 04 20 | 04 55 | 05 24 | 22 10 | 22 54 | 23 43 | 24 37 | | |
| 13 00 | 176 | 26.5 | S13 | 25.4 | 279 | 48.3 | 8.2 | S19 | 24.4 | 7.3 | 58.2 | 45 | 04 04 | 04 43 | 05 14 | 21 56 | 22 38 | 23 25 | 24 19 | | |
| 01 | 191 | 26.5 | | 24.6 | 294 | 15.5 | 8.2 | 19 | 31.7 | 7.3 | 58.2 | S 50 | 03 42 | 04 27 | 05 03 | 21 39 | 22 18 | 23 04 | 23 58 | | |
| 02 | 206 | 26.5 | | 23.7 | 308 | 42.7 | 8.2 | 19 | 39.0 | 7.1 | 58.1 | 52 | 03 32 | 04 20 | 04 58 | 21 31 | 22 08 | 22 54 | 23 47 | | |
| 03 | 221 | 26.5 | | 22.9 | 323 | 09.9 | 8.2 | 19 | 46.1 | 7.0 | 58.1 | 54 | 03 19 | 04 12 | 04 52 | 21 23 | 21 58 | 22 42 | 23 36 | | |
| 04 | 236 | 26.5 | | 22.1 | 337 | 37.1 | 8.2 | 19 | 53.1 | 6.9 | 58.1 | 56 | 03 05 | 04 02 | 04 45 | 21 13 | 21 46 | 22 29 | 23 23 | | |
| 05 | 251 | 26.5 | | 21.2 | 352 | 04.3 | 8.1 | 20 | 00.0 | 6.7 | 58.0 | 58 | 02 48 | 03 52 | 04 38 | 21 02 | 21 32 | 22 14 | 23 07 | | |
| 06 | 266 | 26.6 | S13 | 20.4 | 6 | 31.4 | 8.2 | S20 | 06.7 | 6.6 | 58.0 | S 60 | 02 26 | 03 39 | 04 29 | 20 49 | 21 16 | 21 55 | 22 49 | | |
| 07 | 281 | 26.6 | | 19.5 | 20 | 58.6 | 8.1 | 20 | 13.3 | 6.5 | 57.9 | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | 12 | 13 | 14 | 15 | | |
| 08 | 296 | 26.6 | | 18.7 | 35 | 25.7 | 8.2 | 20 | 19.8 | 6.4 | 57.9 | Naut. | | | | | | | | | |
| 09 | 311 | 26.6 | | 17.9 | 49 | 52.9 | 8.1 | 20 | 26.2 | 6.2 | 57.9 | h m | h m | h m | h m | h m | h m | h m | h m | | |
| 10 | 326 | 26.6 | | 17.0 | 64 | 20.0 | 8.1 | 20 | 32.4 | 6.1 | 57.8 | N 72 | 15 25 | 16 46 | 18 08 | 06 01 | ■ | ■ | ■ | | |
| 11 | 341 | 26.6 | | 16.2 | 78 | 47.1 | 8.2 | 20 | 38.5 | 6.0 | 57.8 | N 70 | 15 46 | 16 57 | 18 10 | 06 52 | ■ | ■ | ■ | | |
| 12 | 356 | 26.7 | S13 | 15.3 | 93 | 14.3 | 8.1 | S20 | 44.5 | 5.9 | 57.8 | 68 | 16 03 | 17 06 | 18 12 | 07 24 | 07 09 | ■ | ■ | | |
| 13 | 11 | 26.7 | | 14.5 | 107 | 41.4 | 8.1 | 20 | 50.4 | 5.7 | 57.7 | 66 | 16 17 | 17 13 | 18 14 | 07 48 | 07 50 | 07 59 | 08 30 | | |
| 14 | 26 | 26.7 | | 13.6 | 122 | 08.5 | 8.1 | 20 | 56.1 | 5.6 | 57.7 | 64 | 16 28 | 17 20 | 18 16 | 08 07 | 08 19 | 08 41 | 09 22 | | |
| 15 | 41 | 26.7 | | 12.8 | 136 | 35.6 | 8.2 | 21 | 01.7 | 5.5 | 57.7 | 62 | 16 38 | 17 25 | 18 18 | 08 22 | 08 40 | 09 09 | 09 53 | | |
| 16 | 56 | 26.7 | | 11.9 | 151 | 02.8 | 8.1 | 21 | 07.2 | 5.4 | 57.6 | 60 | 16 46 | 17 30 | 18 19 | 08 35 | 08 58 | 09 31 | 10 17 | | |
| 17 | 71 | 26.7 | | 11.1 | 165 | 29.9 | 8.1 | 21 | 12.6 | 5.2 | 57.6 | N 58 | 16 53 | 17 35 | 18 21 | 08 47 | 09 13 | 09 49 | 10 36 | | |
| 18 | 86 | 26.8 | S13 | 10.3 | 179 | 57.0 | 8.1 | S21 | 17.8 | 5.1 | 57.6 | 56 | 16 59 | 17 39 | 18 22 | 08 57 | 09 26 | 10 04 | 10 52 | | |
| 19 | 101 | 26.8 | | 09.4 | 194 | 24.1 | 8.1 | 21 | 22.9 | 4.9 | 57.5 | 54 | 17 05 | 17 42 | 18 24 | 09 05 | 09 37 | 10 16 | 11 06 | | |
| 20 | 116 | 26.8 | | 08.6 | 208 | 51.2 | 8.2 | 21 | 27.8 | 4.9 | 57.5 | 52 | 17 10 | 17 45 | 18 25 | 09 13 | 09 47 | 10 28 | 11 17 | | |
| 21 | 131 | 26.8 | | 07.7 | 223 | 18.4 | 8.1 | 21 | 32.7 | 4.7 | 57.5 | 50 | 17 15 | 17 49 | 18 26 | 09 20 | 09 55 | 10 38 | 11 28 | | |
| 22 | 146 | 26.8 | | 06.9 | 237 | 45.5 | 8.1 | 21 | 37.4 | 4.5 | 57.4 | 45 | 17 25 | 17 55 | 18 30 | 09 35 | 10 14 | 10 59 | 11 50 | | |
| 23 | 161 | 26.9 | | 06.0 | 252 | 12.6 | 8.1 | 21 | 41.9 | 4.5 | 57.4 | N 40 | 17 33 | 18 01 | 18 33 | 09 48 | 10 29 | 11 16 | 12 08 | | |
| 14 00 | 176 | 26.9 | S13 | 05.2 | 266 | 39.7 | 8.2 | S21 | 46.4 | 4.3 | 57.4 | 35 | 17 41 | 18 07 | 18 36 | 09 59 | 10 42 | 11 31 | 12 23 | | |
| 01 | 191 | 26.9 | | 04.3 | 281 | 06.9 | 8.1 | 21 | 50.7 | 4.2 | 57.3 | 30 | 17 47 | 18 12 | 18 40 | 10 08 | 10 54 | 11 43 | 12 36 | | |
| 02 | 206 | 26.9 | | 03.5 | 295 | 34.0 | 8.2 | 21 | 54.9 | 4.0 | 57.3 | 20 | 17 58 | 18 21 | 18 47 | 10 24 | 11 13 | 12 05 | 12 58 | | |
| 03 | 221 | 27.0 | | 02.6 | 310 | 01.2 | 8.1 | 21 | 58.9 | 3.9 | 57.3 | N 10 | 18 08 | 18 30 | 18 55 | 10 38 | 11 30 | 12 23 | 13 17 | | |
| 04 | 236 | 27.0 | | 01.8 | 324 | 28.3 | 8.2 | 22 | 02.8 | 3.8 | 57.2 | 0 | 18 18 | 18 39 | 19 04 | 10 52 | 11 46 | 12 41 | 13 34 | | |
| 05 | 251 | 27.0 | | 00.9 | 338 | 55.5 | 8.2 | 22 | 06.6 | 3.7 | 57.2 | S 10 | 18 27 | 18 49 | 19 14 | 11 05 | 12 02 | 12 58 | 13 52 | | |
| 06 | 266 | 27.0 | S13 | 00.1 | 353 | 22.7 | 8.2 | S22 | 10.3 | 3.5 | 57.2 | 20 | 18 37 | 19 00 | 19 27 | 11 19 | 12 19 | 13 17 | 14 11 | | |
| 07 | 281 | 27.0 | | 59.2 | 7 | 49.9 | 8.2 | 22 | 13.8 | 3.4 | 57.1 | 30 | 18 49 | 19 14 | 19 44 | 11 36 | 12 38 | 13 38 | 14 33 | | |
| 08 | 296 | 27.1 | | 58.4 | 22 | 17.1 | 8.2 | 22 | 17.2 | 3.3 | 57.1 | 35 | 18 56 | 19 23 | 19 55 | 11 45 | 12 50 | 13 51 | 14 46 | | |
| 09 | 311 | 27.1 | | 57.5 | 36 | 44.3 | 8.2 | 22 | 20.5 | 3.1 | 57.1 | 40 | 19 04 | 19 33 | 20 08 | 11 56 | 13 03 | 14 05 | 15 01 | | |
| 10 | 326 | 27.1 | | 56.7 | 51 | 11.5 | 8.2 | 22 | 23.6 | 3.0 | 57.0 | 45 | 19 13 | 19 45 | 20 24 | 12 09 | 13 19 | 14 22 | 15 18 | | |
| 11 | 341 | 27.1 | | 55.8 | 65 | 38.7 | 8.3 | 22 | 26.6 | 2.9 | 57.0 | S 50 | 19 24 | 20 00 | 20 45 | 12 25 | 13 38 | 14 44 | 15 40 | | |
| 12 | 356 | 27.2 | S12 | 55.0 | 80 | 06.0 | 8.2 | S22 | 29.5 | 2.7 | 57.0 | 52 | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.6 | | | MARTE -0.4 | | | JUPITER -2.3 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|------|------------|----------|------|--------------|----------|------|--------------|----------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | |
| 15 00 | 145 00.7 | 137 00.0 | N 7 00.2 | 45 18.1 | N26 47.9 | | 311 19.4 | S 4 14.1 | | 180 42.8 | S15 18.2 | | Acamar | 315 29.9 | S40 20.2 | | | |
| 01 | 160 03.2 | 152 01.0 | 01.2 | 60 20.6 | 47.8 | | 326 22.0 | 14.0 | | 195 45.0 | 18.1 | | Achernar | 335 38.2 | S57 16.5 | | | |
| 02 | 175 05.6 | 167 02.0 | 02.3 | 75 23.1 | 47.8 | | 341 24.6 | 13.9 | | 210 47.2 | 18.0 | | Acruz | 173 25.8 | S63 03.6 | | | |
| 03 | 190 08.1 | 182 02.9 | 03.3 | 90 25.5 | 47.7 | | 356 27.2 | 13.9 | | 225 49.3 | 17.9 | | Adhara | 255 24.2 | S28 58.0 | | | |
| 04 | 205 10.6 | 197 03.9 | 04.4 | 105 28.0 | 47.7 | | 11 29.8 | 13.8 | | 240 51.5 | 17.8 | | Aldebaran | 291 06.7 | N16 29.7 | | | |
| 05 | 220 13.0 | 212 04.9 | 05.4 | 120 30.5 | 47.6 | | 26 32.3 | 13.8 | | 255 53.7 | 17.7 | | | | | | | |
| 06 | 235 15.5 | 227 05.9 | N 7 06.5 | 135 33.0 | N26 47.5 | | 41 34.9 | S 4 13.7 | | 270 55.9 | S15 17.6 | | Alioth | 166 33.5 | N55 59.4 | | | |
| 07 | 250 18.0 | 242 06.8 | 07.5 | 150 35.4 | 47.5 | | 56 37.5 | 13.6 | | 285 58.0 | 17.5 | | Alkaid | 153 10.5 | N49 20.5 | | | |
| 08 | 265 20.4 | 257 07.8 | 08.5 | 165 37.9 | 47.4 | | 71 40.1 | 13.6 | | 301 00.2 | 17.4 | | Al Na'ir | 28 03.1 | S46 59.7 | | | |
| L 09 | 280 22.9 | 272 08.8 | 09.6 | 180 40.4 | 47.3 | | 86 42.7 | 13.5 | | 316 02.4 | 17.3 | | Alnilam | 276 01.6 | S 1 12.5 | | | |
| U 10 | 295 25.3 | 287 09.8 | 10.6 | 195 42.8 | 47.3 | | 101 45.3 | 13.5 | | 331 04.5 | 17.2 | | Alphard | 218 10.7 | S 8 37.9 | | | |
| N 11 | 310 27.8 | 302 10.8 | 11.7 | 210 45.3 | 47.2 | | 116 47.9 | 13.4 | | 346 06.7 | 17.1 | | | | | | | |
| E 12 | 325 30.3 | 317 11.7 | N 7 12.7 | 225 47.8 | N26 47.1 | | 131 50.4 | S 4 13.3 | | 1 08.9 | S15 17.0 | | Alphecca | 126 23.8 | N26 44.0 | | | |
| S 13 | 340 32.7 | 332 12.7 | 13.8 | 240 50.2 | 47.1 | | 146 53.0 | 13.3 | | 16 11.0 | 16.9 | | Alpheratz | 357 59.5 | N29 03.3 | | | |
| 14 | 355 35.2 | 347 13.7 | 14.8 | 255 52.7 | 47.0 | | 161 55.6 | 13.2 | | 31 13.2 | 16.9 | | Altair | 62 23.3 | N 8 50.9 | | | |
| 15 | 10 37.7 | 2 14.7 | 15.9 | 270 55.1 | 47.0 | | 176 58.2 | 13.1 | | 46 15.4 | 16.8 | | Ankaa | 353 30.9 | S42 20.7 | | | |
| 16 | 25 40.1 | 17 15.7 | 16.9 | 285 57.6 | 46.9 | | 192 00.8 | 13.1 | | 61 17.5 | 16.7 | | Antares | 112 45.0 | S26 25.0 | | | |
| 17 | 40 42.6 | 32 16.7 | 17.9 | 301 00.1 | 46.8 | | 207 03.4 | 13.0 | | 76 19.7 | 16.6 | | | | | | | |
| 18 | 55 45.1 | 47 17.7 | N 7 19.0 | 316 02.5 | N26 46.8 | | 222 06.0 | S 4 13.0 | | 91 21.9 | S15 16.5 | | Arcturus | 146 09.4 | N19 12.8 | | | |
| 19 | 70 47.5 | 62 18.7 | 20.0 | 331 05.0 | 46.7 | | 237 08.5 | 12.9 | | 106 24.0 | 16.4 | | Atria | 108 00.6 | S69 00.7 | | | |
| 20 | 85 50.0 | 77 19.7 | 21.1 | 346 07.4 | 46.6 | | 252 11.1 | 12.8 | | 121 26.2 | 16.3 | | Avior | 234 23.6 | S59 29.5 | | | |
| 21 | 100 52.5 | 92 20.7 | 22.1 | 1 09.9 | 46.6 | | 267 13.7 | 12.8 | | 136 28.4 | 16.2 | | Bellatrix | 278 48.1 | N 6 20.5 | | | |
| 22 | 115 54.9 | 107 21.7 | 23.1 | 16 12.3 | 46.5 | | 282 16.3 | 12.7 | | 151 30.5 | 16.1 | | Betelgeuse | 271 17.5 | N 7 24.3 | | | |
| 23 | 130 57.4 | 122 22.7 | 24.2 | 31 14.8 | 46.4 | | 297 18.9 | 12.6 | | 166 32.7 | 16.0 | | | | | | | |
| 16 00 | 145 59.8 | 137 23.7 | N 7 25.2 | 46 17.2 | N26 46.4 | | 312 21.5 | S 4 12.6 | | 181 34.9 | S15 15.9 | | Canopus | 264 02.5 | S52 41.8 | | | |
| 01 | 161 02.3 | 152 24.7 | 26.2 | 61 19.7 | 46.3 | | 327 24.1 | 12.5 | | 196 37.1 | 15.8 | | Capella | 280 56.7 | N45 59.6 | | | |
| 02 | 176 04.8 | 167 25.7 | 27.3 | 76 22.1 | 46.2 | | 342 26.7 | 12.5 | | 211 39.2 | 15.7 | | Deneb | 49 42.3 | N45 15.3 | | | |
| 03 | 191 07.2 | 182 26.7 | 28.3 | 91 24.5 | 46.2 | | 357 29.3 | 12.4 | | 226 41.4 | 15.6 | | Denebola | 182 48.8 | N14 36.3 | | | |
| 04 | 206 09.7 | 197 27.7 | 29.3 | 106 27.0 | 46.1 | | 12 31.9 | 12.3 | | 241 43.6 | 15.5 | | Diphda | 349 11.3 | S18 01.5 | | | |
| 05 | 221 12.2 | 212 28.8 | 30.4 | 121 29.4 | 46.0 | | 27 34.4 | 12.3 | | 256 45.7 | 15.4 | | | | | | | |
| 06 | 236 14.6 | 227 29.8 | N 7 31.4 | 136 31.9 | N26 46.0 | | 42 37.0 | S 4 12.2 | | 271 47.9 | S15 15.3 | | Dubhe | 194 09.4 | N61 47.0 | | | |
| 07 | 251 17.1 | 242 30.8 | 32.4 | 151 34.3 | 45.9 | | 57 39.6 | 12.1 | | 286 50.1 | 15.2 | | Elnath | 278 31.6 | N28 36.2 | | | |
| 08 | 266 19.6 | 257 31.8 | 33.5 | 166 36.7 | 45.8 | | 72 42.2 | 12.1 | | 301 52.2 | 15.2 | | Eltanin | 90 53.5 | N51 29.1 | | | |
| M 09 | 281 22.0 | 272 32.8 | 34.5 | 181 39.2 | 45.8 | | 87 44.8 | 12.0 | | 316 54.4 | 15.1 | | Enif | 34 02.3 | N 9 50.6 | | | |
| A 10 | 296 24.5 | 287 33.9 | 35.5 | 196 41.6 | 45.7 | | 102 47.4 | 11.9 | | 331 56.6 | 15.0 | | Fomalhaut | 15 41.0 | S29 39.6 | | | |
| R 11 | 311 26.9 | 302 34.9 | 36.6 | 211 44.0 | 45.6 | | 117 50.0 | 11.9 | | 346 58.7 | 14.9 | | | | | | | |
| T 12 | 326 29.4 | 317 35.9 | N 7 37.6 | 226 46.5 | N26 45.6 | | 132 52.6 | S 4 11.8 | | 2 00.9 | S15 14.8 | | Gacrux | 172 17.5 | S57 04.5 | | | |
| E 13 | 341 31.9 | 332 37.0 | 38.6 | 241 48.9 | 45.5 | | 147 55.2 | 11.8 | | 17 03.1 | 14.7 | | Gienah | 176 07.7 | S17 30.4 | | | |
| S 14 | 356 34.3 | 347 38.0 | 39.6 | 256 51.3 | 45.4 | | 162 57.8 | 11.7 | | 32 05.2 | 14.6 | | Hadar | 149 09.3 | S60 20.3 | | | |
| 15 | 11 36.8 | 2 39.0 | 40.7 | 271 53.7 | 45.4 | | 178 00.4 | 11.6 | | 47 07.4 | 14.5 | | Hamal | 328 18.1 | N23 25.9 | | | |
| 16 | 26 39.3 | 17 40.1 | 41.7 | 286 56.2 | 45.3 | | 193 03.0 | 11.6 | | 62 09.6 | 14.4 | | Kaus Aust. | 84 04.1 | S34 23.2 | | | |
| 17 | 41 41.7 | 32 41.1 | 42.7 | 301 58.6 | 45.2 | | 208 05.6 | 11.5 | | 77 11.7 | 14.3 | | | | | | | |
| 18 | 56 44.2 | 47 42.1 | N 7 43.7 | 317 01.0 | N26 45.2 | | 223 08.2 | S 4 11.4 | | 92 13.9 | S15 14.2 | | Kochab' | 137 19.0 | N74 10.6 | | | |
| 19 | 71 46.7 | 62 43.2 | 44.8 | 332 03.4 | 45.1 | | 238 10.8 | 11.4 | | 107 16.1 | 14.1 | | Markab | 13 53.8 | N15 10.1 | | | |
| 20 | 86 49.1 | 77 44.2 | 45.8 | 347 05.8 | 45.0 | | 253 13.4 | 11.3 | | 122 18.3 | 14.0 | | Menkar | 314 31.0 | N 4 03.8 | | | |
| 21 | 101 51.6 | 92 45.3 | 46.8 | 2 08.3 | 45.0 | | 268 15.9 | 11.2 | | 137 20.4 | 13.9 | | Menkent | 148 25.3 | S36 20.2 | | | |
| 22 | 116 54.1 | 107 46.3 | 47.8 | 17 10.7 | 44.9 | | 283 18.5 | 11.2 | | 152 22.6 | 13.8 | | Miaplacidus | 221 42.0 | S69 41.5 | | | |
| 23 | 131 56.5 | 122 47.4 | 48.8 | 32 13.1 | 44.8 | | 298 21.1 | 11.1 | | 167 24.8 | 13.7 | | | | | | | |
| 17 00 | 146 59.0 | 137 48.4 | N 7 49.9 | 47 15.5 | N26 44.8 | | 313 23.7 | S 4 11.0 | | 182 26.9 | S15 13.6 | | Mirfak | 309 02.2 | N49 50.5 | | | |
| 01 | 162 01.4 | 152 49.5 | 50.9 | 62 17.9 | 44.7 | | 328 26.3 | 11.0 | | 197 29.1 | 13.5 | | Nunki | 76 17.3 | S26 18.3 | | | |
| 02 | 177 03.9 | 167 50.5 | 51.9 | 77 20.3 | 44.6 | | 343 28.9 | 10.9 | | 212 31.3 | 13.5 | | Peacock | 53 43.5 | S56 45.3 | | | |
| 03 | 192 06.4 | 182 51.6 | 52.9 | 92 22.7 | 44.6 | | 358 31.5 | 10.8 | | 227 33.4 | 13.4 | | Pollux | 243 45.9 | N28 02.5 | | | |
| 04 | 207 08.8 | 197 52.6 | 53.9 | 107 25.1 | 44.5 | | 13 34.1 | 10.8 | | 242 35.6 | 13.3 | | Procyon | 245 15.3 | N 5 14.4 | | | |
| 05 | 222 11.3 | 212 53.7 | 55.0 | 122 27.5 | 44.4 | | 28 36.7 | 10.7 | | 257 37.8 | 13.2 | | | | | | | |
| 06 | 237 13.8 | 227 54.8 | N 7 56.0 | 137 29.9 | N26 44.3 | | 43 39.3 | S 4 10.6 | | 272 39.9 | S15 13.1 | | Rasalhague | 96 20.7 | N12 33.7 | | | |
| 07 | 252 16.2 | 242 55.8 | 57.0 | 152 32.3 | 44.3 | | 58 41.9 | 10.6 | | 287 42.1 | 13.0 | | Regulus | 207 59.3 | N11 59.8 | | | |
| M 08 | 267 18.7 | 257 56.9 | 58.0 | 167 34.7 | 44.2 | | 73 44.5 | 10.5 | | 302 44.3 | 12.9 | | Rigel | 281 26.5 | S 8 12.7 | | | |
| A 09 | 282 21.2 | 272 58.0 | 7 59.0 | 182 37.1 | 44.1 | | 88 47.1 | 10.4 | | 317 46.4 | 12.8 | | Rigel Kent. | 140 12.3 | S60 48.2 | | | |
| R 10 | 297 23.6 | 287 59.0 | 8 00.0 | 197 39.5 | 44.1 | | 103 49.7 | 10.4 | | 332 48.6 | 12.7 | | Sabik | 102 30.1 | S15 43.0 | | | |
| T 11 | 312 26.1 | 303 00.1 | 01.0 | 212 41.9 | 44.0 | | 118 52.3 | 10.3 | | 347 50.8 | 12.6 | | | | | | | |
| C 12 | 327 28.6 | 318 01.2 | N 8 02.0 | 227 44.3 | N26 43.9 | | 133 54.9 | S 4 10.2 | | 2 53.0 | S15 12.5 | | Schedar | 349 58.3 | N56 30.2 | | | |
| O 13 | 342 31.0 | 333 02.2 | 03.1 | 242 46.7 | 43.9 | | 148 57.5 | 10.2 | | 17 55.1 | 12.4 | | Shaula | 96 42.7 | S37 05.9 | | | |
| L 14 | 357 33.5 | 348 03.3 | 04.1 | 257 49.1 | 43.8 | | 164 00.1 | 10.1 | | 32 57.3 | 12.3 | | Sirius | 258 46.8 | S16 42.6 | | | |
| E 15 | 12 35.9 | 3 04.4 | 05.1 | 272 51.5 | 43.7 | | 179 02.7 | 10.0 | | 47 59.5 | 12.2 | | Spica | 158 47.1 | S11 07.7 | | | |
| S 16 | 27 38.4 | 18 05.5 | 06.1 | 287 53.9 | 43.7 | | 194 05.3 | 10.0 | | 63 01.6 | 12.1 | | Suhail | 223 03.2 | S43 24.5 | | | |
| 17 | 42 40.9 | 33 06.6 | 07.1 | 302 56.3 | 43.6 | | 209 07.9 | 09.9 | | 78 03.8 | 12.0 | | | | | | | |
| 18 | 57 43.3 | 48 07.7 | N 8 08.1 | 317 58.7 | N26 43.5 | | 224 10.5 | S 4 09.8 | | 93 06.0 | S15 11.9 | | Vega | 80 49.5 | N38 46.4 | | | |
| 19 | 72 45.8 | 63 08.7 | 09.1 | 333 01.1 | 43.4 | | 239 13.1 | 09.8 | | 108 08.1 | 11.9 | | Zuben'ubi | 137 22.2 | S16 00.9 | | | |
| 20 | 87 48.3 | 78 09.8 | 10.1 | 348 03.4 | 43.4 | | 254 15.7 | 09.7 | | 123 10.3 | 11.8 | | | | | | | |
| 21 | 102 50.7 | 93 10.9 | 11.1 | 3 05.8 | 43.3 | | 269 18.3 | 09. | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|-----------|-----------|-----------|-----------|-----------|-----------|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | <i>v</i> | Dec. | <i>d</i> | | P.H. | Náut. | | Civil | 15 | 16 | 17 | 18 | |
| | ° / ' / " | ° / ' / " | ° / ' / " | ° / ' / " | ° / ' / " | ° / ' / " | | ° / ' / " | h m | | h m | h m | h m | h m | h m | h m |
| LUNES | 15 00 | 176 27.5 | S12 44.7 | 253 34.3 | 8.5 | S22 53.9 | 1.2 | 56.6 | N 72 | 06 10 | 07 30 | 08 48 | ■ | ■ | ■ | ■ |
| | 01 | 191 27.5 | 43.8 | 268 01.8 | 8.5 | 22 55.1 | 1.0 | 56.6 | N 70 | 06 09 | 07 21 | 08 29 | ■ | ■ | ■ | 08 15 |
| | 02 | 206 27.5 | 43.0 | 282 29.3 | 8.5 | 22 56.1 | 1.0 | 56.5 | 68 | 06 08 | 07 13 | 08 14 | ■ | ■ | 07 51 | 07 33 |
| | 03 | 221 27.6 | 42.1 | 296 56.8 | 8.6 | 22 57.1 | 0.8 | 56.5 | 66 | 06 07 | 07 06 | 08 02 | 06 13 | 06 50 | 07 01 | 07 04 |
| | 04 | 236 27.6 | 41.3 | 311 24.4 | 8.6 | 22 57.9 | 0.6 | 56.5 | 64 | 06 05 | 07 01 | 07 52 | 05 21 | 06 06 | 06 30 | 06 42 |
| | 05 | 251 27.6 | 40.4 | 325 52.0 | 8.7 | 22 58.5 | 0.6 | 56.4 | 62 | 06 04 | 06 56 | 07 43 | 04 49 | 05 37 | 06 06 | 06 25 |
| | 06 | 266 27.7 | S12 39.6 | 340 19.7 | 8.6 | S22 59.1 | 0.4 | 56.4 | 60 | 06 03 | 06 52 | 07 35 | 04 26 | 05 14 | 05 47 | 06 10 |
| | 07 | 281 27.7 | 38.7 | 354 47.3 | 8.7 | 22 59.5 | 0.3 | 56.4 | N 58 | 06 02 | 06 48 | 07 29 | 04 07 | 04 56 | 05 32 | 05 57 |
| | 08 | 296 27.7 | 37.8 | 9 15.0 | 8.7 | 22 59.8 | 0.2 | 56.4 | 56 | 06 01 | 06 44 | 07 23 | 03 51 | 04 41 | 05 18 | 05 46 |
| | 09 | 311 27.8 | 37.0 | 23 42.7 | 8.8 | 23 00.0 | 0.0 | 56.3 | 54 | 06 00 | 06 41 | 07 18 | 03 37 | 04 28 | 05 07 | 05 37 |
| | 10 | 326 27.8 | 36.1 | 38 10.5 | 8.8 | 23 00.0 | 0.1 | 56.3 | 52 | 05 59 | 06 38 | 07 13 | 03 25 | 04 16 | 04 57 | 05 28 |
| | 11 | 341 27.8 | 35.3 | 52 38.3 | 8.8 | 22 59.9 | 0.2 | 56.3 | 50 | 05 58 | 06 36 | 07 09 | 03 15 | 04 06 | 04 47 | 05 21 |
| | 12 | 356 27.9 | S12 34.4 | 67 06.1 | 8.9 | S22 59.7 | 0.3 | 56.2 | 45 | 05 55 | 06 29 | 07 00 | 02 53 | 03 45 | 04 28 | 05 04 |
| | 13 | 11 27.9 | 33.5 | 81 34.0 | 8.9 | 22 59.4 | 0.5 | 56.2 | N 40 | 05 52 | 06 24 | 06 52 | 02 35 | 03 27 | 04 12 | 04 51 |
| | 14 | 26 27.9 | 32.7 | 96 01.9 | 8.9 | 22 58.9 | 0.5 | 56.2 | 35 | 05 50 | 06 19 | 06 45 | 02 20 | 03 13 | 03 59 | 04 39 |
| | 15 | 41 28.0 | 31.8 | 110 29.8 | 9.0 | 22 58.4 | 0.7 | 56.2 | 30 | 05 47 | 06 15 | 06 39 | 02 07 | 03 00 | 03 47 | 04 29 |
| | 16 | 56 28.0 | 30.9 | 124 57.8 | 9.0 | 22 57.7 | 0.9 | 56.1 | 20 | 05 40 | 06 06 | 06 29 | 01 46 | 02 38 | 03 27 | 04 12 |
| | 17 | 71 28.0 | 30.1 | 139 25.8 | 9.0 | 22 56.8 | 0.9 | 56.1 | N 10 | 05 33 | 05 58 | 06 19 | 01 26 | 02 19 | 03 10 | 03 56 |
| | 18 | 86 28.1 | S12 29.2 | 153 53.8 | 9.1 | S22 55.9 | 1.1 | 56.1 | 0 | 05 25 | 05 50 | 06 11 | 01 09 | 02 02 | 02 53 | 03 42 |
| | 19 | 101 28.1 | 28.4 | 168 21.9 | 9.2 | 22 54.8 | 1.2 | 56.1 | S 10 | 05 15 | 05 40 | 06 02 | 00 51 | 01 44 | 02 37 | 03 28 |
| | 20 | 116 28.1 | 27.5 | 182 50.1 | 9.1 | 22 53.6 | 1.3 | 56.0 | 20 | 05 03 | 05 30 | 05 52 | 00 32 | 01 26 | 02 19 | 03 12 |
| | 21 | 131 28.2 | 26.6 | 197 18.2 | 9.2 | 22 52.3 | 1.4 | 56.0 | 30 | 04 47 | 05 16 | 05 41 | 00 10 | 01 04 | 01 59 | 02 55 |
| | 22 | 146 28.2 | 25.8 | 211 46.4 | 9.3 | 22 50.9 | 1.6 | 56.0 | 35 | 04 37 | 05 08 | 05 35 | 24 51 | 00 51 | 01 47 | 02 45 |
| 23 | 161 28.2 | 24.9 | 226 14.7 | 9.3 | 22 49.3 | 1.7 | 56.0 | 40 | 04 24 | 04 59 | 05 27 | 24 37 | 00 37 | 01 34 | 02 33 | |
| 16 00 | 176 28.3 | S12 24.0 | 240 43.0 | 9.3 | S22 47.6 | 1.8 | 55.9 | 45 | 04 09 | 04 47 | 05 19 | 24 19 | 00 19 | 01 18 | 02 19 | |
| 01 | 191 28.3 | 23.2 | 255 11.3 | 9.4 | 22 45.8 | 1.9 | 55.9 | S 50 | 03 49 | 04 33 | 05 08 | 23 58 | 24 58 | 00 58 | 02 02 | |
| 02 | 206 28.3 | 22.3 | 269 39.7 | 9.4 | 22 43.9 | 2.0 | 55.9 | 52 | 03 39 | 04 26 | 05 03 | 23 47 | 24 48 | 00 48 | 01 54 | |
| 03 | 221 28.4 | 21.4 | 284 08.1 | 9.5 | 22 41.9 | 2.2 | 55.8 | 54 | 03 28 | 04 19 | 04 58 | 23 36 | 24 38 | 00 38 | 01 45 | |
| 04 | 236 28.4 | 20.6 | 298 36.6 | 9.5 | 22 39.7 | 2.3 | 55.8 | 56 | 03 15 | 04 10 | 04 52 | 23 23 | 24 26 | 00 26 | 01 35 | |
| 05 | 251 28.5 | 19.7 | 313 05.1 | 9.6 | 22 37.4 | 2.3 | 55.8 | 58 | 02 59 | 04 00 | 04 45 | 23 07 | 24 12 | 00 12 | 01 23 | |
| 06 | 266 28.5 | S12 18.8 | 327 33.7 | 9.6 | S22 35.1 | 2.5 | 55.8 | S 60 | 02 40 | 03 49 | 04 38 | 22 49 | 23 55 | 25 10 | 01 10 | |
| 07 | 281 28.5 | 18.0 | 342 02.3 | 9.6 | 22 32.6 | 2.7 | 55.7 | | | | | | | | | |
| 08 | 296 28.6 | 17.1 | 356 30.9 | 9.7 | 22 29.9 | 2.7 | 55.7 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | |
| 09 | 311 28.6 | 16.2 | 10 59.6 | 9.8 | 22 27.2 | 2.8 | 55.7 | | | | | 15 | 16 | 17 | 18 | |
| 10 | 326 28.7 | 15.4 | 25 28.4 | 9.8 | 22 24.4 | 3.0 | 55.7 | | | | | | | | | |
| 11 | 341 28.7 | 14.5 | 39 57.2 | 9.9 | 22 21.4 | 3.1 | 55.7 | | | | | | | | | |
| 12 | 356 28.7 | S12 13.6 | 54 26.1 | 9.9 | S22 18.3 | 3.2 | 55.6 | N 72 | 15 42 | 17 00 | 18 20 | ■ | ■ | ■ | ■ | |
| 13 | 11 28.8 | 12.8 | 68 55.0 | 9.9 | 22 15.1 | 3.3 | 55.6 | N 70 | 16 01 | 17 09 | 18 21 | ■ | ■ | ■ | 11 44 | |
| 14 | 26 28.8 | 11.9 | 83 23.9 | 10.0 | 22 11.8 | 3.4 | 55.6 | 68 | 16 16 | 17 17 | 18 22 | ■ | ■ | 10 28 | 12 26 | |
| 15 | 41 28.9 | 11.0 | 97 52.9 | 10.1 | 22 08.4 | 3.5 | 55.6 | 66 | 16 28 | 17 23 | 18 23 | 08 30 | 09 43 | 11 17 | 12 54 | |
| 16 | 56 28.9 | 10.1 | 112 22.0 | 10.1 | 22 04.9 | 3.6 | 55.5 | 64 | 16 38 | 17 29 | 18 24 | 09 22 | 10 27 | 11 48 | 13 15 | |
| 17 | 71 28.9 | 09.3 | 126 51.1 | 10.2 | 22 01.3 | 3.8 | 55.5 | 62 | 16 46 | 17 33 | 18 25 | 09 53 | 10 56 | 12 11 | 13 32 | |
| 18 | 86 29.0 | S12 08.4 | 141 20.3 | 10.2 | S21 57.5 | 3.8 | 55.5 | 60 | 16 54 | 17 37 | 18 26 | 10 17 | 11 18 | 12 29 | 13 46 | |
| 19 | 101 29.0 | 07.5 | 155 49.5 | 10.3 | 21 53.7 | 4.0 | 55.5 | N 58 | 17 00 | 17 41 | 18 27 | 10 36 | 11 36 | 12 45 | 13 58 | |
| 20 | 116 29.1 | 06.7 | 170 18.8 | 10.3 | 21 49.7 | 4.0 | 55.4 | 56 | 17 06 | 17 45 | 18 28 | 10 52 | 11 51 | 12 58 | 14 09 | |
| 21 | 131 29.1 | 05.8 | 184 48.1 | 10.4 | 21 45.7 | 4.2 | 55.4 | 54 | 17 11 | 17 48 | 18 29 | 11 06 | 12 04 | 13 09 | 14 18 | |
| 22 | 146 29.1 | 04.9 | 199 17.5 | 10.5 | 21 41.5 | 4.3 | 55.4 | 52 | 17 16 | 17 51 | 18 30 | 11 17 | 12 15 | 13 19 | 14 26 | |
| 23 | 161 29.2 | 04.0 | 213 47.0 | 10.5 | 21 37.2 | 4.4 | 55.4 | 50 | 17 20 | 17 53 | 18 31 | 11 28 | 12 25 | 13 28 | 14 33 | |
| 17 00 | 176 29.2 | S12 03.2 | 228 16.5 | 10.5 | S21 32.8 | 4.4 | 55.4 | 45 | 17 29 | 17 59 | 18 34 | 11 50 | 12 46 | 13 47 | 14 49 | |
| 01 | 191 29.3 | 02.3 | 242 46.0 | 10.6 | 21 28.4 | 4.6 | 55.3 | N 40 | 17 37 | 18 05 | 18 36 | 12 08 | 13 04 | 14 02 | 15 01 | |
| 02 | 206 29.3 | 01.4 | 257 15.6 | 10.7 | 21 23.8 | 4.7 | 55.3 | 35 | 17 44 | 18 09 | 18 39 | 12 23 | 13 18 | 14 15 | 15 12 | |
| 03 | 221 29.4 | 00.5 | 271 45.3 | 10.7 | 21 19.1 | 4.8 | 55.3 | 30 | 17 49 | 18 14 | 18 42 | 12 36 | 13 30 | 14 26 | 15 22 | |
| 04 | 236 29.4 | 11 59.7 | 286 15.0 | 10.8 | 21 14.3 | 4.9 | 55.3 | 20 | 18 00 | 18 22 | 18 48 | 12 58 | 13 51 | 14 45 | 15 38 | |
| 05 | 251 29.5 | 58.8 | 300 44.8 | 10.9 | 21 09.4 | 5.0 | 55.3 | N 10 | 18 09 | 18 30 | 18 55 | 13 17 | 14 10 | 15 02 | 15 52 | |
| 06 | 266 29.5 | S11 57.9 | 315 14.7 | 10.9 | S21 04.4 | 5.1 | 55.2 | 0 | 18 17 | 18 39 | 19 03 | 13 34 | 14 27 | 15 17 | 16 05 | |
| 07 | 281 29.5 | 57.0 | 329 44.6 | 10.9 | 20 59.3 | 5.2 | 55.2 | S 10 | 18 26 | 18 48 | 19 13 | 13 52 | 14 44 | 15 32 | 16 18 | |
| 08 | 296 29.6 | 56.2 | 344 14.5 | 11.0 | 20 54.1 | 5.3 | 55.2 | 20 | 18 36 | 18 58 | 19 25 | 14 11 | 15 02 | 15 49 | 16 32 | |
| 09 | 311 29.6 | 55.3 | 358 44.5 | 11.1 | 20 48.8 | 5.4 | 55.2 | 30 | 18 47 | 19 11 | 19 41 | 14 33 | 15 23 | 16 08 | 16 47 | |
| 10 | 326 29.7 | 54.4 | 13 14.6 | 11.1 | 20 43.4 | 5.5 | 55.2 | 35 | 18 53 | 19 19 | 19 51 | 14 46 | 15 35 | 16 18 | 16 56 | |
| 11 | 341 29.7 | 53.5 | 27 44.7 | 11.2 | 20 37.9 | 5.6 | 55.1 | 40 | 19 00 | 19 29 | 20 03 | 15 01 | 15 49 | 16 31 | 17 07 | |
| 12 | 356 29.8 | S11 52.7 | 42 14.9 | 11.3 | S20 32.3 | 5.7 | 55.1 | 45 | 19 09 | 19 40 | 20 18 | 15 18 | 16 06 | 16 45 | 17 19 | |
| 13 | 11 29.8 | 51.8 | 56 45.2 | 11.3 | 20 26.6 | 5.7 | 55.1 | S 50 | 19 19 | 19 54 | 20 38 | 15 40 | 16 26 | 17 03 | 17 33 | |
| 14 | 26 29.9 | 50.9 | 71 15.5 | 11.4 | 20 20.9 | 5.9 | 55.1 | 52 | 19 24 | 20 01 | 20 47 | 15 50 | 16 36 | 17 12 | 17 40 | |
| 15 | 41 29.9 | 50.0 | 85 45.9 | 11.4 | 20 15.0 | 6.0 | 55.1 | 54 | 19 29 | 20 08 | 20 58 | 16 02 | 16 47 | 17 21 | 17 48 | |
| 16 | 56 30.0 | 49.1 | 100 16.3 | 11.5 | 20 09.0 | 6.0 | 55.0 | 56 | 19 35 | 20 17 | 21 11 | 16 15 | 16 59 | 17 32 | 17 56 | |
| 17 | 71 30.0 | 48.3 | 114 46.8 | 11.6 | 20 03.0 | 6.2 | 55.0 | 58 | 19 41 | 20 26 | 21 26 | 16 31 | 17 13 | 17 44 | 18 06 | |
| 18 | 86 30.1 | S11 47.4 | 129 17.4 | 11.6 | S19 56.8 | 6.2 | 55.0 | S 60 | 19 49 | 20 37 | 21 45 | 16 49 | 17 30 | 17 57 | 18 16 | |
| 19 | 101 30.1 | 46.5 | 143 48.0 | 11.6 | 19 50.6 | 6.4 | 55.0 | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | | | | | | |
|----------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-----------|------------|-------|------------|----|----|----|----|----|----|----|----|----|----|----|----|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 21 | 22 | 23 | 24 | | | | | | | | | | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | h | m | h | m | h | m | h | m | | | | | | | | | |
| DOMINGO | 21 00 | 176 | 34.8 | S10 | 37.8 | 183 | 51.3 | 15.5 | S | 8 | 20.3 | 10.9 | 54.1 | N 72 | 05 | 43 | 07 | 02 | 08 | 14 | 07 | 27 | 07 | 09 | 06 | 52 | 06 | 35 | |
| | 01 | 191 | 34.8 | | 36.9 | 198 | 25.8 | 15.6 | | 8 | 09.4 | 10.9 | 54.1 | N 70 | 05 | 45 | 06 | 55 | 08 | 00 | 07 | 17 | 07 | 05 | 06 | 55 | 06 | 43 | |
| | 02 | 206 | 34.9 | | 36.0 | 213 | 00.4 | 15.6 | | 7 | 58.5 | 11.0 | 54.0 | 68 | 05 | 46 | 06 | 50 | 07 | 49 | 07 | 09 | 07 | 03 | 06 | 57 | 06 | 51 | |
| | 03 | 221 | 35.0 | | 35.1 | 227 | 35.0 | 15.6 | | 7 | 47.5 | 10.9 | 54.0 | 66 | 05 | 47 | 06 | 46 | 07 | 39 | 07 | 02 | 07 | 00 | 06 | 58 | 06 | 57 | |
| | 04 | 236 | 35.0 | | 34.2 | 242 | 09.6 | 15.7 | | 7 | 36.6 | 11.0 | 54.0 | 64 | 05 | 47 | 06 | 42 | 07 | 31 | 06 | 56 | 06 | 58 | 07 | 00 | 07 | 02 | |
| | 05 | 251 | 35.1 | | 33.3 | 256 | 44.3 | 15.6 | | 7 | 25.6 | 11.0 | 54.0 | 62 | 05 | 48 | 06 | 39 | 07 | 25 | 06 | 51 | 06 | 56 | 07 | 01 | 07 | 07 | |
| | 06 | 266 | 35.2 | S10 | 32.4 | 271 | 18.9 | 15.8 | S | 7 | 14.6 | 11.1 | 54.0 | 60 | 05 | 48 | 06 | 36 | 07 | 19 | 06 | 47 | 06 | 55 | 07 | 03 | 07 | 11 | |
| | 07 | 281 | 35.3 | | 31.5 | 285 | 53.7 | 15.7 | | 7 | 03.5 | 11.1 | 54.0 | N 58 | 05 | 48 | 06 | 33 | 07 | 14 | 06 | 43 | 06 | 53 | 07 | 04 | 07 | 14 | |
| | 08 | 296 | 35.3 | | 30.6 | 300 | 28.4 | 15.8 | | 6 | 52.4 | 11.0 | 54.0 | 56 | 05 | 48 | 06 | 31 | 07 | 09 | 06 | 39 | 06 | 52 | 07 | 05 | 07 | 17 | |
| | 09 | 311 | 35.4 | | 29.7 | 315 | 03.2 | 15.7 | | 6 | 41.4 | 11.2 | 54.0 | 54 | 05 | 48 | 06 | 29 | 07 | 05 | 06 | 36 | 06 | 51 | 07 | 05 | 07 | 20 | |
| | 10 | 326 | 35.5 | | 28.8 | 329 | 37.9 | 15.9 | | 6 | 30.2 | 11.1 | 54.0 | 52 | 05 | 48 | 06 | 27 | 07 | 01 | 06 | 33 | 06 | 50 | 07 | 06 | 07 | 23 | |
| | 11 | 341 | 35.6 | | 27.9 | 344 | 12.8 | 15.8 | | 6 | 19.1 | 11.2 | 54.0 | 50 | 05 | 47 | 06 | 25 | 06 | 57 | 06 | 31 | 06 | 49 | 07 | 07 | 07 | 25 | |
| | 12 | 356 | 35.6 | S10 | 27.0 | 358 | 47.6 | 15.9 | S | 6 | 07.9 | 11.2 | 54.0 | 45 | 05 | 46 | 06 | 20 | 06 | 50 | 06 | 25 | 06 | 47 | 07 | 08 | 07 | 31 | |
| | 13 | 11 | 35.7 | | 26.1 | 13 | 22.5 | 15.9 | | 5 | 56.7 | 11.2 | 54.0 | N 40 | 05 | 45 | 06 | 16 | 06 | 44 | 06 | 20 | 06 | 45 | 07 | 10 | 07 | 35 | |
| | 14 | 26 | 35.8 | | 25.2 | 27 | 57.4 | 15.9 | | 5 | 45.5 | 11.2 | 54.0 | 35 | 05 | 43 | 06 | 13 | 06 | 38 | 06 | 16 | 06 | 44 | 07 | 11 | 07 | 39 | |
| | 15 | 41 | 35.9 | | 24.2 | 42 | 32.3 | 15.9 | | 5 | 34.3 | 11.2 | 54.0 | 30 | 05 | 41 | 06 | 09 | 06 | 33 | 06 | 12 | 06 | 42 | 07 | 12 | 07 | 42 | |
| | 16 | 56 | 35.9 | | 23.3 | 57 | 07.2 | 15.9 | | 5 | 23.1 | 11.3 | 54.0 | 20 | 05 | 37 | 06 | 03 | 06 | 25 | 06 | 06 | 06 | 40 | 07 | 14 | 07 | 48 | |
| | 17 | 71 | 36.0 | | 22.4 | 71 | 42.1 | 16.0 | | 5 | 11.8 | 11.3 | 54.0 | N 10 | 05 | 31 | 05 | 56 | 06 | 17 | 06 | 00 | 06 | 38 | 07 | 15 | 07 | 53 | |
| | 18 | 86 | 36.1 | S10 | 21.5 | 86 | 17.1 | 16.0 | S | 5 | 00.5 | 11.3 | 54.0 | 0 | 05 | 25 | 05 | 49 | 06 | 10 | 05 | 55 | 06 | 36 | 07 | 17 | 07 | 58 | |
| | 19 | 101 | 36.2 | | 20.6 | 100 | 52.1 | 16.0 | | 4 | 49.2 | 11.3 | 54.0 | S 10 | 05 | 17 | 05 | 41 | 06 | 03 | 05 | 50 | 06 | 34 | 07 | 18 | 08 | 03 | |
| | 20 | 116 | 36.2 | | 19.7 | 115 | 27.1 | 16.0 | | 4 | 37.9 | 11.3 | 54.0 | 20 | 05 | 06 | 05 | 32 | 05 | 55 | 05 | 44 | 06 | 32 | 07 | 20 | 08 | 08 | |
| | 21 | 131 | 36.3 | | 18.8 | 130 | 02.1 | 16.1 | | 4 | 26.6 | 11.4 | 54.0 | 30 | 04 | 52 | 05 | 21 | 05 | 46 | 05 | 38 | 06 | 30 | 07 | 22 | 08 | 14 | |
| | 22 | 146 | 36.4 | | 17.9 | 144 | 37.2 | 16.0 | | 4 | 15.2 | 11.3 | 54.0 | 35 | 04 | 43 | 05 | 14 | 05 | 40 | 05 | 34 | 05 | 34 | 06 | 29 | 07 | 23 | 08 |
| 23 | 161 | 36.5 | | 17.0 | 159 | 12.2 | 16.1 | | 4 | 03.9 | 11.4 | 54.0 | 40 | 04 | 33 | 05 | 06 | 05 | 34 | 05 | 30 | 06 | 27 | 07 | 24 | 08 | 22 | | |
| 22 00 | 176 | 36.5 | S10 | 16.1 | 173 | 47.3 | 16.1 | S | 3 | 52.5 | 11.4 | 53.9 | 45 | 04 | 19 | 04 | 56 | 05 | 27 | 05 | 25 | 06 | 25 | 07 | 26 | 08 | 26 | | |
| 01 | 191 | 36.6 | | 15.2 | 188 | 22.4 | 16.1 | | 3 | 41.1 | 11.4 | 53.9 | S 50 | 04 | 02 | 04 | 44 | 05 | 19 | 05 | 19 | 06 | 23 | 07 | 28 | 08 | 32 | | |
| 02 | 206 | 36.7 | | 14.2 | 202 | 57.5 | 16.1 | | 3 | 29.7 | 11.4 | 53.9 | 52 | 03 | 54 | 04 | 39 | 05 | 15 | 05 | 16 | 06 | 22 | 07 | 28 | 08 | 35 | | |
| 03 | 221 | 36.8 | | 13.3 | 217 | 32.6 | 16.2 | | 3 | 18.3 | 11.4 | 53.9 | 54 | 03 | 44 | 04 | 32 | 05 | 10 | 05 | 13 | 06 | 21 | 07 | 29 | 08 | 38 | | |
| 04 | 236 | 36.9 | | 12.4 | 232 | 07.8 | 16.1 | | 3 | 06.9 | 11.4 | 53.9 | 56 | 03 | 33 | 04 | 25 | 05 | 05 | 05 | 10 | 06 | 20 | 07 | 30 | 08 | 41 | | |
| 05 | 251 | 36.9 | | 11.5 | 246 | 42.9 | 16.2 | | 2 | 55.5 | 11.5 | 53.9 | 58 | 03 | 20 | 04 | 17 | 05 | 00 | 05 | 06 | 06 | 19 | 07 | 31 | 08 | 44 | | |
| 06 | 266 | 37.0 | S10 | 10.6 | 261 | 18.1 | 16.2 | S | 2 | 44.0 | 11.4 | 53.9 | S 60 | 03 | 04 | 04 | 07 | 04 | 54 | 05 | 02 | 06 | 17 | 07 | 33 | 08 | 48 | | |
| 07 | 281 | 37.1 | | 09.7 | 275 | 53.3 | 16.1 | | 2 | 32.6 | 11.5 | 53.9 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | | | | | | | | | |
| 08 | 296 | 37.2 | | 08.8 | 290 | 28.4 | 16.2 | | 2 | 21.1 | 11.4 | 53.9 | | Sol | Civil | Naut. | 21 | 22 | 23 | 24 | | | | | | | | | |
| 09 | 311 | 37.3 | | 07.9 | 305 | 03.6 | 16.2 | | 2 | 09.7 | 11.5 | 53.9 | | | | | h | m | h | m | h | m | h | m | h | m | h | m | |
| 10 | 326 | 37.3 | | 07.0 | 319 | 38.8 | 16.2 | | 1 | 58.2 | 11.5 | 53.9 | | | | | h | m | h | m | h | m | h | m | h | m | h | m | |
| 11 | 341 | 37.4 | | 06.0 | 334 | 14.0 | 16.3 | | 1 | 46.7 | 11.5 | 53.9 | | | | | h | m | h | m | h | m | h | m | h | m | h | m | |
| 12 | 356 | 37.5 | S10 | 05.1 | 348 | 49.3 | 16.2 | S | 1 | 35.2 | 11.4 | 53.9 | N 72 | 16 | 15 | 17 | 27 | 18 | 46 | 17 | 07 | 18 | 52 | 20 | 35 | 22 | 22 | | |
| 13 | 11 | 37.6 | | 04.2 | 3 | 24.5 | 16.2 | | 1 | 23.8 | 11.5 | 53.9 | N 70 | 16 | 29 | 17 | 33 | 18 | 44 | 17 | 15 | 18 | 52 | 20 | 29 | 22 | 07 | | |
| 14 | 26 | 37.7 | | 03.3 | 17 | 59.7 | 16.2 | | 1 | 12.3 | 11.5 | 53.9 | 68 | 16 | 40 | 17 | 38 | 18 | 43 | 17 | 21 | 18 | 52 | 20 | 23 | 21 | 56 | | |
| 15 | 41 | 37.7 | | 02.4 | 32 | 34.9 | 16.3 | | 1 | 00.8 | 11.5 | 53.9 | 66 | 16 | 49 | 17 | 42 | 18 | 42 | 17 | 27 | 18 | 53 | 20 | 19 | 21 | 46 | | |
| 16 | 56 | 37.8 | | 01.5 | 47 | 10.2 | 16.2 | | 0 | 49.3 | 11.5 | 53.9 | 64 | 16 | 57 | 17 | 46 | 18 | 41 | 17 | 31 | 18 | 53 | 20 | 15 | 21 | 38 | | |
| 17 | 71 | 37.9 | | 00.6 | 61 | 45.4 | 16.3 | | 0 | 37.8 | 11.5 | 53.9 | 62 | 17 | 04 | 17 | 49 | 18 | 41 | 17 | 35 | 18 | 53 | 20 | 12 | 21 | 31 | | |
| 18 | 86 | 38.0 | S 9 | 59.6 | 76 | 20.7 | 16.2 | S | 0 | 26.3 | 11.5 | 53.9 | 60 | 17 | 09 | 17 | 52 | 18 | 40 | 17 | 38 | 18 | 54 | 20 | 09 | 21 | 25 | | |
| 19 | 101 | 38.1 | | 58.7 | 90 | 55.9 | 16.3 | | 0 | 14.8 | 11.5 | 53.9 | N 58 | 17 | 15 | 17 | 55 | 18 | 40 | 17 | 41 | 18 | 54 | 20 | 06 | 21 | 19 | | |
| 20 | 116 | 38.2 | | 57.8 | 105 | 31.2 | 16.2 | S | 0 | 03.3 | 11.5 | 53.9 | 56 | 17 | 19 | 17 | 57 | 18 | 40 | 17 | 44 | 18 | 54 | 20 | 04 | 21 | 15 | | |
| 21 | 131 | 38.2 | | 56.9 | 120 | 06.4 | 16.2 | N | 0 | 08.2 | 11.5 | 53.9 | 54 | 17 | 23 | 17 | 59 | 18 | 40 | 17 | 46 | 18 | 54 | 20 | 02 | 21 | 11 | | |
| 22 | 146 | 38.3 | | 56.0 | 134 | 41.6 | 16.3 | | 0 | 19.7 | 11.5 | 53.9 | 52 | 17 | 27 | 18 | 01 | 18 | 40 | 17 | 48 | 18 | 54 | 20 | 00 | 21 | 07 | | |
| 23 | 161 | 38.4 | | 55.1 | 149 | 16.9 | 16.2 | | 0 | 31.2 | 11.5 | 53.9 | 50 | 17 | 30 | 18 | 03 | 18 | 41 | 17 | 50 | 18 | 54 | 19 | 59 | 21 | 03 | | |
| 23 00 | 176 | 38.5 | S 9 | 54.1 | 163 | 52.1 | 16.3 | N | 0 | 42.7 | 11.5 | 53.9 | 45 | 17 | 38 | 18 | 07 | 18 | 42 | 17 | 54 | 18 | 55 | 19 | 55 | 20 | 56 | | |
| 01 | 191 | 38.6 | | 53.2 | 178 | 27.4 | 16.2 | | 0 | 54.2 | 11.5 | 53.9 | N 40 | 17 | 44 | 18 | 11 | 18 | 43 | 17 | 57 | 18 | 55 | 19 | 52 | 20 | 50 | | |
| 02 | 206 | 38.7 | | 52.3 | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|---|----------|----------|----------|----------|-----------|----------|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|-------|---|----|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 24 | | 25 | | 26 | | 27 | |
| | | | | | | | | | | | | h | m | h | m | h | m | h | m |
| M I E R C O L E S | 24 00 | 176 40.6 | S 9 32.1 | 153 55.7 | 16.0 | N 5 16.1 | 11.2 | 54.0 | N 72 | 05 29 | 06 47 | 07 58 | 06 35 | 06 14 | 05 47 | 04 43 | | | |
| | 01 | 191 40.7 | 31.2 | 168 30.7 | 16.0 | 5 27.3 | 11.2 | 54.0 | N 70 | 05 32 | 06 43 | 07 46 | 06 43 | 06 31 | 06 16 | 05 53 | | | |
| | 02 | 206 40.8 | 30.2 | 183 05.7 | 15.9 | 5 38.5 | 11.2 | 54.0 | 68 | 05 35 | 06 39 | 07 36 | 06 51 | 06 45 | 06 38 | 06 30 | | | |
| | 03 | 221 40.9 | 29.3 | 197 40.6 | 15.9 | 5 49.7 | 11.2 | 54.0 | 66 | 05 37 | 06 36 | 07 28 | 06 57 | 06 56 | 06 55 | 06 57 | | | |
| | 04 | 236 40.9 | 28.4 | 212 15.5 | 15.9 | 6 00.9 | 11.1 | 54.0 | 64 | 05 38 | 06 33 | 07 21 | 07 02 | 07 05 | 07 10 | 07 17 | | | |
| | 05 | 251 41.0 | 27.5 | 226 50.4 | 15.8 | 6 12.0 | 11.1 | 54.0 | 62 | 05 39 | 06 30 | 07 15 | 07 07 | 07 13 | 07 22 | 07 34 | | | |
| | 06 | 266 41.1 | S 9 26.5 | 241 25.2 | 15.9 | N 6 23.1 | 11.1 | 54.0 | 60 | 05 40 | 06 28 | 07 10 | 07 11 | 07 20 | 07 32 | 07 48 | | | |
| | 07 | 281 41.2 | 25.6 | 256 00.1 | 15.8 | 6 34.2 | 11.0 | 54.0 | N 58 | 05 41 | 06 26 | 07 06 | 07 14 | 07 26 | 07 41 | 08 00 | | | |
| | 08 | 296 41.3 | 24.7 | 270 34.9 | 15.8 | 6 45.2 | 11.1 | 54.0 | 56 | 05 41 | 06 24 | 07 02 | 07 17 | 07 32 | 07 49 | 08 10 | | | |
| | 09 | 311 41.4 | 23.8 | 285 09.7 | 15.7 | 6 56.3 | 11.0 | 54.1 | 54 | 05 41 | 06 22 | 06 58 | 07 20 | 07 37 | 07 56 | 08 19 | | | |
| | 10 | 326 41.5 | 22.8 | 299 44.4 | 15.8 | 7 07.3 | 11.0 | 54.1 | 52 | 05 41 | 06 21 | 06 55 | 07 23 | 07 41 | 08 02 | 08 28 | | | |
| | 11 | 341 41.6 | 21.9 | 314 19.2 | 15.7 | 7 18.3 | 10.9 | 54.1 | 50 | 05 42 | 06 19 | 06 52 | 07 25 | 07 45 | 08 08 | 08 35 | | | |
| | 12 | 356 41.7 | S 9 21.0 | 328 53.9 | 15.7 | N 7 29.2 | 11.0 | 54.1 | 45 | 05 41 | 06 15 | 06 45 | 07 31 | 07 54 | 08 20 | 08 51 | | | |
| | 13 | 11 41.8 | 20.1 | 343 28.6 | 15.6 | 7 40.2 | 10.9 | 54.1 | N 40 | 05 41 | 06 12 | 06 39 | 07 35 | 08 01 | 08 31 | 09 04 | | | |
| | 14 | 26 41.9 | 19.1 | 358 03.2 | 15.6 | 7 51.1 | 10.8 | 54.1 | 35 | 05 40 | 06 09 | 06 35 | 07 39 | 08 08 | 08 40 | 09 15 | | | |
| | 15 | 41 42.0 | 18.2 | 12 37.8 | 15.6 | 8 01.9 | 10.9 | 54.1 | 30 | 05 38 | 06 06 | 06 30 | 07 42 | 08 13 | 08 47 | 09 25 | | | |
| | 16 | 56 42.1 | 17.3 | 27 12.4 | 15.6 | 8 12.8 | 10.8 | 54.1 | 20 | 05 35 | 06 01 | 06 23 | 07 48 | 08 23 | 09 01 | 09 42 | | | |
| | 17 | 71 42.2 | 16.4 | 41 47.0 | 15.5 | 8 23.6 | 10.8 | 54.1 | N 10 | 05 30 | 05 55 | 06 16 | 07 53 | 08 32 | 09 13 | 09 57 | | | |
| | 18 | 86 42.3 | S 9 15.4 | 56 21.5 | 15.5 | N 8 34.4 | 10.8 | 54.1 | 0 | 05 24 | 05 49 | 06 10 | 07 58 | 08 40 | 09 24 | 10 10 | | | |
| | 19 | 101 42.4 | 14.5 | 70 56.0 | 15.4 | 8 45.2 | 10.7 | 54.1 | S 10 | 05 17 | 05 42 | 06 03 | 08 03 | 08 48 | 09 35 | 10 24 | | | |
| | 20 | 116 42.4 | 13.6 | 85 30.4 | 15.5 | 8 55.9 | 10.7 | 54.1 | 20 | 05 08 | 05 34 | 05 56 | 08 08 | 08 57 | 09 47 | 10 40 | | | |
| | 21 | 131 42.5 | 12.7 | 100 04.9 | 15.4 | 9 06.6 | 10.6 | 54.1 | 30 | 04 55 | 05 24 | 05 48 | 08 14 | 09 07 | 10 01 | 10 57 | | | |
| | 22 | 146 42.6 | 11.7 | 114 39.3 | 15.3 | 9 17.2 | 10.6 | 54.2 | 35 | 04 46 | 05 17 | 05 43 | 08 18 | 09 13 | 10 10 | 11 07 | | | |
| 23 | 161 42.7 | 10.8 | 129 13.6 | 15.3 | 9 27.8 | 10.6 | 54.2 | 40 | 04 37 | 05 10 | 05 38 | 08 22 | 09 20 | 10 19 | 11 19 | | | | |
| 24 | 176 42.8 | S 9 09.9 | 143 47.9 | 15.3 | N 9 38.4 | 10.6 | 54.2 | 45 | 04 24 | 05 01 | 05 31 | 08 26 | 09 28 | 10 30 | 11 32 | | | | |
| 25 | 191 42.9 | 08.9 | 158 22.2 | 15.2 | 9 49.0 | 10.5 | 54.2 | S 50 | 04 08 | 04 50 | 05 24 | 08 32 | 09 37 | 10 43 | 11 49 | | | | |
| 02 | 206 43.0 | 08.0 | 172 56.4 | 15.2 | 9 59.5 | 10.5 | 54.2 | 52 | 04 00 | 04 45 | 05 20 | 08 35 | 09 42 | 10 49 | 11 57 | | | | |
| 03 | 221 43.1 | 07.1 | 187 30.6 | 15.2 | 10 10.0 | 10.4 | 54.2 | 54 | 03 52 | 04 39 | 05 16 | 08 38 | 09 46 | 10 56 | 12 06 | | | | |
| 04 | 236 43.2 | 06.2 | 202 04.8 | 15.1 | 10 20.4 | 10.4 | 54.2 | 56 | 03 42 | 04 32 | 05 12 | 08 41 | 09 52 | 11 04 | 12 16 | | | | |
| 05 | 251 43.3 | 05.2 | 216 38.9 | 15.1 | 10 30.8 | 10.4 | 54.2 | 58 | 03 30 | 04 25 | 05 07 | 08 44 | 09 58 | 11 12 | 12 27 | | | | |
| 06 | 266 43.4 | S 9 04.3 | 231 13.0 | 15.0 | N 10 41.2 | 10.3 | 54.2 | S 60 | 03 16 | 04 16 | 05 02 | 08 48 | 10 05 | 11 22 | 12 40 | | | | |
| 07 | 281 43.5 | 03.4 | 245 47.0 | 15.0 | 10 51.5 | 10.3 | 54.2 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | | | | |
| 08 | 296 43.6 | 02.4 | 260 21.0 | 15.0 | 11 01.8 | 10.2 | 54.3 | 24 | 25 | 26 | 27 | | | | | | | | |
| 09 | 311 43.7 | 01.5 | 274 55.0 | 14.9 | 11 12.0 | 10.2 | 54.3 | N 72 | 16 30 | 17 41 | 18 59 | 22 22 | 24 20 | 00 20 | 02 59 | | | | |
| 10 | 326 43.8 | 9 00.6 | 289 28.9 | 14.9 | 11 22.2 | 10.2 | 54.3 | N 70 | 16 42 | 17 45 | 18 56 | 22 07 | 23 52 | 25 50 | 01 50 | | | | |
| 11 | 341 43.9 | 8 59.6 | 304 02.8 | 14.8 | 11 32.4 | 10.1 | 54.3 | 68 | 16 51 | 17 49 | 18 53 | 21 56 | 23 32 | 25 14 | 01 14 | | | | |
| 12 | 356 44.0 | S 8 58.7 | 318 36.6 | 14.8 | N 11 42.5 | 10.1 | 54.3 | 66 | 16 59 | 17 52 | 18 51 | 21 46 | 23 15 | 24 48 | 00 48 | | | | |
| 13 | 11 44.1 | 57.8 | 333 10.4 | 14.7 | 11 52.6 | 10.0 | 54.3 | 64 | 17 06 | 17 55 | 18 50 | 21 38 | 23 02 | 24 29 | 00 29 | | | | |
| 14 | 26 44.2 | 56.8 | 347 44.1 | 14.7 | 12 02.6 | 10.0 | 54.3 | 62 | 17 12 | 17 57 | 18 49 | 21 31 | 22 51 | 24 13 | 00 13 | | | | |
| 15 | 41 44.3 | 55.9 | 2 17.8 | 14.6 | 12 12.6 | 9.9 | 54.3 | 60 | 17 17 | 17 59 | 18 48 | 21 25 | 22 42 | 23 59 | 25 16 | | | | |
| 16 | 56 44.4 | 55.0 | 16 51.4 | 14.6 | 12 22.5 | 9.9 | 54.4 | N 58 | 17 22 | 18 01 | 18 47 | 21 19 | 22 33 | 23 48 | 25 02 | | | | |
| 17 | 71 44.5 | 54.1 | 31 25.0 | 14.6 | 12 32.4 | 9.8 | 54.4 | 56 | 17 26 | 18 03 | 18 46 | 21 15 | 22 26 | 23 38 | 24 49 | | | | |
| 18 | 86 44.6 | S 8 53.1 | 45 58.6 | 14.5 | N 12 42.2 | 9.8 | 54.4 | 54 | 17 29 | 18 05 | 18 46 | 21 11 | 22 20 | 23 29 | 24 38 | | | | |
| 19 | 101 44.7 | 52.2 | 60 32.1 | 14.4 | 12 52.0 | 9.7 | 54.4 | 52 | 17 32 | 18 07 | 18 46 | 21 07 | 22 14 | 23 22 | 24 29 | | | | |
| 20 | 116 44.8 | 51.3 | 75 05.5 | 14.4 | 13 01.7 | 9.7 | 54.4 | 50 | 17 35 | 18 08 | 18 46 | 21 03 | 22 09 | 23 15 | 24 20 | | | | |
| 21 | 131 44.9 | 50.3 | 89 38.9 | 14.3 | 13 11.4 | 9.7 | 54.4 | 45 | 17 42 | 18 12 | 18 46 | 20 56 | 21 57 | 23 00 | 24 02 | | | | |
| 22 | 146 45.0 | 49.4 | 104 12.2 | 14.3 | 13 21.1 | 9.6 | 54.4 | N 40 | 17 47 | 18 15 | 18 46 | 20 50 | 21 48 | 22 47 | 23 47 | | | | |
| 23 | 161 45.1 | 48.5 | 118 45.5 | 14.3 | 13 30.7 | 9.5 | 54.5 | 35 | 17 52 | 18 13 | 18 47 | 20 44 | 21 40 | 22 37 | 23 35 | | | | |
| 24 | 176 45.2 | S 8 47.5 | 133 18.8 | 14.2 | N 13 40.2 | 9.5 | 54.5 | 30 | 17 56 | 18 20 | 18 48 | 20 40 | 21 33 | 22 28 | 23 24 | | | | |
| 01 | 191 45.3 | 46.6 | 147 52.0 | 14.1 | 13 49.7 | 9.4 | 54.5 | 20 | 18 04 | 18 26 | 18 52 | 20 32 | 21 21 | 22 12 | 23 05 | | | | |
| 02 | 206 45.4 | 45.7 | 162 25.1 | 14.1 | 13 59.1 | 9.4 | 54.5 | N 10 | 18 10 | 18 31 | 18 56 | 20 25 | 21 11 | 21 59 | 22 49 | | | | |
| 03 | 221 45.5 | 44.7 | 176 58.2 | 14.0 | 14 08.5 | 9.3 | 54.5 | 0 | 18 16 | 18 37 | 19 02 | 20 18 | 21 01 | 21 46 | 22 34 | | | | |
| 04 | 236 45.6 | 43.8 | 191 31.2 | 14.0 | 14 17.8 | 9.2 | 54.5 | S 10 | 18 23 | 18 44 | 19 09 | 20 12 | 20 51 | 21 33 | 22 19 | | | | |
| 05 | 251 45.7 | 42.8 | 206 04.2 | 13.9 | 14 27.0 | 9.2 | 54.5 | 20 | 18 30 | 18 52 | 19 18 | 20 05 | 20 41 | 21 20 | 22 03 | | | | |
| 06 | 266 45.9 | S 8 41.9 | 220 37.1 | 13.8 | N 14 36.2 | 9.2 | 54.6 | 30 | 18 38 | 19 02 | 19 31 | 19 57 | 20 29 | 21 05 | 21 44 | | | | |
| 07 | 281 46.0 | 41.0 | 235 09.9 | 13.8 | 14 45.4 | 9.1 | 54.6 | 35 | 18 42 | 19 08 | 19 39 | 19 52 | 20 22 | 20 56 | 21 33 | | | | |
| 08 | 296 46.1 | 40.0 | 249 42.7 | 13.8 | 14 54.5 | 9.0 | 54.6 | 40 | 18 48 | 19 15 | 19 49 | 19 47 | 20 15 | 20 46 | 21 21 | | | | |
| 09 | 311 46.2 | 39.1 | 264 15.5 | 13.7 | 15 03.5 | 9.0 | 54.6 | 45 | 18 54 | 19 24 | 20 01 | 19 41 | 20 06 | 20 34 | 21 07 | | | | |
| 10 | 326 46.3 | 38.2 | 278 48.2 | 13.6 | 15 12.5 | 8.9 | 54.6 | S 50 | 19 01 | 19 35 | 20 16 | 19 34 | 19 55 | 20 19 | 20 49 | | | | |
| 11 | 341 46.4 | 37.2 | 293 20.8 | 13.6 | 15 21.4 | 8.8 | 54.6 | 52 | 19 05 | 19 40 | 20 24 | 19 31 | 19 50 | 20 13 | 20 41 | | | | |
| 12 | 356 46.5 | S 8 36.3 | 307 53.4 | 13.5 | N 15 30.2 | 8.8 | 54.7 | 54 | 19 09 | 19 46 | 20 33 | 19 27 | 19 44 | 20 05 | 20 32 | | | | |
| 13 | 11 46.6 | 35.4 | 322 25.9 | 13.4 | 15 39.0 | 8.7 | 54.7 | 56 | 19 13 | 19 52 | 20 42 | 19 23 | 19 38 | 19 57 | 20 21 | | | | |
| 14 | 26 46.7 | 34.4 | 336 58.3 | 13.4 | 15 47.7 | 8.7 | 54.7 | 58 | 19 17 | 20 00 | 20 54 | 19 19 | 19 32 | 19 48 | 20 09 | | | | |
| 15 | 41 46.8 | 33.5 | 351 30.7 | 13.3 | 15 56.4 | 8.6 | 54.7 | S 60 | 19 23 | 20 08 | 21 08 | 19 14 | 19 24 | 19 37 | 19 56 | | | | |
| 16 | 56 46.9 | 32.5 | 6 03.0 | 13.3 | 16 05.0 | 8.5 | 54.7 | Día | SOL | | | LUNA | | | | | | | |
| 17 | 71 47.0 | 31.6 | 20 35.3 | 13.2 | 16 13.5 | 8.5 | 54.8 | E.T. (-) | Pas. Mer. | Pas. Mer. | | Edad | Fase | | | | | | |
| 18 | 86 47.1 | S 8 30.7 | 35 07.5 | 13.1 | N 16 22.0 | 8.4 | 54.8 | 00 h | 12 h | Sup. | Inf. | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|--------|----------|----------|----------|------|----------|------|------------|-------|-----------|------------|-------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 27 | 28 | 1 | 2 | |
| | | | | | | | | | | | | h m | h m | h m | h m | h m |
| 27 | 00 | 176 47.8 | S 8 25.0 | 122 19.4 | 12.8 | N17 11.3 | 7.9 | 54.9 | N 72 | 05 15 | 06 33 | 07 42 | 04 43 | □ | □ | □ |
| | 01 | 191 47.9 | 24.1 | 136 51.2 | 12.7 | 17 19.2 | 7.9 | 54.9 | N 70 | 05 19 | 06 30 | 07 32 | 05 53 | □ | □ | □ |
| | 02 | 206 48.0 | 23.2 | 151 22.9 | 12.6 | 17 27.1 | 7.9 | 54.9 | 68 | 05 23 | 06 27 | 07 24 | 06 30 | 06 19 | □ | □ |
| | 03 | 221 48.1 | 22.2 | 165 54.5 | 12.5 | 17 35.0 | 7.7 | 55.0 | 66 | 05 26 | 06 25 | 07 17 | 06 57 | 07 01 | 07 15 | 07 55 |
| | 04 | 236 48.2 | 21.3 | 180 26.0 | 12.5 | 17 42.7 | 7.7 | 55.0 | 64 | 05 28 | 06 23 | 07 11 | 07 17 | 07 30 | 07 55 | 08 41 |
| | 05 | 251 48.3 | 20.3 | 194 57.5 | 12.5 | 17 50.4 | 7.6 | 55.0 | 62 | 05 30 | 06 21 | 07 06 | 07 34 | 07 53 | 08 23 | 09 11 |
| | 06 | 266 48.4 | S 8 19.4 | 209 29.0 | 12.3 | N17 58.0 | 7.5 | 55.0 | 60 | 05 32 | 06 20 | 07 02 | 07 48 | 08 10 | 08 44 | 09 33 |
| | 07 | 281 48.5 | 18.5 | 224 00.3 | 12.3 | 18 05.5 | 7.5 | 55.0 | N 58 | 05 33 | 06 18 | 06 58 | 08 00 | 08 25 | 09 01 | 09 52 |
| | 08 | 296 48.6 | 17.5 | 238 31.6 | 12.3 | 18 13.0 | 7.3 | 55.1 | 56 | 05 34 | 06 17 | 06 54 | 08 10 | 08 38 | 09 16 | 10 07 |
| | 09 | 311 48.8 | 16.6 | 253 02.9 | 12.1 | 18 20.3 | 7.3 | 55.1 | 54 | 05 35 | 06 15 | 06 51 | 08 19 | 08 49 | 09 29 | 10 20 |
| | A 10 | 326 48.9 | 15.6 | 267 34.0 | 12.1 | 18 27.6 | 7.2 | 55.1 | 52 | 05 35 | 06 14 | 06 48 | 08 28 | 08 59 | 09 40 | 10 32 |
| | B 11 | 341 49.0 | 14.7 | 282 05.1 | 12.0 | 18 34.8 | 7.1 | 55.1 | 50 | 05 36 | 06 13 | 06 46 | 08 35 | 09 08 | 09 50 | 10 42 |
| | A 12 | 356 49.1 | S 8 13.8 | 296 36.1 | 12.0 | N18 41.9 | 7.1 | 55.2 | 45 | 05 36 | 06 10 | 06 40 | 08 51 | 09 27 | 10 11 | 11 04 |
| | D 13 | 11 49.2 | 12.8 | 311 07.1 | 11.9 | 18 49.0 | 6.9 | 55.2 | N 40 | 05 37 | 06 08 | 06 35 | 09 04 | 09 43 | 10 28 | 11 21 |
| | O 14 | 26 49.3 | 11.9 | 325 38.0 | 11.8 | 18 55.9 | 6.9 | 55.2 | 35 | 05 36 | 06 05 | 06 31 | 09 15 | 09 56 | 10 42 | 11 36 |
| | 15 | 41 49.4 | 10.9 | 340 08.8 | 11.8 | 19 02.8 | 6.8 | 55.2 | 30 | 05 35 | 06 03 | 06 27 | 09 25 | 10 07 | 10 55 | 11 48 |
| | 16 | 56 49.5 | 10.0 | 354 39.6 | 11.6 | 19 09.6 | 6.7 | 55.3 | 20 | 05 33 | 05 58 | 06 21 | 09 42 | 10 27 | 11 16 | 12 10 |
| | 17 | 71 49.7 | 09.0 | 9 10.2 | 11.6 | 19 16.3 | 6.6 | 55.3 | N 10 | 05 29 | 05 54 | 06 15 | 09 57 | 10 44 | 11 35 | 12 29 |
| | 18 | 86 49.8 | S 8 08.1 | 23 40.8 | 11.6 | N19 22.9 | 6.5 | 55.3 | 0 | 05 24 | 05 48 | 06 09 | 10 10 | 11 00 | 11 52 | 12 47 |
| | 19 | 101 49.9 | 07.2 | 38 11.4 | 11.5 | 19 29.4 | 6.5 | 55.3 | S 10 | 05 18 | 05 42 | 06 04 | 10 24 | 11 16 | 12 09 | 13 04 |
| | 20 | 116 50.0 | 06.2 | 52 41.9 | 11.4 | 19 35.9 | 6.3 | 55.4 | 20 | 05 09 | 05 35 | 05 57 | 10 40 | 11 33 | 12 28 | 13 23 |
| | 21 | 131 50.1 | 05.3 | 67 12.3 | 11.3 | 19 42.2 | 6.3 | 55.4 | 30 | 04 57 | 05 26 | 05 50 | 10 57 | 11 53 | 12 50 | 13 45 |
| | 22 | 146 50.2 | 04.3 | 81 42.6 | 11.3 | 19 48.5 | 6.2 | 55.4 | 35 | 04 50 | 05 20 | 05 46 | 11 07 | 12 05 | 13 02 | 13 58 |
| | 23 | 161 50.3 | 03.4 | 96 12.9 | 11.1 | 19 54.7 | 6.0 | 55.4 | 40 | 04 40 | 05 13 | 05 41 | 11 19 | 12 18 | 13 17 | 14 13 |
| | 28 | 00 | S 8 02.4 | 110 43.0 | 11.2 | N20 00.7 | 6.0 | 55.5 | 45 | 04 29 | 05 05 | 05 36 | 11 32 | 12 34 | 13 34 | 14 30 |
| | 01 | 191 50.6 | 01.5 | 125 13.2 | 11.0 | 20 06.7 | 5.9 | 55.5 | S 50 | 04 14 | 04 55 | 05 29 | 11 49 | 12 54 | 13 56 | 14 52 |
| | 02 | 206 50.7 | 8 00.5 | 139 43.2 | 11.0 | 20 12.6 | 5.8 | 55.5 | 52 | 04 07 | 04 51 | 05 26 | 11 57 | 13 03 | 14 06 | 15 02 |
| | 03 | 221 50.8 | 7 59.6 | 154 13.2 | 10.9 | 20 18.4 | 5.7 | 55.5 | 54 | 03 59 | 04 45 | 05 22 | 12 06 | 13 14 | 14 18 | 15 14 |
| | 04 | 236 50.9 | 58.7 | 168 43.1 | 10.8 | 20 24.1 | 5.6 | 55.6 | 56 | 03 50 | 04 39 | 05 19 | 12 16 | 13 26 | 14 31 | 15 27 |
| | 05 | 251 51.0 | 57.7 | 183 12.9 | 10.8 | 20 29.7 | 5.6 | 55.6 | 58 | 03 39 | 04 32 | 05 14 | 12 27 | 13 40 | 14 46 | 15 42 |
| | 06 | 266 51.1 | S 7 56.8 | 197 42.7 | 10.7 | N20 35.3 | 5.4 | 55.6 | S 60 | 03 27 | 04 25 | 05 10 | 12 40 | 13 56 | 15 05 | 16 01 |
| | 07 | 281 51.3 | 55.8 | 212 12.4 | 10.6 | 20 40.7 | 5.3 | 55.6 | | | | | | | | |
| | O 08 | 296 51.4 | 54.9 | 226 42.0 | 10.6 | 20 46.0 | 5.2 | 55.7 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| | 09 | 311 51.5 | 53.9 | 241 11.6 | 10.5 | 20 51.2 | 5.1 | 55.7 | | | Civil | Naut. | 27 | 28 | 1 | 2 |
| | M 10 | 326 51.6 | 53.0 | 255 41.1 | 10.4 | 20 56.3 | 5.0 | 55.7 | | | | | h m | h m | h m | h m |
| | I 11 | 341 51.7 | 52.0 | 270 10.5 | 10.4 | 21 01.3 | 5.0 | 55.8 | N 72 | 16 45 | 17 55 | 19 13 | 02 59 | □ | □ | □ |
| | N 12 | 356 51.8 | S 7 51.1 | 284 39.9 | 10.3 | N21 06.3 | 4.8 | 55.8 | N 70 | 16 55 | 17 57 | 19 08 | 01 50 | □ | □ | □ |
| | G 13 | 11 52.0 | 50.1 | 299 09.2 | 10.2 | 21 11.1 | 4.7 | 55.8 | 68 | 17 03 | 18 00 | 19 04 | 01 14 | 03 06 | □ | □ |
| | O 14 | 26 52.1 | 49.2 | 313 38.4 | 10.1 | 21 15.8 | 4.6 | 55.8 | 66 | 17 10 | 18 02 | 19 01 | 00 48 | 02 24 | 03 56 | 05 09 |
| | 15 | 41 52.2 | 48.3 | 328 07.5 | 10.1 | 21 20.4 | 4.5 | 55.9 | 64 | 17 15 | 18 04 | 19 01 | 00 29 | 01 55 | 03 17 | 04 24 |
| | 16 | 56 52.3 | 47.3 | 342 36.6 | 10.0 | 21 24.9 | 4.4 | 55.9 | 62 | 17 20 | 18 05 | 18 57 | 00 13 | 01 34 | 02 50 | 03 54 |
| | 17 | 71 52.4 | 46.4 | 357 05.6 | 9.9 | 21 29.3 | 4.3 | 55.9 | 60 | 17 25 | 18 07 | 18 55 | 25 16 | 01 16 | 02 29 | 03 31 |
| | 18 | 86 52.5 | S 7 45.4 | 11 34.5 | 9.9 | N21 33.6 | 4.1 | 56.0 | N 58 | 17 29 | 18 08 | 18 54 | 25 02 | 01 02 | 02 11 | 03 13 |
| | 19 | 101 52.7 | 44.5 | 26 03.4 | 9.8 | 21 37.7 | 4.1 | 56.0 | 56 | 17 32 | 18 09 | 18 52 | 24 49 | 00 49 | 01 57 | 02 58 |
| | 20 | 116 52.8 | 43.5 | 40 32.2 | 9.7 | 21 41.8 | 4.0 | 56.0 | 54 | 17 35 | 18 11 | 18 52 | 24 38 | 00 38 | 01 44 | 02 44 |
| | 21 | 131 52.9 | 42.6 | 55 00.9 | 9.7 | 21 45.8 | 3.8 | 56.1 | 52 | 17 38 | 18 12 | 18 51 | 24 29 | 00 29 | 01 33 | 02 33 |
| | 22 | 146 53.0 | 41.6 | 69 29.6 | 9.6 | 21 49.6 | 3.8 | 56.1 | 50 | 17 40 | 18 13 | 18 50 | 24 20 | 00 20 | 01 24 | 02 23 |
| | 23 | 161 53.1 | 40.7 | 83 58.2 | 9.5 | 21 53.4 | 3.6 | 56.1 | 45 | 17 46 | 18 15 | 18 49 | 24 02 | 00 02 | 01 03 | 02 01 |
| | 1 | 00 | S 7 39.7 | 98 26.7 | 9.5 | N21 57.0 | 3.5 | 56.2 | N 40 | 17 51 | 18 18 | 18 49 | 23 47 | 24 46 | 00 46 | 01 44 |
| | 01 | 191 53.4 | 38.8 | 112 55.2 | 9.4 | 22 00.5 | 3.4 | 56.2 | 35 | 17 55 | 18 20 | 18 50 | 23 35 | 24 32 | 00 32 | 01 29 |
| | 02 | 206 53.5 | 37.8 | 127 23.6 | 9.3 | 22 03.9 | 3.3 | 56.2 | 30 | 17 58 | 18 22 | 18 50 | 23 24 | 24 20 | 00 20 | 01 16 |
| | 03 | 221 53.6 | 36.9 | 141 51.9 | 9.3 | 22 07.2 | 3.2 | 56.2 | 20 | 18 05 | 18 27 | 18 53 | 23 05 | 23 59 | 24 54 | 00 54 |
| | 04 | 236 53.7 | 35.9 | 156 20.2 | 9.2 | 22 10.4 | 3.0 | 56.3 | N 10 | 18 10 | 18 32 | 18 56 | 22 49 | 23 41 | 24 36 | 00 36 |
| | 05 | 251 53.9 | 35.0 | 170 48.4 | 9.1 | 22 13.4 | 3.0 | 56.3 | 0 | 18 16 | 18 37 | 19 01 | 22 34 | 23 24 | 24 18 | 00 18 |
| | 06 | 266 54.0 | S 7 34.0 | 185 16.5 | 9.1 | N22 16.4 | 2.8 | 56.3 | S 10 | 18 21 | 18 43 | 19 07 | 22 19 | 23 08 | 24 00 | 00 00 |
| | 07 | 281 54.1 | 33.1 | 199 44.6 | 9.0 | 22 19.2 | 2.7 | 56.4 | 20 | 18 27 | 18 50 | 19 16 | 22 03 | 22 50 | 23 41 | 24 38 |
| | 08 | 296 54.2 | 32.1 | 214 12.6 | 9.0 | 22 21.9 | 2.6 | 56.4 | 30 | 18 34 | 18 59 | 19 27 | 21 44 | 22 29 | 23 20 | 24 16 |
| | L 09 | 311 54.4 | 31.2 | 228 40.6 | 8.9 | 22 24.5 | 2.5 | 56.4 | 35 | 18 38 | 19 04 | 19 35 | 21 33 | 22 17 | 23 07 | 24 04 |
| | 10 | 326 54.5 | 30.2 | 243 08.5 | 8.8 | 22 27.0 | 2.3 | 56.5 | 40 | 18 43 | 19 11 | 19 44 | 21 21 | 22 03 | 22 52 | 23 49 |
| | 11 | 341 54.6 | 29.3 | 257 36.3 | 8.8 | 22 29.3 | 2.3 | 56.5 | 45 | 18 49 | 19 19 | 19 55 | 21 07 | 21 46 | 22 34 | 23 32 |
| | 12 | 356 54.7 | S 7 28.3 | 272 04.1 | 8.7 | N22 31.6 | 2.1 | 56.5 | S 50 | 18 55 | 19 29 | 20 09 | 20 49 | 21 26 | 22 13 | 23 10 |
| | 13 | 11 54.8 | 27.4 | 286 31.8 | 8.6 | 22 33.7 | 2.0 | 56.6 | 52 | 18 58 | 19 33 | 20 16 | 20 41 | 21 17 | 22 02 | 23 00 |
| | 14 | 26 55.0 | 26.4 | 300 59.4 | 8.6 | 22 35.7 | 1.8 | 56.6 | 54 | 19 01 | 19 38 | 20 24 | 20 32 | 21 06 | 21 51 | 22 49 |
| | 15 | 41 55.1 | 25.5 | 315 27.0 | 8.5 | 22 37.5 | 1.8 | 56.7 | 56 | 19 05 | 19 44 | 20 33 | 20 21 | 20 54 | 21 37 | 22 35 |
| | 16 | 56 55.2 | 24.5 | 329 54.5 | 8.5 | 22 39.3 | 1.6 | 56.7 | 58 | 19 09 | 19 51 | 20 44 | 20 09 | 20 39 | 21 22 | 22 20 |
| | 17 | 71 55.3 | 23.6 | 344 22.0 | 8.4 | 22 40.9 | 1.5 | 56.7 | S 60 | 19 14 | 19 58 | 20 56 | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.6 | | | MARTE +0.0 | | | JUPITER -2.4 | | | SATURNO +0.8 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|------------|------------|----------|----------|--------------|----------|----------|--------------|----------|------|-----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | Nombre | A. H. S. | Dec. |
| d h | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | ° / | ° / | | ° / | ° / |
| 2 00 | 159 47.8 | 145 05.2 | N12 24.3 | 58 43.3 | N26 18.8 | 327 06.9 | S 3 45.3 | 193 44.8 | S14 44.4 | Acamar | 315 30.0 | S40 20.1 | | | | | | |
| 01 | 174 50.2 | 160 07.0 | 25.0 | 73 45.3 | 18.7 | 342 09.6 | 45.2 | 208 47.0 | 44.3 | Achernar | 335 38.3 | S57 16.4 | | | | | | |
| 02 | 189 52.7 | 175 08.9 | 25.7 | 88 47.3 | 18.6 | 357 12.3 | 45.1 | 223 49.2 | 44.2 | AcruX | 173 25.7 | S63 03.7 | | | | | | |
| 03 | 204 55.2 | 190 10.7 | .. 26.4 | 103 49.3 | .. 18.5 | 12 14.9 | .. 45.0 | 238 51.4 | .. 44.1 | Adhara | 255 24.2 | S28 58.0 | | | | | | |
| 04 | 219 57.6 | 205 12.5 | 27.1 | 118 51.3 | 18.4 | 27 17.6 | 44.9 | 253 53.5 | 44.1 | Aldebaran | 291 06.8 | N16 29.7 | | | | | | |
| 05 | 235 00.1 | 220 14.3 | 27.8 | 133 53.3 | 18.3 | 42 20.3 | 44.8 | 268 55.7 | 44.0 | | | | | | | | | |
| 06 | 250 02.6 | 235 16.2 | N12 28.5 | 148 55.3 | N26 18.2 | 57 23.0 | S 3 44.7 | 283 57.9 | S14 43.9 | Alioth | 166 33.4 | N55 59.5 | | | | | | |
| 07 | 265 05.0 | 250 18.0 | 29.2 | 163 57.3 | 18.1 | 72 25.7 | 44.6 | 299 00.1 | 43.8 | Alkaid | 153 10.4 | N49 20.5 | | | | | | |
| 08 | 280 07.5 | 265 19.8 | 29.9 | 178 59.3 | 18.0 | 87 28.3 | 44.5 | 314 02.3 | 43.7 | Al Na'ir | 28 03.1 | S46 59.6 | | | | | | |
| M 09 | 295 10.0 | 280 21.7 | .. 30.6 | 194 01.4 | .. 17.9 | 102 31.0 | .. 44.4 | 329 04.4 | .. 43.6 | Alnilam | 276 01.7 | S 1 12.5 | | | | | | |
| A 10 | 310 12.4 | 295 23.5 | 31.3 | 209 03.4 | 17.8 | 117 33.7 | 44.3 | 344 06.6 | 43.5 | Alphard | 218 10.7 | S 8 38.0 | | | | | | |
| R 11 | 325 14.9 | 310 25.4 | 32.0 | 224 05.4 | 17.7 | 132 36.4 | 44.2 | 359 08.8 | 43.4 | | | | | | | | | |
| T 12 | 340 17.4 | 325 27.2 | N12 32.7 | 239 07.4 | N26 17.6 | 147 39.0 | S 3 44.1 | 14 11.0 | S14 43.3 | Alphecca | 126 23.7 | N26 43.9 | | | | | | |
| E 13 | 355 19.8 | 340 29.1 | 33.4 | 254 09.4 | 17.5 | 162 41.7 | 44.0 | 29 13.1 | 43.2 | Alpheratz | 357 59.5 | N29 03.2 | | | | | | |
| S 14 | 10 22.3 | 355 30.9 | 34.0 | 269 11.4 | 17.4 | 177 44.4 | 43.9 | 44 15.3 | 43.1 | Altair | 62 23.2 | N 8 50.9 | | | | | | |
| 15 | 25 24.7 | 10 32.8 | .. 34.7 | 284 13.4 | .. 17.3 | 192 47.1 | .. 43.8 | 59 17.5 | .. 43.0 | Ankaa | 353 30.9 | S42 20.7 | | | | | | |
| 16 | 40 27.2 | 25 34.6 | 35.4 | 299 15.3 | 17.2 | 207 49.8 | 43.7 | 74 19.7 | 42.9 | Antares | 112 44.8 | S26 25.0 | | | | | | |
| 17 | 55 29.7 | 40 36.5 | 36.1 | 314 17.3 | 17.1 | 222 52.5 | 43.6 | 89 21.9 | 42.9 | | | | | | | | | |
| 18 | 70 32.1 | 55 38.4 | N12 36.8 | 329 19.3 | N26 17.1 | 237 55.1 | S 3 43.6 | 104 24.0 | S14 42.8 | Arcturus | 146 09.3 | N19 12.8 | | | | | | |
| 19 | 85 34.6 | 70 40.2 | 37.5 | 344 21.3 | 17.0 | 252 57.8 | 43.5 | 119 26.2 | 42.7 | Atria | 108 00.3 | S69 00.7 | | | | | | |
| 20 | 100 37.1 | 85 42.1 | 38.1 | 359 23.3 | 16.9 | 268 00.5 | 43.4 | 134 28.4 | 42.6 | Avior | 234 23.7 | S59 29.6 | | | | | | |
| 21 | 115 39.5 | 100 44.0 | .. 38.8 | 14 25.3 | .. 16.8 | 283 03.2 | .. 43.3 | 149 30.6 | .. 42.5 | Bellatrix | 278 48.2 | N 6 20.5 | | | | | | |
| 22 | 130 42.0 | 115 45.9 | 39.5 | 29 27.3 | 16.7 | 298 05.9 | 43.2 | 164 32.8 | 42.4 | Betelgeuse | 271 17.6 | N 7 24.3 | | | | | | |
| 23 | 145 44.5 | 130 47.7 | 40.2 | 44 29.3 | 16.6 | 313 08.5 | 43.1 | 179 34.9 | 42.3 | | | | | | | | | |
| 3 00 | 160 46.9 | 145 49.6 | N12 40.8 | 59 31.3 | N26 16.5 | 328 11.2 | S 3 43.0 | 194 37.1 | S14 42.2 | Canopus | 264 02.6 | S52 41.9 | | | | | | |
| 01 | 175 49.4 | 160 51.5 | 41.5 | 74 33.3 | 16.4 | 343 13.9 | 42.9 | 209 39.3 | 42.1 | Capella | 280 56.8 | N45 59.6 | | | | | | |
| 02 | 190 51.9 | 175 53.4 | 42.2 | 89 35.3 | 16.3 | 358 16.6 | 42.8 | 224 41.5 | 42.0 | Deneb | 49 42.2 | N45 15.2 | | | | | | |
| 03 | 205 54.3 | 190 55.3 | .. 42.8 | 104 37.2 | .. 16.2 | 13 19.3 | .. 42.7 | 239 43.7 | .. 41.9 | Denebola | 182 48.7 | N14 36.3 | | | | | | |
| 04 | 220 56.8 | 205 57.2 | 43.5 | 119 39.2 | 16.1 | 28 22.0 | 42.6 | 254 45.8 | 41.8 | Diphda | 349 11.3 | S18 01.5 | | | | | | |
| 05 | 235 59.2 | 220 59.1 | 44.2 | 134 41.2 | 16.0 | 43 24.6 | 42.5 | 269 48.0 | 41.7 | | | | | | | | | |
| 06 | 251 01.7 | 236 01.0 | N12 44.8 | 149 43.2 | N26 15.9 | 58 27.3 | S 3 42.4 | 284 50.2 | S14 41.7 | Dubhe | 194 09.4 | N61 47.1 | | | | | | |
| 07 | 266 04.2 | 251 02.9 | 45.5 | 164 45.2 | 15.8 | 73 30.0 | 42.3 | 299 52.4 | 41.6 | Elnath | 278 31.7 | N28 36.2 | | | | | | |
| M 08 | 281 06.6 | 266 04.8 | 46.2 | 179 47.1 | 15.7 | 88 32.7 | 42.2 | 314 54.5 | 41.5 | Eltanin | 90 53.3 | N51 29.1 | | | | | | |
| 09 | 296 09.1 | 281 06.7 | .. 46.8 | 194 49.1 | .. 15.6 | 103 35.4 | .. 42.1 | 329 56.7 | .. 41.4 | Enif | 34 02.3 | N 9 50.6 | | | | | | |
| I 10 | 311 11.6 | 296 08.7 | 47.5 | 209 51.1 | 15.5 | 118 38.1 | 42.0 | 344 58.9 | 41.3 | Fomalhaut | 15 41.0 | S29 39.5 | | | | | | |
| R 11 | 326 14.0 | 311 10.6 | 48.1 | 224 53.1 | 15.4 | 133 40.7 | 41.9 | 0 01.1 | 41.2 | | | | | | | | | |
| C 12 | 341 16.5 | 326 12.5 | N12 48.8 | 239 55.0 | N26 15.3 | 148 43.4 | S 3 41.8 | 15 03.3 | S14 41.1 | Gacrux | 172 17.4 | S57 04.6 | | | | | | |
| O 13 | 356 19.0 | 341 14.4 | 49.4 | 254 57.0 | 15.2 | 163 46.1 | 41.7 | 30 05.4 | 41.0 | Gienah | 176 07.6 | S17 30.4 | | | | | | |
| L 14 | 11 21.4 | 356 16.4 | 50.1 | 269 59.0 | 15.1 | 178 48.8 | 41.5 | 45 07.6 | 40.9 | Hadar | 149 09.1 | S60 20.4 | | | | | | |
| E 15 | 26 23.9 | 11 18.3 | .. 50.7 | 285 01.0 | .. 15.0 | 193 51.5 | .. 41.4 | 60 09.8 | .. 40.8 | Hamal | 328 18.1 | N23 25.9 | | | | | | |
| S 16 | 41 26.4 | 26 20.2 | 51.4 | 300 02.9 | 14.9 | 208 54.2 | 41.3 | 75 12.0 | 40.7 | Kaus Aust. | 84 04.0 | S34 23.2 | | | | | | |
| 17 | 56 28.8 | 41 22.2 | 52.0 | 315 04.9 | 14.8 | 223 56.9 | 41.2 | 90 14.2 | 40.6 | | | | | | | | | |
| 18 | 71 31.3 | 56 24.1 | N12 52.7 | 330 06.9 | N26 14.7 | 238 59.5 | S 3 41.1 | 105 16.3 | S14 40.5 | Kochab | 137 18.7 | N74 10.6 | | | | | | |
| 19 | 86 33.7 | 71 26.1 | 53.3 | 345 08.8 | 14.5 | 254 02.2 | 41.0 | 120 18.5 | 40.5 | Markab | 13 53.8 | N15 10.1 | | | | | | |
| 20 | 101 36.2 | 86 28.0 | 54.0 | 0 10.8 | 14.4 | 269 04.9 | 40.9 | 135 20.7 | 40.4 | Menkar | 314 31.0 | N 4 03.7 | | | | | | |
| 21 | 116 38.7 | 101 30.0 | .. 54.6 | 15 12.8 | .. 14.3 | 284 07.6 | .. 40.8 | 150 22.9 | .. 40.3 | Menkent | 148 25.2 | S36 20.2 | | | | | | |
| 22 | 131 41.1 | 116 31.9 | 55.3 | 30 14.7 | 14.2 | 299 10.3 | 40.7 | 165 25.1 | 40.2 | Miaplacidus | 221 42.1 | S69 41.6 | | | | | | |
| 23 | 146 43.6 | 131 33.9 | 55.9 | 45 16.7 | 14.1 | 314 13.0 | 40.6 | 180 27.2 | 40.1 | | | | | | | | | |
| 4 00 | 161 46.1 | 146 35.8 | N12 56.5 | 60 18.7 | N26 14.0 | 329 15.7 | S 3 40.5 | 195 29.4 | S14 40.0 | Mirfak | 309 02.3 | N49 50.4 | | | | | | |
| 01 | 176 48.5 | 161 37.8 | 57.2 | 75 20.6 | 13.9 | 344 18.3 | 40.4 | 210 31.6 | 39.9 | Nunki | 76 17.2 | S26 18.3 | | | | | | |
| 02 | 191 51.0 | 176 39.8 | 57.8 | 90 22.6 | 13.8 | 359 21.0 | 40.3 | 225 33.8 | 39.8 | Peacock | 53 43.4 | S56 45.3 | | | | | | |
| 03 | 206 53.5 | 191 41.7 | .. 58.4 | 105 24.5 | .. 13.7 | 14 23.7 | .. 40.2 | 240 36.0 | .. 39.7 | Pollux | 243 45.9 | N28 02.5 | | | | | | |
| 04 | 221 55.9 | 206 43.7 | 59.1 | 120 26.5 | 13.6 | 29 26.4 | 40.1 | 255 38.1 | 39.6 | Procyon | 245 15.3 | N 5 14.4 | | | | | | |
| 05 | 236 58.4 | 221 45.7 | 12 59.7 | 135 28.4 | 13.5 | 44 29.1 | 40.0 | 270 40.3 | 39.5 | | | | | | | | | |
| 06 | 252 00.8 | 236 47.7 | N13 00.3 | 150 30.4 | N26 13.4 | 59 31.8 | S 3 39.9 | 285 42.5 | S14 39.4 | Rasalhague | 96 20.6 | N12 33.7 | | | | | | |
| 07 | 267 03.3 | 251 49.7 | 01.0 | 165 32.4 | 13.3 | 74 34.5 | 39.8 | 300 44.7 | 39.4 | Regulus | 207 59.3 | N11 59.8 | | | | | | |
| 08 | 282 05.8 | 266 51.7 | 01.6 | 180 34.3 | 13.2 | 89 37.2 | 39.7 | 315 46.9 | 39.3 | Rigel | 281 26.6 | S 8 12.7 | | | | | | |
| J 09 | 297 08.2 | 281 53.7 | .. 02.2 | 195 36.3 | .. 13.1 | 104 39.9 | .. 39.6 | 330 49.0 | .. 39.2 | Rigil Kent. | 140 12.1 | S60 48.3 | | | | | | |
| U 10 | 312 10.7 | 296 55.7 | 02.8 | 210 38.2 | 13.0 | 119 42.5 | 39.5 | 345 51.2 | 39.1 | Sabik | 102 29.9 | S15 43.1 | | | | | | |
| E 11 | 327 13.2 | 311 57.7 | 03.5 | 225 40.2 | 12.9 | 134 45.2 | 39.4 | 0 53.4 | 39.0 | | | | | | | | | |
| V 12 | 342 15.6 | 326 59.7 | N13 04.1 | 240 42.1 | N26 12.8 | 149 47.9 | S 3 39.3 | 15 55.6 | S14 38.9 | Schedar | 349 58.4 | N56 30.2 | | | | | | |
| E 13 | 357 18.1 | 342 01.7 | 04.7 | 255 44.1 | 12.7 | 164 50.6 | 39.2 | 30 57.8 | 38.8 | Shaula | 96 42.6 | S37 05.9 | | | | | | |
| S 14 | 12 20.6 | 357 03.7 | 05.3 | 270 46.0 | 12.6 | 179 53.3</ | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | | | | | |
|---------------------------------|--------|------|------|------|--------|------|------|------|------|------------|-------|-----------|------------------|-------|------------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 5 | | 6 | | 7 | | 8 | | | | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | h | m | h | m | h | m | h | m | h | m | | | | | | |
| V I E R N E S | 5 | 00 | 177 | 05.8 | S 6 | 07.8 | 44 | 47.2 | 6.8 | N17 | 42.5 | 9.2 | 59.8 | N 72 | 04 | 44 | 06 | 03 | 07 | 11 | 11 | 28 | 14 | 10 | 16 | 32 | 18 | 50 |
| | 01 | 192 | 05.9 | 06.9 | 59 | 13.0 | 6.9 | 17 | 33.3 | 9.3 | 59.8 | N 70 | 04 | 52 | 06 | 03 | 07 | 04 | 12 | 09 | 14 | 28 | 16 | 39 | 18 | 47 | | |
| | 02 | 207 | 06.1 | 05.9 | 73 | 38.9 | 6.9 | 17 | 24.0 | 9.4 | 59.9 | 68 | 04 | 59 | 06 | 03 | 06 | 59 | 12 | 37 | 14 | 42 | 16 | 44 | 18 | 45 | | |
| | 03 | 222 | 06.2 | 04.9 | 88 | 04.8 | 6.8 | 17 | 14.6 | 9.6 | 59.9 | 66 | 05 | 04 | 06 | 03 | 06 | 54 | 12 | 57 | 14 | 53 | 16 | 48 | 18 | 42 | | |
| | 04 | 237 | 06.4 | 04.0 | 102 | 30.6 | 6.9 | 17 | 05.0 | 9.6 | 59.9 | 64 | 05 | 08 | 06 | 03 | 06 | 50 | 13 | 14 | 15 | 03 | 16 | 52 | 18 | 41 | | |
| | 05 | 252 | 06.5 | 03.0 | 116 | 56.5 | 7.0 | 16 | 55.4 | 9.8 | 60.0 | 62 | 05 | 11 | 06 | 03 | 06 | 47 | 13 | 28 | 15 | 11 | 16 | 55 | 18 | 39 | | |
| | 06 | 267 | 06.6 | 02.0 | 131 | 22.5 | 6.9 | N16 | 45.6 | 10.0 | 60.0 | 60 | 05 | 14 | 06 | 02 | 06 | 44 | 13 | 39 | 15 | 17 | 16 | 57 | 18 | 38 | | |
| | 07 | 282 | 06.8 | 01.1 | 145 | 48.4 | 6.9 | 16 | 35.6 | 10.0 | 60.0 | N 58 | 05 | 17 | 06 | 02 | 06 | 41 | 13 | 49 | 15 | 23 | 17 | 00 | 18 | 36 | | |
| | 08 | 297 | 06.9 | 00.1 | 160 | 14.3 | 7.0 | 16 | 25.6 | 10.1 | 60.1 | 56 | 05 | 19 | 06 | 02 | 06 | 39 | 13 | 58 | 15 | 29 | 17 | 02 | 18 | 35 | | |
| | 09 | 312 | 07.1 | 59.1 | 174 | 40.3 | 7.0 | 16 | 15.5 | 10.3 | 60.1 | 54 | 05 | 21 | 06 | 02 | 06 | 37 | 14 | 05 | 15 | 34 | 17 | 04 | 18 | 34 | | |
| | 10 | 327 | 07.2 | 58.2 | 189 | 06.3 | 7.0 | 16 | 05.2 | 10.4 | 60.1 | 52 | 05 | 22 | 06 | 01 | 06 | 35 | 14 | 12 | 15 | 38 | 17 | 06 | 18 | 34 | | |
| | 11 | 342 | 07.4 | 57.2 | 203 | 32.3 | 7.0 | 15 | 54.8 | 10.5 | 60.2 | 50 | 05 | 24 | 06 | 01 | 06 | 33 | 14 | 18 | 15 | 42 | 17 | 07 | 18 | 33 | | |
| | 12 | 357 | 07.5 | 56.2 | 217 | 58.3 | 7.0 | N15 | 44.3 | 10.6 | 60.2 | 45 | 05 | 26 | 06 | 00 | 06 | 29 | 14 | 31 | 15 | 50 | 17 | 10 | 18 | 31 | | |
| | 13 | 12 | 07.6 | 55.3 | 232 | 24.3 | 7.1 | 15 | 33.7 | 10.7 | 60.2 | N 40 | 05 | 28 | 05 | 59 | 06 | 26 | 14 | 42 | 15 | 57 | 17 | 13 | 18 | 30 | | |
| | 14 | 27 | 07.8 | 54.3 | 246 | 50.4 | 7.1 | 15 | 23.0 | 10.8 | 60.3 | 35 | 05 | 29 | 05 | 58 | 06 | 23 | 14 | 51 | 16 | 03 | 17 | 16 | 18 | 28 | | |
| | 15 | 42 | 07.9 | 53.3 | 261 | 16.5 | 7.1 | 15 | 12.2 | 11.0 | 60.3 | 30 | 05 | 29 | 05 | 57 | 06 | 21 | 15 | 00 | 16 | 08 | 17 | 18 | 18 | 27 | | |
| | 16 | 57 | 08.1 | 52.4 | 275 | 42.6 | 7.1 | 15 | 01.2 | 11.0 | 60.3 | 20 | 05 | 28 | 05 | 54 | 06 | 16 | 15 | 14 | 16 | 18 | 17 | 22 | 18 | 26 | | |
| | 17 | 72 | 08.2 | 51.4 | 290 | 08.7 | 7.2 | 14 | 50.2 | 11.2 | 60.4 | N 10 | 05 | 26 | 05 | 51 | 06 | 12 | 15 | 26 | 16 | 25 | 17 | 25 | 18 | 24 | | |
| | 18 | 87 | 08.4 | 50.4 | 304 | 34.9 | 7.1 | N14 | 39.0 | 11.2 | 60.4 | 0 | 05 | 23 | 05 | 47 | 06 | 08 | 15 | 37 | 16 | 33 | 17 | 28 | 18 | 23 | | |
| | 19 | 102 | 08.5 | 49.5 | 319 | 01.0 | 7.2 | 14 | 27.8 | 11.4 | 60.4 | S 10 | 05 | 18 | 05 | 43 | 06 | 04 | 15 | 48 | 16 | 40 | 17 | 31 | 18 | 21 | | |
| | 20 | 117 | 08.6 | 48.5 | 333 | 27.2 | 7.2 | 14 | 16.4 | 11.5 | 60.5 | 20 | 05 | 11 | 05 | 37 | 06 | 00 | 16 | 00 | 16 | 48 | 17 | 34 | 18 | 20 | | |
| | 21 | 132 | 08.8 | 47.5 | 347 | 53.4 | 7.2 | 14 | 04.9 | 11.6 | 60.5 | 30 | 05 | 02 | 05 | 30 | 05 | 54 | 16 | 14 | 16 | 57 | 17 | 38 | 18 | 18 | | |
| | 22 | 147 | 08.9 | 46.6 | 2 | 19.6 | 7.3 | 13 | 53.3 | 11.6 | 60.5 | 35 | 04 | 56 | 05 | 26 | 05 | 51 | 16 | 22 | 17 | 02 | 17 | 40 | 18 | 17 | | |
| 23 | 162 | 09.1 | 45.6 | 16 | 45.9 | 7.2 | 13 | 41.7 | 11.8 | 60.6 | 40 | 04 | 48 | 05 | 20 | 05 | 48 | 16 | 31 | 17 | 08 | 17 | 43 | 18 | 16 | | | |
| 6 | 00 | 177 | 09.2 | 44.6 | 31 | 12.1 | 7.3 | N13 | 29.9 | 11.9 | 60.6 | 45 | 04 | 38 | 05 | 14 | 05 | 44 | 16 | 41 | 17 | 15 | 17 | 46 | 18 | 15 | | |
| 01 | 192 | 09.4 | 43.7 | 45 | 38.4 | 7.4 | 13 | 18.0 | 12.0 | 60.6 | S 50 | 04 | 26 | 05 | 06 | 05 | 39 | 16 | 54 | 17 | 23 | 17 | 49 | 18 | 14 | | | |
| 02 | 207 | 09.5 | 42.7 | 60 | 04.8 | 7.3 | 13 | 06.0 | 12.0 | 60.7 | 52 | 04 | 20 | 05 | 02 | 05 | 37 | 17 | 00 | 17 | 27 | 17 | 50 | 18 | 13 | | | |
| 03 | 222 | 09.7 | 41.7 | 74 | 31.1 | 7.3 | 12 | 54.0 | 12.2 | 60.7 | 54 | 04 | 13 | 04 | 58 | 05 | 34 | 17 | 06 | 17 | 31 | 17 | 52 | 18 | 12 | | | |
| 04 | 237 | 09.8 | 40.7 | 88 | 57.4 | 7.4 | 12 | 41.8 | 12.2 | 60.7 | 56 | 04 | 06 | 04 | 53 | 05 | 32 | 17 | 13 | 17 | 35 | 17 | 54 | 18 | 12 | | | |
| 05 | 252 | 10.0 | 39.8 | 103 | 23.8 | 7.4 | 12 | 29.6 | 12.4 | 60.7 | 58 | 03 | 57 | 04 | 48 | 05 | 28 | 17 | 21 | 17 | 40 | 17 | 56 | 18 | 11 | | | |
| 06 | 267 | 10.1 | 38.8 | 117 | 50.2 | 7.4 | N12 | 17.2 | 12.4 | 60.8 | S 60 | 03 | 47 | 04 | 42 | 05 | 25 | 17 | 31 | 17 | 46 | 17 | 58 | 18 | 10 | | | |
| 07 | 282 | 10.2 | 37.8 | 132 | 16.6 | 7.5 | 12 | 04.8 | 12.5 | 60.8 | | | | | | | | | | | | | | | | | | |
| 08 | 297 | 10.4 | 36.9 | 146 | 43.1 | 7.4 | 11 | 52.3 | 12.7 | 60.8 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | | | | | | | | | | | |
| 09 | 312 | 10.5 | 35.9 | 161 | 09.5 | 7.5 | 11 | 39.6 | 12.7 | 60.8 | | | | | | | | | | | | | | | | | | |
| 10 | 327 | 10.7 | 34.9 | 175 | 36.0 | 7.5 | 11 | 26.9 | 12.7 | 60.9 | | | | | | | | | | | | | | | | | | |
| 11 | 342 | 10.8 | 34.0 | 190 | 02.5 | 7.6 | 11 | 14.2 | 12.9 | 60.9 | | | | | | | | | | | | | | | | | | |
| 12 | 357 | 11.0 | 33.0 | 204 | 29.1 | 7.5 | N11 | 01.3 | 12.9 | 60.9 | N 72 | 17 | 14 | 18 | 22 | 19 | 41 | 07 | 36 | 06 | 53 | 06 | 27 | 06 | 06 | | | |
| 13 | 12 | 11.1 | 32.0 | 218 | 55.6 | 7.6 | 10 | 48.4 | 13.1 | 60.9 | N 70 | 17 | 20 | 18 | 22 | 19 | 33 | 06 | 53 | 06 | 33 | 06 | 18 | 06 | 05 | | | |
| 14 | 27 | 11.3 | 31.0 | 233 | 22.2 | 7.6 | 10 | 35.3 | 13.1 | 61.0 | 68 | 17 | 26 | 18 | 21 | 19 | 26 | 06 | 24 | 06 | 17 | 06 | 10 | 06 | 04 | | | |
| 15 | 42 | 11.4 | 30.1 | 247 | 48.8 | 7.6 | 10 | 22.2 | 13.2 | 61.0 | 66 | 17 | 30 | 18 | 21 | 19 | 21 | 06 | 03 | 06 | 04 | 06 | 04 | 06 | 03 | | | |
| 16 | 57 | 11.6 | 29.1 | 262 | 15.4 | 7.6 | 10 | 09.0 | 13.2 | 61.0 | 64 | 17 | 34 | 18 | 21 | 19 | 17 | 05 | 45 | 05 | 53 | 05 | 58 | 06 | 02 | | | |
| 17 | 72 | 11.7 | 28.1 | 276 | 42.0 | 7.7 | 9 | 55.8 | 13.3 | 61.0 | 62 | 17 | 37 | 18 | 21 | 19 | 13 | 05 | 30 | 05 | 44 | 05 | 53 | 06 | 02 | | | |
| 18 | 87 | 11.9 | 27.2 | 291 | 08.7 | 7.6 | N 9 | 42.5 | 13.4 | 61.1 | 60 | 17 | 40 | 18 | 21 | 19 | 10 | 05 | 18 | 05 | 36 | 05 | 49 | 06 | 01 | | | |
| 19 | 102 | 12.0 | 26.2 | 305 | 35.3 | 7.7 | 9 | 29.1 | 13.5 | 61.1 | N 58 | 17 | 42 | 18 | 22 | 19 | 07 | 05 | 07 | 05 | 28 | 05 | 46 | 06 | 01 | | | |
| 20 | 117 | 12.2 | 25.2 | 320 | 02.0 | 7.7 | 9 | 15.6 | 13.6 | 61.1 | 56 | 17 | 45 | 18 | 22 | 19 | 05 | 04 | 58 | 05 | 22 | 05 | 42 | 06 | 00 | | | |
| 21 | 132 | 12.3 | 24.3 | 334 | 28.7 | 7.8 | 9 | 02.0 | 13.6 | 61.1 | 54 | 17 | 47 | 18 | 22 | 19 | 03 | 04 | 50 | 05 | 16 | 05 | 39 | 06 | 00 | | | |
| 22 | 147 | 12.5 | 23.3 | 348 | 55.5 | 7.7 | 8 | 48.4 | 13.6 | 61.1 | 52 | 17 | 49 | 18 | 22 | 19 | 01 | 04 | 42 | 05 | 11 | 05 | 36 | 05 | 59 | | | |
| 23 | 162 | 12.6 | 22.3 | 3 | 22.2 | 7.8 | 8 | 34.8 | 13.8 | 61.2 | 50 | 17 | 50 | 18 | 23 | 19 | 00 | 04 | 36 | 05 | 07 | 05 | 34 | 05 | 59 | | | |
| 7 | 00 | 177 | 12.8 | 21.3 | 17 | 49.0 | 7.8 | N 8 | 21.0 | 13.8 | 61.2 | 45 | 17 | 54 | 18 | 23 | 18 | 57 | 04 | 21 | 04 | 57 | 05 | 28 | 05 | 58 | | |
| 01 | 192 | 12.9 | 20.4 | 32 | 15.8 | 7.8 | 8 | 07.2 | 13.8 | 61.2 | N 40 | 17 | 57 | 18 | 24 | 18 | 56 | 04 | 09 | 04 | 48 | 05 | 24 | 05 | 58 | | | |
| 02 | 207 | 13.1 | 19.4 | 46 | 42.6 | 7.8 | 7 | 53.4 | 13.9 | 61.2 | 35 | 18 | 00 | 18 | 25 | 18 | 55 | 03 | 59 | 04 | 41 | 05 | 20 | 05 | 57 | | | |
| 03 | 222 | 13.2 | 18.4 | 61 | 09.4 | 7.8 | 7 | 39.5 | 14.0 | 61.2 | 30 | 18 | 02 | 18 | 26 | 18 | 54 | 03 | 50 | 04 | 34 | 05 | 16 | 05 | 56 | | | |
| 04 | 237 | 13.4 | 17.5 | 75 | 36.2 | 7.9 | 7 | 25.5 | 14.0 | 61.3 | 20 | 18 | 07 | 18 | 29 | 18 | 54 | 03 | 34 | 04 | 23 | 0 | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|----------------|--------|------|------|--------|------|------|------|------|------|------------|-------|----------|-----------|------------------|------------|-------|-------|-------|---------|-------|
| | A.H.G. | | Dec. | A.H.G. | | v | Dec. | d | | P.H. | Náut. | | Civil | 8 | 9 | 10 | 11 | | | |
| | o | ' | | o | ' | | | | | | | | | | | | | o | ' | o |
| LUNES | 00 | 177 | 16.4 | S 4 | 58.0 | 4 | 35.9 | 8.1 | N 2 | 36.8 | 14.8 | 61.5 | N 72 | 04 28 | 35 48 | 06 55 | 18 50 | 21 11 | 23 42 | 25 44 |
| | 01 | 192 | 16.6 | | 57.0 | 19 | 03.0 | 8.1 | 2 | 22.0 | 14.7 | 61.5 | N 70 | 04 38 | 35 50 | 06 50 | 18 47 | 20 57 | 23 12 | 25 44 |
| | 02 | 207 | 16.7 | | 56.0 | 33 | 30.1 | 8.1 | 2 | 07.3 | 14.8 | 61.5 | 68 | 04 46 | 35 51 | 06 46 | 18 45 | 20 46 | 22 49 | 24 57 |
| | 03 | 222 | 16.9 | | 55.1 | 47 | 57.2 | 8.1 | 1 | 52.5 | 14.8 | 61.5 | 66 | 04 52 | 35 52 | 06 43 | 18 42 | 20 37 | 22 32 | 24 27 |
| | 04 | 237 | 17.0 | | 54.1 | 62 | 24.3 | 8.1 | 1 | 37.7 | 14.8 | 61.5 | 64 | 04 57 | 35 53 | 06 40 | 18 41 | 20 29 | 22 18 | 24 05 |
| | 05 | 252 | 17.2 | | 53.1 | 76 | 51.4 | 8.1 | 1 | 22.9 | 14.8 | 61.5 | 62 | 05 02 | 35 53 | 06 37 | 18 39 | 20 23 | 22 06 | 23 47 |
| | 06 | 267 | 17.3 | S 4 | 52.1 | 91 | 18.5 | 8.2 | N 1 | 08.1 | 14.9 | 61.5 | 60 | 05 05 | 35 54 | 06 35 | 18 38 | 20 18 | 21 56 | 23 32 |
| | 07 | 282 | 17.5 | | 51.2 | 105 | 45.7 | 8.1 | 0 | 53.2 | 14.8 | 61.5 | N 58 | 05 08 | 35 54 | 06 33 | 18 36 | 20 13 | 21 48 | 23 19 |
| | 08 | 297 | 17.6 | | 50.2 | 120 | 12.8 | 8.1 | 0 | 38.4 | 14.8 | 61.5 | 56 | 05 11 | 35 54 | 06 31 | 18 35 | 20 08 | 21 40 | 23 09 |
| | 09 | 312 | 17.8 | | 49.2 | 134 | 39.9 | 8.1 | 0 | 23.6 | 14.9 | 61.5 | 54 | 05 13 | 35 54 | 06 30 | 18 34 | 20 05 | 21 34 | 22 59 |
| | 10 | 327 | 17.9 | | 48.2 | 149 | 07.0 | 8.2 | N 0 | 08.7 | 14.8 | 61.5 | 52 | 05 15 | 35 55 | 06 28 | 18 34 | 20 01 | 21 28 | 22 51 |
| | 11 | 342 | 18.1 | | 47.3 | 163 | 34.2 | 8.1 | S 0 | 06.1 | 14.9 | 61.5 | 50 | 05 17 | 35 55 | 06 27 | 18 33 | 19 58 | 21 22 | 22 43 |
| | 12 | 357 | 18.3 | S 4 | 46.3 | 178 | 01.3 | 8.1 | S 0 | 21.0 | 14.8 | 61.5 | 45 | 05 21 | 35 55 | 06 24 | 18 31 | 19 51 | 21 10 | 22 27 |
| | 13 | 12 | 18.4 | | 45.3 | 192 | 28.4 | 8.2 | 0 | 35.8 | 14.8 | 61.5 | N 40 | 05 23 | 35 54 | 06 21 | 18 30 | 19 46 | 21 01 | 22 14 |
| | 14 | 27 | 18.6 | | 44.3 | 206 | 55.6 | 8.1 | 0 | 50.6 | 14.8 | 61.5 | 35 | 05 25 | 35 54 | 06 19 | 18 28 | 19 41 | 20 53 | 22 03 |
| | 15 | 42 | 18.7 | | 43.4 | 221 | 22.7 | 8.2 | 1 | 05.4 | 14.9 | 61.5 | 30 | 05 26 | 35 53 | 06 17 | 18 27 | 19 37 | 20 46 | 21 53 |
| | 16 | 57 | 18.9 | | 42.4 | 235 | 49.9 | 8.1 | 1 | 20.3 | 14.8 | 61.5 | 20 | 05 26 | 35 52 | 06 14 | 18 26 | 19 29 | 20 33 | 21 37 |
| | 17 | 72 | 19.0 | | 41.4 | 250 | 17.0 | 8.1 | 1 | 35.1 | 14.7 | 61.5 | N 10 | 05 25 | 35 49 | 06 10 | 18 24 | 19 23 | 20 23 | 21 22 |
| | 18 | 87 | 19.2 | S 4 | 40.4 | 264 | 44.1 | 8.1 | S 1 | 49.8 | 14.8 | 61.5 | 0 | 05 22 | 35 47 | 06 07 | 18 23 | 19 17 | 20 13 | 21 09 |
| | 19 | 102 | 19.3 | | 39.5 | 279 | 11.2 | 8.2 | 2 | 04.6 | 14.8 | 61.5 | S 10 | 05 18 | 35 43 | 06 04 | 18 21 | 19 12 | 20 03 | 20 55 |
| | 20 | 117 | 19.5 | | 38.5 | 293 | 38.4 | 8.1 | 2 | 19.4 | 14.7 | 61.5 | 20 | 05 13 | 35 38 | 06 01 | 18 20 | 19 05 | 19 52 | 20 41 |
| | 21 | 132 | 19.7 | | 37.5 | 308 | 05.5 | 8.1 | 2 | 34.1 | 14.7 | 61.5 | 30 | 05 04 | 35 32 | 05 56 | 18 18 | 18 59 | 19 41 | 20 25 |
| | 22 | 147 | 19.8 | | 36.5 | 322 | 32.6 | 8.1 | 2 | 48.8 | 14.7 | 61.4 | 35 | 04 58 | 35 28 | 05 54 | 18 17 | 18 55 | 19 34 | 20 16 |
| 23 | 162 | 20.0 | | 35.6 | 336 | 59.7 | 8.1 | 3 | 03.5 | 14.7 | 61.4 | 40 | 04 52 | 35 24 | 05 51 | 18 16 | 18 50 | 19 26 | 20 05 | |
| 9 | 00 | 177 | 20.1 | S 4 | 34.6 | 351 | 26.8 | 8.1 | S 3 | 18.2 | 14.6 | 61.4 | 45 | 04 43 | 35 18 | 05 48 | 18 15 | 18 45 | 19 17 | 19 53 |
| 01 | 192 | 20.3 | | 33.6 | 5 | 53.9 | 8.1 | 3 | 32.8 | 14.7 | 61.4 | S 50 | 04 32 | 35 11 | 05 44 | 18 14 | 18 39 | 19 07 | 19 38 | |
| 02 | 207 | 20.4 | | 32.6 | 20 | 21.0 | 8.1 | 3 | 47.5 | 14.5 | 61.4 | 52 | 04 26 | 35 08 | 05 42 | 18 13 | 18 36 | 19 02 | 19 31 | |
| 03 | 222 | 20.6 | | 31.7 | 34 | 48.1 | 8.1 | 4 | 02.0 | 14.6 | 61.4 | 54 | 04 20 | 35 04 | 05 40 | 18 12 | 18 33 | 18 56 | 19 24 | |
| 04 | 237 | 20.8 | | 30.7 | 49 | 15.2 | 8.0 | 4 | 16.6 | 14.5 | 61.4 | 56 | 04 13 | 35 00 | 05 38 | 18 12 | 18 30 | 18 50 | 19 15 | |
| 05 | 252 | 20.9 | | 29.7 | 63 | 42.2 | 8.1 | 4 | 31.1 | 14.5 | 61.4 | 58 | 04 05 | 34 55 | 05 35 | 18 11 | 18 26 | 18 44 | 19 05 | |
| 06 | 267 | 21.1 | S 4 | 28.7 | 78 | 09.3 | 8.0 | S 4 | 45.6 | 14.5 | 61.4 | S 60 | 03 56 | 34 50 | 05 33 | 18 10 | 18 22 | 18 36 | 18 54 | |
| 07 | 282 | 21.2 | | 27.7 | 92 | 36.3 | 8.1 | 5 | 00.1 | 14.4 | 61.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | | | | | |
| 08 | 297 | 21.4 | | 26.8 | 107 | 03.4 | 8.0 | 5 | 14.5 | 14.3 | 61.3 | 8 | 9 | 10 | 11 | | | | | |
| 09 | 312 | 21.6 | | 25.8 | 121 | 30.4 | 8.0 | 5 | 28.8 | 14.4 | 61.3 | h m | h m | h m | h m | h m | h m | h m | h m | |
| 10 | 327 | 21.7 | | 24.8 | 135 | 57.4 | 8.0 | 5 | 43.2 | 14.2 | 61.3 | N 72 | 17 28 | 18 36 | 19 56 | 06 06 | 05 46 | 05 22 | 04 48 | |
| 11 | 342 | 21.9 | | 23.8 | 150 | 24.4 | 8.0 | 5 | 57.4 | 14.3 | 61.3 | N 70 | 17 33 | 18 34 | 19 46 | 06 05 | 05 52 | 05 38 | 05 20 | |
| 12 | 357 | 22.0 | S 4 | 22.9 | 164 | 51.4 | 8.0 | S 6 | 11.7 | 14.2 | 61.3 | 68 | 17 37 | 18 32 | 19 38 | 06 04 | 05 58 | 05 51 | 05 44 | |
| 13 | 12 | 22.2 | | 21.9 | 179 | 18.4 | 8.0 | 6 | 25.9 | 14.1 | 61.3 | 66 | 17 40 | 18 31 | 19 31 | 06 03 | 06 02 | 06 02 | 06 03 | |
| 14 | 27 | 22.4 | | 20.9 | 193 | 45.4 | 8.0 | 6 | 40.0 | 14.1 | 61.2 | 64 | 17 43 | 18 30 | 19 26 | 06 02 | 06 06 | 06 11 | 06 18 | |
| 15 | 42 | 22.5 | | 19.9 | 208 | 12.4 | 7.9 | 6 | 54.1 | 14.0 | 61.2 | 62 | 17 45 | 18 29 | 19 21 | 06 02 | 06 10 | 06 19 | 06 30 | |
| 16 | 57 | 22.7 | | 18.9 | 222 | 39.3 | 7.9 | 7 | 08.1 | 14.0 | 61.2 | 60 | 17 47 | 18 29 | 19 17 | 06 01 | 06 13 | 06 26 | 06 41 | |
| 17 | 72 | 22.8 | | 18.0 | 237 | 06.2 | 8.0 | 7 | 22.1 | 13.9 | 61.2 | N 58 | 17 49 | 18 28 | 19 14 | 06 01 | 06 16 | 06 32 | 06 51 | |
| 18 | 87 | 23.0 | S 4 | 17.0 | 251 | 33.2 | 7.9 | S 7 | 36.0 | 13.9 | 61.2 | 56 | 17 51 | 18 28 | 19 11 | 06 00 | 06 18 | 06 37 | 06 59 | |
| 19 | 102 | 23.2 | | 16.0 | 266 | 00.1 | 7.9 | 7 | 49.9 | 13.8 | 61.2 | 54 | 17 53 | 18 28 | 19 09 | 06 00 | 06 20 | 06 42 | 07 07 | |
| 20 | 117 | 23.3 | | 15.0 | 280 | 27.0 | 7.8 | 8 | 03.7 | 13.8 | 61.1 | 52 | 17 54 | 18 28 | 19 07 | 05 59 | 06 22 | 06 46 | 07 13 | |
| 21 | 132 | 23.5 | | 14.0 | 294 | 53.8 | 7.9 | 8 | 17.5 | 13.6 | 61.1 | 50 | 17 55 | 18 27 | 19 05 | 05 59 | 06 24 | 06 50 | 07 19 | |
| 22 | 147 | 23.6 | | 13.1 | 309 | 20.7 | 7.8 | 8 | 31.1 | 13.7 | 61.1 | 45 | 17 58 | 18 27 | 19 01 | 05 58 | 06 28 | 06 59 | 07 33 | |
| 23 | 162 | 23.8 | | 12.1 | 323 | 47.5 | 7.9 | 8 | 44.8 | 13.5 | 61.1 | N 40 | 18 00 | 18 27 | 18 59 | 05 58 | 06 31 | 07 06 | 07 43 | |
| 10 | 00 | 177 | 24.0 | S 4 | 11.1 | 338 | 14.4 | 7.8 | S 8 | 58.3 | 13.5 | 61.0 | 35 | 18 03 | 18 28 | 18 57 | 05 57 | 06 34 | 07 12 | 07 53 |
| 01 | 192 | 24.1 | | 10.1 | 352 | 41.2 | 7.8 | 9 | 11.8 | 13.4 | 61.0 | 30 | 18 04 | 18 28 | 18 56 | 05 56 | 06 37 | 07 18 | 08 01 | |
| 02 | 207 | 24.3 | | 09.2 | 7 | 08.0 | 7.7 | 9 | 25.2 | 13.4 | 61.0 | 20 | 18 03 | 18 30 | 18 55 | 05 56 | 06 41 | 07 27 | 08 15 | |
| 03 | 222 | 24.4 | | 08.2 | 21 | 34.7 | 7.8 | 9 | 38.6 | 13.2 | 61.0 | N 10 | 18 11 | 18 32 | 18 56 | 05 55 | 06 45 | 07 36 | 08 28 | |
| 04 | 237 | 24.6 | | 07.2 | 36 | 01.5 | 7.7 | 9 | 51.8 | 13.2 | 61.0 | 0 | 18 14 | 18 35 | 18 59 | 05 54 | 06 48 | 07 43 | 08 39 | |
| 05 | 252 | 24.8 | | 06.2 | 50 | 28.2 | 7.8 | 10 | 05.0 | 13.1 | 60.9 | S 10 | 18 17 | 18 38 | 19 02 | 05 53 | 06 52 | 07 51 | 08 51 | |
| 06 | 267 | 24.9 | S 4 | 05.2 | 64 | 55.0 | 7.7 | S 10 | 18.1 | 13.1 | 60.9 | 20 | 18 20 | 18 42 | 19 08 | 05 52 | 06 56 | 08 00 | 09 04 | |
| 07 | 282 | 25.1 | | 04.3 | 79 | 21.7 | 7.7 | 10 | 31.2 | 12.9 | 60.9 | 30 | 18 24 | 18 48 | 19 16 | 05 51 | 07 00 | 08 10 | 09 18 | |
| 08 | 297 | 25.3 | | 03.3 | 93 | 48.4 | 7.6 | 10 | 44.1 | 12.9 | 60.9 | 35 | 18 27 | 18 52 | 19 22 | 05 50 | 07 03 | 08 15 | 09 26 | |
| 09 | 312 | 25.4 | | 02.3 | 108 | 15.0 | 7.7 | 10 | 57.0 | 12.8 | 60.8 | 40 | 18 29 | 18 56 | 19 29 | 05 49 | 07 06 | 08 22 | 09 36 | |
| 10 | 327 | 25.6 | | 01.3 | 122 | 41.7 | 7.6 | 11 | 09.8 | 12.7 | 60.8 | 45 | 18 32 | 19 02 | 19 37 | 05 49 | 07 09 | 08 29 | 09 47 | |
| 11 | 342 | 25.7 | 4 | 00.3 | 137 | 08.3 | 7.6 | 11 | 22.5 | 12.7 | 60.8 | S 50 | 18 36 | 19 09 | 19 48 | 05 48 | 07 13 | 08 38 | 10 01</ | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | |
|----------------|----------|----------|----------|----------|---------|----------|------|------------|-------|-----------|------------------|-------|------------|-------|-------|-------|-------|----|---|---|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 14 | | 15 | | 16 | | 17 | | | |
| | | | | | | | | | h | | | m | h | m | h | m | h | m | h | m | h |
| DOMINGO | 14 00 | 177 40.0 | S 2 36.8 | 284 11.5 | 7.5 | S22 25.9 | 2.1 | 57.6 | N 72 | 03 53 | 05 17 | 06 24 | ■ | ■ | ■ | ■ | | | | | |
| | 01 | 192 40.2 | 35.8 | 298 38.0 | 7.4 | 22 28.0 | 2.0 | 57.6 | N 70 | 04 08 | 05 22 | 06 22 | ■ | ■ | ■ | 06 04 | 06 37 | | | | |
| | 02 | 207 40.4 | 34.8 | 313 04.4 | 7.6 | 22 30.0 | 1.9 | 57.5 | 68 | 04 19 | 05 26 | 06 21 | ■ | ■ | ■ | | | | | | |
| | 03 | 222 40.6 | 33.8 | 327 31.0 | 7.5 | 22 31.9 | 1.7 | 57.5 | 66 | 04 28 | 05 29 | 06 20 | 03 51 | 04 46 | 05 06 | 05 13 | | | | | |
| | 04 | 237 40.7 | 32.8 | 341 57.5 | 7.6 | 22 33.6 | 1.6 | 57.4 | 64 | 04 35 | 05 32 | 06 19 | 03 06 | 04 01 | 04 32 | 04 49 | | | | | |
| | 05 | 252 40.9 | 31.8 | 356 24.1 | 7.6 | 22 35.2 | 1.4 | 57.4 | 62 | 04 41 | 05 34 | 06 18 | 02 36 | 03 32 | 04 08 | 04 30 | | | | | |
| | 06 | 267 41.1 | S 2 30.8 | 10 50.7 | 7.7 | S22 36.6 | 1.3 | 57.4 | 60 | 04 47 | 05 36 | 06 17 | 02 13 | 03 09 | 03 48 | 04 14 | | | | | |
| | 07 | 282 41.3 | 29.9 | 25 17.4 | 7.7 | 22 37.9 | 1.2 | 57.3 | N 58 | 04 51 | 05 37 | 06 16 | 01 55 | 02 51 | 03 32 | 04 01 | | | | | |
| | 08 | 297 41.4 | 28.9 | 39 44.1 | 7.7 | 22 39.1 | 1.1 | 57.3 | 56 | 04 55 | 05 39 | 06 16 | 01 40 | 02 36 | 03 18 | 03 49 | | | | | |
| | 09 | 312 41.6 | 27.9 | 54 10.8 | 7.8 | 22 40.2 | 0.9 | 57.3 | 54 | 04 59 | 05 40 | 06 15 | 01 27 | 02 22 | 03 06 | 03 39 | | | | | |
| | 10 | 327 41.8 | 26.9 | 68 37.6 | 7.8 | 22 41.1 | 0.8 | 57.2 | 52 | 05 02 | 05 41 | 06 14 | 01 15 | 02 11 | 02 55 | 03 30 | | | | | |
| | 11 | 342 41.9 | 25.9 | 83 04.4 | 7.9 | 22 41.9 | 0.6 | 57.2 | 50 | 05 04 | 05 42 | 06 14 | 01 05 | 02 01 | 02 46 | 03 22 | | | | | |
| | 12 | 357 42.1 | S 2 24.9 | 97 31.3 | 7.9 | S22 42.5 | 0.6 | 57.1 | 45 | 05 09 | 05 44 | 06 13 | 00 43 | 01 39 | 02 26 | 03 05 | | | | | |
| | 13 | 12 42.3 | 23.9 | 111 58.2 | 7.9 | 22 43.1 | 0.4 | 57.1 | N 40 | 05 13 | 05 45 | 06 12 | 00 26 | 01 22 | 02 10 | 02 51 | | | | | |
| | 14 | 27 42.5 | 23.0 | 126 25.1 | 8.0 | 22 43.5 | 0.2 | 57.1 | 35 | 05 16 | 05 46 | 06 11 | 00 12 | 01 07 | 01 56 | 02 39 | | | | | |
| | 15 | 42 42.6 | 22.0 | 140 52.1 | 8.1 | 22 43.7 | 0.1 | 57.0 | 30 | 05 18 | 05 46 | 06 10 | 24 55 | 00 55 | 01 44 | 02 28 | | | | | |
| | 16 | 57 42.8 | 21.0 | 155 19.2 | 8.0 | 22 43.8 | 0.0 | 57.0 | 20 | 05 21 | 05 47 | 06 09 | 24 33 | 00 33 | 01 24 | 02 10 | | | | | |
| | 17 | 72 43.0 | 20.0 | 169 46.2 | 8.2 | 22 43.8 | 0.1 | 57.0 | N 10 | 05 22 | 05 46 | 06 07 | 24 14 | 00 14 | 01 06 | 01 54 | | | | | |
| | 18 | 87 43.2 | S 2 19.0 | 184 13.4 | 8.2 | S22 43.7 | 0.3 | 56.9 | 0 | 05 21 | 05 45 | 06 06 | 23 57 | 24 49 | 00 49 | 01 39 | | | | | |
| | 19 | 102 43.3 | 18.0 | 198 40.6 | 8.2 | 22 43.4 | 0.3 | 56.9 | S 10 | 05 19 | 05 43 | 06 04 | 23 39 | 24 33 | 00 33 | 01 25 | | | | | |
| | 20 | 117 43.5 | 17.0 | 213 07.8 | 8.3 | 22 43.1 | 0.6 | 56.8 | 20 | 05 15 | 05 40 | 06 02 | 23 20 | 24 15 | 00 15 | 01 09 | | | | | |
| | 21 | 132 43.7 | 16.1 | 227 35.1 | 8.3 | 22 42.5 | 0.6 | 56.8 | 30 | 05 08 | 05 36 | 06 00 | 22 59 | 23 54 | 24 50 | 00 50 | | | | | |
| | 22 | 147 43.9 | 15.1 | 242 02.4 | 8.4 | 22 41.9 | 0.8 | 56.8 | 35 | 05 04 | 05 34 | 05 59 | 22 46 | 23 42 | 24 40 | 00 40 | | | | | |
| 23 | 162 44.0 | 14.1 | 256 29.3 | 8.4 | 22 41.1 | 0.9 | 56.7 | 40 | 04 58 | 05 30 | 05 58 | 22 32 | 23 29 | 24 27 | 00 27 | | | | | | |
| LUNES | 15 00 | 177 44.2 | S 2 13.1 | 270 57.2 | 8.5 | S22 40.2 | 1.0 | 56.7 | 45 | 04 52 | 05 26 | 05 56 | 22 14 | 23 12 | 24 13 | 00 13 | | | | | |
| | 01 | 192 44.4 | 12.1 | 285 24.7 | 8.5 | 22 39.2 | 1.1 | 56.7 | S 50 | 04 43 | 05 21 | 05 54 | 21 53 | 22 52 | 23 55 | 25 00 | | | | | |
| | 02 | 207 44.6 | 11.1 | 299 52.2 | 8.6 | 22 38.1 | 1.3 | 56.6 | 52 | 04 38 | 05 19 | 05 53 | 21 43 | 22 42 | 23 47 | 24 53 | | | | | |
| | 03 | 222 44.7 | 10.1 | 314 19.8 | 8.6 | 22 36.8 | 1.4 | 56.6 | 54 | 04 33 | 05 16 | 05 52 | 21 31 | 22 31 | 23 37 | 24 46 | | | | | |
| | 04 | 237 44.9 | 09.1 | 328 47.4 | 8.7 | 22 35.4 | 1.5 | 56.6 | 56 | 04 28 | 05 13 | 05 50 | 21 18 | 22 19 | 23 27 | 24 37 | | | | | |
| | 05 | 252 45.1 | 08.2 | 343 15.1 | 8.8 | 22 33.9 | 1.7 | 56.5 | 58 | 04 21 | 05 09 | 05 49 | 21 03 | 22 05 | 23 15 | 24 28 | | | | | |
| | 06 | 267 45.3 | S 2 07.2 | 357 42.9 | 8.8 | S22 32.2 | 1.7 | 56.5 | S 60 | 04 14 | 05 05 | 05 48 | 20 45 | 21 48 | 23 00 | 24 17 | | | | | |
| | 07 | 282 45.5 | 06.2 | 12 10.7 | 8.9 | 22 30.5 | 1.9 | 56.5 | | | | | | | | | | | | | |
| | 08 | 297 45.6 | 05.2 | 26 38.6 | 8.9 | 22 28.6 | 2.0 | 56.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | | | | | |
| | 09 | 312 45.8 | 04.2 | 41 06.5 | 9.0 | 22 26.6 | 2.2 | 56.4 | | | | | 14 | 15 | 16 | 17 | | | | | |
| | 10 | 327 46.0 | 03.2 | 55 34.5 | 9.0 | 22 24.4 | 2.2 | 56.4 | | | | | | | | | | | | | |
| | 11 | 342 46.2 | 02.2 | 70 02.5 | 9.1 | 22 22.2 | 2.4 | 56.3 | N 72 | 17 56 | 19 03 | 20 28 | ■ | ■ | ■ | ■ | | | | | |
| | 12 | 357 46.3 | S 2 01.2 | 84 30.6 | 9.2 | S22 19.8 | 2.4 | 56.3 | N 70 | 17 57 | 18 58 | 20 14 | ■ | ■ | ■ | 09 17 | | | | | |
| | 13 | 12 46.5 | 2 00.3 | 98 58.8 | 9.2 | 22 17.4 | 2.6 | 56.3 | 68 | 17 59 | 18 54 | 20 02 | ■ | ■ | 08 07 | 10 08 | | | | | |
| | 14 | 27 46.7 | 1 59.3 | 113 27.0 | 9.3 | 22 14.8 | 2.8 | 56.2 | 66 | 18 00 | 18 51 | 19 53 | 06 36 | 07 35 | 09 04 | 10 39 | | | | | |
| | 15 | 42 46.9 | 58.3 | 127 55.3 | 9.3 | 22 12.0 | 2.8 | 56.2 | 64 | 18 01 | 18 48 | 19 45 | 07 22 | 08 20 | 09 37 | 11 03 | | | | | |
| | 16 | 57 47.0 | 57.3 | 142 23.6 | 9.4 | 22 09.2 | 2.9 | 56.2 | 62 | 18 01 | 18 46 | 19 38 | 07 52 | 08 50 | 10 02 | 11 21 | | | | | |
| | 17 | 72 47.2 | 56.3 | 156 52.0 | 9.5 | 22 06.3 | 3.1 | 56.1 | 60 | 18 02 | 18 44 | 19 33 | 08 15 | 09 12 | 10 21 | 11 36 | | | | | |
| | 18 | 87 47.4 | S 1 55.3 | 171 20.5 | 9.5 | S22 03.2 | 3.2 | 56.1 | N 58 | 18 03 | 18 42 | 19 28 | 08 33 | 09 30 | 10 37 | 11 49 | | | | | |
| | 19 | 102 47.6 | 54.3 | 185 49.0 | 9.6 | 22 00.0 | 3.2 | 56.1 | 56 | 18 03 | 18 40 | 19 24 | 08 49 | 09 45 | 10 50 | 12 00 | | | | | |
| | 20 | 117 47.7 | 53.3 | 200 17.6 | 9.7 | 21 56.8 | 3.4 | 56.0 | 54 | 18 04 | 18 39 | 19 21 | 09 02 | 09 58 | 11 02 | 12 10 | | | | | |
| | 21 | 132 47.9 | 52.4 | 214 46.3 | 9.7 | 21 53.4 | 3.5 | 56.0 | 52 | 18 04 | 18 38 | 19 18 | 09 13 | 10 10 | 11 12 | 12 18 | | | | | |
| | 22 | 147 48.1 | 51.4 | 229 15.0 | 9.8 | 21 49.9 | 3.7 | 56.0 | 50 | 18 05 | 18 37 | 19 15 | 09 24 | 10 20 | 11 21 | 12 26 | | | | | |
| 23 | 162 48.3 | 50.4 | 243 43.8 | 9.8 | 21 46.2 | 3.7 | 55.9 | 45 | 18 06 | 18 35 | 19 09 | 09 45 | 10 41 | 11 41 | 12 42 | | | | | | |
| MARTES | 16 00 | 177 48.5 | S 1 49.4 | 258 12.6 | 9.9 | S21 42.5 | 3.8 | 55.9 | N 40 | 18 07 | 18 34 | 19 05 | 10 03 | 10 58 | 11 57 | 12 56 | | | | | |
| | 01 | 192 48.6 | 48.4 | 272 41.5 | 10.0 | 21 38.7 | 4.0 | 55.9 | 35 | 18 08 | 18 33 | 19 02 | 10 17 | 11 13 | 12 10 | 13 07 | | | | | |
| | 02 | 207 48.8 | 47.4 | 287 10.5 | 10.1 | 21 34.7 | 4.0 | 55.8 | 30 | 18 08 | 18 32 | 19 00 | 10 30 | 11 25 | 12 21 | 13 17 | | | | | |
| | 03 | 222 49.0 | 46.4 | 301 39.6 | 10.1 | 21 30.7 | 4.2 | 55.8 | 20 | 18 10 | 18 32 | 18 57 | 10 52 | 11 47 | 12 41 | 13 34 | | | | | |
| | 04 | 237 49.2 | 45.4 | 316 08.7 | 10.2 | 21 26.5 | 4.2 | 55.8 | N 10 | 18 11 | 18 32 | 18 56 | 11 11 | 12 05 | 12 58 | 13 49 | | | | | |
| | 05 | 252 49.3 | 44.5 | 330 37.9 | 10.2 | 21 22.3 | 4.4 | 55.8 | 0 | 18 12 | 18 33 | 18 57 | 11 28 | 12 22 | 13 14 | 14 02 | | | | | |
| | 06 | 267 49.5 | S 1 43.5 | 345 07.1 | 10.3 | S21 17.9 | 4.5 | 55.7 | S 10 | 18 14 | 18 35 | 18 59 | 11 46 | 12 39 | 13 30 | 14 16 | | | | | |
| | 07 | 282 49.7 | 42.5 | 359 36.4 | 10.4 | 21 13.4 | 4.5 | 55.7 | 20 | 18 15 | 18 37 | 19 03 | 12 05 | 12 58 | 13 46 | 14 31 | | | | | |
| | 08 | 297 49.9 | 41.5 | 14 05.8 | 10.4 | 21 08.9 | 4.7 | 55.7 | 30 | 18 17 | 18 41 | 19 09 | 12 26 | 13 19 | 14 06 | 14 47 | | | | | |
| | 09 | 312 50.1 | 40.5 | 28 35.2 | 10.5 | 21 04.2 | 4.8 | 55.6 | 35 | 18 18 | 18 44 | 19 13 | 12 39 | 13 31 | 14 17 | 14 57 | | | | | |
| | 10 | 327 50.2 | 39.5 | 43 04.7 | 10.6 | 20 59.4 | 4.9 | 55.6 | 40 | 18 20 | 18 47 | 19 19 | 12 53 | 13 45 | 14 30 | 15 08 | | | | | |
| | 11 | 342 50.4 | 38.5 | 57 34.3 | 10.7 | 20 54.5 | 4.9 | 55.6 | 45 | 18 21 | 18 51 | 19 25 | 13 11 | 14 02 | 14 45 | 15 20 | | | | | |
| | 12 | 357 50.6 | S 1 37.5 | 72 04.0 | 10.7 | S20 49.6 | 5.1 | 55.6 | S 50 | 18 23 | 18 56 | 19 34 | 13 32 | 14 | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE +0.3 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|-----------------------------------|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|-------------|--------------|----------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | |
| MIE R C O L E S | 17 00 | 174 34.9 | 159 44.2 | N14 45.5 | 69 44.3 | N25 37.6 | 343 23.1 | S 3 05.4 | 206 52.2 | S14 12.0 | 221 54.4 | 11.9 | Acamar | 315 30.0 | S40 20.1 | | | |
| | 01 | 189 37.3 | 174 47.3 | 45.5 | 84 45.9 | 37.4 | 358 25.8 | 05.3 | 221 54.4 | 11.9 | 221 54.4 | 11.9 | Achernar | 335 38.4 | S57 16.4 | | | |
| | 02 | 204 39.8 | 189 50.4 | 45.5 | 99 47.6 | 37.3 | 13 28.6 | 05.1 | 236 56.6 | 11.8 | 236 56.6 | 11.8 | Acrux | 173 25.6 | S63 03.8 | | | |
| | 03 | 219 42.3 | 204 53.5 | 45.5 | 114 49.3 | 37.2 | 28 31.3 | 05.0 | 251 58.8 | 11.7 | 251 58.8 | 11.7 | Adhara | 255 24.3 | S28 58.1 | | | |
| | 04 | 234 44.7 | 219 56.7 | 45.5 | 129 51.0 | 37.0 | 43 34.1 | 04.9 | 267 01.0 | 11.7 | 267 01.0 | 11.7 | Aldebaran | 291 06.8 | N16 29.7 | | | |
| | 05 | 249 47.2 | 234 59.8 | 45.5 | 144 52.6 | 36.9 | 58 36.8 | 04.8 | 282 03.2 | 11.6 | 282 03.2 | 11.6 | | | | | | |
| | 06 | 264 49.7 | 250 02.9 | N14 45.5 | 159 54.3 | N25 36.8 | 73 39.5 | S 3 04.7 | 297 05.4 | S14 11.5 | 297 05.4 | S14 11.5 | Alioth | 166 33.3 | N55 59.5 | | | |
| | 07 | 279 52.1 | 265 06.0 | 45.5 | 174 56.0 | 36.6 | 88 42.3 | 04.5 | 312 07.6 | 11.4 | 312 07.6 | 11.4 | Alkaid | 153 10.3 | N49 20.5 | | | |
| | 08 | 294 54.6 | 280 09.2 | 45.5 | 189 57.7 | 36.5 | 103 45.0 | 04.4 | 327 09.8 | 11.3 | 327 09.8 | 11.3 | Al Na'ir | 28 03.0 | S46 59.5 | | | |
| | 09 | 309 57.0 | 295 12.3 | 45.5 | 204 59.3 | 36.4 | 118 47.8 | 04.3 | 342 12.0 | 11.2 | 342 12.0 | 11.2 | Alnilam | 276 01.7 | S 1 12.5 | | | |
| | 10 | 324 59.5 | 310 15.5 | 45.4 | 220 01.0 | 36.2 | 133 50.5 | 04.2 | 357 14.2 | 11.1 | 357 14.2 | 11.1 | Alphard | 218 10.7 | S 8 38.0 | | | |
| | 11 | 340 02.0 | 325 18.6 | 45.4 | 235 02.7 | 36.1 | 148 53.2 | 04.0 | 12 16.4 | 11.0 | 12 16.4 | 11.0 | | | | | | |
| | 12 | 355 04.4 | 340 21.8 | N14 45.4 | 250 04.4 | N25 36.0 | 163 56.0 | S 3 03.9 | 27 18.6 | S14 11.0 | 27 18.6 | S14 11.0 | Alphecca | 126 23.6 | N26 44.0 | | | |
| | 13 | 10 06.9 | 355 24.9 | 45.4 | 265 06.0 | 35.8 | 178 58.7 | 03.8 | 42 20.8 | 10.9 | 42 20.8 | 10.9 | Alpheratz | 357 59.5 | N29 03.2 | | | |
| | 14 | 25 09.4 | 10 28.1 | 45.4 | 280 07.7 | 35.7 | 194 01.5 | 03.7 | 57 23.0 | 10.8 | 57 23.0 | 10.8 | Altair | 62 23.1 | N 8 50.9 | | | |
| | 15 | 40 11.8 | 25 31.3 | 45.3 | 295 09.4 | 35.6 | 209 04.2 | 03.6 | 72 25.2 | 10.7 | 72 25.2 | 10.7 | Ankaa | 353 30.9 | S42 20.6 | | | |
| | 16 | 55 14.3 | 40 34.4 | 45.3 | 310 11.0 | 35.4 | 224 07.0 | 03.4 | 87 27.4 | 10.6 | 87 27.4 | 10.6 | Antares | 112 44.7 | S26 25.1 | | | |
| | 17 | 70 16.8 | 55 37.6 | 45.3 | 325 12.7 | 35.3 | 239 09.7 | 03.3 | 102 29.6 | 10.5 | 102 29.6 | 10.5 | | | | | | |
| | 18 | 85 19.2 | 70 40.8 | N14 45.2 | 340 14.4 | N25 35.1 | 254 12.4 | S 3 03.2 | 117 31.8 | S14 10.4 | 117 31.8 | S14 10.4 | Arcturus | 146 09.2 | N19 12.8 | | | |
| | 19 | 100 21.7 | 85 43.9 | 45.2 | 355 16.0 | 35.0 | 269 15.2 | 03.1 | 132 34.0 | 10.4 | 132 34.0 | 10.4 | Atria | 108 00.1 | S69 00.7 | | | |
| | 20 | 115 24.1 | 100 47.1 | 45.2 | 10 17.7 | 34.9 | 284 17.9 | 02.9 | 147 36.2 | 10.3 | 147 36.2 | 10.3 | Avior | 234 23.8 | S59 29.6 | | | |
| | 21 | 130 26.6 | 115 50.3 | 45.1 | 25 19.4 | 34.7 | 299 20.7 | 02.8 | 162 38.4 | 10.2 | 162 38.4 | 10.2 | Bellatrix | 278 48.3 | N 6 20.5 | | | |
| | 22 | 145 29.1 | 130 53.5 | 45.1 | 40 21.0 | 34.6 | 314 23.4 | 02.7 | 177 40.6 | 10.1 | 177 40.6 | 10.1 | Betelgeuse | 271 17.6 | N 7 24.3 | | | |
| 23 | 160 31.5 | 145 56.7 | 45.0 | 55 22.7 | 34.5 | 329 26.2 | 02.6 | 192 42.8 | 10.0 | 192 42.8 | 10.0 | | | | | | | |
| J U E V E S | 18 00 | 175 34.0 | 160 59.9 | N14 45.0 | 70 24.3 | N25 34.3 | 344 28.9 | S 3 02.5 | 207 45.0 | S14 09.9 | 207 45.0 | S14 09.9 | Canopus | 264 02.8 | S52 41.9 | | | |
| | 01 | 190 36.5 | 176 03.1 | 44.9 | 85 26.0 | 34.2 | 359 31.6 | 02.3 | 222 47.2 | 09.8 | 222 47.2 | 09.8 | Capella | 280 56.9 | N45 59.6 | | | |
| | 02 | 205 38.9 | 191 06.3 | 44.9 | 100 27.7 | 34.1 | 14 34.4 | 02.2 | 237 49.4 | 09.7 | 237 49.4 | 09.7 | Deneb | 49 42.1 | N45 15.2 | | | |
| | 03 | 220 41.4 | 206 09.5 | 44.8 | 115 29.3 | 33.9 | 29 37.1 | 02.1 | 252 51.6 | 09.7 | 252 51.6 | 09.7 | Denebola | 182 48.7 | N14 36.4 | | | |
| | 04 | 235 43.9 | 221 12.7 | 44.7 | 130 31.0 | 33.8 | 44 39.9 | 02.0 | 267 53.8 | 09.6 | 267 53.8 | 09.6 | Diphda | 349 11.3 | S18 01.5 | | | |
| | 05 | 250 46.3 | 236 15.9 | 44.7 | 145 32.6 | 33.6 | 59 42.6 | 01.8 | 282 56.0 | 09.5 | 282 56.0 | 09.5 | | | | | | |
| | 06 | 265 48.8 | 251 19.1 | N14 44.6 | 160 34.3 | N25 33.5 | 74 45.4 | S 3 01.7 | 297 58.2 | S14 09.4 | 297 58.2 | S14 09.4 | Dubhe | 194 09.4 | N61 47.1 | | | |
| | 07 | 280 51.3 | 266 22.4 | 44.6 | 175 35.9 | 33.4 | 89 48.1 | 01.6 | 313 00.4 | 09.3 | 313 00.4 | 09.3 | Elnath | 278 31.8 | N28 36.2 | | | |
| | 08 | 295 53.7 | 281 25.6 | 44.5 | 190 37.6 | 33.2 | 104 50.8 | 01.5 | 328 02.6 | 09.2 | 328 02.6 | 09.2 | Eltanin | 90 53.2 | N51 29.1 | | | |
| | 09 | 310 56.2 | 296 28.8 | 44.4 | 205 39.3 | 33.1 | 119 53.6 | 01.4 | 343 04.8 | 09.1 | 343 04.8 | 09.1 | Enif | 34 02.2 | N 9 50.6 | | | |
| | 10 | 325 58.6 | 311 32.0 | 44.3 | 220 40.9 | 33.0 | 134 56.3 | 01.2 | 358 07.0 | 09.1 | 358 07.0 | 09.1 | Fomalhaut | 15 40.9 | S29 39.5 | | | |
| | 11 | 341 01.1 | 326 35.3 | 44.3 | 235 42.6 | 32.8 | 149 59.1 | 01.1 | 13 09.2 | 09.0 | 13 09.2 | 09.0 | | | | | | |
| | 12 | 356 03.6 | 341 38.5 | N14 44.2 | 250 44.2 | N25 32.7 | 165 01.8 | S 3 01.0 | 28 11.4 | S14 08.9 | 28 11.4 | S14 08.9 | Gacrux | 172 17.3 | S57 04.6 | | | |
| 13 | 11 06.0 | 356 41.8 | 44.1 | 265 45.9 | 32.5 | 180 04.6 | 00.9 | 43 13.6 | 08.8 | 43 13.6 | 08.8 | Gienah | 176 07.6 | S17 30.5 | | | | |
| 14 | 26 08.5 | 11 45.0 | 44.0 | 280 47.5 | 32.4 | 195 07.3 | 00.7 | 58 15.8 | 08.7 | 58 15.8 | 08.7 | Hadar | 149 09.0 | S60 20.4 | | | | |
| 15 | 41 11.0 | 26 48.2 | 43.9 | 295 49.2 | 32.3 | 210 10.1 | 00.6 | 73 18.0 | 08.6 | 73 18.0 | 08.6 | Hamal | 328 18.1 | N23 25.9 | | | | |
| 16 | 56 13.4 | 41 51.5 | 43.8 | 310 50.8 | 32.1 | 225 12.8 | 00.5 | 88 20.2 | 08.5 | 88 20.2 | 08.5 | Kaus Aust. | 84 03.9 | S34 23.2 | | | | |
| 17 | 71 15.9 | 56 54.8 | 43.7 | 325 52.5 | 32.0 | 240 15.5 | 00.4 | 103 22.4 | 08.5 | 103 22.4 | 08.5 | | | | | | | |
| 18 | 86 18.4 | 71 58.0 | N14 43.6 | 340 54.1 | N25 31.9 | 255 18.3 | S 3 00.3 | 118 24.6 | S14 08.4 | 118 24.6 | S14 08.4 | Kochab | 137 18.5 | N74 10.7 | | | | |
| 19 | 101 20.8 | 87 01.3 | 43.5 | 355 55.8 | 31.7 | 270 21.0 | 00.1 | 133 26.8 | 08.3 | 133 26.8 | 08.3 | Markab | 13 53.7 | N15 10.1 | | | | |
| 20 | 116 23.3 | 102 04.5 | 43.4 | 10 57.4 | 31.6 | 285 23.8 | 3 00.0 | 148 29.0 | 08.2 | 148 29.0 | 08.2 | Menkar | 314 31.1 | N 4 03.7 | | | | |
| 21 | 131 25.8 | 117 07.8 | 43.3 | 25 59.0 | 31.4 | 300 26.5 | 2 59.9 | 163 31.2 | 08.1 | 163 31.2 | 08.1 | Menkent | 148 25.1 | S36 20.3 | | | | |
| 22 | 146 28.2 | 132 11.1 | 43.2 | 41 00.7 | 31.3 | 315 29.3 | 59.8 | 178 33.4 | 08.0 | 178 33.4 | 08.0 | Miaplacidus | 221 42.2 | S69 41.7 | | | | |
| 23 | 161 30.7 | 147 14.4 | 43.1 | 56 02.3 | 31.2 | 330 32.0 | 59.6 | 193 35.6 | 07.9 | 193 35.6 | 07.9 | | | | | | | |
| V I E R N E S | 19 00 | 176 33.1 | 162 17.6 | N14 43.0 | 71 04.0 | N25 31.0 | 345 34.8 | S 2 59.5 | 208 37.8 | S14 07.9 | 208 37.8 | S14 07.9 | Mirfak | 309 02.4 | N49 50.4 | | | |
| | 01 | 191 35.6 | 177 20.9 | 42.9 | 86 05.6 | 30.9 | 0 37.5 | 59.4 | 223 40.0 | 07.8 | 223 40.0 | 07.8 | Nunki | 76 17.1 | S26 18.3 | | | |
| | 02 | 206 38.1 | 192 24.2 | 42.8 | 101 07.3 | 30.7 | 15 40.3 | 59.3 | 238 42.2 | 07.7 | 238 42.2 | 07.7 | Peacock | 53 43.3 | S56 45.2 | | | |
| | 03 | 221 40.5 | 207 27.5 | 42.7 | 116 08.9 | 30.6 | 30 43.0 | 59.1 | 253 44.4 | 07.6 | 253 44.4 | 07.6 | Pollux | 243 46.0 | N28 02.5 | | | |
| | 04 | 236 43.0 | 222 30.8 | 42.5 | 131 10.5 | 30.5 | 45 45.7 | 59.0 | 268 46.6 | 07.5 | 268 46.6 | 07.5 | Procyon | 245 15.4 | N 5 14.4 | | | |
| | 05 | 251 45.5 | 237 34.1 | 42.4 | 146 12.2 | 30.3 | 60 48.5 | 58.9 | 283 48.8 | 07.4 | 283 48.8 | 07.4 | | | | | | |
| | 06 | 266 47.9 | 252 37.4 | N14 42.3 | 161 13.8 | N25 30.2 | 75 51.2 | S 2 58.8 | 298 51.0 | S14 07.3 | 298 51.0 | S14 07.3 | Rasalhague | 96 20.5 | N12 33.7 | | | |
| | 07 | 281 50.4 | 267 40.7 | 42.2 | 176 15.5 | 30.0 | 90 54.0 | 58.7 | 313 53.2 | 07.3 | 313 53.2 | 07.3 | Regulus | 207 59.3 | N11 59.8 | | | |
| | 08 | 296 52.9 | 282 44.0 | 42.0 | 191 17.1 | 29.9 | 105 56.7 | 58.5 | 328 55.4 | 07.2 | 328 55.4 | 07.2 | Rigel | 281 26.6 | S 8 12.7 | | | |
| | 09 | 311 55.3 | 297 47.3 | 41.9 | 206 18.7 | 29.8 | 120 59.5 | 58.4 | 343 57.6 | 07.1 | 343 57.6 | 07.1 | Rigel Kent. | 140 11.9 | S60 48.4 | | | |
| | 10 | 326 57.8 | 312 50.6 | 41.7 | 221 20.4 | 29.6 | 136 02.2 | 58.3 | 358 59.8 | 07.0 | 358 59.8 | 07.0 | Sabik | 102 29.8 | S15 43.1 | | | |
| | 11 | 342 00.2 | 327 53.9 | 41.6 | 236 22.0 | 29.5 | 151 05.0 | 58.2 | 14 02.0 | 06.9 | 14 02.0 | 06.9 | | | | | | |
| | 12 | 357 02.7 | 342 57.3 | N14 41.5 | 251 23.6 | N25 29.3 | 166 0 | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|---|----------|----------|----------|----------|----------|----------|------|------------|-----------|------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 17 | 18 | 19 | 20 | |
| | | | | | | | | | | | | h m | h m | h m | h m | h m |
| M I E R C O L E S | 17 00 | 177 52.7 | S 1 25.7 | 246 05.0 | 11.6 | S19 42.4 | 6.2 | 55.2 | N 72 | 03 35 | 05 01 | 06 09 | 06 37 | 06 03 | 06 07 | 05 45 |
| | 01 | 192 52.9 | 24.7 | 260 35.6 | 11.6 | 19 36.2 | 6.3 | 55.2 | N 70 | 03 52 | 05 08 | 06 09 | 06 37 | 06 03 | 05 45 | 05 32 |
| | 02 | 207 53.1 | 23.7 | 275 06.2 | 11.6 | 19 29.9 | 6.4 | 55.2 | 68 | 04 05 | 05 13 | 06 08 | 05 45 | 05 36 | 05 28 | 05 22 |
| | 03 | 222 53.3 | 22.7 | 289 36.8 | 11.8 | 19 23.5 | 6.5 | 55.2 | 66 | 04 15 | 05 17 | 06 08 | 05 13 | 05 15 | 05 15 | 05 14 |
| | 04 | 237 53.5 | 21.7 | 304 07.6 | 11.8 | 19 17.0 | 6.5 | 55.1 | 64 | 04 24 | 05 21 | 06 08 | 04 49 | 04 58 | 05 03 | 05 07 |
| | 05 | 252 53.6 | 20.7 | 318 38.4 | 11.8 | 19 10.5 | 6.6 | 55.1 | 62 | 04 31 | 05 24 | 06 08 | 04 30 | 04 44 | 04 54 | 05 01 |
| | 06 | 267 53.8 | 19.8 | 333 09.2 | 11.9 | S19 03.9 | 6.7 | 55.1 | 60 | 04 37 | 05 27 | 06 08 | 04 14 | 04 32 | 04 45 | 04 56 |
| | 07 | 282 54.0 | 18.8 | 347 40.1 | 12.0 | 18 57.2 | 6.8 | 55.1 | N 58 | 04 42 | 05 29 | 06 08 | 04 01 | 04 22 | 04 38 | 04 51 |
| | 08 | 297 54.2 | 17.8 | 2 11.1 | 12.1 | 18 50.4 | 6.9 | 55.1 | 56 | 04 47 | 05 31 | 06 08 | 03 49 | 04 13 | 04 31 | 04 47 |
| | 09 | 312 54.4 | 16.8 | 16 42.2 | 12.1 | 18 43.5 | 7.0 | 55.0 | 54 | 04 51 | 05 32 | 06 08 | 03 39 | 04 05 | 04 25 | 04 43 |
| | 10 | 327 54.5 | 15.8 | 31 13.3 | 12.2 | 18 36.5 | 7.0 | 55.0 | 52 | 04 54 | 05 34 | 06 07 | 03 30 | 03 58 | 04 20 | 04 39 |
| | 11 | 342 54.7 | 14.8 | 45 44.5 | 12.3 | 18 29.5 | 7.2 | 55.0 | 50 | 04 57 | 05 35 | 06 07 | 03 22 | 03 51 | 04 15 | 04 36 |
| | 12 | 357 54.9 | 13.8 | 60 15.8 | 12.3 | S18 22.3 | 7.2 | 55.0 | 45 | 05 04 | 05 38 | 06 07 | 03 05 | 03 37 | 04 05 | 04 29 |
| | 13 | 12 55.1 | 12.8 | 74 47.1 | 12.4 | 18 15.1 | 7.2 | 54.9 | N 40 | 05 08 | 05 40 | 06 07 | 02 51 | 03 26 | 03 56 | 04 24 |
| | 14 | 27 55.3 | 11.8 | 89 18.5 | 12.5 | 18 07.9 | 7.4 | 54.9 | 35 | 05 12 | 05 41 | 06 07 | 02 39 | 03 16 | 03 49 | 04 19 |
| | 15 | 42 55.4 | 10.9 | 103 50.0 | 12.5 | 18 00.5 | 7.4 | 54.9 | 30 | 05 15 | 05 43 | 06 06 | 02 28 | 03 07 | 03 42 | 04 14 |
| | 16 | 57 55.6 | 09.9 | 118 21.5 | 12.6 | 17 53.1 | 7.6 | 54.9 | 20 | 05 18 | 05 44 | 06 06 | 02 10 | 02 52 | 03 31 | 04 07 |
| | 17 | 72 55.8 | 08.9 | 132 53.1 | 12.7 | 17 45.5 | 7.5 | 54.9 | N 10 | 05 20 | 05 44 | 06 05 | 01 54 | 02 39 | 03 21 | 04 00 |
| | 18 | 87 56.0 | 07.9 | 147 24.8 | 12.7 | S17 38.0 | 7.7 | 54.8 | 0 | 05 20 | 05 44 | 06 05 | 01 39 | 02 27 | 03 11 | 03 54 |
| | 19 | 102 56.2 | 06.9 | 161 56.5 | 12.7 | 17 30.3 | 7.7 | 54.8 | S 10 | 05 19 | 05 43 | 06 04 | 01 25 | 02 14 | 03 02 | 03 48 |
| | 20 | 117 56.3 | 05.9 | 176 28.2 | 12.9 | 17 22.6 | 7.8 | 54.8 | 20 | 05 16 | 05 41 | 06 03 | 01 09 | 02 01 | 02 52 | 03 41 |
| | 21 | 132 56.5 | 04.9 | 191 00.1 | 12.9 | 17 14.8 | 7.9 | 54.8 | 30 | 05 10 | 05 38 | 06 02 | 00 50 | 01 46 | 02 40 | 03 33 |
| | 22 | 147 56.7 | 03.9 | 205 32.0 | 13.0 | 17 06.9 | 8.0 | 54.8 | 35 | 05 07 | 05 36 | 06 01 | 00 40 | 01 37 | 02 33 | 03 29 |
| 23 | 162 56.9 | 03.0 | 220 04.0 | 13.0 | 16 58.9 | 8.0 | 54.7 | 40 | 05 02 | 05 34 | 06 01 | 00 27 | 01 27 | 02 26 | 03 24 | |
| 18 00 | 177 57.1 | S 1 02.0 | 234 36.0 | 13.1 | S16 50.9 | 8.1 | 54.7 | 45 | 04 56 | 05 30 | 06 00 | 00 13 | 01 15 | 02 17 | 03 18 | |
| 01 | 192 57.2 | 01.0 | 249 08.1 | 13.1 | 16 42.8 | 8.1 | 54.7 | S 50 | 04 48 | 05 26 | 05 58 | 25 00 | 01 00 | 02 06 | 03 11 | |
| 02 | 207 57.4 | 0 00.0 | 263 40.2 | 13.2 | 16 34.7 | 8.3 | 54.7 | 52 | 04 44 | 05 24 | 05 58 | 24 53 | 00 53 | 02 01 | 03 07 | |
| 03 | 222 57.6 | 0 59.0 | 278 12.4 | 13.3 | 16 26.4 | 8.3 | 54.7 | 54 | 04 40 | 05 22 | 05 57 | 24 46 | 00 46 | 01 55 | 03 04 | |
| 04 | 237 57.8 | 58.0 | 292 44.7 | 13.4 | 16 18.1 | 8.3 | 54.6 | 56 | 04 35 | 05 19 | 05 57 | 24 37 | 00 37 | 01 49 | 03 00 | |
| 05 | 252 58.0 | 57.0 | 307 17.1 | 13.3 | 16 09.8 | 8.4 | 54.6 | 58 | 04 29 | 05 16 | 05 55 | 24 28 | 00 28 | 01 42 | 02 55 | |
| 06 | 267 58.2 | S 0 56.0 | 321 49.4 | 13.5 | S16 01.4 | 8.5 | 54.6 | S 60 | 04 22 | 05 13 | 05 55 | 24 17 | 00 17 | 01 34 | 02 50 | |
| 07 | 282 58.3 | 55.0 | 336 21.9 | 13.5 | 15 52.9 | 8.6 | 54.6 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 08 | 297 58.5 | 54.1 | 350 54.4 | 13.6 | 15 44.3 | 8.6 | 54.6 | Sol | Civil | Náut. | 17 | 18 | 19 | 20 | | |
| 09 | 312 58.7 | 53.1 | 5 27.0 | 13.6 | 15 35.7 | 8.7 | 54.6 | N 72 | 18 10 | 19 18 | 20 46 | h m | h m | h m | h m | |
| 10 | 327 58.9 | 52.1 | 19 59.6 | 13.7 | 15 27.0 | 8.7 | 54.5 | N 70 | 18 10 | 19 11 | 20 28 | 09 17 | 11 27 | 13 16 | 14 57 | |
| 11 | 342 59.1 | 51.1 | 34 32.3 | 13.7 | 15 18.3 | 8.8 | 54.5 | 68 | 18 10 | 19 05 | 20 15 | 10 08 | 11 53 | 13 31 | 15 05 | |
| 12 | 357 59.2 | S 0 50.1 | 49 05.0 | 13.8 | S15 09.5 | 8.9 | 54.5 | 66 | 18 10 | 19 01 | 20 04 | 10 39 | 12 13 | 13 44 | 15 12 | |
| 13 | 12 59.4 | 49.1 | 63 37.8 | 13.9 | 15 00.6 | 8.9 | 54.5 | 64 | 18 10 | 18 57 | 19 55 | 11 03 | 12 29 | 13 54 | 15 17 | |
| 14 | 27 59.6 | 48.1 | 78 10.7 | 13.9 | 14 51.7 | 9.0 | 54.5 | 62 | 18 10 | 18 54 | 19 47 | 11 21 | 12 42 | 14 03 | 15 22 | |
| 15 | 42 59.8 | 47.1 | 92 43.6 | 13.9 | 14 42.7 | 9.0 | 54.5 | 60 | 18 10 | 18 51 | 19 41 | 11 36 | 12 54 | 14 11 | 15 27 | |
| 16 | 58 00.0 | 46.1 | 107 16.5 | 14.0 | 14 33.7 | 9.1 | 54.5 | N 58 | 18 10 | 18 49 | 19 35 | 11 49 | 13 03 | 14 17 | 15 30 | |
| 17 | 73 00.2 | 45.2 | 121 49.5 | 14.1 | 14 24.6 | 9.2 | 54.4 | 56 | 18 10 | 18 47 | 19 31 | 12 00 | 13 12 | 14 23 | 15 34 | |
| 18 | 88 00.3 | S 0 44.2 | 136 22.6 | 14.1 | S14 15.4 | 9.2 | 54.4 | 54 | 18 10 | 18 45 | 19 27 | 12 10 | 13 19 | 14 28 | 15 37 | |
| 19 | 103 00.5 | 43.2 | 150 55.7 | 14.2 | 14 06.2 | 9.3 | 54.4 | 52 | 18 10 | 18 43 | 19 23 | 12 18 | 13 26 | 14 33 | 15 39 | |
| 20 | 118 00.7 | 42.2 | 165 28.9 | 14.2 | 13 56.9 | 9.3 | 54.4 | 50 | 18 10 | 18 42 | 19 20 | 12 26 | 13 32 | 14 37 | 15 42 | |
| 21 | 133 00.9 | 41.2 | 180 02.1 | 14.3 | 13 47.6 | 9.3 | 54.4 | 45 | 18 10 | 18 39 | 19 13 | 12 42 | 13 45 | 14 46 | 15 47 | |
| 22 | 148 01.1 | 40.2 | 194 35.4 | 14.3 | 13 38.3 | 9.5 | 54.4 | N 40 | 18 10 | 18 37 | 19 08 | 12 56 | 13 55 | 14 54 | 15 51 | |
| 23 | 163 01.3 | 39.2 | 209 08.7 | 14.4 | 13 28.8 | 9.4 | 54.4 | 35 | 18 10 | 18 35 | 19 05 | 13 07 | 14 04 | 15 00 | 15 55 | |
| 19 00 | 178 01.4 | S 0 38.2 | 223 42.1 | 14.4 | S13 19.4 | 9.6 | 54.3 | 30 | 18 10 | 18 34 | 19 02 | 13 17 | 14 12 | 15 06 | 15 59 | |
| 01 | 193 01.6 | 37.2 | 238 15.5 | 14.5 | 13 09.8 | 9.5 | 54.3 | 20 | 18 10 | 18 32 | 18 58 | 13 34 | 14 26 | 15 16 | 16 04 | |
| 02 | 208 01.8 | 36.3 | 252 49.0 | 14.5 | 13 00.3 | 9.7 | 54.3 | N 10 | 18 11 | 18 32 | 18 56 | 13 49 | 14 37 | 15 24 | 16 09 | |
| 03 | 223 02.0 | 35.3 | 267 22.5 | 14.6 | 12 50.6 | 9.6 | 54.3 | 0 | 18 11 | 18 32 | 18 56 | 14 02 | 14 48 | 15 32 | 16 14 | |
| 04 | 238 02.2 | 34.3 | 281 56.1 | 14.6 | 12 41.0 | 9.8 | 54.3 | S 10 | 18 12 | 18 33 | 18 57 | 14 16 | 14 59 | 15 40 | 16 19 | |
| 05 | 253 02.3 | 33.3 | 296 29.7 | 14.6 | 12 31.2 | 9.7 | 54.3 | 20 | 18 13 | 18 35 | 19 00 | 14 31 | 15 11 | 15 48 | 16 24 | |
| 06 | 268 02.5 | S 0 32.3 | 311 03.3 | 14.7 | S12 21.5 | 9.8 | 54.3 | 30 | 18 14 | 18 37 | 19 05 | 14 47 | 15 24 | 15 58 | 16 29 | |
| 07 | 283 02.7 | 31.3 | 325 37.0 | 14.8 | 12 11.7 | 9.9 | 54.3 | 35 | 18 14 | 18 39 | 19 09 | 14 57 | 15 32 | 16 03 | 16 32 | |
| 08 | 298 02.9 | 30.3 | 340 10.8 | 14.8 | 12 01.8 | 9.9 | 54.2 | 40 | 18 15 | 18 42 | 19 13 | 15 08 | 15 40 | 16 09 | 16 36 | |
| 09 | 313 03.1 | 29.3 | 354 44.6 | 14.8 | 11 51.9 | 10.0 | 54.2 | 45 | 18 16 | 18 45 | 19 19 | 15 20 | 15 50 | 16 16 | 16 40 | |
| 10 | 328 03.3 | 28.4 | 9 18.4 | 14.9 | 11 41.9 | 10.0 | 54.2 | S 50 | 18 17 | 18 49 | 19 27 | 15 36 | 16 02 | 16 25 | 16 45 | |
| 11 | 343 03.4 | 27.4 | 23 52.3 | 14.9 | 11 31.9 | 10.0 | 54.2 | 52 | 18 17 | 18 51 | 19 31 | 15 43 | 16 08 | 16 29 | 16 47 | |
| 12 | 358 03.6 | S 0 26.4 | 38 26.2 | 15.0 | S11 21.9 | 10.1 | 54.2 | 54 | 18 18 | 18 53 | 19 35 | 15 51 | 16 14 | 16 33 | 16 50 | |
| 13 | 13 03.8 | 25.4 | 53 00.2 | 15.0 | 11 11.8 | 10.1 | 54.2 | 56 | 18 18 | 18 55 | 19 40 | 16 00 | 16 21 | 16 38 | 16 52 | |
| 14 | 28 04.0 | 24.4 | 67 34.2 | 15.1 | 11 01.7 | 10.2 | 54.2 | 58 | 18 19 | 18 58 | 19 45 | 16 10 | 16 29 | 16 43 | 16 55 | |
| 15 | 43 04.2 | 23.4 | 82 08.3 | 15.1 | 10 51.5 | 10.2 | 54.2 | S 60 | 18 20 | 19 01 | 19 52 | 16 22 | 16 37 | 16 49 | 16 59 | |
| 16 | 58 04.4 | 22.4 | 96 42.4 | 15.1 | 10 41.3 | 10.2 | 54.2 | Día | SOL | | LUNA | | | | | |
| 17 | 73 04.5 | 21.4 | 111 16.5 | 15.2 | 10 31.1 | 10.3 | 54.1 | E.T. (-) | Pas. Mer. | Pas. Mer. | Mer. Inf. | Edad | Fase | | | |
| 18 | 88 04.7 | S 0 20.4 | 125 50.7 | 15.2 | S10 20.8 | 10.3 | 54.1 | 00 h | 12 h | Sup. | Inf. | | | | | |
| 19 | 103 04.9 | 19.5 | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.3 | | MARTE +0.4 | | JUPITER -2.5 | | SATURNO +0.9 | | ESTRELLAS | | |
|-------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|------|--------------|------|--------------------|----------|------|
| | A.H.G. | A.H.G. Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| 20 00 | 177 32.3 | 163 37.4 N14 39.5 | 71 43.2 N25 27.6 | 346 40.7 S 2 56.6 | 209 30.7 S14 05.8 | Acamar | 315 30.1 S40 20.1 | | | | | | |
| 01 | 192 34.7 | 178 40.7 39.4 | 86 44.8 27.5 | 1 43.4 56.4 | 224 32.9 05.7 | Achernar | 335 38.4 S57 16.4 | | | | | | |
| 02 | 207 37.2 | 193 44.1 39.2 | 101 46.5 27.4 | 16 46.2 56.3 | 239 35.1 05.6 | Acruz | 173 25.6 S63 03.8 | | | | | | |
| 03 | 222 39.7 | 208 47.5 .. 39.0 | 116 48.1 .. 27.2 | 31 48.9 .. 56.2 | 254 37.3 .. 05.5 | Adhara | 255 24.3 S28 58.1 | | | | | | |
| 04 | 237 42.1 | 223 50.8 38.8 | 131 49.7 27.1 | 46 51.7 56.1 | 269 39.5 05.5 | Aldebaran | 291 06.9 N16 29.7 | | | | | | |
| 05 | 252 44.6 | 238 54.2 38.6 | 146 51.3 26.9 | 61 54.4 55.9 | 284 41.7 05.4 | | | | | | | | |
| 06 | 267 47.1 | 253 57.6 N14 38.4 | 161 52.9 N25 26.8 | 76 57.2 S 2 55.8 | 299 43.9 S14 05.3 | Alioth | 166 33.3 N55 59.6 | | | | | | |
| 07 | 282 49.5 | 269 01.0 38.3 | 176 54.6 26.6 | 91 59.9 55.7 | 314 46.1 05.2 | Alkaid | 153 10.3 N49 20.5 | | | | | | |
| 08 | 297 52.0 | 284 04.4 38.1 | 191 56.2 26.5 | 107 02.7 55.6 | 329 48.3 05.1 | Al Na'ir | 28 03.0 S46 59.5 | | | | | | |
| S 09 | 312 54.5 | 299 07.8 .. 37.9 | 206 57.8 .. 26.3 | 122 05.4 .. 55.4 | 344 50.5 .. 05.0 | Alnilam | 276 01.7 S 1 12.5 | | | | | | |
| A 10 | 327 56.9 | 314 11.1 37.7 | 221 59.4 26.2 | 137 08.2 55.3 | 359 52.7 04.9 | Alphard | 218 10.7 S 8 38.0 | | | | | | |
| B 11 | 342 59.4 | 329 14.5 37.5 | 237 01.0 26.1 | 152 10.9 55.2 | 14 54.9 04.9 | | | | | | | | |
| A 12 | 358 01.9 | 344 17.9 N14 37.3 | 252 02.7 N25 25.9 | 167 13.7 S 2 55.1 | 29 57.1 S14 04.8 | Alphecca | 126 23.6 N26 44.0 | | | | | | |
| D 13 | 13 04.3 | 359 21.3 37.0 | 267 04.3 25.8 | 182 16.4 54.9 | 44 59.3 04.7 | Alpheratz | 357 59.5 N29 03.2 | | | | | | |
| O 14 | 28 06.8 | 14 24.7 36.8 | 282 05.9 25.6 | 197 19.2 54.8 | 60 01.5 04.6 | Altair | 62 23.1 N 8 50.9 | | | | | | |
| 15 | 43 09.2 | 29 28.2 .. 36.6 | 297 07.5 .. 25.5 | 212 21.9 .. 54.7 | 75 03.7 .. 04.5 | Ankaa | 353 30.9 S42 20.6 | | | | | | |
| 16 | 58 11.7 | 44 31.6 36.4 | 312 09.1 25.3 | 227 24.7 54.6 | 90 05.9 04.4 | Antares | 112 44.7 S26 25.1 | | | | | | |
| 17 | 73 14.2 | 59 35.0 36.2 | 327 10.7 25.2 | 242 27.4 54.4 | 105 08.1 04.4 | | | | | | | | |
| 18 | 88 16.6 | 74 38.4 N14 36.0 | 342 12.3 N25 25.0 | 257 30.2 S 2 54.3 | 120 10.3 S14 04.3 | Arcturus | 146 09.2 N19 12.8 | | | | | | |
| 19 | 103 19.1 | 89 41.8 35.7 | 357 14.0 24.9 | 272 32.9 54.2 | 135 12.5 04.2 | Atria | 108 00.0 S69 00.7 | | | | | | |
| 20 | 118 21.6 | 104 45.2 35.5 | 12 15.6 24.8 | 287 35.7 54.1 | 150 14.7 04.1 | Avior | 234 23.9 S59 29.6 | | | | | | |
| 21 | 133 24.0 | 119 48.7 .. 35.3 | 27 17.2 .. 24.6 | 302 38.4 .. 53.9 | 165 16.9 .. 04.0 | Bellatrix | 278 48.3 N 6 20.5 | | | | | | |
| 22 | 148 26.5 | 134 52.1 35.1 | 42 18.8 24.5 | 317 41.2 53.8 | 180 19.1 03.9 | Betelgeuse | 271 17.7 N 7 24.3 | | | | | | |
| 23 | 163 29.0 | 149 55.5 34.8 | 57 20.4 24.3 | 332 43.9 53.7 | 195 21.4 03.8 | | | | | | | | |
| 21 00 | 178 31.4 | 164 59.0 N14 34.6 | 72 22.0 N25 24.2 | 347 46.7 S 2 53.6 | 210 23.6 S14 03.8 | Canopus | 264 02.8 S52 41.9 | | | | | | |
| 01 | 193 33.9 | 180 02.4 34.3 | 87 23.6 24.0 | 2 49.4 53.4 | 225 25.8 03.7 | Capella | 280 56.9 N45 59.6 | | | | | | |
| 02 | 208 36.4 | 195 05.9 34.1 | 102 25.2 23.9 | 17 52.2 53.3 | 240 28.0 03.6 | Deneb | 49 42.1 N45 15.2 | | | | | | |
| 03 | 223 38.8 | 210 09.3 .. 33.9 | 117 26.8 .. 23.7 | 32 54.9 .. 53.2 | 255 30.2 .. 03.5 | Denebola | 182 48.7 N14 36.4 | | | | | | |
| 04 | 238 41.3 | 225 12.8 33.6 | 132 28.4 23.6 | 47 57.7 53.1 | 270 32.4 03.4 | Diphda | 349 11.3 S18 01.5 | | | | | | |
| 05 | 253 43.7 | 240 16.2 33.4 | 147 30.0 23.4 | 63 00.4 52.9 | 285 34.6 03.3 | | | | | | | | |
| 06 | 268 46.2 | 255 19.7 N14 33.1 | 162 31.7 N25 23.3 | 78 03.2 S 2 52.8 | 300 36.8 S14 03.3 | Dubhe | 194 09.4 N61 47.1 | | | | | | |
| 07 | 283 48.7 | 270 23.1 32.8 | 177 33.3 23.2 | 93 05.9 52.7 | 315 39.0 03.2 | Elnath | 278 31.8 N28 36.2 | | | | | | |
| D 08 | 298 51.1 | 285 26.6 32.6 | 192 34.9 23.0 | 108 08.7 52.6 | 330 41.2 03.1 | Eltanin | 90 53.1 N51 29.1 | | | | | | |
| O 09 | 313 53.6 | 300 30.0 .. 32.3 | 207 36.5 .. 22.9 | 123 11.4 .. 52.5 | 345 43.4 .. 03.0 | Enif | 34 02.2 N 9 50.6 | | | | | | |
| M 10 | 328 56.1 | 315 33.5 32.1 | 222 38.1 22.7 | 138 14.2 52.3 | 0 45.6 02.9 | Fomalhaut | 15 40.9 S29 39.5 | | | | | | |
| I 11 | 343 58.5 | 330 37.0 31.8 | 237 39.7 22.6 | 153 16.9 52.2 | 15 47.8 02.8 | | | | | | | | |
| N 12 | 359 01.0 | 345 40.5 N14 31.5 | 252 41.3 N25 22.4 | 168 19.7 S 2 52.1 | 30 50.0 S14 02.7 | Gacrux | 172 17.3 S57 04.7 | | | | | | |
| G 13 | 14 03.5 | 0 43.9 31.3 | 267 42.9 22.3 | 183 22.4 52.0 | 45 52.2 02.7 | Gienah | 176 07.6 S17 30.5 | | | | | | |
| O 14 | 29 05.9 | 15 47.4 31.0 | 282 44.5 22.1 | 198 25.2 51.8 | 60 54.4 02.6 | Hadar | 149 08.9 S60 20.4 | | | | | | |
| 15 | 44 08.4 | 30 50.9 .. 30.7 | 297 46.1 .. 22.0 | 213 27.9 .. 51.7 | 75 56.6 .. 02.5 | Hamal | 328 18.1 N23 25.9 | | | | | | |
| 16 | 59 10.8 | 45 54.4 30.4 | 312 47.7 21.8 | 228 30.7 51.6 | 90 58.8 02.4 | Kaus Aust. | 84 03.9 S34 23.2 | | | | | | |
| 17 | 74 13.3 | 60 57.9 30.1 | 327 49.3 21.7 | 243 33.4 51.5 | 106 01.1 02.3 | | | | | | | | |
| 18 | 89 15.8 | 76 01.4 N14 29.9 | 342 50.9 N25 21.5 | 258 36.2 S 2 51.3 | 121 03.3 S14 02.2 | Kochab | 137 18.4 N74 10.7 | | | | | | |
| 19 | 104 18.2 | 91 04.9 29.6 | 357 52.5 21.4 | 273 38.9 51.2 | 136 05.5 02.2 | Markab | 13 53.7 N15 10.1 | | | | | | |
| 20 | 119 20.7 | 106 08.4 29.3 | 12 54.0 21.2 | 288 41.7 51.1 | 151 07.7 02.1 | Menkar | 314 31.1 N 4 02.7 | | | | | | |
| 21 | 134 23.2 | 121 11.9 .. 29.0 | 27 55.6 .. 21.1 | 303 44.4 .. 51.0 | 166 09.9 .. 02.0 | Menkent | 148 25.1 S36 20.3 | | | | | | |
| 22 | 149 25.6 | 136 15.4 28.7 | 42 57.2 20.9 | 318 47.2 50.8 | 181 12.1 01.9 | Miaplacidus | 221 42.3 S69 41.7 | | | | | | |
| 23 | 164 28.1 | 151 18.9 28.4 | 57 58.8 20.8 | 333 49.9 50.7 | 196 14.3 01.8 | | | | | | | | |
| 22 00 | 179 30.6 | 166 22.4 N14 28.1 | 73 00.4 N25 20.6 | 348 52.7 S 2 50.6 | 211 16.5 S14 01.7 | Mirfak | 309 02.4 N49 50.4 | | | | | | |
| 01 | 194 33.0 | 181 25.9 27.8 | 88 02.0 20.5 | 3 55.5 50.5 | 226 18.7 01.6 | Nunki | 76 17.1 S26 18.3 | | | | | | |
| 02 | 209 35.5 | 196 29.4 27.5 | 103 03.6 20.3 | 18 58.2 50.3 | 241 20.9 01.6 | Peacock | 53 43.2 S56 45.2 | | | | | | |
| 03 | 224 38.0 | 211 32.9 .. 27.2 | 118 05.2 .. 20.2 | 34 01.0 .. 50.2 | 256 23.1 .. 01.5 | Pollux | 243 46.0 N28 02.5 | | | | | | |
| 04 | 239 40.4 | 226 36.4 26.9 | 133 06.8 20.0 | 49 03.7 50.1 | 271 25.3 01.4 | Procyon | 245 15.4 N 5 14.4 | | | | | | |
| 05 | 254 42.9 | 241 40.0 26.5 | 148 08.4 19.9 | 64 06.5 50.0 | 286 27.5 01.3 | | | | | | | | |
| 06 | 269 45.3 | 256 43.5 N14 26.2 | 163 10.0 N25 19.7 | 79 09.2 S 2 49.8 | 301 29.7 S14 01.2 | Rasalhague | 96 20.4 N12 33.7 | | | | | | |
| 07 | 284 47.8 | 271 47.0 25.9 | 178 11.5 19.6 | 94 12.0 49.7 | 316 31.9 01.1 | Regulus | 207 59.3 N11 59.8 | | | | | | |
| 08 | 299 50.3 | 286 50.5 25.6 | 193 13.1 19.5 | 109 14.7 49.6 | 331 34.2 01.1 | Rigel | 281 26.6 S 8 12.7 | | | | | | |
| L 09 | 314 52.7 | 301 54.1 .. 25.3 | 208 14.7 .. 19.3 | 124 17.5 .. 49.5 | 346 36.4 .. 01.0 | Rigel Kent. | 140 11.9 S60 48.4 | | | | | | |
| U 10 | 329 55.2 | 316 57.6 24.9 | 223 16.3 19.2 | 139 20.2 49.3 | 1 38.6 00.9 | Sabik | 102 29.8 S15 43.1 | | | | | | |
| N 11 | 344 57.7 | 332 01.2 24.6 | 238 17.9 19.0 | 154 23.0 49.2 | 16 40.8 00.8 | | | | | | | | |
| E 12 | 0 00.1 | 347 04.7 N14 24.3 | 253 19.5 N25 18.8 | 169 25.7 S 2 49.1 | 31 43.0 S14 00.7 | Schedar | 349 58.4 S36 30.1 | | | | | | |
| S 13 | 15 02.6 | 2 08.3 23.9 | 268 21.1 18.7 | 184 28.5 49.0 | 46 45.2 00.6 | Shaula | 96 42.4 S37 05.9 | | | | | | |
| 14 | 30 05.1 | 17 11.8 23.6 | 283 22.6 18.5 | 199 31.2 48.8 | 61 47.4 00.6 | Sirius | 258 47.0 S15 42.7 | | | | | | |
| 15 | 45 07.5 | 32 15.4 .. 23.3 | 298 24.2 .. 18.4 | 214 34.0 .. 48.7 | 76 49.6 .. 00.5 | Spica | 158 46.9 S11 07.3 | | | | | | |
| 16 | 60 10.0 | 47 18.9 22.9 | 313 25.8 18.2 | 229 36.8 48.6 | 91 51.8 00.4 | Suhail | 223 03.3 S43 24.6 | | | | | | |
| 17 | 75 12.5 | 62 22.5 22.6 | 328 27.4 18.1 | 244 39.5 48.5 | 106 54.0 00.3 | | | | | | | | |
| 18 | 90 14.9 | 77 26.0 N14 22.2 | 343 29.0 N25 17.9 | 259 42.3 S 2 48.3 | 121 56.2 S14 00.2 | Vega | 80 49.2 N38 46.4 | | | | | | |
| 19 | 105 17.4 | 92 29.6 21.9 | 358 30.5 17.8 | 274 45.0 48.2 | 136 58.4 00.1 | Zuben'ubi | 137 21.9 S16 01.0 | | | | | | |
| 20 | 120 19.8 | 107 33.1 21.5 | 13 32.1 17.6 | 289 47.8 48.1 | 152 00.7 00.1 | | | | | | | | |
| 21 | 135 22.3 | 122 36.7 .. 21.2 | 28 33.7 .. 17.5 | 304 50.5 .. 48.0 | 167 02.9 14 00.0 | | | | | | | | |
| 22 | 150 24.8 | 137 40.3 20.8 | 43 35.3 17.3 | 319 53.3 47.8 | 182 05.1 13 59.9 | | | | | | | | |
| 23 | 165 27.2 | 152 43.9 20.4 | 58 36.9 17.2 | 334 56.0 47.7 | 197 07.3 59.8 | | | | | | | | |
| | | | | | | | | | | | A. H. S. Pas. Mer. | | |
| | | | | | | | | | | | o h m | | |
| | | | | | | | | | | | Venus | | |
| | | | | | | | | | | | Marte | | |
| | | | | | | | | | | | Júpiter | | |
| | | | | | | | | | | | Saturno | | |
| Pas. Mer. 12 03.9 | | | | | | | | | | | v 3.5 d 0.3 | | |
| | | | | | | | | | | | v 1.6 d 0.1 | | |
| | | | | | | | | | | | v 2.8 d 0.1 | | |
| | | | | | | | | | | | v 2.2 d 0.1 | | |

| T.M.G. (TU) | SOL | | LUN. | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|----------------|----------|----------|----------|------|----------|------|------|------------|-----------|------------|----------------|------------|-------|--------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 20 | 21 | 22 | 23 |
| | | | | | | | | | | | | | | | |
| 20 00 | 178 05.8 | S 0 14.5 | 213 16.4 | 15.4 | S 9 18.3 | 10.5 | 54.1 | N 72 | 03 15 | 04 45 | 05 53 | 05 45 | 05 27 | 05 10 | 04 54 |
| 01 | 193 06.0 | 13.5 | 227 50.8 | 15.5 | 9 07.8 | 10.6 | 54.1 | N 70 | 03 35 | 04 53 | 05 55 | 05 32 | 05 21 | 05 11 | 05 00 |
| 02 | 208 06.2 | 12.5 | 242 25.3 | 15.5 | 8 57.2 | 10.6 | 54.1 | 68 | 03 50 | 05 00 | 05 56 | 05 22 | 05 17 | 05 11 | 05 06 |
| 03 | 223 06.4 | 11.5 | 256 59.8 | 15.5 | 8 46.6 | 10.6 | 54.1 | 66 | 04 02 | 05 05 | 05 57 | 05 14 | 05 13 | 05 12 | 05 11 |
| 04 | 238 06.6 | 10.6 | 271 34.3 | 15.5 | 8 36.0 | 10.7 | 54.1 | 64 | 04 12 | 05 10 | 05 58 | 05 07 | 05 10 | 05 12 | 05 15 |
| 05 | 253 06.8 | 09.6 | 286 08.8 | 15.6 | 8 25.3 | 10.7 | 54.1 | 62 | 04 20 | 05 14 | 05 58 | 05 01 | 05 07 | 05 12 | 05 18 |
| 06 | 268 06.9 | S 0 08.6 | 300 43.4 | 15.6 | S 8 14.6 | 10.7 | 54.0 | 60 | 04 27 | 05 17 | 05 59 | 04 56 | 05 04 | 05 13 | 05 21 |
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| 08 | 298 07.3 | 06.6 | 329 52.7 | 15.6 | 7 53.2 | 10.8 | 54.0 | 56 | 04 38 | 05 23 | 06 00 | 04 47 | 05 00 | 05 13 | 05 26 |
| 09 | 313 07.5 | 05.6 | 344 27.3 | 15.7 | 7 42.4 | 10.8 | 54.0 | 54 | 04 43 | 05 25 | 06 00 | 04 43 | 04 58 | 05 13 | 05 28 |
| A 10 | 328 07.7 | 04.6 | 359 02.0 | 15.7 | 7 31.6 | 10.9 | 54.0 | 52 | 04 47 | 05 27 | 06 01 | 04 39 | 04 57 | 05 14 | 05 30 |
| B 11 | 343 07.9 | 03.6 | 13 36.7 | 15.8 | 7 20.7 | 10.8 | 54.0 | 50 | 04 51 | 05 29 | 06 01 | 04 36 | 04 55 | 05 14 | 05 32 |
| A 12 | 358 08.0 | S 0 02.7 | 28 11.5 | 15.7 | S 7 09.9 | 10.9 | 54.0 | 45 | 04 58 | 05 32 | 06 02 | 04 29 | 04 52 | 05 14 | 05 36 |
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| O 14 | 28 08.4 | S 0 00.7 | 57 21.0 | 15.9 | 6 48.1 | 11.0 | 54.0 | 35 | 05 08 | 05 37 | 06 02 | 04 19 | 04 47 | 05 15 | 05 42 |
| 15 | 43 08.6 | N 0 00.3 | 71 55.9 | 15.8 | 6 37.1 | 11.0 | 54.0 | 30 | 05 11 | 05 39 | 06 03 | 04 14 | 04 45 | 05 15 | 05 45 |
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| 17 | 73 09.0 | 02.3 | 101 05.6 | 15.8 | 6 15.2 | 11.1 | 54.0 | N 10 | 05 18 | 05 43 | 06 04 | 04 00 | 04 38 | 05 16 | 05 53 |
| 18 | 88 09.2 | N 0 03.3 | 115 40.4 | 16.0 | S 6 04.1 | 11.0 | 54.0 | 0 | 05 19 | 05 43 | 06 04 | 03 54 | 04 35 | 05 16 | 05 57 |
| 19 | 103 09.3 | 04.3 | 130 15.4 | 15.9 | 5 53.1 | 11.0 | 54.0 | S 10 | 05 19 | 05 43 | 06 04 | 03 48 | 04 32 | 05 17 | 06 01 |
| 20 | 118 09.5 | 05.3 | 144 50.3 | 15.9 | 5 42.1 | 11.1 | 54.0 | 20 | 05 16 | 05 42 | 06 04 | 03 41 | 04 29 | 05 17 | 06 05 |
| 21 | 133 09.7 | 06.2 | 159 25.2 | 16.0 | 5 31.0 | 11.1 | 54.0 | 30 | 05 12 | 05 40 | 06 04 | 03 33 | 04 26 | 05 18 | 06 10 |
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| 23 | 163 10.1 | 08.2 | 188 35.2 | 16.0 | 5 08.8 | 11.1 | 54.0 | 40 | 05 05 | 05 37 | 06 04 | 03 24 | 04 21 | 05 18 | 06 16 |
| 21 00 | 178 10.3 | N 0 09.2 | 203 10.2 | 16.0 | S 4 57.7 | 11.2 | 54.0 | 45 | 05 00 | 05 34 | 06 04 | 03 18 | 04 18 | 05 19 | 06 19 |
| 01 | 193 10.4 | 10.2 | 217 45.2 | 16.0 | 4 46.5 | 11.2 | 54.0 | S 50 | 04 53 | 05 31 | 06 03 | 03 11 | 04 15 | 05 19 | 06 23 |
| 02 | 208 10.6 | 11.2 | 232 20.2 | 16.1 | 4 35.3 | 11.1 | 53.9 | 52 | 04 50 | 05 29 | 06 03 | 03 07 | 04 13 | 05 19 | 06 25 |
| 03 | 223 10.8 | 12.2 | 246 55.3 | 16.0 | 4 24.2 | 11.2 | 53.9 | 54 | 04 46 | 05 28 | 06 03 | 03 04 | 04 12 | 05 20 | 06 28 |
| 04 | 238 11.0 | 13.2 | 261 30.3 | 16.1 | 4 13.0 | 11.3 | 53.9 | 56 | 04 41 | 05 26 | 06 03 | 03 00 | 04 10 | 05 20 | 06 30 |
| 05 | 253 11.2 | 14.1 | 276 05.4 | 16.1 | 4 01.7 | 11.2 | 53.9 | 58 | 04 36 | 05 23 | 06 03 | 02 55 | 04 08 | 05 20 | 06 33 |
| 06 | 268 11.4 | N 0 15.1 | 290 40.5 | 16.1 | S 3 50.5 | 11.2 | 53.9 | S 60 | 04 31 | 05 21 | 06 02 | 02 50 | 04 06 | 05 21 | 06 36 |
| 07 | 283 11.6 | 16.1 | 305 15.6 | 16.1 | 3 39.3 | 11.3 | 53.9 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| 08 | 298 11.7 | 17.1 | 319 50.7 | 16.1 | 3 28.0 | 11.3 | 53.9 | | | Civil | Naut. | 20 | 21 | 22 | 23 |
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| 11 | 343 12.3 | 20.1 | 3 36.1 | 16.2 | 2 54.2 | 11.3 | 53.9 | 68 | 18 21 | 19 17 | 20 28 | 15 05 | 16 36 | 18 06 | 19 37 |
| 12 | 358 12.5 | N 0 21.1 | 18 11.3 | 16.1 | S 2 42.9 | 11.4 | 53.9 | 66 | 18 19 | 19 11 | 20 15 | 15 12 | 16 37 | 18 03 | 19 29 |
| 13 | 13 12.7 | 22.0 | 32 46.4 | 16.2 | 2 31.5 | 11.3 | 53.9 | 64 | 18 18 | 19 06 | 20 05 | 15 17 | 16 39 | 18 01 | 19 23 |
| 14 | 28 12.9 | 23.0 | 47 21.6 | 16.2 | 2 20.2 | 11.3 | 53.9 | 62 | 18 18 | 19 02 | 19 56 | 15 22 | 16 40 | 17 58 | 19 17 |
| 15 | 43 13.0 | 24.0 | 61 56.8 | 16.2 | 2 08.9 | 11.3 | 53.9 | 60 | 18 18 | 19 02 | 19 56 | 15 22 | 16 40 | 17 58 | 19 17 |
| 16 | 58 13.2 | 25.0 | 76 32.0 | 16.2 | 1 57.6 | 11.4 | 53.9 | N 58 | 18 17 | 18 59 | 19 49 | 15 27 | 16 42 | 17 57 | 19 12 |
| 17 | 73 13.4 | 26.0 | 91 07.2 | 16.1 | 1 46.2 | 11.3 | 53.9 | 56 | 18 16 | 18 56 | 19 43 | 15 30 | 16 43 | 17 55 | 19 08 |
| 18 | 88 13.6 | N 0 27.0 | 105 42.3 | 16.2 | S 1 34.9 | 11.4 | 53.9 | 54 | 18 16 | 18 53 | 19 37 | 15 34 | 16 44 | 17 54 | 19 04 |
| 19 | 103 13.8 | 28.0 | 120 17.5 | 16.2 | 1 23.5 | 11.4 | 53.9 | 52 | 18 15 | 18 51 | 19 33 | 15 37 | 16 44 | 17 52 | 19 01 |
| 20 | 118 14.0 | 29.0 | 134 52.7 | 16.2 | 1 12.1 | 11.3 | 53.9 | 50 | 18 15 | 18 49 | 19 29 | 15 39 | 16 45 | 17 51 | 18 57 |
| 21 | 133 14.2 | 29.9 | 149 27.9 | 16.2 | 1 00.8 | 11.4 | 53.9 | 50 | 18 14 | 18 47 | 19 25 | 15 42 | 16 46 | 17 50 | 18 55 |
| 22 | 148 14.4 | 30.9 | 164 03.1 | 16.2 | 0 49.4 | 11.4 | 53.9 | 45 | 18 14 | 18 43 | 19 17 | 15 47 | 16 47 | 17 48 | 18 49 |
| 23 | 163 14.5 | 31.9 | 178 38.3 | 16.2 | 0 38.0 | 11.4 | 53.9 | N 40 | 18 13 | 18 40 | 19 12 | 15 51 | 16 49 | 17 46 | 18 43 |
| 22 00 | 178 14.7 | N 0 32.9 | 193 13.5 | 16.2 | S 0 26.6 | 11.4 | 53.9 | 35 | 18 12 | 18 38 | 19 07 | 15 55 | 16 50 | 17 44 | 18 39 |
| 01 | 193 14.9 | 33.9 | 207 48.7 | 16.2 | 0 15.2 | 11.3 | 53.9 | 30 | 18 12 | 18 36 | 19 04 | 15 59 | 16 51 | 17 43 | 18 35 |
| 02 | 208 15.1 | 34.9 | 222 23.9 | 16.2 | S 0 03.9 | 11.4 | 53.9 | 20 | 18 11 | 18 33 | 18 59 | 16 04 | 16 52 | 17 40 | 18 29 |
| 03 | 223 15.3 | 35.9 | 236 59.1 | 16.2 | N 0 07.5 | 11.4 | 53.9 | N 10 | 18 11 | 18 32 | 18 56 | 16 09 | 16 54 | 17 38 | 18 23 |
| 04 | 238 15.5 | 36.9 | 251 34.3 | 16.2 | 0 18.9 | 11.4 | 53.9 | 0 | 18 10 | 18 31 | 18 55 | 16 14 | 16 55 | 17 36 | 18 17 |
| 05 | 253 15.7 | 37.8 | 266 09.5 | 16.2 | 0 30.3 | 11.4 | 53.9 | S 10 | 18 10 | 18 31 | 18 56 | 16 19 | 16 56 | 17 34 | 18 12 |
| 06 | 268 15.8 | N 0 38.8 | 280 44.7 | 16.2 | N 0 41.7 | 11.4 | 53.9 | 20 | 18 10 | 18 32 | 18 58 | 16 24 | 16 58 | 17 32 | 18 06 |
| 07 | 283 16.0 | 39.8 | 295 19.9 | 16.2 | 0 53.1 | 11.3 | 53.9 | 30 | 18 10 | 18 34 | 19 02 | 16 29 | 16 59 | 17 29 | 18 00 |
| 08 | 298 16.2 | 40.8 | 309 55.1 | 16.1 | 1 04.4 | 11.4 | 53.9 | 35 | 18 10 | 18 35 | 19 05 | 16 32 | 17 00 | 17 28 | 17 56 |
| 09 | 313 16.4 | 41.8 | 324 30.2 | 16.2 | 1 15.8 | 11.4 | 53.9 | 40 | 18 10 | 18 37 | 19 08 | 16 36 | 17 01 | 17 26 | 17 51 |
| 10 | 328 16.6 | 42.8 | 339 05.4 | 16.1 | 1 27.2 | 11.3 | 53.9 | 45 | 18 10 | 18 39 | 19 14 | 16 40 | 17 02 | 17 24 | 17 47 |
| 11 | 343 16.8 | 43.8 | 353 40.5 | 16.2 | 1 38.5 | 11.4 | 53.9 | S 50 | 18 10 | 18 42 | 19 20 | 16 45 | 17 03 | 17 22 | 17 41 |
| 12 | 358 17.0 | N 0 44.8 | 8 15.7 | 16.1 | N 1 49.9 | 11.4 | 53.9 | 52 | 18 10 | 18 44 | 19 23 | 16 47 | 17 04 | 17 21 | 17 38 |
| 13 | 13 17.2 | 45.7 | 22 50.8 | 16.1 | 2 01.3 | 11.3 | 54.0 | 54 | 18 10 | 18 45 | 19 27 | 16 50 | 17 05 | 17 20 | 17 35 |
| 14 | 28 17.3 | 46.7 | 37 25.9 | 16.2 | 2 12.6 | 11.4 | 54.0 | 56 | 18 10 | 18 47 | 19 31 | 16 52 | 17 05 | 17 18 | 17 32 |
| 15 | 43 17.5 | 47.7 | 52 01.1 | 16.1 | 2 24.0 | 11.3 | 54.0 | 58 | 18 10 | 18 50 | 19 36 | 16 55 | 17 06 | 17 17 | 17 28 |
| 16 | 58 17.7 | 48.7 | 66 36.2 | 16.0 | 2 35.3 | 11.3 | 54.0 | S 60 | 18 10 | 18 52 | 19 42 | 16 59 | 17 07 | 17 15 | 17 24 |
| 17 | 73 17.9 | 49.7 | 81 11.2 | 16.1 | 2 46.6 | 11.3 | 54.0 | Día | SOL | | LUNA | | | | |
| 18 | 88 18.1 | N 0 50.7 | 95 46.3 | 16.1 | N 2 57.9 | 11.3 | 54.0 | | E.T. (-) | Pas. Mer. | Pas. Mer. Sup. | Mer. Inf. | Edad | Fase</ | |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +0.4 | | | JUPITER -2.5 | | | SATURNO +0.9 | | | ESTRELLAS | | | |
|--|--------|--------|------|------------|---------|----------|------------|--------|----------|--------------|--------|----------|--------------|----------|----------|-------------|------|------|----------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | A. H. S. | Dec. | | |
| 23 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 180 | 29.7 | | 167 | 47.4 | N14 20.1 | 73 | 38.4 | N25 17.0 | 349 | 58.8 | S 2 47.6 | 212 | 09.5 | S13 59.7 | Acamar | 315 | 30.1 | S40 20.1 |
| | 195 | 32.2 | | 182 | 51.0 | 19.7 | 88 | 40.0 | 16.9 | 5 | 01.5 | 47.5 | 227 | 11.7 | 59.6 | Achernar | 335 | 38.4 | S57 16.3 |
| | 210 | 34.6 | | 197 | 54.6 | 19.3 | 103 | 41.6 | 16.7 | 20 | 04.3 | 47.3 | 242 | 13.9 | 59.6 | Acruz | 173 | 25.6 | S63 03.9 |
| | 225 | 37.1 | | 212 | 58.2 | 19.0 | 118 | 43.2 | 16.6 | 35 | 07.1 | 47.2 | 257 | 16.1 | 59.5 | Adhara | 255 | 24.3 | S28 58.1 |
| | 240 | 39.6 | | 228 | 01.8 | 18.6 | 133 | 44.7 | 16.4 | 50 | 09.8 | 47.1 | 272 | 18.3 | 59.4 | Aldebaran | 291 | 06.9 | N16 29.7 |
| | 255 | 42.0 | | 243 | 05.4 | 18.2 | 148 | 46.3 | 16.3 | 65 | 12.6 | 47.0 | 287 | 20.5 | 59.3 | | | | |
| | 270 | 44.5 | | 258 | 08.9 | N14 17.8 | 163 | 47.9 | N25 16.1 | 80 | 15.3 | S 2 46.8 | 302 | 22.7 | S13 59.2 | Alioth | 166 | 33.3 | N55 59.6 |
| | 285 | 46.9 | | 273 | 12.5 | 17.5 | 178 | 49.4 | 16.0 | 95 | 18.1 | 46.7 | 317 | 24.9 | 59.1 | Alkaid | 153 | 10.3 | N49 20.5 |
| | 300 | 49.4 | | 288 | 16.1 | 17.1 | 193 | 51.0 | 15.8 | 110 | 20.8 | 46.6 | 332 | 27.2 | 59.1 | Al Na'ir | 28 | 03.0 | S46 59.5 |
| | 315 | 51.9 | | 303 | 19.7 | 16.7 | 208 | 52.6 | 15.7 | 125 | 23.6 | 46.4 | 347 | 29.4 | 59.0 | Alnilam | 276 | 01.8 | S 1 12.5 |
| | 330 | 54.3 | | 318 | 23.3 | 16.3 | 223 | 54.2 | 15.5 | 140 | 26.3 | 46.3 | 2 | 31.6 | 58.9 | Alphard | 218 | 10.7 | S 8 38.0 |
| | 345 | 56.8 | | 333 | 26.9 | 15.9 | 238 | 55.7 | 15.4 | 155 | 29.1 | 46.2 | 17 | 33.8 | 58.8 | | | | |
| | 0 | 59.3 | | 348 | 30.6 | N14 15.5 | 253 | 57.3 | N25 15.2 | 170 | 31.8 | S 2 46.1 | 32 | 36.0 | S13 58.7 | Alphecca | 126 | 23.6 | N26 44.0 |
| | 16 | 01.7 | | 3 | 34.2 | 15.1 | 268 | 58.9 | 15.0 | 185 | 34.6 | 45.9 | 47 | 38.2 | 58.6 | Alpheratz | 357 | 59.5 | N29 03.2 |
| | 31 | 04.2 | | 18 | 37.8 | 14.7 | 284 | 00.4 | 14.9 | 200 | 37.4 | 45.8 | 62 | 40.4 | 58.6 | Altair | 62 | 23.1 | N 8 50.9 |
| | 46 | 06.7 | | 33 | 41.4 | 14.3 | 299 | 02.0 | 14.7 | 215 | 40.1 | 45.7 | 77 | 42.6 | 58.5 | Ankaa | 353 | 30.9 | S42 20.6 |
| | 61 | 09.1 | | 48 | 45.0 | 13.9 | 314 | 03.6 | 14.6 | 230 | 42.9 | 45.6 | 92 | 44.8 | 58.4 | Antares | 112 | 44.7 | S26 25.1 |
| | 76 | 11.6 | | 63 | 48.6 | 13.5 | 329 | 05.1 | 14.4 | 245 | 45.6 | 45.4 | 107 | 47.0 | 58.3 | | | | |
| | 91 | 14.1 | | 78 | 52.2 | N14 13.1 | 344 | 06.7 | N25 14.3 | 260 | 48.4 | S 2 45.3 | 122 | 49.3 | S13 58.2 | Arcturus | 146 | 09.2 | N19 12.8 |
| | 106 | 16.5 | | 93 | 55.9 | 12.7 | 359 | 08.2 | 14.1 | 275 | 51.1 | 45.2 | 137 | 51.5 | 58.1 | Atria | 108 | 00.0 | S69 00.7 |
| | 121 | 19.0 | | 108 | 59.5 | 12.2 | 14 | 09.8 | 14.0 | 290 | 53.9 | 45.1 | 152 | 53.7 | 58.1 | Avior | 234 | 23.9 | S59 29.6 |
| | 136 | 21.4 | | 124 | 03.1 | 11.8 | 29 | 11.4 | 13.8 | 305 | 56.6 | 44.9 | 167 | 55.9 | 58.0 | Bellatrix | 278 | 48.3 | N 6 20.5 |
| | 151 | 23.9 | | 139 | 06.8 | 11.4 | 44 | 12.9 | 13.7 | 320 | 59.4 | 44.8 | 182 | 58.1 | 57.9 | Betelgeuse | 271 | 17.7 | N 7 24.3 |
| 166 | 26.4 | | 154 | 10.4 | 11.0 | 59 | 14.5 | 13.5 | 336 | 02.2 | 44.7 | 198 | 00.3 | 57.8 | | | | | |
| 24 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 181 | 28.8 | | 169 | 14.0 | N14 10.6 | 74 | 16.1 | N25 13.4 | 351 | 04.9 | S 2 44.5 | 213 | 02.5 | S13 57.7 | Canopus | 264 | 02.8 | S52 41.9 |
| | 196 | 31.3 | | 184 | 17.7 | 10.1 | 89 | 17.6 | 13.2 | 6 | 07.7 | 44.4 | 228 | 04.7 | 57.6 | Capella | 280 | 56.9 | N45 59.6 |
| | 211 | 33.8 | | 199 | 21.3 | 09.7 | 104 | 19.2 | 13.0 | 21 | 10.4 | 44.3 | 243 | 06.9 | 57.5 | Deneb | 49 | 42.1 | N45 15.2 |
| | 226 | 36.2 | | 214 | 24.9 | 09.3 | 119 | 20.7 | 12.9 | 36 | 13.2 | 44.2 | 258 | 09.1 | 57.4 | Denebola | 182 | 48.7 | N14 36.4 |
| | 241 | 38.7 | | 229 | 28.6 | 08.8 | 134 | 22.3 | 12.7 | 51 | 15.9 | 44.0 | 273 | 11.4 | 57.4 | Diphda | 349 | 11.3 | S18 01.5 |
| | 256 | 41.2 | | 244 | 32.2 | 08.4 | 149 | 23.8 | 12.6 | 66 | 18.7 | 43.9 | 288 | 13.6 | 57.3 | | | | |
| | 271 | 43.6 | | 259 | 35.9 | N14 07.9 | 164 | 25.4 | N25 12.4 | 81 | 21.4 | S 2 43.8 | 303 | 15.8 | S13 57.2 | Dubhe | 194 | 09.4 | N61 47.2 |
| | 286 | 46.1 | | 274 | 39.5 | 07.5 | 179 | 27.0 | 12.3 | 96 | 24.2 | 43.7 | 318 | 18.0 | 57.1 | Elnath | 278 | 31.8 | N28 36.1 |
| | 301 | 48.6 | | 289 | 43.2 | 07.1 | 194 | 28.5 | 12.1 | 111 | 27.0 | 43.5 | 333 | 20.2 | 57.0 | Eltanin | 90 | 53.1 | N51 29.1 |
| | 316 | 51.0 | | 304 | 46.8 | 06.6 | 209 | 30.1 | 12.0 | 126 | 29.7 | 43.4 | 348 | 22.4 | 56.9 | Enif | 34 | 02.2 | N 9 50.6 |
| | 331 | 53.5 | | 319 | 50.5 | 06.2 | 224 | 31.6 | 11.8 | 141 | 32.5 | 43.3 | 3 | 24.6 | 56.9 | Fomalhaut | 15 | 40.9 | S29 39.4 |
| | 346 | 55.9 | | 334 | 54.2 | 05.7 | 239 | 33.2 | 11.6 | 156 | 35.2 | 43.1 | 18 | 26.8 | 56.8 | | | | |
| | 1 | 58.4 | | 349 | 57.8 | N14 05.2 | 254 | 34.7 | N25 11.5 | 171 | 38.0 | S 2 43.0 | 33 | 29.0 | S13 56.7 | Gacrux | 172 | 17.3 | S57 04.7 |
| | 17 | 00.9 | | 5 | 01.5 | 04.8 | 269 | 36.3 | 11.3 | 186 | 40.7 | 42.9 | 48 | 31.3 | 56.6 | Gienah | 176 | 07.6 | S17 30.5 |
| | 32 | 03.3 | | 20 | 05.2 | 04.3 | 284 | 37.8 | 11.2 | 201 | 43.5 | 42.8 | 63 | 33.5 | 56.5 | Hadar | 149 | 08.9 | S60 20.5 |
| | 47 | 05.8 | | 35 | 08.8 | 03.9 | 299 | 39.4 | 11.0 | 216 | 46.3 | 42.6 | 78 | 35.7 | 56.5 | Hamal | 328 | 18.2 | N23 25.9 |
| | 62 | 08.3 | | 50 | 12.5 | 03.4 | 314 | 40.9 | 10.8 | 231 | 49.0 | 42.5 | 93 | 37.9 | 56.4 | Kaus Aust. | 84 | 03.8 | S34 23.2 |
| | 77 | 10.7 | | 65 | 16.2 | 02.9 | 329 | 42.5 | 10.7 | 246 | 51.8 | 42.4 | 108 | 40.1 | 56.3 | | | | |
| | 92 | 13.2 | | 80 | 19.9 | N14 02.4 | 344 | 44.0 | N25 10.5 | 261 | 54.5 | S 2 42.3 | 123 | 42.3 | S13 56.2 | Kochab | 137 | 18.4 | N74 10.7 |
| | 107 | 15.7 | | 95 | 23.5 | 02.0 | 359 | 45.6 | 10.4 | 276 | 57.3 | 42.1 | 138 | 44.5 | 56.1 | Markab | 13 | 53.7 | N15 10.1 |
| | 122 | 18.1 | | 110 | 27.2 | 01.5 | 14 | 47.1 | 10.2 | 292 | 00.0 | 42.0 | 153 | 46.7 | 56.0 | Menkar | 314 | 31.1 | N 4 03.7 |
| | 137 | 20.6 | | 125 | 30.9 | 01.0 | 29 | 48.7 | 10.1 | 307 | 02.8 | 41.9 | 168 | 48.9 | 56.0 | Menkent | 148 | 25.1 | S36 20.3 |
| | 152 | 23.0 | | 140 | 34.6 | 00.5 | 44 | 50.2 | 09.9 | 322 | 05.6 | 41.8 | 183 | 51.2 | 55.9 | Miaplacidus | 221 | 42.3 | S69 41.7 |
| 167 | 25.5 | | 155 | 38.3 | 14 00.0 | 59 | 51.8 | 09.7 | 337 | 08.3 | 41.6 | 198 | 53.4 | 55.8 | | | | | |
| 25 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 182 | 28.0 | | 170 | 42.0 | N13 59.6 | 74 | 53.3 | N25 09.6 | 352 | 11.1 | S 2 41.5 | 213 | 55.6 | S13 55.7 | Mirfak | 309 | 02.4 | N49 50.4 |
| | 197 | 30.4 | | 185 | 45.7 | 59.1 | 89 | 54.8 | 09.4 | 7 | 13.8 | 41.4 | 228 | 57.8 | 55.6 | Nunki | 76 | 17.1 | S26 18.3 |
| | 212 | 32.9 | | 200 | 49.3 | 58.6 | 104 | 56.4 | 09.3 | 22 | 16.6 | 41.3 | 244 | 00.0 | 55.6 | Peacock | 53 | 43.2 | S56 45.2 |
| | 227 | 35.4 | | 215 | 53.0 | 58.1 | 119 | 57.9 | 09.1 | 37 | 19.3 | 41.1 | 259 | 02.2 | 55.5 | Pollux | 243 | 46.0 | N28 02.5 |
| | 242 | 37.8 | | 230 | 56.7 | 57.6 | 134 | 59.5 | 08.9 | 52 | 22.1 | 41.0 | 274 | 04.4 | 55.4 | Procyon | 245 | 15.4 | N 5 14.4 |
| | 257 | 40.3 | | 246 | 00.4 | 57.1 | 150 | 01.0 | 08.8 | 67 | 24.9 | 40.9 | 289 | 06.6 | 55.3 | | | | |
| | 272 | 42.8 | | 261 | 04.1 | N13 56.6 | 165 | 02.6 | N25 08.6 | 82 | 27.6 | S 2 40.7 | 304 | 08.9 | S13 55.2 | Rasalhague | 96 | 20.4 | N12 33.7 |
| | 287 | 45.2 | | 276 | 07.8 | 56.1 | 180 | 04.1 | 08.5 | 97 | 30.4 | 40.6 | 319 | 11.1 | 55.1 | Regulus | 207 | 59.3 | N11 59.8 |
| | 302 | 47.7 | | 291 | 11.6 | 55.6 | 195 | 05.6 | 08.3 | 112 | 33.1 | 40.5 | 334 | 13.3 | 55.1 | Rigel | 281 | 26.7 | S 8 12.7 |
| | 317 | 50.2 | | 306 | 15.3 | 55.0 | 210 | 07.2 | 08.1 | 127 | 35.9 | 40.4 | 349 | 15.5 | 55.0 | Rigil Kent. | 140 | 11.9 | S60 48.4 |
| | 332 | 52.6 | | 321 | 19.0 | 54.5 | 225 | 08.7 | 08.0 | 142 | 38.6 | 40.2 | 4 | 17.7 | 54.9 | Sabik | 102 | 29.8 | S15 43.1 |
| | 347 | 55.1 | | 336 | 22.7 | 54.0 | 240 | 10.3 | 07.8 | 157 | 41.4 | 40.1 | 19 | 19.9 | 54.8 | | | | |
| | 2 | 57.5 | | 351 | 26.4 | N13 53.5 | 255 | 11.8 | N25 07.7 | 172 | 44.2 | S 2 40.0 | 34 | 22.1 | S13 54.7 | Schedar | 349 | 58.4 | N56 30.1 |
| | 18 | 00.0 | | 6 | 30.1 | 53.0 | 270 | 13.3 | 07.5 | 187 | 46.9 | 39.9 | 49 | 24.4 | 54.7 | Shaula | 96 | 42.4 | S37 05.9 |
| | 33 | 02.5 | | 21 | 33.8 | 52.5 | 285 | 14.9 | 07.3 | 202 | 49.7 | 39.7 | 64 | 26.6 | 54.6 | Sirius | 258 | 47.0 | S16 42.7 |
| | 48 | 04.9 | | 36 | 37.5 | 51.9 | 300 | 16.4 | 07.2 | 217 | 52.4 | 39.6 | 79 | 28.8 | 54.5 | Spica | 158 | 46.9 | S11 07.8 |
| | 63 | 07.4 | | 51 | 41.3 | 51.4 | 315 | 17.9 | 07.0 | 232 | 55.2 | 39.5 | 94 | 31.0 | 54.4 | Suhail | 223 | 03.3 | S43 24.7 |
| | 78 | 09.9 | | 66 | 45.0 | 50.9 | 330 | 19.5 | 06.9 | 247 | 58.0 | 39.4 | 109 | 33.2 | 54.3 | | | | |
| | 93 | 12.3 | | 81 | 48.7 | N13 50.3 | 345 | 21.0 | N25 06.7 | 263 | 00.7 | S 2 39.2 | 124 | 35.4 | S13 54.2 | Vega | 80 | 49.2 | N38 46.4 |
| | 108 | 14.8 | | 96 | 52.4 | 49.8 | 0 | 22.5 | 06.5 | 278 | 03.5 | 39.1 | 139 | 37.6 | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|----------------------------|----------|----------|----------|----------|------|------|------|-------|------|------------|------------|----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | P.H. | Náut. | | Civil | 23 | | 24 | 25 | 26 | | |
| M A R T E S | 23 00 | 178 19.2 | N 0 56.6 | 183 16.5 | 15.9 | N 4 | 05.6 | 11.2 | 54.0 | N 72 | 02 53 | 04 29 | 05 38 | 04 54 | 04 35 | 04 12 | 03 33 |
| | 01 | 193 19.4 | 57.6 | 197 51.4 | 16.0 | 4 | 16.8 | 11.2 | 54.0 | N 70 | 03 17 | 04 39 | 05 41 | 05 00 | 04 49 | 04 36 | 04 18 |
| | 02 | 208 19.6 | 58.6 | 212 26.4 | 15.9 | 4 | 28.0 | 11.2 | 54.0 | 68 | 03 34 | 04 47 | 05 43 | 05 06 | 05 01 | 04 55 | 04 49 |
| | 03 | 223 19.8 | 0 59.6 | 227 01.3 | 15.9 | 4 | 39.2 | 11.2 | 54.0 | 66 | 03 48 | 04 53 | 05 45 | 05 11 | 05 10 | 05 10 | 05 11 |
| | 04 | 238 20.0 | 1 00.5 | 241 36.2 | 15.9 | 4 | 50.4 | 11.2 | 54.0 | 64 | 04 00 | 04 59 | 05 47 | 05 15 | 05 18 | 05 22 | 05 29 |
| | 05 | 253 20.2 | 01.5 | 256 11.1 | 15.9 | 5 | 01.6 | 11.2 | 54.0 | 62 | 04 09 | 05 04 | 05 48 | 05 18 | 05 25 | 05 33 | 05 44 |
| | 06 | 268 20.3 | N 1 02.5 | 270 46.0 | 15.8 | N 5 | 12.8 | 11.1 | 54.0 | 60 | 04 17 | 05 08 | 05 50 | 05 21 | 05 30 | 05 42 | 05 57 |
| | 07 | 283 20.5 | 03.5 | 285 20.8 | 15.8 | 5 | 23.9 | 11.1 | 54.0 | N 58 | 04 24 | 05 12 | 05 51 | 05 24 | 05 36 | 05 50 | 06 08 |
| | 08 | 298 20.7 | 04.5 | 299 55.6 | 15.8 | 5 | 35.0 | 11.1 | 54.0 | 56 | 04 30 | 05 15 | 05 52 | 05 26 | 05 40 | 05 57 | 06 17 |
| | 09 | 313 20.9 | .. 05.5 | 314 30.4 | 15.8 | 5 | 46.1 | 11.1 | 54.0 | 54 | 04 35 | 05 17 | 05 53 | 05 28 | 05 45 | 06 03 | 06 25 |
| | 10 | 328 21.1 | 06.5 | 329 05.2 | 15.7 | 5 | 57.2 | 11.0 | 54.0 | 52 | 04 40 | 05 20 | 05 54 | 05 30 | 05 48 | 06 09 | 06 33 |
| | 11 | 343 21.3 | 07.4 | 343 39.9 | 15.8 | 6 | 08.2 | 11.1 | 54.0 | 50 | 04 44 | 05 22 | 05 54 | 05 32 | 05 52 | 06 14 | 06 40 |
| | 12 | 358 21.5 | N 1 08.4 | 358 14.7 | 15.7 | N 6 | 19.3 | 11.0 | 54.1 | 45 | 04 52 | 05 27 | 05 56 | 05 36 | 05 59 | 06 25 | 06 54 |
| | 13 | 13 21.7 | 09.4 | 12 49.4 | 15.6 | 6 | 30.3 | 10.9 | 54.1 | N 40 | 04 58 | 05 30 | 05 57 | 05 39 | 06 06 | 06 34 | 07 07 |
| | 14 | 28 21.9 | 10.4 | 27 24.0 | 15.7 | 6 | 41.2 | 11.0 | 54.1 | 35 | 05 03 | 05 33 | 05 58 | 05 42 | 06 11 | 06 42 | 07 17 |
| | 15 | 43 22.0 | .. 11.4 | 41 58.7 | 15.6 | 6 | 52.2 | 10.9 | 54.1 | 30 | 05 07 | 05 35 | 05 59 | 05 45 | 06 16 | 06 50 | 07 26 |
| | 16 | 58 22.2 | 12.4 | 56 33.3 | 15.6 | 7 | 03.1 | 11.0 | 54.1 | 20 | 05 13 | 05 39 | 06 01 | 05 49 | 06 25 | 07 02 | 07 42 |
| | 17 | 73 22.4 | 13.4 | 71 07.9 | 15.5 | 7 | 14.1 | 10.8 | 54.1 | N 10 | 05 17 | 05 41 | 06 02 | 05 53 | 06 32 | 07 13 | 07 55 |
| | 18 | 88 22.6 | N 1 14.3 | 85 42.4 | 15.6 | N 7 | 24.9 | 10.9 | 54.1 | 0 | 05 18 | 05 42 | 06 03 | 05 57 | 06 39 | 07 23 | 08 08 |
| | 19 | 103 22.8 | 15.3 | 100 17.0 | 15.5 | 7 | 35.8 | 10.8 | 54.1 | S 10 | 05 19 | 05 43 | 06 04 | 06 01 | 06 46 | 07 33 | 08 22 |
| | 20 | 118 23.0 | 16.3 | 114 51.5 | 15.4 | 7 | 46.6 | 10.8 | 54.1 | 20 | 05 17 | 05 43 | 06 05 | 06 05 | 06 54 | 07 44 | 08 36 |
| | 21 | 133 23.2 | .. 17.3 | 129 25.9 | 15.5 | 7 | 57.4 | 10.8 | 54.1 | 30 | 05 14 | 05 42 | 06 06 | 06 10 | 07 03 | 07 57 | 08 52 |
| | 22 | 148 23.4 | 18.3 | 144 00.4 | 15.4 | 8 | 08.2 | 10.8 | 54.1 | 35 | 05 12 | 05 41 | 06 06 | 06 12 | 07 08 | 08 04 | 09 01 |
| 23 | 163 23.6 | 19.3 | 158 34.8 | 15.3 | 8 | 19.0 | 10.7 | 54.1 | 40 | 05 08 | 05 40 | 06 07 | 06 16 | 07 14 | 08 12 | 09 12 | |
| 24 00 | 178 23.7 | N 1 20.2 | 173 09.1 | 15.3 | N 8 | 29.7 | 10.7 | 54.1 | 45 | 05 04 | 05 38 | 06 07 | 06 19 | 07 20 | 08 22 | 09 24 | |
| 01 | 193 23.9 | 21.2 | 187 43.4 | 15.3 | 8 | 40.4 | 10.6 | 54.1 | S 50 | 04 58 | 05 36 | 06 08 | 06 23 | 07 28 | 08 34 | 09 40 | |
| 02 | 208 24.1 | 22.2 | 202 17.7 | 15.3 | 8 | 51.0 | 10.6 | 54.2 | 52 | 04 55 | 05 35 | 06 08 | 06 25 | 07 32 | 08 40 | 09 47 | |
| 03 | 223 24.3 | .. 23.2 | 216 52.0 | 15.2 | 9 | 01.6 | 10.6 | 54.2 | 54 | 04 52 | 05 33 | 06 09 | 06 28 | 07 36 | 08 46 | 09 55 | |
| 04 | 238 24.5 | 24.2 | 231 26.2 | 15.2 | 9 | 12.2 | 10.6 | 54.2 | 56 | 04 48 | 05 32 | 06 09 | 06 30 | 07 41 | 08 53 | 10 05 | |
| 05 | 253 24.7 | 25.2 | 246 00.4 | 15.2 | 9 | 22.8 | 10.5 | 54.2 | 58 | 04 44 | 05 30 | 06 09 | 06 33 | 07 46 | 09 00 | 10 15 | |
| 06 | 268 24.9 | N 1 26.2 | 260 34.6 | 15.1 | N 9 | 33.3 | 10.5 | 54.2 | S 60 | 04 39 | 05 28 | 06 10 | 06 36 | 07 52 | 09 09 | 10 27 | |
| 07 | 283 25.0 | 27.1 | 275 08.7 | 15.1 | 9 | 43.8 | 10.4 | 54.2 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 08 | 298 25.2 | 28.1 | 289 42.8 | 15.0 | 9 | 54.2 | 10.4 | 54.2 | | Sol | Civil | Náut. | 23 | 24 | 25 | 26 | |
| 09 | 313 25.4 | .. 29.1 | 304 16.8 | 15.0 | 10 | 04.6 | 10.4 | 54.2 | N 72 | 18 37 | 19 47 | 21 25 | 19 59 | 21 51 | 24 05 | 00 05 | |
| 10 | 328 25.6 | 30.1 | 318 50.8 | 15.0 | 10 | 15.0 | 10.3 | 54.2 | N 70 | 18 34 | 19 37 | 21 00 | 19 47 | 21 29 | 23 20 | 25 37 | |
| 11 | 343 25.8 | 31.1 | 333 24.8 | 14.9 | 10 | 25.3 | 10.3 | 54.2 | 68 | 18 31 | 19 28 | 20 42 | 19 37 | 21 12 | 22 51 | 24 37 | |
| 12 | 358 26.0 | N 1 32.1 | 347 58.7 | 14.9 | N 10 | 35.6 | 10.3 | 54.2 | 66 | 18 29 | 19 21 | 20 27 | 19 29 | 20 58 | 22 29 | 24 03 | |
| 13 | 13 26.2 | 33.0 | 2 32.6 | 14.8 | 10 | 45.9 | 10.2 | 54.3 | 64 | 18 27 | 19 15 | 20 15 | 19 23 | 20 47 | 22 12 | 23 38 | |
| 14 | 28 26.4 | 34.0 | 17 06.4 | 14.8 | 10 | 56.1 | 10.2 | 54.3 | 62 | 18 26 | 19 11 | 20 06 | 19 17 | 20 37 | 21 58 | 23 19 | |
| 15 | 43 26.6 | .. 35.0 | 31 40.2 | 14.7 | 11 | 06.3 | 10.1 | 54.3 | 60 | 18 24 | 19 06 | 19 57 | 19 12 | 20 29 | 21 46 | 23 03 | |
| 16 | 58 26.7 | 36.0 | 46 13.9 | 14.7 | 11 | 16.4 | 10.1 | 54.3 | N 58 | 18 23 | 19 03 | 19 50 | 19 08 | 20 22 | 21 36 | 22 50 | |
| 17 | 73 26.9 | 37.0 | 60 47.6 | 14.7 | 11 | 26.5 | 10.0 | 54.3 | 56 | 18 22 | 18 59 | 19 44 | 19 04 | 20 15 | 21 27 | 22 38 | |
| 18 | 88 27.1 | N 1 38.0 | 75 21.3 | 14.6 | N 11 | 36.5 | 10.0 | 54.3 | 54 | 18 21 | 18 56 | 19 39 | 19 01 | 20 10 | 21 19 | 22 28 | |
| 19 | 103 27.3 | 38.9 | 89 54.9 | 14.6 | 11 | 46.5 | 10.0 | 54.3 | 52 | 18 20 | 18 54 | 19 34 | 18 57 | 20 04 | 21 12 | 22 19 | |
| 20 | 118 27.5 | 39.9 | 104 28.5 | 14.5 | 11 | 56.5 | 9.9 | 54.3 | 50 | 18 19 | 18 52 | 19 30 | 18 55 | 20 00 | 21 06 | 22 11 | |
| 21 | 133 27.7 | .. 40.9 | 119 02.0 | 14.5 | 12 | 06.4 | 9.8 | 54.3 | 45 | 18 17 | 18 47 | 19 22 | 18 49 | 19 50 | 20 52 | 21 54 | |
| 22 | 148 27.9 | 41.9 | 133 35.5 | 14.4 | 12 | 16.2 | 9.8 | 54.4 | N 40 | 18 16 | 18 43 | 19 15 | 18 43 | 19 42 | 20 41 | 21 40 | |
| 23 | 163 28.1 | 42.9 | 148 08.9 | 14.4 | 12 | 26.0 | 9.8 | 54.4 | 35 | 18 15 | 18 40 | 19 10 | 18 39 | 19 35 | 20 31 | 21 29 | |
| 25 00 | 178 28.2 | N 1 43.9 | 162 42.3 | 14.3 | N 12 | 35.8 | 9.7 | 54.4 | 30 | 18 14 | 18 38 | 19 06 | 18 35 | 19 29 | 20 23 | 21 18 | |
| 01 | 193 28.4 | 44.8 | 177 15.6 | 14.3 | 12 | 45.5 | 9.7 | 54.4 | 20 | 18 12 | 18 34 | 19 00 | 18 29 | 19 18 | 20 09 | 21 01 | |
| 02 | 208 28.6 | 45.8 | 191 48.9 | 14.3 | 12 | 55.2 | 9.6 | 54.4 | N 10 | 18 11 | 18 32 | 18 56 | 18 23 | 19 09 | 19 56 | 20 46 | |
| 03 | 223 28.8 | .. 46.8 | 206 22.2 | 14.2 | 13 | 04.8 | 9.5 | 54.4 | 0 | 18 10 | 18 30 | 18 54 | 18 17 | 19 00 | 19 44 | 20 31 | |
| 04 | 238 29.0 | 47.8 | 220 55.4 | 14.1 | 13 | 14.3 | 9.6 | 54.4 | S 10 | 18 08 | 18 29 | 18 54 | 18 12 | 18 51 | 19 33 | 20 17 | |
| 05 | 253 29.2 | 48.8 | 235 28.5 | 14.1 | 13 | 23.9 | 9.4 | 54.4 | 20 | 18 07 | 18 29 | 18 55 | 18 06 | 18 42 | 19 20 | 20 02 | |
| 06 | 268 29.4 | N 1 49.8 | 250 01.6 | 14.0 | N 13 | 33.3 | 9.4 | 54.4 | 30 | 18 06 | 18 30 | 18 58 | 18 00 | 18 32 | 19 06 | 19 45 | |
| 07 | 283 29.6 | 50.7 | 264 34.6 | 14.0 | 13 | 42.7 | 9.4 | 54.5 | 35 | 18 06 | 18 31 | 19 00 | 17 56 | 18 26 | 18 58 | 19 35 | |
| 08 | 298 29.8 | 51.7 | 279 07.6 | 14.0 | 13 | 52.1 | 9.3 | 54.5 | 40 | 18 05 | 18 32 | 19 03 | 17 51 | 18 19 | 18 49 | 19 23 | |
| 09 | 313 29.9 | .. 52.7 | 293 40.6 | 13.9 | 14 | 01.4 | 9.2 | 54.5 | 45 | 18 04 | 18 34 | 19 08 | 17 47 | 18 11 | 18 38 | 19 10 | |
| 10 | 328 30.1 | 53.7 | 308 13.5 | 13.8 | 14 | 10.6 | 9.2 | 54.5 | S 50 | 18 04 | 18 36 | 19 13 | 17 41 | 18 01 | 18 25 | 18 53 | |
| 11 | 343 30.3 | 54.7 | 322 46.3 | 13.8 | 14 | 19.8 | 9.1 | 54.5 | 52 | 18 03 | 18 37 | 19 16 | 17 38 | 17 57 | 18 19 | 18 45 | |
| 12 | 358 30.5 | N 1 55.7 | 337 19.1 | 13.7 | N 14 | 28.9 | 9.0 | 54.5 | 54 | 18 03 | 18 38 | 19 19 | 17 35 | 17 52 | 18 12 | 18 37 | |
| 13 | 13 30.7 | 56.6 | 351 51.8 | 13.7 | 14 | 37.9 | 9.0 | 54.5 | 56 | 18 02 | 18 39 | 19 23 | 17 32 | 17 47 | 18 05 | 18 27 | |
| 14 | 28 30.9 | 57.6 | 6 24.5 | 13.6 | 14 | 46.9 | 9.0 | 54.6 | 58 | 18 02 | 18 41 | 19 27 | 17 28 | 17 41 | 17 56 | 18 17 | |
| 15 | 43 31.1 | .. 58.6 | 20 57.1 | 13.6 | 14 | 55.9 | 8.9 | 54.6 | S 60 | 18 02 | 18 43 | 19 32 | 17 24 | 17 34 | 17 47 | 18 04 | |
| 16 | 58 31.3 | 1 59.6 | 35 29.7 | 13.5 | 15 | 04.8 | 8.8 | 54.6 | Día | SOL | | LUNA | | | | | |
| 17 | 73 31.5 | 2 00.6 | 50 02 | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|----------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 26 | 27 | 28 | 29 | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | h | m | h | m |
| VIERNES | 00 | 178 | 32.8 | N 2 | 07.4 | 151 | 48.2 | 13.1 | N16 | 13.5 | 8.3 | 54.7 | N 72 | 02 29 | 04 11 | 05 22 | 03 33 | □ | □ | □ |
| | 01 | 193 | 33.0 | | 08.4 | 166 | 20.3 | 13.0 | 16 | 21.8 | 8.2 | 54.7 | N 70 | 02 57 | 04 24 | 05 27 | 04 18 | 03 40 | □ | □ |
| | 02 | 208 | 33.2 | | 09.4 | 180 | 52.3 | 12.9 | 16 | 30.0 | 8.2 | 54.7 | 68 | 03 18 | 04 33 | 05 31 | 04 49 | 04 41 | 04 27 | □ |
| | 03 | 223 | 33.3 | | 10.4 | 195 | 24.2 | 12.9 | 16 | 38.2 | 8.1 | 54.7 | 66 | 03 34 | 04 41 | 05 34 | 05 11 | 05 16 | 05 28 | 05 58 |
| | 04 | 238 | 33.5 | | 11.4 | 209 | 56.1 | 12.8 | 16 | 46.3 | 8.0 | 54.8 | 64 | 03 47 | 04 48 | 05 36 | 05 29 | 05 41 | 06 02 | 06 40 |
| | 05 | 253 | 33.7 | | 12.3 | 224 | 27.9 | 12.8 | 16 | 54.3 | 7.9 | 54.8 | 62 | 03 58 | 04 54 | 05 39 | 05 44 | 06 01 | 06 27 | 07 08 |
| | 06 | 268 | 33.9 | N 2 | 13.3 | 238 | 59.7 | 12.7 | N17 | 02.2 | 7.9 | 54.8 | 60 | 04 07 | 04 59 | 05 41 | 05 57 | 06 17 | 06 47 | 07 30 |
| | 07 | 283 | 34.1 | | 14.3 | 253 | 31.4 | 12.7 | 17 | 10.1 | 7.8 | 54.8 | N 58 | 04 15 | 05 03 | 05 42 | 06 08 | 06 31 | 07 04 | 07 48 |
| | 08 | 298 | 34.3 | | 15.3 | 268 | 03.1 | 12.6 | 17 | 17.9 | 7.7 | 54.8 | 56 | 04 21 | 05 06 | 05 44 | 06 17 | 06 43 | 07 17 | 08 03 |
| | 09 | 313 | 34.5 | | 16.3 | 282 | 34.7 | 12.5 | 17 | 25.6 | 7.6 | 54.8 | 54 | 04 27 | 05 10 | 05 45 | 06 25 | 06 53 | 07 30 | 08 16 |
| | 10 | 328 | 34.7 | | 17.3 | 297 | 06.2 | 12.5 | 17 | 33.2 | 7.6 | 54.9 | 52 | 04 32 | 05 13 | 05 47 | 06 33 | 07 03 | 07 40 | 08 27 |
| | 11 | 343 | 34.9 | | 18.2 | 311 | 37.7 | 12.4 | 17 | 40.8 | 7.5 | 54.9 | 50 | 04 37 | 05 15 | 05 48 | 06 40 | 07 11 | 07 50 | 08 38 |
| | 12 | 358 | 35.0 | N 2 | 19.2 | 326 | 09.1 | 12.4 | N17 | 48.3 | 7.4 | 54.9 | 45 | 04 46 | 05 21 | 05 50 | 06 54 | 07 29 | 08 10 | 08 59 |
| | 13 | 13 | 35.2 | | 20.2 | 340 | 40.5 | 12.3 | 17 | 55.7 | 7.3 | 54.9 | N 40 | 04 53 | 05 25 | 05 52 | 07 07 | 07 43 | 08 26 | 09 16 |
| | 14 | 28 | 35.4 | | 21.2 | 355 | 11.8 | 12.2 | 18 | 03.0 | 7.3 | 54.9 | 35 | 04 59 | 05 29 | 05 54 | 07 17 | 07 56 | 08 40 | 09 30 |
| | 15 | 43 | 35.6 | | 22.2 | 9 | 43.0 | 12.2 | 18 | 10.3 | 7.1 | 54.9 | 30 | 05 04 | 05 32 | 05 56 | 07 26 | 08 07 | 08 52 | 09 43 |
| | 16 | 58 | 35.8 | | 23.1 | 24 | 14.2 | 12.1 | 18 | 17.4 | 7.1 | 55.0 | 20 | 05 10 | 05 36 | 05 58 | 07 42 | 08 25 | 09 13 | 10 04 |
| | 17 | 73 | 36.0 | | 24.1 | 38 | 45.3 | 12.0 | 18 | 24.5 | 7.0 | 55.0 | N 10 | 05 15 | 05 39 | 06 00 | 07 55 | 08 41 | 09 31 | 10 23 |
| | 18 | 88 | 36.2 | N 2 | 25.1 | 53 | 16.3 | 12.0 | N18 | 31.5 | 7.0 | 55.0 | 0 | 05 17 | 05 41 | 06 02 | 08 08 | 08 57 | 09 47 | 10 40 |
| | 19 | 103 | 36.4 | | 26.1 | 67 | 47.3 | 12.0 | 18 | 38.5 | 6.8 | 55.0 | S 10 | 05 19 | 05 43 | 06 04 | 08 22 | 09 12 | 10 04 | 10 58 |
| | 20 | 118 | 36.6 | | 27.1 | 82 | 18.3 | 11.8 | 18 | 45.3 | 6.8 | 55.0 | 20 | 05 18 | 05 44 | 06 06 | 08 36 | 09 28 | 10 22 | 11 16 |
| | 21 | 133 | 36.7 | | 28.0 | 96 | 49.1 | 11.8 | 18 | 52.1 | 6.6 | 55.0 | 30 | 05 16 | 05 44 | 06 08 | 08 52 | 09 47 | 10 43 | 11 38 |
| | 22 | 148 | 36.9 | | 29.0 | 111 | 19.9 | 11.8 | 18 | 58.7 | 6.6 | 55.1 | 35 | 05 14 | 05 43 | 06 09 | 09 01 | 09 59 | 10 56 | 11 51 |
| 23 | 163 | 37.1 | | 30.0 | 125 | 50.7 | 11.7 | 19 | 05.3 | 6.5 | 55.1 | 40 | 05 11 | 05 43 | 06 10 | 09 12 | 10 11 | 11 10 | 12 05 | |
| 24 | | | | | | | | | | | | 45 | 05 08 | 05 42 | 06 11 | 09 24 | 10 26 | 11 26 | 12 22 | |
| SABADO | 27 | 178 | 37.3 | N 2 | 31.0 | 140 | 21.4 | 11.6 | N19 | 11.8 | 6.4 | 55.1 | S 50 | 05 03 | 05 41 | 06 13 | 09 40 | 10 45 | 11 47 | 12 44 |
| | 01 | 193 | 37.5 | | 31.9 | 154 | 52.0 | 11.6 | 19 | 18.2 | 6.3 | 55.1 | 52 | 05 00 | 05 40 | 06 13 | 09 47 | 10 54 | 11 57 | 12 54 |
| | 02 | 208 | 37.7 | | 32.9 | 169 | 22.6 | 11.5 | 19 | 24.5 | 6.3 | 55.1 | 54 | 04 58 | 05 39 | 06 14 | 09 55 | 11 04 | 12 08 | 13 06 |
| | 03 | 223 | 37.9 | | 33.9 | 183 | 53.1 | 11.4 | 19 | 30.8 | 6.1 | 55.2 | 56 | 04 54 | 05 38 | 06 15 | 10 05 | 11 15 | 12 21 | 13 19 |
| | 04 | 238 | 38.1 | | 34.9 | 198 | 23.5 | 11.4 | 19 | 36.9 | 6.1 | 55.2 | 58 | 04 51 | 05 37 | 06 16 | 10 15 | 11 28 | 12 36 | 13 34 |
| | 05 | 253 | 38.3 | | 35.9 | 212 | 53.9 | 11.3 | 19 | 43.0 | 5.9 | 55.2 | S 60 | 04 46 | 05 35 | 06 17 | 10 27 | 11 43 | 12 53 | 13 52 |
| | 06 | 268 | 38.4 | N 2 | 36.8 | 227 | 24.2 | 11.3 | N19 | 48.9 | 5.9 | 55.2 | | | | | | | | |
| | 07 | 283 | 38.6 | | 37.8 | 241 | 54.5 | 11.2 | 19 | 54.8 | 5.7 | 55.2 | | | | | | | | |
| | 08 | 298 | 38.8 | | 38.8 | 256 | 24.7 | 11.2 | 20 | 00.5 | 5.7 | 55.3 | | | | | | | | |
| | 09 | 313 | 39.0 | | 39.8 | 270 | 54.9 | 11.0 | 20 | 06.2 | 5.6 | 55.3 | | | | | | | | |
| | 10 | 328 | 39.2 | | 40.8 | 285 | 24.9 | 11.1 | 20 | 11.8 | 5.5 | 55.3 | | | | | | | | |
| | 11 | 343 | 39.4 | | 41.7 | 299 | 55.0 | 10.9 | 20 | 17.3 | 5.4 | 55.3 | | | | | | | | |
| | 12 | 358 | 39.6 | N 2 | 42.7 | 314 | 24.9 | 10.9 | N20 | 22.7 | 5.3 | 55.3 | | | | | | | | |
| | 13 | 13 | 39.8 | | 43.7 | 328 | 54.8 | 10.9 | 20 | 28.0 | 5.2 | 55.4 | | | | | | | | |
| | 14 | 28 | 40.0 | | 44.7 | 343 | 24.7 | 10.8 | 20 | 33.2 | 5.1 | 55.4 | | | | | | | | |
| | 15 | 43 | 40.1 | | 45.6 | 357 | 54.5 | 10.7 | 20 | 38.3 | 5.0 | 55.4 | | | | | | | | |
| | 16 | 58 | 40.3 | | 46.6 | 12 | 24.2 | 10.7 | 20 | 43.3 | 4.9 | 55.4 | | | | | | | | |
| | 17 | 73 | 40.5 | | 47.6 | 26 | 53.9 | 10.6 | 20 | 48.2 | 4.8 | 55.4 | | | | | | | | |
| | 18 | 88 | 40.7 | N 2 | 48.6 | 41 | 23.5 | 10.5 | N20 | 53.0 | 4.7 | 55.5 | | | | | | | | |
| | 19 | 103 | 40.9 | | 49.6 | 55 | 53.0 | 10.5 | 20 | 57.7 | 4.5 | 55.5 | | | | | | | | |
| | 20 | 118 | 41.1 | | 50.5 | 70 | 22.5 | 10.5 | 21 | 02.2 | 4.5 | 55.5 | | | | | | | | |
| | 21 | 133 | 41.3 | | 51.5 | 84 | 52.0 | 10.4 | 21 | 06.7 | 4.4 | 55.5 | | | | | | | | |
| | 22 | 148 | 41.5 | | 52.5 | 99 | 21.4 | 10.3 | 21 | 11.1 | 4.3 | 55.6 | | | | | | | | |
| 23 | 163 | 41.7 | | 53.5 | 113 | 50.7 | 10.3 | 21 | 15.4 | 4.2 | 55.6 | | | | | | | | | |
| DOMINGO | 28 | 178 | 41.8 | N 2 | 54.4 | 128 | 20.0 | 10.2 | N21 | 19.6 | 4.0 | 55.6 | | | | | | | | |
| | 01 | 193 | 42.0 | | 55.4 | 142 | 49.2 | 10.1 | 21 | 23.6 | 4.0 | 55.6 | | | | | | | | |
| | 02 | 208 | 42.2 | | 56.4 | 157 | 18.3 | 10.1 | 21 | 27.6 | 3.9 | 55.6 | | | | | | | | |
| | 03 | 223 | 42.4 | | 57.4 | 171 | 47.4 | 10.1 | 21 | 31.5 | 3.7 | 55.7 | | | | | | | | |
| | 04 | 238 | 42.6 | | 58.4 | 186 | 16.5 | 10.0 | 21 | 35.2 | 3.6 | 55.7 | | | | | | | | |
| | 05 | 253 | 42.8 | | 59.3 | 200 | 45.5 | 9.9 | 21 | 38.8 | 3.6 | 55.7 | | | | | | | | |
| | 06 | 268 | 43.0 | N 3 | 00.3 | 215 | 14.4 | 9.9 | N21 | 42.4 | 3.4 | 55.7 | | | | | | | | |
| | 07 | 283 | 43.2 | | 01.3 | 229 | 43.3 | 9.9 | 21 | 45.8 | 3.3 | 55.8 | | | | | | | | |
| | 08 | 298 | 43.4 | | 02.3 | 244 | 12.2 | 9.7 | 21 | 49.1 | 3.2 | 55.8 | | | | | | | | |
| | 09 | 313 | 43.5 | | 03.2 | 258 | 40.9 | 9.8 | 21 | 52.3 | 3.1 | 55.8 | | | | | | | | |
| | 10 | 328 | 43.7 | | 04.2 | 273 | 09.7 | 9.7 | 21 | 55.4 | 3.0 | 55.8 | | | | | | | | |
| | 11 | 343 | 43.9 | | 05.2 | 287 | 38.4 | 9.6 | 21 | 58.4 | 2.8 | 55.9 | | | | | | | | |
| | 12 | 358 | 44.1 | N 3 | 06.2 | 302 | 07.0 | 9.6 | N22 | 01.2 | 2.8 | 55.9 | | | | | | | | |
| | 13 | 13 | 44.3 | | 07.1 | 316 | 35.6 | 9.5 | 22 | 04.0 | 2.6 | 55.9 | | | | | | | | |
| | 14 | 28 | 44.5 | | 08.1 | 331 | 04.1 | 9.5 | 22 | 06.6 | 2.5 | 55.9 | | | | | | | | |
| | 15 | 43 | 44.7 | | 09.1 | 345 | 32.6 | 9.4 | 22 | 09.1 | 2.4 | 56.0 | | | | | | | | |
| | 16 | 58 | 44.9 | | 10.1 | 0 | 01.0 | 9.4 | 22 | 11.5 | 2.3 | 56.0 | | | | | | | | |
| | 17 | 73 | 45.1 | | 11.0 | 14 | 29.4 | 9.3 | 22 | 13.8 | 2.2 | 56.0 | | | | | | | | |
| | 18 | 88 | 45.2 | N 3 | 12.0 | 28 | 57.7 | 9.3 | N22 | 16.0 | 2.0 | 56.0 | | | | | | | | |
| | 19 | 103 | 45.4 | | 1 | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.1 | | | MARTE +0.6 | | | JUPITER -2.5 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|--|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 29 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 186 24.5 | 176 43.7 | N13 01.4 | 77 18.8 | N24 53.7 | 356 35.9 | S 2 29.3 | 217 28.4 | S13 48.0 | Acamar | 315 30.1 | S40 20.1 | | | | | | |
| | 201 27.0 | 191 47.5 | 00.7 | 92 20.3 | 53.5 | 11 38.7 | 29.2 | 232 30.6 | 47.9 | Achernar | 335 38.4 | S57 16.3 | | | | | | |
| | 216 29.5 | 206 51.3 | 13 00.0 | 107 21.8 | 53.3 | 26 41.5 | 29.1 | 247 32.8 | 47.8 | Acru | 173 25.6 | S63 03.9 | | | | | | |
| | 231 31.9 | 221 55.1 | 12 59.3 | 122 23.2 | 53.2 | 41 44.2 | 29.0 | 262 35.0 | 47.7 | Adhara | 255 24.4 | S28 58.1 | | | | | | |
| | 246 34.4 | 236 59.0 | 58.6 | 137 24.7 | 53.0 | 56 47.0 | 28.8 | 277 37.3 | 47.7 | Aldebaran | 291 06.9 | N16 29.7 | | | | | | |
| | 261 36.9 | 252 02.8 | 57.9 | 152 26.2 | 52.8 | 71 49.7 | 28.7 | 292 39.5 | 47.6 | | | | | | | | | |
| | 276 39.3 | 267 06.6 | N12 57.1 | 167 27.7 | N24 52.7 | 86 52.5 | S 2 28.6 | 307 41.7 | S13 47.5 | Alioth | 166 33.3 | N55 59.6 | | | | | | |
| | 291 41.8 | 282 10.4 | 56.4 | 182 29.2 | 52.5 | 101 55.3 | 28.4 | 322 43.9 | 47.4 | Alkaid | 153 10.3 | N49 20.6 | | | | | | |
| | 306 44.2 | 297 14.3 | 55.7 | 197 30.7 | 52.3 | 116 58.0 | 28.3 | 337 46.1 | 47.3 | Al Na'ir | 28 02.9 | S46 59.5 | | | | | | |
| | 321 46.7 | 312 18.1 | 54.9 | 212 32.1 | 52.1 | 132 00.8 | 28.2 | 352 48.4 | 47.3 | Alnilam | 276 01.8 | S 1 12.5 | | | | | | |
| | 336 49.2 | 327 21.9 | 54.2 | 227 33.6 | 52.0 | 147 03.6 | 28.1 | 7 50.6 | 47.2 | Alphard | 218 10.7 | S 8 38.0 | | | | | | |
| | 351 51.6 | 342 25.7 | 53.5 | 242 35.1 | 51.8 | 162 06.3 | 27.9 | 22 52.8 | 47.1 | | | | | | | | | |
| | 6 54.1 | 357 29.6 | N12 52.7 | 257 36.6 | N24 51.6 | 177 09.1 | S 2 27.8 | 37 55.0 | S13 47.0 | Alphecca | 126 23.5 | N26 44.0 | | | | | | |
| | 21 56.6 | 12 33.4 | 52.0 | 272 38.1 | 51.4 | 192 11.8 | 27.7 | 52 57.2 | 46.9 | Alpheratz | 357 59.5 | N29 03.2 | | | | | | |
| | 36 59.0 | 27 37.2 | 51.3 | 287 39.6 | 51.3 | 207 14.6 | 27.6 | 67 59.5 | 46.9 | Altair | 62 23.0 | N 8 50.9 | | | | | | |
| | 52 01.5 | 42 41.1 | 50.5 | 302 41.0 | 51.1 | 222 17.4 | 27.4 | 83 01.7 | 46.8 | Ankaa | 353 30.9 | S42 20.5 | | | | | | |
| | 67 04.0 | 57 44.9 | 49.8 | 317 42.5 | 50.9 | 237 20.1 | 27.3 | 98 03.9 | 46.7 | Antares | 112 44.6 | S26 25.1 | | | | | | |
| | 82 06.4 | 72 48.7 | 49.0 | 332 44.0 | 50.7 | 252 22.9 | 27.2 | 113 06.1 | 46.6 | | | | | | | | | |
| | 97 08.9 | 87 52.6 | N12 48.3 | 347 45.5 | N24 50.6 | 267 25.6 | S 2 27.0 | 128 08.4 | S13 46.5 | Arcturus | 146 09.2 | N19 12.8 | | | | | | |
| | 112 11.4 | 102 56.4 | 47.5 | 2 46.9 | 50.4 | 282 28.4 | 26.9 | 143 10.6 | 46.5 | Atria | 107 59.8 | S69 00.8 | | | | | | |
| | 127 13.8 | 118 00.2 | 46.8 | 17 48.4 | 50.2 | 297 31.2 | 26.8 | 158 12.8 | 46.4 | Avior | 234 24.0 | S59 29.7 | | | | | | |
| | 142 16.3 | 133 04.1 | 46.0 | 32 49.9 | 50.0 | 312 33.9 | 26.7 | 173 15.0 | 46.3 | Bellatrix | 278 48.3 | N 6 20.5 | | | | | | |
| | 157 18.7 | 148 07.9 | 45.3 | 47 51.4 | 49.9 | 327 36.7 | 26.5 | 188 17.2 | 46.2 | Betelgeuse | 271 17.7 | N 7 24.3 | | | | | | |
| 172 21.2 | 163 11.7 | 44.5 | 62 52.8 | 49.7 | 342 39.4 | 26.4 | 203 19.5 | 46.2 | | | | | | | | | | |
| 30 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 187 23.7 | 178 15.6 | N12 43.7 | 77 54.3 | N24 49.5 | 357 42.2 | S 2 26.3 | 218 21.7 | S13 46.1 | Canopus | 264 02.9 | S52 41.9 | | | | | | |
| | 202 26.1 | 193 19.4 | 43.0 | 92 55.8 | 49.3 | 12 45.0 | 26.2 | 233 23.9 | 46.0 | Capella | 280 57.0 | N45 59.6 | | | | | | |
| | 217 28.6 | 208 23.2 | 42.2 | 107 57.3 | 49.2 | 27 47.7 | 26.0 | 248 26.1 | 45.9 | Deneb | 49 42.0 | N45 15.2 | | | | | | |
| | 232 31.1 | 223 27.1 | 41.5 | 122 58.7 | 49.0 | 42 50.5 | 25.9 | 263 28.4 | 45.8 | Denebola | 182 48.7 | N14 36.4 | | | | | | |
| | 247 33.5 | 238 30.9 | 40.7 | 138 00.2 | 48.8 | 57 53.2 | 25.8 | 278 30.6 | 45.8 | Diphda | 349 11.3 | S18 01.4 | | | | | | |
| | 262 36.0 | 253 34.7 | 39.9 | 153 01.7 | 48.6 | 72 56.0 | 25.7 | 293 32.8 | 45.7 | | | | | | | | | |
| | 277 38.5 | 268 38.6 | N12 39.1 | 168 03.2 | N24 48.5 | 87 58.8 | S 2 25.5 | 308 35.0 | S13 45.6 | Dubhe | 194 09.4 | N61 47.2 | | | | | | |
| | 292 40.9 | 283 42.4 | 38.4 | 183 04.6 | 48.3 | 103 01.5 | 25.4 | 323 37.3 | 45.5 | Elnath | 278 31.8 | N28 36.1 | | | | | | |
| | 307 43.4 | 298 46.2 | 37.6 | 198 06.1 | 48.1 | 118 04.3 | 25.3 | 338 39.5 | 45.4 | Eltanin | 90 53.1 | N51 29.1 | | | | | | |
| | 322 45.8 | 313 50.1 | 36.8 | 213 07.6 | 47.9 | 133 07.0 | 25.1 | 353 41.7 | 45.4 | Enif | 34 02.2 | N 9 50.6 | | | | | | |
| | 337 48.3 | 328 53.9 | 36.0 | 228 09.0 | 47.7 | 148 09.8 | 25.0 | 8 43.9 | 45.3 | Fomalhaut | 15 40.9 | S29 39.4 | | | | | | |
| | 352 50.8 | 343 57.7 | 35.3 | 243 10.5 | 47.6 | 163 12.6 | 24.9 | 23 46.1 | 45.2 | | | | | | | | | |
| | 7 53.2 | 359 01.6 | N12 34.5 | 258 12.0 | N24 47.4 | 178 15.3 | S 2 24.8 | 38 48.4 | S13 45.1 | Gacrux | 172 17.3 | S57 04.7 | | | | | | |
| | 22 55.7 | 14 05.4 | 33.7 | 273 13.4 | 47.2 | 193 18.1 | 24.6 | 53 50.6 | 45.1 | Gienah | 176 07.5 | S17 30.5 | | | | | | |
| | 37 58.2 | 29 09.2 | 32.9 | 288 14.9 | 47.0 | 208 20.8 | 24.5 | 68 52.8 | 45.0 | Hadar | 149 08.9 | S60 20.5 | | | | | | |
| | 53 00.6 | 44 13.1 | 32.1 | 303 16.4 | 46.9 | 223 23.6 | 24.4 | 83 55.0 | 44.9 | Hamal | 328 18.2 | N23 25.8 | | | | | | |
| | 68 03.1 | 59 16.9 | 31.3 | 318 17.8 | 46.7 | 238 26.4 | 24.3 | 98 57.3 | 44.8 | Kaus Aust. | 84 03.8 | S34 23.2 | | | | | | |
| | 83 05.6 | 74 20.8 | 30.5 | 333 19.3 | 46.5 | 253 29.1 | 24.1 | 113 59.5 | 44.7 | | | | | | | | | |
| | 98 08.0 | 89 24.6 | N12 29.7 | 348 20.8 | N24 46.3 | 268 31.9 | S 2 24.0 | 129 01.7 | S13 44.7 | Kochab | 137 18.3 | N74 10.7 | | | | | | |
| | 113 10.5 | 104 28.4 | 28.9 | 3 22.2 | 46.1 | 283 34.7 | 23.9 | 144 03.9 | 44.6 | Markab | 13 53.7 | N15 10.1 | | | | | | |
| | 128 13.0 | 119 32.3 | 28.1 | 18 23.7 | 46.0 | 298 37.4 | 23.8 | 159 06.2 | 44.5 | Menkar | 314 31.1 | N 4 03.7 | | | | | | |
| | 143 15.4 | 134 36.1 | 27.3 | 33 25.2 | 45.8 | 313 40.2 | 23.6 | 174 08.4 | 44.4 | Menkent | 148 25.1 | S36 20.3 | | | | | | |
| | 158 17.9 | 149 39.9 | 26.5 | 48 26.6 | 45.6 | 328 42.9 | 23.5 | 189 10.6 | 44.3 | Miaplacidus | 221 42.4 | S69 41.7 | | | | | | |
| 173 20.3 | 164 43.8 | 25.7 | 63 28.1 | 45.4 | 343 45.7 | 23.4 | 204 12.8 | 44.3 | | | | | | | | | | |
| 31 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 188 22.8 | 179 47.6 | N12 24.9 | 78 29.5 | N24 45.2 | 358 48.5 | S 2 23.2 | 219 15.1 | S13 44.2 | Mirfak | 309 02.4 | N49 50.4 | | | | | | |
| | 203 25.3 | 194 51.4 | 24.1 | 93 31.0 | 45.1 | 13 51.2 | 23.1 | 234 17.3 | 44.1 | Nunki | 76 17.0 | S26 18.3 | | | | | | |
| | 218 27.7 | 209 55.3 | 23.3 | 108 32.5 | 44.9 | 28 54.0 | 23.0 | 249 19.5 | 44.0 | Peacock | 53 43.1 | S56 45.2 | | | | | | |
| | 233 30.2 | 224 59.1 | 22.5 | 123 33.9 | 44.7 | 43 56.7 | 22.9 | 264 21.7 | 44.0 | Pollux | 243 46.1 | N28 02.5 | | | | | | |
| | 248 32.7 | 240 02.9 | 21.7 | 138 35.4 | 44.5 | 58 59.5 | 22.7 | 279 24.0 | 43.9 | Procyon | 245 15.4 | N 5 14.4 | | | | | | |
| | 263 35.1 | 255 06.8 | 20.9 | 153 36.8 | 44.3 | 74 02.3 | 22.6 | 294 26.2 | 43.8 | | | | | | | | | |
| | 278 37.6 | 270 10.6 | N12 20.1 | 168 38.3 | N24 44.2 | 89 05.0 | S 2 22.5 | 309 28.4 | S13 43.7 | Rasalhague | 96 20.4 | N12 33.7 | | | | | | |
| | 293 40.1 | 285 14.4 | 19.3 | 183 39.8 | 44.0 | 104 07.8 | 22.4 | 324 30.6 | 43.6 | Regulus | 207 59.3 | N11 59.8 | | | | | | |
| | 308 42.5 | 300 18.3 | 18.5 | 198 41.2 | 43.8 | 119 10.5 | 22.2 | 339 32.9 | 43.6 | Rigel | 281 26.7 | S 8 12.7 | | | | | | |
| | 323 45.0 | 315 22.1 | 17.6 | 213 42.7 | 43.6 | 134 13.3 | 22.1 | 354 35.1 | 43.5 | Rigil Kent. | 140 11.8 | S60 48.4 | | | | | | |
| | 338 47.5 | 330 25.9 | 16.8 | 228 44.1 | 43.4 | 149 16.1 | 22.0 | 9 37.3 | 43.4 | Sabik | 102 29.7 | S15 43.1 | | | | | | |
| | 353 49.9 | 345 29.8 | 16.0 | 243 45.6 | 43.3 | 164 18.8 | 21.9 | 24 39.5 | 43.3 | | | | | | | | | |
| | 8 52.4 | 0 33.6 | N12 15.2 | 258 47.0 | N24 43.1 | 179 21.6 | S 2 21.7 | 39 41.8 | S13 43.3 | Schedar | 349 58.4 | N56 30.1 | | | | | | |
| | 23 54.8 | 15 37.4 | 14.3 | 273 48.5 | 42.9 | 194 24.3 | 21.6 | 54 44.0 | 43.2 | Shaula | 96 42.3 | S37 05.9 | | | | | | |
| | 38 57.3 | 30 41.3 | 13.5 | 288 49.9 | 42.7 | 209 27.1 | 21.5 | 69 46.2 | 43.1 | Sirius | 258 47.0 | S16 42.7 | | | | | | |
| | 53 59.8 | 45 45.1 | 12.7 | 303 51.4 | 42.5 | 224 29.9 | 21.3 | 84 48.5 | 43.0 | Spica | 158 46.9 | S11 07.8 | | | | | | |
| | 69 02.2 | 60 48.9 | 11.9 | 318 52.8 | 42.4 | 239 32.6 | 21.2 | 99 50.7 | 42.9 | Suhail | 223 03.3 | S43 24.7 | | | | | | |
| | 84 04.7 | 75 52.8 | 11.0 | 333 54.3 | 42.2 | 254 35.4 | 21.1 | 114 52.9 | 42.9 | | | | | | | | | |
| | 99 07.2 | 90 56.6 | N12 10.2 | 348 55.7 | N24 42.0 | 269 38.1 | S 2 21.0 | 129 55.1 | S13 42.8 | Vega | 80 49.2 | N38 46.4 | | | | | | |
| | 114 09.6 | 106 00.4 | 09.4 | 3 57.2 | 41.8 | 284 40.9 | 20.8 | 144 57.4 | 42.7 | Zuben'ubi | 137 21.9 | S16 01.0 | | | | | | |
| | 129 12.1 | 121 04.3 | 08.5 | 18 58.7 | 41.6 | 299 43.7 | 20.7 | 159 59.6 | 42.6 | | | | | | | | | |
| | 144 14.6 | 136 08.1 | 07.7 | 34 00.1 | 41.4 | 314 46.4 | 20.6 | 175 01.8 | 42.6 | | | | | | | | | |
| | 159 17.0 | 151 11.9 | 06.8 | 49 01.6 | 41.3 | 329 49.2 | 20.5 | 190 04.0 | 42.5 | | | | | | | | | |
| 174 19.5 | 166 15.8 | 06.0 | 64 03.0 | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|-------------------|----------|----------|----------|----------|------|------------|-----------|------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 29 | 30 | 31 | 1 | |
| | | | | | | | | | | | | h m | h m | h m | h m | |
| LUNES | 00 | 178 46.4 N 3 17.9 | 115 46.8 | 9.1 | N22 26.5 | 1.3 | 56.2 | N 72 | 02 01 | 03 54 | 05 07 | □ | □ | □ | 08 15 | |
| | 01 | 193 46.6 | 18.8 | 130 14.9 | 8.9 | 22 27.8 | 1.2 | 56.2 | N 70 | 02 36 | 04 08 | 05 13 | □ | □ | □ | 09 22 |
| | 02 | 208 46.8 | 19.8 | 144 42.8 | 9.0 | 22 29.0 | 1.1 | 56.3 | 68 | 03 01 | 04 20 | 05 18 | □ | □ | 07 53 | 09 58 |
| | 03 | 223 46.9 | 20.8 | 159 10.8 | 8.9 | 22 30.1 | 1.0 | 56.3 | 66 | 03 20 | 04 29 | 05 22 | 05 58 | 07 03 | 08 37 | 10 23 |
| | 04 | 238 47.1 | 21.8 | 173 38.7 | 8.9 | 22 31.1 | 0.8 | 56.3 | 64 | 03 34 | 04 37 | 05 26 | 06 40 | 07 42 | 09 06 | 10 43 |
| | 05 | 253 47.3 | 22.7 | 188 06.6 | 8.8 | 22 31.9 | 0.8 | 56.3 | 62 | 03 46 | 04 43 | 05 29 | 07 08 | 08 09 | 09 28 | 10 58 |
| | 06 | 268 47.5 | N 3 23.7 | 202 34.4 | 8.8 | N22 32.7 | 0.6 | 56.4 | 60 | 03 56 | 04 49 | 05 32 | 07 30 | 08 30 | 09 45 | 11 12 |
| | 07 | 283 47.7 | 24.7 | 217 02.2 | 8.7 | 22 33.3 | 0.4 | 56.4 | N 58 | 04 05 | 04 54 | 05 34 | 07 48 | 08 47 | 10 00 | 11 23 |
| | 08 | 298 47.9 | 25.7 | 231 29.9 | 8.8 | 22 33.7 | 0.4 | 56.4 | 56 | 04 12 | 04 58 | 05 36 | 08 03 | 09 02 | 10 13 | 11 33 |
| | 09 | 313 48.1 | 26.6 | 245 57.7 | 8.6 | 22 34.1 | 0.2 | 56.5 | 54 | 04 19 | 05 02 | 05 38 | 08 16 | 09 14 | 10 24 | 11 41 |
| | 10 | 328 48.3 | 27.6 | 260 25.3 | 8.7 | 22 34.3 | 0.1 | 56.5 | 52 | 04 25 | 05 06 | 05 40 | 08 27 | 09 25 | 10 33 | 11 49 |
| | 11 | 343 48.5 | 28.6 | 274 53.0 | 8.6 | 22 34.4 | 0.0 | 56.5 | 50 | 04 30 | 05 09 | 05 41 | 08 38 | 09 35 | 10 42 | 11 56 |
| | 12 | 358 48.6 | N 3 29.5 | 289 20.6 | 8.6 | N22 34.4 | 0.1 | 56.5 | 45 | 04 40 | 05 15 | 05 45 | 08 59 | 09 56 | 11 00 | 12 11 |
| | 13 | 13 48.8 | 30.5 | 303 48.2 | 8.5 | 22 34.3 | 0.3 | 56.6 | N 40 | 04 48 | 05 20 | 05 47 | 09 16 | 10 12 | 11 15 | 12 23 |
| | 14 | 28 49.0 | 31.5 | 318 15.7 | 8.5 | 22 34.0 | 0.4 | 56.6 | 35 | 04 55 | 05 24 | 05 50 | 09 30 | 10 27 | 11 28 | 12 34 |
| | 15 | 43 49.2 | 32.5 | 332 43.2 | 8.5 | 22 33.6 | 0.5 | 56.6 | 30 | 05 00 | 05 28 | 05 52 | 09 43 | 10 39 | 11 39 | 12 43 |
| | 16 | 58 49.4 | 33.4 | 347 10.7 | 8.5 | 22 33.1 | 0.7 | 56.7 | 20 | 05 08 | 05 33 | 05 55 | 10 04 | 11 00 | 11 58 | 12 58 |
| | 17 | 73 49.6 | 34.4 | 1 38.2 | 8.4 | 22 32.4 | 0.8 | 56.7 | N 10 | 05 13 | 05 37 | 05 58 | 10 23 | 11 18 | 12 14 | 13 12 |
| | 18 | 88 49.8 | N 3 35.4 | 16 05.6 | 8.4 | N22 31.6 | 0.9 | 56.7 | 0 | 05 16 | 05 40 | 06 01 | 10 40 | 11 35 | 12 30 | 13 24 |
| | 19 | 103 50.0 | 36.4 | 30 33.0 | 8.4 | 22 30.7 | 1.0 | 56.7 | S 10 | 05 18 | 05 43 | 06 04 | 10 58 | 11 52 | 12 45 | 13 37 |
| | 20 | 118 50.1 | 37.3 | 45 00.4 | 8.3 | 22 29.7 | 1.2 | 56.8 | 20 | 05 19 | 05 44 | 06 07 | 11 16 | 12 10 | 13 01 | 13 50 |
| | 21 | 133 50.3 | 38.3 | 59 27.7 | 8.3 | 22 28.5 | 1.3 | 56.8 | 30 | 05 18 | 05 46 | 06 09 | 11 38 | 12 30 | 13 20 | 14 06 |
| | 22 | 148 50.5 | 39.3 | 73 55.0 | 8.3 | 22 27.2 | 1.4 | 56.8 | 35 | 05 16 | 05 46 | 06 11 | 11 51 | 12 43 | 13 31 | 14 14 |
| 23 | 163 50.7 | 40.2 | 88 22.3 | 8.3 | 22 25.8 | 1.5 | 56.9 | 40 | 05 14 | 05 46 | 06 13 | 12 05 | 12 57 | 13 43 | 14 25 | |
| 3000 | 178 50.9 | N 3 41.2 | 102 49.6 | 8.3 | N22 24.3 | 1.7 | 56.9 | 45 | 05 12 | 05 46 | 06 15 | 12 22 | 13 13 | 13 58 | 14 36 | |
| 01 | 193 51.1 | 42.2 | 117 16.9 | 8.2 | 22 22.6 | 1.8 | 56.9 | S 50 | 05 08 | 05 45 | 06 17 | 12 44 | 13 34 | 14 15 | 14 51 | |
| 02 | 208 51.3 | 43.2 | 131 44.1 | 8.2 | 22 20.8 | 1.9 | 57.0 | 52 | 05 06 | 05 45 | 06 19 | 12 54 | 13 43 | 14 24 | 14 57 | |
| 03 | 223 51.5 | 44.1 | 146 11.3 | 8.2 | 22 18.9 | 2.1 | 57.0 | 54 | 05 03 | 05 45 | 06 20 | 13 06 | 13 54 | 14 33 | 15 05 | |
| 04 | 238 51.7 | 45.1 | 160 38.5 | 8.1 | 22 16.8 | 2.2 | 57.0 | 56 | 05 01 | 05 44 | 06 21 | 13 19 | 14 06 | 14 44 | 15 13 | |
| 05 | 253 51.8 | 46.1 | 175 05.6 | 8.2 | 22 14.6 | 2.3 | 57.1 | 58 | 04 58 | 05 43 | 06 23 | 13 34 | 14 21 | 14 56 | 15 22 | |
| 06 | 268 52.0 | N 3 47.0 | 189 32.8 | 8.1 | N22 12.3 | 2.5 | 57.1 | S 60 | 04 54 | 05 43 | 06 24 | 13 52 | 14 37 | 15 10 | 15 32 | |
| 07 | 283 52.2 | 48.0 | 203 59.9 | 8.1 | 22 09.8 | 2.6 | 57.1 | | | | | | | | | |
| 08 | 298 52.4 | 49.0 | 218 27.0 | 8.1 | 22 07.2 | 2.7 | 57.1 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 09 | 313 52.6 | 50.0 | 232 54.1 | 8.1 | 22 04.5 | 2.8 | 57.2 | | | Civil | Naut. | 29 | 30 | 31 | 1 | |
| 10 | 328 52.8 | 50.9 | 247 21.2 | 8.0 | 22 01.7 | 3.0 | 57.2 | | | | | h m | h m | h m | h m | |
| 11 | 343 53.0 | 51.9 | 261 48.2 | 8.1 | 21 58.7 | 3.1 | 57.2 | N 72 | 19 05 | 20 19 | 22 17 | □ | □ | □ | 06 21 | |
| 12 | 358 53.2 | N 3 52.9 | 276 15.3 | 8.0 | N21 55.6 | 3.2 | 57.3 | N 70 | 18 59 | 20 04 | 21 38 | □ | □ | □ | 05 13 | |
| 13 | 13 53.3 | 53.8 | 290 42.3 | 8.1 | 21 52.4 | 3.4 | 57.3 | 68 | 18 53 | 19 52 | 21 12 | □ | □ | 04 46 | 04 36 | |
| 14 | 28 53.5 | 54.8 | 305 09.4 | 8.0 | 21 49.0 | 3.5 | 57.3 | 66 | 18 49 | 19 42 | 20 53 | 02 54 | 03 42 | 04 02 | 04 10 | |
| 15 | 43 53.7 | 55.8 | 319 36.4 | 8.0 | 21 45.5 | 3.6 | 57.4 | 64 | 18 45 | 19 34 | 20 37 | 02 12 | 03 02 | 03 32 | 03 50 | |
| 16 | 58 53.9 | 56.7 | 334 03.4 | 8.0 | 21 41.9 | 3.7 | 57.4 | 62 | 18 42 | 19 27 | 20 25 | 01 43 | 02 35 | 03 10 | 03 33 | |
| 17 | 73 54.1 | 57.7 | 348 30.4 | 8.0 | 21 38.2 | 3.9 | 57.4 | 60 | 18 39 | 19 22 | 20 15 | 01 21 | 02 14 | 02 52 | 03 19 | |
| 18 | 88 54.3 | N 3 58.7 | 2 57.4 | 7.9 | N21 34.3 | 4.0 | 57.5 | N 58 | 18 36 | 19 17 | 20 06 | 01 04 | 01 56 | 02 37 | 03 07 | |
| 19 | 103 54.5 | 3 59.6 | 17 24.3 | 8.0 | 21 30.3 | 4.2 | 57.5 | 56 | 18 34 | 19 12 | 19 58 | 00 49 | 01 41 | 02 24 | 02 57 | |
| 20 | 118 54.7 | 4 00.6 | 31 51.3 | 8.0 | 21 26.1 | 4.2 | 57.5 | 54 | 18 32 | 19 08 | 19 52 | 00 36 | 01 29 | 02 12 | 02 47 | |
| 21 | 133 54.8 | 01.6 | 46 18.3 | 7.9 | 21 21.9 | 4.4 | 57.6 | 52 | 18 30 | 19 05 | 19 46 | 00 25 | 01 18 | 02 02 | 02 39 | |
| 22 | 148 55.0 | 02.6 | 60 45.2 | 8.0 | 21 17.5 | 4.6 | 57.6 | 50 | 18 29 | 19 01 | 19 41 | 00 14 | 01 08 | 01 53 | 02 32 | |
| 23 | 163 55.2 | 03.5 | 75 12.2 | 7.9 | 21 12.9 | 4.6 | 57.6 | 45 | 18 25 | 18 55 | 19 30 | 24 47 | 00 47 | 01 34 | 02 16 | |
| 3100 | 178 55.4 | N 4 04.5 | 89 39.1 | 8.0 | N21 08.3 | 4.8 | 57.7 | N 40 | 18 22 | 18 49 | 19 22 | 24 30 | 00 30 | 01 19 | 02 03 | |
| 01 | 193 55.6 | 05.5 | 104 06.1 | 7.9 | 21 03.5 | 4.9 | 57.7 | 35 | 18 20 | 18 45 | 19 15 | 24 16 | 00 16 | 01 06 | 01 51 | |
| 02 | 208 55.8 | 06.4 | 118 33.0 | 8.0 | 20 58.6 | 5.1 | 57.7 | 30 | 18 17 | 18 41 | 19 10 | 24 03 | 00 03 | 00 54 | 01 42 | |
| 03 | 223 56.0 | 07.4 | 133 00.0 | 7.9 | 20 53.5 | 5.1 | 57.8 | 20 | 18 14 | 18 36 | 19 02 | 23 42 | 24 34 | 00 34 | 01 25 | |
| 04 | 238 56.2 | 08.4 | 147 26.9 | 7.9 | 20 48.4 | 5.3 | 57.8 | N 10 | 18 11 | 18 32 | 18 56 | 23 24 | 24 17 | 00 17 | 01 10 | |
| 05 | 253 56.3 | 09.3 | 161 53.8 | 8.0 | 20 43.1 | 5.5 | 57.8 | 0 | 18 08 | 18 28 | 18 52 | 23 06 | 24 01 | 00 01 | 00 56 | |
| 06 | 268 56.5 | N 4 10.3 | 176 20.8 | 7.9 | N20 37.6 | 5.5 | 57.9 | S 10 | 18 05 | 18 26 | 18 50 | 22 49 | 23 45 | 24 42 | 00 42 | |
| 07 | 283 56.7 | 11.3 | 190 47.7 | 7.9 | 20 32.1 | 5.7 | 57.9 | 20 | 18 02 | 18 24 | 18 50 | 22 30 | 23 27 | 24 26 | 00 26 | |
| 08 | 298 56.9 | 12.2 | 205 14.6 | 8.0 | 20 26.4 | 5.8 | 57.9 | 30 | 17 59 | 18 23 | 18 51 | 22 09 | 23 07 | 24 09 | 00 09 | |
| 09 | 313 57.1 | 13.2 | 219 41.6 | 7.9 | 20 20.6 | 6.0 | 58.0 | 35 | 17 57 | 18 23 | 18 52 | 21 56 | 22 55 | 23 59 | 25 06 | |
| 10 | 328 57.3 | 14.2 | 234 08.5 | 8.0 | 20 14.6 | 6.0 | 58.0 | 40 | 17 55 | 18 22 | 18 54 | 21 42 | 22 42 | 23 47 | 24 57 | |
| 11 | 343 57.5 | 15.1 | 248 35.5 | 7.9 | 20 08.6 | 6.2 | 58.0 | 45 | 17 53 | 18 22 | 18 56 | 21 25 | 22 25 | 23 33 | 24 46 | |
| 12 | 358 57.7 | N 4 16.1 | 263 02.4 | 8.0 | N20 02.4 | 6.3 | 58.1 | S 50 | 17 51 | 18 23 | 19 00 | 21 03 | 22 06 | 23 16 | 24 33 | |
| 13 | 13 57.8 | 17.1 | 277 29.4 | 8.0 | 19 56.1 | 6.5 | 58.1 | 52 | 17 49 | 18 23 | 19 02 | 20 53 | 21 56 | 23 08 | 24 27 | |
| 14 | 28 58.0 | 18.0 | 291 56.4 | 7.9 | 19 49.6 | 6.5 | 58.1 | 54 | 17 48 | 18 23 | 19 04 | 20 41 | 21 45 | 22 59 | 24 20 | |
| 15 | 43 58.2 | 19.0 | 306 23.3 | 8.0 | 19 43.1 | 6.7 | 58.2 | 56 | 17 47 | 18 24 | 19 07 | 20 28 | 21 33 | 22 49 | 24 13 | |
| 16 | 58 58.4 | 20.0 | 320 50.3 | 8.0 | 19 36.4 | 6.8 | 58.2 | 58 | 17 45 | 18 24 | 19 10 | 20 13 | 21 19 | 22 38 | 24 04 | |
| 17 | 73 58.6 | 20.9 | 335 17.3 | 8.0 | 19 29.6 | 7.0 | 58.3 | S 60 | 17 43 | 18 25 | 19 13 | 19 55 | 21 03 | 22 24 | 23 54 | |
| 18 | 88 58.8 | N 4 21.9 | 349 44.3 | 8.0 | N19 22.6 | 7.0 | 58.3 | | | | | | | | | |
| 19 | 103 59.0 | 22.9 | 4 11.3 | 8.0 | 19 15.6 | 7.2 | 58.3 | | | | | | | | | |
| 20 | 118 59.2 | 23.8 | 18 38.3 | 8.0 | 19 08.4 | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.1 | | | MARTE +0.7 | | | JUPITER -2.5 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|----------------|----------|----------|--------------|--------------|----------|--------------|------------|--------------|---------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| DOMINGO | 4 00 | 192 19.4 | 185 52.9 N11 | 80 47.5 N24 | 27.3 | 3 13.4 S 2 | 11.2 | 222 49.1 S13 | 36.8 | Acamar | 315 30.1 S40 | 20.0 | | | | | | |
| | 01 | 207 21.8 | 200 56.7 11 | 95 48.9 | 27.1 | 18 16.2 | 11.0 | 237 51.3 | 36.8 | Achernar | 335 38.5 S57 | 16.3 | | | | | | |
| | 02 | 222 24.3 | 216 00.4 10 | 110 50.3 | 26.9 | 33 19.0 | 10.9 | 252 53.6 | 36.7 | Acruz | 173 25.6 S63 | 03.9 | | | | | | |
| | 03 | 237 26.8 | 231 04.2 ·· | 125 51.7 ·· | 26.7 | 48 21.7 ·· | 10.8 | 267 55.8 ·· | 36.6 | Adhara | 255 24.4 S28 | 58.1 | | | | | | |
| | 04 | 252 29.2 | 246 07.9 | 140 53.1 | 26.5 | 63 24.5 | 10.7 | 282 58.0 | 36.5 | Aldebaran | 291 06.9 N16 | 29.7 | | | | | | |
| | 05 | 267 31.7 | 261 11.7 | 155 54.5 | 26.3 | 78 27.2 | 10.5 | 298 00.3 | 36.5 | | | | | | | | | |
| | 06 | 282 34.1 | 276 15.4 N10 | 170 55.9 N24 | 26.1 | 93 30.0 S 2 | 10.4 | 313 02.5 S13 | 36.4 | Alioth | 166 33.3 N55 | 59.6 | | | | | | |
| | 07 | 297 36.6 | 291 19.2 | 185 57.3 | 25.9 | 108 32.7 | 10.3 | 328 04.7 | 36.3 | Alkaid | 153 10.2 N49 | 20.6 | | | | | | |
| | 08 | 312 39.1 | 306 22.9 | 200 58.8 | 25.7 | 123 35.5 | 10.2 | 343 07.0 | 36.2 | Al Na'ir | 28 02.9 S46 | 59.5 | | | | | | |
| | 09 | 327 41.5 | 321 26.6 ·· | 216 00.2 ·· | 25.5 | 138 38.3 ·· | 10.0 | 358 09.2 ·· | 36.2 | Alnilam | 276 01.8 S 1 | 12.5 | | | | | | |
| | 10 | 342 44.0 | 336 30.4 | 231 01.6 | 25.4 | 153 41.0 | 09.9 | 13 11.5 | 36.1 | Alphard | 218 10.7 S 8 | 38.0 | | | | | | |
| | 11 | 357 46.5 | 351 34.1 | 246 03.0 | 25.2 | 168 43.8 | 09.8 | 28 13.7 | 36.0 | | | | | | | | | |
| | 12 | 12 48.9 | 6 37.8 N10 | 261 04.4 N24 | 25.0 | 183 46.5 S 2 | 09.7 | 43 15.9 S13 | 35.9 | Alphecca | 126 23.5 N26 | 44.0 | | | | | | |
| | 13 | 27 51.4 | 21 41.6 | 276 05.8 | 24.8 | 198 49.3 | 09.5 | 58 18.2 | 35.9 | Alpheratz | 357 59.5 N29 | 03.1 | | | | | | |
| | 14 | 42 53.9 | 36 45.3 | 291 07.2 | 24.6 | 213 52.1 | 09.4 | 73 20.4 | 35.8 | Altair | 62 23.0 N 8 | 50.9 | | | | | | |
| | 15 | 57 56.3 | 51 49.0 ·· | 306 08.6 ·· | 24.4 | 228 54.8 ·· | 09.3 | 88 22.6 ·· | 35.7 | Ankaa | 353 30.9 S42 | 20.5 | | | | | | |
| | 16 | 72 58.8 | 66 52.7 | 321 10.0 | 24.2 | 243 57.6 | 09.2 | 103 24.9 | 35.6 | Antares | 112 44.6 S26 | 25.1 | | | | | | |
| | 17 | 88 01.3 | 81 56.5 | 336 11.4 | 24.0 | 259 00.3 | 09.0 | 118 27.1 | 35.6 | | | | | | | | | |
| | 18 | 103 03.7 | 97 00.2 N10 | 351 12.8 N24 | 23.8 | 274 03.1 S 2 | 08.9 | 133 29.3 S13 | 35.5 | Arcturus | 146 09.2 N19 | 12.8 | | | | | | |
| | 19 | 118 06.2 | 112 03.9 | 6 14.2 | 23.6 | 289 05.8 | 08.8 | 148 31.6 | 35.4 | Atria | 107 59.7 S69 | 00.8 | | | | | | |
| | 20 | 133 08.6 | 127 07.6 | 21 15.6 | 23.4 | 304 08.6 | 08.7 | 163 33.8 | 35.3 | Avior | 234 24.0 S59 | 29.7 | | | | | | |
| | 21 | 148 11.1 | 142 11.3 ·· | 36 17.0 ·· | 23.2 | 319 11.4 ·· | 08.5 | 178 36.0 ·· | 35.3 | Bellatrix | 278 48.3 N 6 | 20.5 | | | | | | |
| | 22 | 163 13.6 | 157 15.1 | 51 18.5 | 23.0 | 334 14.1 | 08.4 | 193 38.3 | 35.2 | Betelgeuse | 271 17.7 N 7 | 24.3 | | | | | | |
| 23 | 178 16.0 | 172 18.8 | 66 19.9 | 22.8 | 349 16.9 | 08.3 | 208 40.5 | 35.1 | | | | | | | | | | |
| LUNES | 5 00 | 193 18.5 | 187 22.5 N10 | 81 21.3 N24 | 22.6 | 4 19.6 S 2 | 08.2 | 223 42.8 S13 | 35.0 | Canopus | 264 02.9 S52 | 41.9 | | | | | | |
| | 01 | 208 21.0 | 202 26.2 | 96 22.7 | 22.4 | 19 22.4 | 08.0 | 238 45.0 | 35.0 | Capella | 280 57.0 N45 | 59.6 | | | | | | |
| | 02 | 223 23.4 | 217 29.9 | 111 24.1 | 22.2 | 34 25.2 | 07.9 | 253 47.2 | 34.9 | Deneb | 49 42.0 N45 | 15.2 | | | | | | |
| | 03 | 238 25.9 | 232 33.6 ·· | 126 25.5 ·· | 22.0 | 49 27.9 ·· | 07.8 | 268 49.5 ·· | 34.8 | Denebola | 182 48.7 N14 | 36.4 | | | | | | |
| | 04 | 253 28.4 | 247 37.3 | 141 26.9 | 21.8 | 64 30.7 | 07.7 | 283 51.7 | 34.7 | Diphda | 349 11.3 S18 | 01.4 | | | | | | |
| | 05 | 268 30.8 | 262 41.0 | 156 28.3 | 21.6 | 79 33.4 | 07.5 | 298 53.9 | 34.7 | | | | | | | | | |
| | 06 | 283 33.3 | 277 44.7 N10 | 171 29.7 N24 | 21.4 | 94 36.2 S 2 | 07.4 | 313 56.2 S13 | 34.6 | Dubhe | 194 09.4 N61 | 47.2 | | | | | | |
| | 07 | 298 35.8 | 292 48.4 | 186 31.1 | 21.2 | 109 38.9 | 07.3 | 328 58.4 | 34.5 | Elnath | 278 31.9 N28 | 36.1 | | | | | | |
| | 08 | 313 38.2 | 307 52.1 | 201 32.5 | 21.0 | 124 41.7 | 07.2 | 344 00.7 | 34.4 | Eltanin | 90 53.0 N51 | 29.1 | | | | | | |
| | 09 | 328 40.7 | 322 55.8 ·· | 216 33.9 ·· | 20.8 | 139 44.5 ·· | 07.0 | 359 02.9 ·· | 34.4 | Enif | 34 02.1 N 9 | 50.6 | | | | | | |
| | 10 | 343 43.1 | 337 59.5 | 231 35.3 | 20.6 | 154 47.2 | 06.9 | 14 05.1 | 34.3 | Fomalhaut | 15 40.9 S29 | 39.4 | | | | | | |
| | 11 | 358 45.6 | 353 03.1 | 246 36.7 | 20.4 | 169 50.0 | 06.8 | 29 07.4 | 34.2 | | | | | | | | | |
| | 12 | 13 48.1 | 8 06.8 N10 | 261 38.1 N24 | 20.2 | 184 52.7 S 2 | 06.7 | 44 09.6 S13 | 34.1 | Gacrux | 172 17.3 S57 | 04.7 | | | | | | |
| | 13 | 28 50.5 | 23 10.5 | 276 39.5 | 20.0 | 199 55.5 | 06.5 | 59 11.8 | 34.1 | Gienah | 176 07.5 S17 | 30.5 | | | | | | |
| | 14 | 43 53.0 | 38 14.2 | 291 40.9 | 19.8 | 214 58.3 | 06.4 | 74 14.1 | 34.0 | Hadar | 149 08.8 S60 | 20.5 | | | | | | |
| | 15 | 58 55.5 | 53 17.9 ·· | 306 42.2 ·· | 19.6 | 230 01.0 ·· | 06.3 | 89 16.3 ·· | 33.9 | Hamal | 328 18.2 N23 | 25.8 | | | | | | |
| | 16 | 73 57.9 | 68 21.6 | 321 43.6 | 19.4 | 245 03.8 | 06.2 | 104 18.6 | 33.9 | Kaus Aust. | 84 03.7 S34 | 23.2 | | | | | | |
| | 17 | 89 00.4 | 83 25.2 | 336 45.0 | 19.2 | 260 06.5 | 06.1 | 119 20.8 | 33.8 | | | | | | | | | |
| | 18 | 104 02.9 | 98 28.9 N10 | 351 46.4 N24 | 19.0 | 275 09.3 S 2 | 05.9 | 134 23.0 S13 | 33.7 | Kochab | 137 18.2 N74 | 10.8 | | | | | | |
| | 19 | 119 05.3 | 113 32.6 | 6 47.8 | 18.8 | 290 12.0 | 05.8 | 149 25.3 | 33.6 | Markab | 13 53.7 N15 | 10.1 | | | | | | |
| | 20 | 134 07.8 | 128 36.2 | 21 49.2 | 18.6 | 305 14.8 | 05.7 | 164 27.5 | 33.6 | Menkar | 314 31.1 N 4 | 03.8 | | | | | | |
| | 21 | 149 10.2 | 143 39.9 ·· | 36 50.6 ·· | 18.4 | 320 17.6 ·· | 05.6 | 179 29.7 ·· | 33.5 | Menkent | 148 25.1 S36 | 20.4 | | | | | | |
| | 22 | 164 12.7 | 158 43.6 | 51 52.0 | 18.2 | 335 20.3 | 05.4 | 194 32.0 | 33.4 | Miaplacidus | 221 42.4 S69 | 41.8 | | | | | | |
| 23 | 179 15.2 | 173 47.2 | 66 53.4 | 18.0 | 350 23.1 | 05.3 | 209 34.2 | 33.3 | | | | | | | | | | |
| MARTES | 6 00 | 194 17.6 | 188 50.9 N10 | 81 54.8 N24 | 17.8 | 5 25.8 S 2 | 05.2 | 224 36.5 S13 | 33.3 | Mirfak | 309 02.5 N49 | 50.4 | | | | | | |
| | 01 | 209 20.1 | 203 54.5 | 96 56.2 | 17.6 | 20 28.6 | 05.1 | 239 38.7 | 33.2 | Nunki | 76 17.0 S26 | 18.3 | | | | | | |
| | 02 | 224 22.6 | 218 58.2 | 111 57.6 | 17.4 | 35 31.3 | 04.9 | 254 40.9 | 33.1 | Peacock | 53 43.1 S56 | 45.2 | | | | | | |
| | 03 | 239 25.0 | 234 01.8 ·· | 126 59.0 ·· | 17.2 | 50 34.1 ·· | 04.8 | 269 43.2 ·· | 33.0 | Pollux | 243 46.1 N28 | 02.5 | | | | | | |
| | 04 | 254 27.5 | 249 05.5 | 142 00.4 | 17.0 | 65 36.9 | 04.7 | 284 45.4 | 33.0 | Procyon | 245 15.5 N 5 | 14.4 | | | | | | |
| | 05 | 269 30.0 | 264 09.1 | 157 01.7 | 16.8 | 80 39.6 | 04.6 | 299 47.7 | 32.9 | | | | | | | | | |
| | 06 | 284 32.4 | 279 12.8 N10 | 172 03.1 N24 | 16.6 | 95 42.4 S 2 | 04.4 | 314 49.9 S13 | 32.8 | Rasalhague | 96 20.3 N12 | 33.7 | | | | | | |
| | 07 | 299 34.9 | 294 16.4 | 187 04.5 | 16.4 | 110 45.1 | 04.3 | 329 52.1 | 32.7 | Regulus | 207 59.3 N11 | 59.8 | | | | | | |
| | 08 | 314 37.4 | 309 20.1 | 202 05.9 | 16.2 | 125 47.9 | 04.2 | 344 54.4 | 32.7 | Rigel | 281 26.7 S 8 | 12.7 | | | | | | |
| | 09 | 329 39.8 | 324 23.7 ·· | 217 07.3 ·· | 16.0 | 140 50.6 ·· | 04.1 | 359 56.6 ·· | 32.6 | Rigil Kent. | 140 11.8 S60 | 48.4 | | | | | | |
| | 10 | 344 42.3 | 339 27.3 | 232 08.7 | 15.7 | 155 53.4 | 03.9 | 14 58.9 | 32.5 | Sabik | 102 29.7 S15 | 43.1 | | | | | | |
| | 11 | 359 44.7 | 354 31.0 | 247 10.1 | 15.5 | 170 56.1 | 03.8 | 30 01.1 | 32.5 | | | | | | | | | |
| | 12 | 14 47.2 | 9 34.6 N10 | 262 11.5 N24 | 15.3 | 185 58.9 S 2 | 03.7 | 45 03.3 S13 | 32.4 | Schedar | 349 58.4 N56 | 30.0 | | | | | | |
| | 13 | 29 49.7 | 24 38.2 | 277 12.9 | 15.1 | 201 01.7 | 03.6 | 60 05.6 | 32.3 | Shaula | 96 42.3 S37 | 05.9 | | | | | | |
| | 14 | 44 52.1 | 39 41.8 | 292 14.2 | 14.9 | 216 04.4 | 03.5 | 75 07.8 | 32.2 | Sirius | 258 47.0 S16 | 42.7 | | | | | | |
| | 15 | 59 54.6 | 54 45.5 ·· | 307 15.6 ·· | 14.7 | 231 07.2 ·· | 03.3 | 90 10.1 ·· | 32.2 | Spica | 158 46.9 S11 | 07.8 | | | | | | |
| | 16 | 74 57.1 | 69 49.1 10 | 322 17.0 | 14.5 | 246 09.9 | 03.2 | 105 12.3 | 32.1 | Suhail | 223 03.4 S43 | 24.7 | | | | | | |
| | 17 | 89 59.5 | 84 52.7 9 | 337 18.4 | 14.3 | 261 12.7 | 03.1 | 120 14.5 | 32.0 | | | | | | | | | |
| | 18 | 105 02.0 | 99 56.3 N 9 | 352 19.8 N24 | 14.1 | 276 15.4 S 2 | 03.0 | 135 16.8 S13 | 31.9 | Vega | 80 49.1 N38 | 46.4 | | | | | | |
| | 19 | 120 04.5 | 114 59.9 | 7 21.2 | 13.9 | 291 18.2 | 02.8 | 150 19.0 | 31.9 | Zuben'ubi | 137 21.9 S16 | 01.0 | | | | | | |
| | 20 | 135 06.9 | 130 03.5 | 22 22.5 | 13.7 | 306 21.0 | 02.7 | 165 21.3 | 31.8 | | | | | | | | | |
| | 21 | 150 09.4 | 145 07.2 ·· | 37 23.9 ·· | 13.5 | 321 23.7 ·· | 02.6 | 180 23.5 ·· | 31.7 | | | | | | | | | |
| | 22 | 165 11.9 | 160 10.8 | 52 25.3 | 13.3 | 336 26.5 | 02.5 | 195 25.7 | 31.7 | Venus | 354 04.0 | 11 28 | | | | | | |
| 23 | 180 14.3 | 175 14.4 | 67 26.7 | 13.1 | 351 29.2 | 02.4 | 210 28.0 | 31.6 | Marte | 248 02.8 | 18 33 | | | | | | | |
| | | | | | | | | | Júpiter | 171 01.1 | 23 38 | | | | | | | |
| | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|----------|----------|----------|--------|-----------|------|------------|-------|-----------|------------------|-------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 4 | 5 | 6 | 7 | |
| | | | | | | | | | | | | | | | | h |
| DOMINGO | 4 00 | 179 13.2 | N 5 36.8 | 37 27.1 | 8.9 | N 5 03.9 | 14.0 | 60.7 | N 72 | 00 08 | 03 16 | 04 35 | 15 50 | 18 06 | 20 29 | 23 17 |
| | 01 | 194 13.4 | 37.8 | 51 55.0 | 8.8 | 4 49.9 | 14.0 | 60.7 | N 70 | 01 46 | 03 36 | 04 45 | 15 52 | 17 58 | 20 09 | 22 30 |
| | 02 | 209 13.6 | 38.7 | 66 22.8 | 8.8 | 4 35.9 | 14.0 | 60.7 | 68 | 02 23 | 03 51 | 04 52 | 15 53 | 17 52 | 19 54 | 22 00 |
| | 03 | 224 13.8 | 39.7 | 80 50.6 | 8.8 | 4 21.9 | 14.1 | 60.8 | 66 | 02 48 | 04 04 | 04 59 | 15 54 | 17 47 | 19 41 | 21 37 |
| | 04 | 239 14.0 | 40.6 | 95 18.4 | 8.8 | 4 07.8 | 14.1 | 60.8 | 64 | 03 07 | 04 14 | 05 04 | 15 55 | 17 42 | 19 31 | 21 20 |
| | 05 | 254 14.1 | 41.6 | 109 46.2 | 8.7 | 3 53.7 | 14.2 | 60.8 | 62 | 03 22 | 04 23 | 05 09 | 15 56 | 17 39 | 19 22 | 21 06 |
| | 06 | 269 14.3 | N 5 42.5 | 124 13.9 | 8.8 | N 3 39.5 | 14.2 | 60.8 | 60 | 03 35 | 04 30 | 05 13 | 15 57 | 17 35 | 19 15 | 20 53 |
| | 07 | 284 14.5 | 43.5 | 138 41.7 | 8.8 | 3 25.3 | 14.2 | 60.8 | N 58 | 03 45 | 04 36 | 05 17 | 15 58 | 17 33 | 19 08 | 20 43 |
| | 08 | 299 14.7 | 44.4 | 153 09.5 | 8.8 | 3 11.1 | 14.2 | 60.9 | 56 | 03 54 | 04 42 | 05 20 | 15 58 | 17 30 | 19 03 | 20 34 |
| | 09 | 314 14.9 | 45.4 | 167 37.3 | 8.7 | 2 56.9 | 14.3 | 60.9 | 54 | 04 02 | 04 47 | 05 23 | 15 59 | 17 28 | 18 57 | 20 26 |
| | 10 | 329 15.1 | 46.3 | 182 05.0 | 8.8 | 2 42.6 | 14.3 | 60.9 | 52 | 04 09 | 04 51 | 05 26 | 15 59 | 17 26 | 18 53 | 20 19 |
| | 11 | 344 15.2 | 47.3 | 196 32.8 | 8.7 | 2 28.3 | 14.3 | 60.9 | 50 | 04 15 | 04 55 | 05 28 | 16 00 | 17 24 | 18 49 | 20 12 |
| | 12 | 359 15.4 | N 5 48.2 | 211 00.5 | 8.8 | N 2 14.0 | 14.4 | 60.9 | 45 | 04 28 | 05 04 | 05 34 | 16 00 | 17 20 | 18 40 | 19 59 |
| | 13 | 14 15.6 | 49.2 | 225 28.3 | 8.7 | 1 59.6 | 14.3 | 60.9 | N 40 | 04 38 | 05 10 | 05 38 | 16 01 | 17 16 | 18 32 | 19 47 |
| | 14 | 29 15.8 | 50.1 | 239 56.0 | 8.7 | 1 45.3 | 14.4 | 61.0 | 35 | 04 46 | 05 16 | 05 42 | 16 02 | 17 14 | 18 26 | 19 38 |
| | 15 | 44 16.0 | 51.1 | 254 23.7 | 8.7 | 1 30.9 | 14.4 | 61.0 | 30 | 04 52 | 05 21 | 05 45 | 16 03 | 17 11 | 18 20 | 19 30 |
| | 16 | 59 16.2 | 52.0 | 268 51.4 | 8.7 | 1 16.5 | 14.4 | 61.0 | 20 | 05 02 | 05 28 | 05 50 | 16 04 | 17 07 | 18 11 | 19 15 |
| | 17 | 74 16.3 | 53.0 | 283 19.1 | 8.7 | 1 02.1 | 14.5 | 61.0 | N 10 | 05 09 | 05 34 | 05 55 | 16 05 | 17 03 | 18 02 | 19 03 |
| | 18 | 89 16.5 | N 5 54.0 | 297 46.8 | 8.6 | N 0 47.6 | 14.4 | 61.0 | 0 | 05 14 | 05 39 | 05 59 | 16 05 | 16 59 | 17 55 | 18 51 |
| | 19 | 104 16.7 | 54.9 | 312 14.4 | 8.7 | 0 33.2 | 14.5 | 61.0 | S 10 | 05 18 | 05 43 | 06 04 | 16 06 | 16 56 | 17 47 | 18 40 |
| | 20 | 119 16.9 | 55.9 | 326 42.1 | 8.6 | 0 18.7 | 14.4 | 61.0 | 20 | 05 20 | 05 46 | 06 08 | 16 07 | 16 52 | 17 39 | 18 27 |
| | 21 | 134 17.1 | 56.8 | 341 09.7 | 8.7 | N 0 04.3 | 14.5 | 61.0 | 30 | 05 21 | 05 49 | 06 13 | 16 09 | 16 48 | 17 30 | 18 14 |
| | 22 | 149 17.2 | 57.8 | 355 37.4 | 8.6 | S 0 10.2 | 14.4 | 61.1 | 35 | 05 21 | 05 50 | 06 16 | 16 09 | 16 46 | 17 24 | 18 06 |
| 23 | 164 17.4 | 58.7 | 10 05.0 | 8.5 | 0 24.6 | 14.5 | 61.1 | 40 | 05 20 | 05 52 | 06 19 | 16 10 | 16 43 | 17 18 | 17 57 | |
| LUNES | 5 00 | 179 17.6 | N 5 59.7 | 24 32.5 | 8.6 | S 0 39.1 | 14.5 | 61.1 | 45 | 05 19 | 05 53 | 06 23 | 16 11 | 16 40 | 17 12 | 17 46 |
| | 01 | 194 17.8 | 6 00.6 | 39 00.1 | 8.6 | 0 53.6 | 14.5 | 61.1 | S 50 | 05 17 | 05 54 | 06 27 | 16 12 | 16 37 | 17 03 | 17 33 |
| | 02 | 209 18.0 | 01.6 | 53 27.7 | 8.5 | 1 08.1 | 14.4 | 61.1 | 52 | 05 16 | 05 55 | 06 29 | 16 12 | 16 35 | 17 00 | 17 28 |
| | 03 | 224 18.2 | 02.5 | 67 55.2 | 8.5 | 1 22.5 | 14.5 | 61.1 | 54 | 05 14 | 05 55 | 06 31 | 16 13 | 16 33 | 16 56 | 17 21 |
| | 04 | 239 18.3 | 03.5 | 82 22.7 | 8.5 | 1 37.0 | 14.5 | 61.1 | 56 | 05 13 | 05 56 | 06 33 | 16 14 | 16 31 | 16 51 | 17 14 |
| | 05 | 254 18.5 | 04.4 | 96 50.2 | 8.5 | 1 51.5 | 14.4 | 61.1 | 58 | 05 11 | 05 56 | 06 36 | 16 14 | 16 29 | 16 46 | 17 06 |
| | 06 | 269 18.7 | N 6 05.3 | 111 17.7 | 8.4 | S 2 05.9 | 14.5 | 61.1 | S 60 | 05 09 | 05 57 | 06 39 | 16 15 | 16 27 | 16 40 | 16 57 |
| | 07 | 284 18.9 | 06.3 | 125 45.1 | 8.5 | 2 20.4 | 14.4 | 61.1 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | |
| | 08 | 299 19.1 | 07.2 | 140 12.6 | 8.4 | 2 34.8 | 14.4 | 61.1 | h m | h m | h m | h m | h m | h m | h m | h m |
| | 09 | 314 19.2 | 08.2 | 154 40.0 | 8.4 | 2 49.2 | 14.4 | 61.2 | N 72 | 19 34 | 20 54 | /// | 04 27 | 04 08 | 03 48 | 03 22 |
| | 10 | 329 19.4 | 09.1 | 169 07.4 | 8.3 | 3 03.6 | 14.4 | 61.2 | N 70 | 19 24 | 20 33 | 22 29 | 04 22 | 04 11 | 03 58 | 03 44 |
| | 11 | 344 19.6 | 10.1 | 183 34.7 | 8.4 | 3 18.0 | 14.4 | 61.2 | 68 | 19 15 | 20 17 | 21 48 | 04 18 | 04 13 | 04 07 | 04 01 |
| | 12 | 359 19.8 | N 6 11.0 | 198 02.1 | 8.3 | S 3 32.4 | 14.3 | 61.2 | 66 | 19 09 | 20 04 | 21 22 | 04 14 | 04 14 | 04 14 | 04 15 |
| | 13 | 14 20.0 | 12.0 | 212 29.4 | 8.3 | 3 46.7 | 14.4 | 61.2 | 64 | 19 03 | 20 04 | 21 02 | 04 11 | 04 16 | 04 20 | 04 26 |
| | 14 | 29 20.1 | 12.9 | 226 56.7 | 8.3 | 4 01.1 | 14.3 | 61.2 | 62 | 19 03 | 19 54 | 21 02 | 04 11 | 04 16 | 04 20 | 04 26 |
| | 15 | 44 20.3 | 13.9 | 241 24.0 | 8.2 | 4 15.4 | 14.2 | 61.2 | 60 | 19 03 | 19 45 | 20 46 | 04 09 | 04 17 | 04 26 | 04 36 |
| | 16 | 59 20.5 | 14.8 | 255 51.2 | 8.2 | 4 29.6 | 14.3 | 61.2 | N 58 | 18 58 | 19 45 | 20 46 | 04 09 | 04 17 | 04 26 | 04 36 |
| | 17 | 74 20.7 | 15.8 | 270 18.4 | 8.2 | 4 43.9 | 14.2 | 61.2 | 56 | 18 54 | 19 37 | 20 33 | 04 06 | 04 18 | 04 30 | 04 45 |
| | 18 | 89 20.9 | N 6 16.7 | 284 45.6 | 8.2 | S 4 58.1 | 14.2 | 61.2 | 54 | 18 50 | 19 31 | 20 22 | 04 04 | 04 19 | 04 35 | 04 53 |
| | 19 | 104 21.0 | 17.7 | 299 12.8 | 8.1 | 5 12.3 | 14.2 | 61.2 | 52 | 18 46 | 19 25 | 20 13 | 04 02 | 04 20 | 04 38 | 04 59 |
| | 20 | 119 21.2 | 18.6 | 313 39.9 | 8.1 | 5 26.5 | 14.1 | 61.2 | 50 | 18 43 | 19 20 | 20 05 | 04 00 | 04 21 | 04 42 | 05 05 |
| | 21 | 134 21.4 | 19.6 | 328 07.0 | 8.1 | 5 40.6 | 14.1 | 61.2 | 48 | 18 41 | 19 15 | 19 58 | 03 59 | 04 21 | 04 45 | 05 11 |
| | 22 | 149 21.6 | 20.5 | 342 34.1 | 8.0 | 5 54.7 | 14.0 | 61.2 | 46 | 18 38 | 19 11 | 19 51 | 03 57 | 04 22 | 04 48 | 05 16 |
| 23 | 164 21.8 | 21.5 | 357 01.1 | 8.0 | 6 08.7 | 14.1 | 61.2 | 45 | 18 33 | 19 03 | 19 38 | 03 54 | 04 23 | 04 54 | 05 26 | |
| MARTES | 6 00 | 179 21.9 | N 6 22.4 | 11 28.1 | 8.0 | S 6 22.8 | 13.9 | 61.2 | N 40 | 18 28 | 18 56 | 19 28 | 03 52 | 04 25 | 04 59 | 05 35 |
| | 01 | 194 22.1 | 23.3 | 25 55.1 | 7.9 | 6 36.7 | 14.0 | 61.2 | 35 | 18 24 | 18 50 | 19 20 | 03 49 | 04 26 | 05 03 | 05 43 |
| | 02 | 209 22.3 | 24.3 | 40 22.0 | 8.0 | 6 50.7 | 13.8 | 61.2 | 30 | 18 21 | 18 45 | 19 14 | 03 47 | 04 27 | 05 07 | 05 50 |
| | 03 | 224 22.5 | 25.2 | 54 49.0 | 7.9 | 7 04.5 | 13.9 | 61.2 | 20 | 18 15 | 18 38 | 19 04 | 03 44 | 04 28 | 05 14 | 06 01 |
| | 04 | 239 22.7 | 26.2 | 69 15.9 | 7.8 | 7 18.4 | 13.8 | 61.2 | N 10 | 18 10 | 18 32 | 18 56 | 03 40 | 04 30 | 05 20 | 06 12 |
| | 05 | 254 22.8 | 27.1 | 83 42.7 | 7.8 | 7 32.2 | 13.7 | 61.2 | 0 | 18 06 | 18 27 | 18 51 | 03 37 | 04 31 | 05 25 | 06 21 |
| | 06 | 269 23.0 | N 6 28.1 | 98 09.5 | 7.8 | S 7 45.9 | 13.7 | 61.2 | S 10 | 18 02 | 18 23 | 18 47 | 03 34 | 04 32 | 05 31 | 06 31 |
| | 07 | 284 23.2 | 29.0 | 112 36.3 | 7.8 | 7 59.6 | 13.6 | 61.1 | 20 | 17 57 | 18 19 | 18 45 | 03 31 | 04 34 | 05 37 | 06 41 |
| | 08 | 299 23.4 | 30.0 | 127 03.1 | 7.7 | 8 13.2 | 13.6 | 61.1 | 30 | 17 52 | 18 16 | 18 44 | 03 27 | 04 35 | 05 44 | 06 53 |
| | 09 | 314 23.6 | 30.9 | 141 29.8 | 7.7 | 8 26.8 | 13.5 | 61.1 | 35 | 17 49 | 18 14 | 18 44 | 03 25 | 04 36 | 05 48 | 07 00 |
| | 10 | 329 23.7 | 31.8 | 155 56.5 | 7.7 | 8 40.3 | 13.5 | 61.1 | 40 | 17 46 | 18 13 | 18 44 | 03 22 | 04 37 | 05 52 | 07 08 |
| | 11 | 344 23.9 | 32.8 | 170 23.2 | 7.6 | 8 53.8 | 13.4 | 61.1 | 45 | 17 42 | 18 11 | 18 45 | 03 19 | 04 38 | 05 58 | 07 17 |
| | 12 | 359 24.1 | N 6 33.7 | 184 49.8 | 7.6 | S 9 07.2 | 13.3 | 61.1 | S 50 | 17 38 | 18 10 | 18 47 | 03 16 | 04 39 | 06 04 | 07 28 |
| | 13 | 14 24.3 | 34.7 | 199 16.4 | 7.5 | 9 20.5 | 13.3 | 61.1 | 52 | 17 36 | 18 09 | 18 48 | 03 14 | 04 40 | 06 07 | 07 34 |
| | 14 | 29 24.5 | 35.6 | 213 42.9 | 7.5 | 9 33.8 | 13.2 | 61.1 | 54 | 17 34 | 18 09 | 18 50 | 03 12 | 04 41 | 06 10 | 07 39 |
| | 15 | 44 24.6 | 36.6 | 228 09.4 | 7.5 | 9 47.0 | 13.1 | 61.1 | 56 | 17 31 | 18 08 | 18 51 | 03 10 | 04 41 | 06 14 | 07 46 |
| | 16 | 59 24.8 | 37.5 | 242 35.9 | 7.5 | 10 00.1 | 13.1 | 61.1 | 58 | 17 29 | 18 08 | 18 53 | 03 08 | 04 42 | 06 18 | 07 53 |
| | 17 | 74 25.0 | 38.4 | 257 02.4 | 7.4 | 10 13.2 | 13.0 | 61.1 | S 60 | 17 26 | 18 07 | 18 55 | 03 05 | 04 43 | 06 22 | 08 01 |
| | 18 | 89 25.2 | N 6 39.4 | 271 28.8 | 7.4 | S 10 26.2 | 12.9 | 61.0 | Día | SOL | | L | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +0.7 | | | JUPITER -2.5 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|---|----------|----------|--------------|------------|--------------|----------|--------------|----------|--------------|--------------|-------------|--------------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| M I E R C O L E S | 7 00 | 195 16.8 | 190 18.0 N 9 | 52.7 | 82 28.1 N24 | 12.9 | 6 32.0 S 2 | 02.2 | 225 30.2 S13 | 31.5 | Acamar | 315 30.1 S40 | 20.0 | | | | | |
| | 01 | 210 19.2 | 205 21.6 | 51.7 | 97 29.5 | 12.7 | 21 34.7 | 02.1 | 240 32.5 | 31.4 | Achernar | 335 38.5 S57 | 16.3 | | | | | |
| | 02 | 225 21.7 | 220 25.1 | 50.7 | 112 30.8 | 12.5 | 36 37.5 | 02.0 | 255 34.7 | 31.4 | Acruz | 173 25.6 S63 | 03.9 | | | | | |
| | 03 | 240 24.2 | 235 28.7 | 49.8 | 127 32.2 | 12.3 | 51 40.2 | 01.9 | 270 37.0 | 31.3 | Adhara | 255 24.4 S28 | 58.1 | | | | | |
| | 04 | 255 26.6 | 250 32.3 | 48.8 | 142 33.6 | 12.1 | 66 43.0 | 01.7 | 285 39.2 | 31.2 | Aldebaran | 291 06.9 N16 | 29.7 | | | | | |
| | 05 | 270 29.1 | 265 35.9 | 47.9 | 157 35.0 | 11.8 | 81 45.8 | 01.6 | 300 41.4 | 31.1 | | | | | | | | |
| | 06 | 285 31.6 | 280 39.5 N 9 | 46.9 | 172 36.4 N24 | 11.6 | 96 48.5 S 2 | 01.5 | 315 43.7 S13 | 31.1 | Alioth | 166 33.3 N55 | 59.6 | | | | | |
| | 07 | 300 34.0 | 295 43.1 | 45.9 | 187 37.7 | 11.4 | 111 51.3 | 01.4 | 330 45.9 | 31.0 | Alkaid | 153 10.2 N49 | 20.6 | | | | | |
| | 08 | 315 36.5 | 310 46.7 | 45.0 | 202 39.1 | 11.2 | 126 54.0 | 01.2 | 345 48.2 | 30.9 | Al Na'ir | 28 02.9 S46 | 59.4 | | | | | |
| | 09 | 330 39.0 | 325 50.2 | 44.0 | 217 40.5 | 11.0 | 141 56.8 | 01.1 | 0 50.4 | 30.9 | Alnilam | 276 01.8 S 1 | 12.5 | | | | | |
| | 10 | 345 41.4 | 340 53.8 | 43.0 | 232 41.9 | 10.8 | 156 59.5 | 01.0 | 15 52.7 | 30.8 | Alphard | 218 10.7 S 8 | 38.0 | | | | | |
| | 11 | 0 43.9 | 355 57.4 | 42.1 | 247 43.3 | 10.6 | 172 02.3 | 00.9 | 30 54.9 | 30.7 | | | | | | | | |
| | 12 | 15 46.3 | 11 00.9 N 9 | 41.1 | 262 44.6 N24 | 10.4 | 187 05.0 S 2 | 00.8 | 45 57.1 S13 | 30.6 | Alphecca | 126 23.5 N26 | 44.0 | | | | | |
| | 13 | 30 48.8 | 26 04.5 | 40.1 | 277 46.0 | 10.2 | 202 07.8 | 00.6 | 60 59.4 | 30.6 | Alpheratz | 357 59.5 N29 | 03.1 | | | | | |
| | 14 | 45 51.3 | 41 08.1 | 39.2 | 292 47.4 | 10.0 | 217 10.6 | 00.5 | 76 01.6 | 30.5 | Altair | 62 23.0 N 8 | 50.9 | | | | | |
| | 15 | 60 53.7 | 56 11.6 | 38.2 | 307 48.8 | 09.8 | 232 13.3 | 00.4 | 91 03.9 | 30.4 | Ankaa | 353 30.9 S42 | 20.5 | | | | | |
| | 16 | 75 56.2 | 71 15.2 | 37.3 | 322 50.1 | 09.6 | 247 16.1 | 00.3 | 106 06.1 | 30.3 | Antares | 112 44.6 S26 | 25.1 | | | | | |
| | 17 | 90 58.7 | 86 18.7 | 36.3 | 337 51.5 | 09.3 | 262 18.8 | 00.1 | 121 08.4 | 30.3 | | | | | | | | |
| | 18 | 106 01.1 | 101 22.3 N 9 | 35.3 | 352 52.9 N24 | 09.1 | 277 21.6 S 2 | 00.0 | 136 10.6 S13 | 30.2 | Arcturus | 146 09.1 N19 | 12.8 | | | | | |
| | 19 | 121 03.6 | 116 25.8 | 34.4 | 7 54.3 | 08.9 | 292 24.3 | 1 59.9 | 151 12.8 | 30.1 | Atria | 107 59.7 S69 | 00.8 | | | | | |
| | 20 | 136 06.1 | 131 29.4 | 33.4 | 22 55.6 | 08.7 | 307 27.1 | 59.8 | 166 15.1 | 30.1 | Avior | 234 24.0 S59 | 29.7 | | | | | |
| | 21 | 151 08.5 | 146 32.9 | 32.4 | 37 57.0 | 08.5 | 322 29.8 | 59.7 | 181 17.3 | 30.0 | Bellatrix | 278 48.4 N 6 | 20.5 | | | | | |
| | 22 | 166 11.0 | 161 36.5 | 31.5 | 52 58.4 | 08.3 | 337 32.6 | 59.5 | 196 19.6 | 29.9 | Betelgeuse | 271 17.7 N 7 | 24.3 | | | | | |
| 23 | 181 13.5 | 176 40.0 | 30.5 | 67 59.8 | 08.1 | 352 35.3 | 59.4 | 211 21.8 | 29.8 | | | | | | | | | |
| J U E V E S | 8 00 | 196 15.9 | 191 43.5 N 9 | 29.5 | 83 01.1 N24 | 07.9 | 7 38.1 S 1 | 59.3 | 226 24.1 S13 | 29.8 | Canopus | 264 03.0 S52 | 41.9 | | | | | |
| | 01 | 211 18.4 | 206 47.1 | 28.6 | 98 02.5 | 07.7 | 22 40.9 | 59.2 | 241 26.3 | 29.7 | Capella | 280 57.0 N45 | 59.6 | | | | | |
| | 02 | 226 20.8 | 221 50.6 | 27.6 | 113 03.9 | 07.5 | 37 43.6 | 59.0 | 256 28.5 | 29.6 | Deneb | 49 41.9 N45 | 15.2 | | | | | |
| | 03 | 241 23.3 | 236 54.1 | 26.6 | 128 05.2 | 07.2 | 52 46.4 | 58.9 | 271 30.8 | 29.6 | Denebola | 182 48.7 N14 | 36.4 | | | | | |
| | 04 | 256 25.8 | 251 57.6 | 25.7 | 143 06.6 | 07.0 | 67 49.1 | 58.8 | 286 33.0 | 29.5 | Diphda | 349 11.3 S18 | 01.4 | | | | | |
| | 05 | 271 28.2 | 267 01.2 | 24.7 | 158 08.0 | 06.8 | 82 51.9 | 58.7 | 301 35.3 | 29.4 | | | | | | | | |
| | 06 | 286 30.7 | 282 04.7 N 9 | 23.8 | 173 09.3 N24 | 06.6 | 97 54.6 S 1 | 58.6 | 316 37.5 S13 | 29.3 | Dubhe | 194 09.5 N61 | 47.2 | | | | | |
| | 07 | 301 33.2 | 297 08.2 | 22.8 | 188 10.7 | 06.4 | 112 57.4 | 58.4 | 331 39.8 | 29.3 | Elnath | 278 31.9 N28 | 36.1 | | | | | |
| | 08 | 316 35.6 | 312 11.7 | 21.8 | 203 12.1 | 06.2 | 128 00.1 | 58.3 | 346 42.0 | 29.2 | Eltanin | 90 53.0 N51 | 29.1 | | | | | |
| | 09 | 331 38.1 | 327 15.2 | 20.9 | 218 13.5 | 06.0 | 143 02.9 | 58.2 | 1 44.3 | 29.1 | Enif | 34 02.1 N 9 | 50.6 | | | | | |
| | 10 | 346 40.6 | 342 18.7 | 19.9 | 233 14.8 | 05.8 | 158 05.6 | 58.1 | 16 46.5 | 29.1 | Fomalhaut | 15 40.8 S29 | 39.4 | | | | | |
| | 11 | 1 43.0 | 357 22.2 | 18.9 | 248 16.2 | 05.6 | 173 08.4 | 58.0 | 31 48.7 | 29.0 | | | | | | | | |
| | 12 | 16 45.5 | 12 25.7 N 9 | 18.0 | 263 17.6 N24 | 05.3 | 188 11.1 S 1 | 57.8 | 46 51.0 S13 | 28.9 | Gacrux | 172 17.3 S57 | 04.8 | | | | | |
| | 13 | 31 48.0 | 27 29.2 | 17.0 | 278 18.9 | 05.1 | 203 13.9 | 57.7 | 61 53.2 | 28.8 | Gienah | 176 07.5 S17 | 30.5 | | | | | |
| | 14 | 46 50.4 | 42 32.7 | 16.1 | 293 20.3 | 04.9 | 218 16.7 | 57.6 | 76 55.5 | 28.8 | Hadar | 149 08.8 S60 | 20.5 | | | | | |
| | 15 | 61 52.9 | 57 36.2 | 15.1 | 308 21.7 | 04.7 | 233 19.4 | 57.5 | 91 57.7 | 28.7 | Hamal | 328 18.2 N23 | 25.8 | | | | | |
| | 16 | 76 55.3 | 72 39.7 | 14.1 | 323 23.0 | 04.5 | 248 22.2 | 57.3 | 107 00.0 | 28.6 | Kaus Aust. | 84 03.7 S34 | 23.2 | | | | | |
| | 17 | 91 57.8 | 87 43.1 | 13.2 | 338 24.4 | 04.3 | 263 24.9 | 57.2 | 122 02.2 | 28.6 | | | | | | | | |
| | 18 | 107 00.3 | 102 46.6 N 9 | 12.2 | 353 25.7 N24 | 04.1 | 278 27.7 S 1 | 57.1 | 137 04.5 S13 | 28.5 | Kochab | 137 18.2 N74 | 10.8 | | | | | |
| | 19 | 122 02.7 | 117 50.1 | 11.3 | 8 27.1 | 03.9 | 293 30.4 | 57.0 | 152 06.7 | 28.4 | Markab | 13 53.6 N15 | 10.1 | | | | | |
| | 20 | 137 05.2 | 132 53.6 | 10.3 | 23 28.5 | 03.6 | 308 33.2 | 56.9 | 167 09.0 | 28.3 | Menkar | 314 31.1 N 4 | 03.7 | | | | | |
| | 21 | 152 07.7 | 147 57.0 | 09.3 | 38 29.8 | 03.4 | 323 35.9 | 56.7 | 182 11.2 | 28.3 | Menkent | 148 25.0 S36 | 20.4 | | | | | |
| | 22 | 167 10.1 | 163 00.5 | 08.4 | 53 31.2 | 03.2 | 338 38.7 | 56.6 | 197 13.5 | 28.2 | Miaplacidus | 221 42.5 S69 | 41.8 | | | | | |
| 23 | 182 12.6 | 178 04.0 | 07.4 | 68 32.6 | 03.0 | 353 41.4 | 56.5 | 212 15.7 | 28.1 | | | | | | | | | |
| V I E R N E S | 9 00 | 197 15.1 | 193 07.4 N 9 | 06.5 | 83 33.9 N24 | 02.8 | 8 44.2 S 1 | 56.4 | 227 17.9 S13 | 28.1 | Mirfak | 309 02.5 N49 | 50.3 | | | | | |
| | 01 | 212 17.5 | 208 10.9 | 05.5 | 98 35.3 | 02.6 | 23 46.9 | 56.3 | 242 20.2 | 28.0 | Nunki | 76 17.0 S26 | 18.3 | | | | | |
| | 02 | 227 20.0 | 223 14.4 | 04.5 | 113 36.7 | 02.4 | 38 49.7 | 56.1 | 257 22.4 | 27.9 | Peacock | 53 43.0 S56 | 45.2 | | | | | |
| | 03 | 242 22.5 | 238 17.8 | 03.6 | 128 38.0 | 02.1 | 53 52.4 | 56.0 | 272 24.7 | 27.8 | Pollux | 243 46.1 N28 | 02.5 | | | | | |
| | 04 | 257 24.9 | 253 21.3 | 02.6 | 143 39.4 | 01.9 | 68 55.2 | 55.9 | 287 26.9 | 27.8 | Procyon | 245 15.5 N 5 | 14.4 | | | | | |
| | 05 | 272 27.4 | 268 24.7 | 01.7 | 158 40.7 | 01.7 | 83 57.9 | 55.8 | 302 29.2 | 27.7 | | | | | | | | |
| | 06 | 287 29.8 | 283 28.1 N 9 | 00.7 | 173 42.1 N24 | 01.5 | 99 00.7 S 1 | 55.7 | 317 31.4 S13 | 27.6 | Rasalhague | 96 20.3 N12 | 33.7 | | | | | |
| | 07 | 302 32.3 | 298 31.6 | 59.8 | 188 43.5 | 01.3 | 114 03.4 | 55.5 | 332 33.7 | 27.6 | Regulus | 207 59.3 N11 | 59.8 | | | | | |
| | 08 | 317 34.8 | 313 35.0 | 58.8 | 203 44.8 | 01.1 | 129 06.2 | 55.4 | 347 35.9 | 27.5 | Rigel | 281 26.7 S 8 | 12.7 | | | | | |
| | 09 | 332 37.2 | 328 38.4 | 57.9 | 218 46.2 | 00.8 | 144 08.9 | 55.3 | 2 38.2 | 27.4 | Rigil Kent. | 140 11.8 S60 | 48.5 | | | | | |
| | 10 | 347 39.7 | 343 41.9 | 56.9 | 233 47.5 | 00.6 | 159 11.7 | 55.2 | 17 40.4 | 27.3 | Sabik | 102 29.7 S15 | 43.1 | | | | | |
| | 11 | 2 42.2 | 358 45.3 | 55.9 | 248 48.9 | 00.4 | 174 14.5 | 55.1 | 32 42.7 | 27.3 | | | | | | | | |
| | 12 | 17 44.6 | 13 48.7 N 8 | 55.0 | 263 50.2 N24 | 00.2 | 189 17.2 S 1 | 54.9 | 47 44.9 S13 | 27.2 | Schedar | 349 58.4 N56 | 30.0 | | | | | |
| | 13 | 32 47.1 | 28 52.1 | 54.0 | 278 51.6 | 00.0 | 204 20.0 | 54.8 | 62 47.2 | 27.1 | Shaula | 96 42.2 S37 | 05.9 | | | | | |
| | 14 | 47 49.6 | 43 55.6 | 53.1 | 293 53.0 | 23 59.8 | 219 22.7 | 54.7 | 77 49.4 | 27.1 | Sirius | 258 47.0 S16 | 42.7 | | | | | |
| | 15 | 62 52.0 | 58 59.0 | 52.1 | 308 54.3 | 59.5 | 234 25.5 | 54.6 | 92 51.7 | 27.0 | Spica | 158 46.9 S11 | 07.8 | | | | | |
| | 16 | 77 54.5 | 74 02.4 | 51.2 | 323 55.7 | 59.3 | 249 28.2 | 54.5 | 107 53.9 | 26.9 | Suhail | 223 03.4 S43 | 24.7 | | | | | |
| | 17 | 92 56.9 | 89 05.8 | 50.2 | 338 57.0 | 59.1 | 264 31.0 | 54.3 | 122 56.2 | 26.9 | | | | | | | | |
| | 18 | 107 59.4 | 104 09.2 N 8 | 49.3 | 353 58.4 N23 | 58.9 | 279 33.7 S 1 | 54.2 | 137 58.4 S13 | 26.8 | Vega | 80 49.1 N38 | 46.4 | | | | | |
| | 19 | 123 01.9 | 119 12.6 | 48.3 | 8 59.7 | 58.7 | 294 36.5 | 54.1 | 153 00.6 | 26.7 | Zuben'ubi | 137 21.9 S16 | 01.0 | | | | | |
| | 20 | 138 04.3 | 134 16.0 | 47.4 | 24 01.1 | 58.5 | 309 39.2 | 54.0 | 168 02.9 | 26.6 | | | | | | | | |
| | 21 | 153 06.8 | 149 19.4 | 46.4 | 39 02.4 | 58.2 | 324 42.0 | 53.9 | 183 05.1 | 26.6 | | | | | | | | |
| | 22 | 168 09.3 | 164 22.8 | 45.5 | 54 03.8 | 58.0 | 339 44.7 | 53.7 | 198 07.4 | 26.5 | Venus | 355 27.6 | 11 10 | | | | | |
| 23 | 183 11.7 | 179 26.2 | 44.5 | 69 05.2 | 57.8 | 354 47.5 | 53.6 | 213 09.6 | 26.4 | Marte | 246 45.2 | 18 26 | | | | | | |
| | | | | | | | | | | Júpiter | 171 22.2 | 23 25 | | | | | | |
| | | | | | | | | | | Saturno | 30 08.1 | 8 53 | | | | | | |

Pas. Mer. 10 53.2

v 3.5 d 1.0

v 1.4 d 0.2

v 2.8 d 0.1

v 2.2 d 0.1

A. H. S. Pas. Mer.
o / h m
355 27.6 11 10
246 45.2 18 26
171 22.2 23 25
30 08.1 8 53

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|---|----------|-------------------|----------|----------|----------|---------|------|------------|-----------|------------|-----------|---------------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 7 | 8 | 9 | 10 | |
| | | | | | | | | | | | | | | | | h |
| M I E R C O L E S | 7 00 | 179 26.2 N 6 45.0 | 358 06.5 | 7.2 | S11 42.5 | 12.5 | 61.0 | N 72 | /// | 02 55 | 04 19 | 23 17 | ■ | ■ | ■ | |
| | 01 | 194 26.4 | 46.0 | 12 32.7 | 7.1 | 11 55.0 | 12.4 | 60.9 | N 70 | 01 09 | 03 19 | 04 30 | 22 30 | ■ | ■ | |
| | 02 | 209 26.6 | 46.9 | 26 58.8 | 7.1 | 12 07.4 | 12.2 | 60.9 | 68 | 02 00 | 03 36 | 04 40 | 22 00 | 24 12 | 00 12 | ■ |
| | 03 | 224 26.8 | 47.9 | 41 24.9 | 7.0 | 12 19.6 | 12.2 | 60.9 | 66 | 02 30 | 03 51 | 04 47 | 21 37 | 23 33 | 25 18 | 01 18 |
| | 04 | 239 26.9 | 48.8 | 55 50.9 | 7.0 | 12 31.8 | 12.1 | 60.9 | 64 | 02 52 | 04 02 | 04 54 | 21 20 | 23 05 | 24 39 | 00 39 |
| | 05 | 254 27.1 | 49.7 | 70 16.9 | 7.0 | 12 43.9 | 12.0 | 60.9 | 62 | 03 10 | 04 12 | 05 00 | 21 06 | 22 44 | 24 12 | 00 12 |
| | 06 | 269 27.3 N 6 50.7 | 84 42.9 | 7.0 | S12 55.9 | 12.0 | 60.9 | N 58 | 03 35 | 04 27 | 05 09 | 20 43 | 22 13 | 23 34 | 24 39 | |
| | 07 | 284 27.5 | 51.6 | 99 08.9 | 6.9 | 13 07.9 | 11.8 | 60.8 | 56 | 03 45 | 04 34 | 05 13 | 20 34 | 22 01 | 23 19 | 24 23 |
| | 08 | 299 27.7 | 52.6 | 113 34.8 | 6.9 | 13 19.7 | 11.7 | 60.8 | 54 | 03 54 | 04 39 | 05 16 | 20 26 | 21 51 | 23 07 | 24 10 |
| | 09 | 314 27.8 | 53.5 | 128 00.7 | 6.8 | 13 31.4 | 11.6 | 60.8 | 52 | 04 01 | 04 44 | 05 19 | 20 19 | 21 41 | 22 56 | 23 59 |
| | 10 | 329 28.0 | 54.4 | 142 26.5 | 6.8 | 13 43.0 | 11.6 | 60.8 | 50 | 04 08 | 04 49 | 05 22 | 20 12 | 21 33 | 22 46 | 23 48 |
| | 11 | 344 28.2 | 55.4 | 156 52.3 | 6.8 | 13 54.6 | 11.4 | 60.8 | 45 | 04 22 | 04 58 | 05 28 | 19 59 | 21 15 | 22 25 | 23 27 |
| | 12 | 359 28.4 N 6 56.3 | 171 18.1 | 6.7 | S14 06.0 | 11.3 | 60.7 | N 40 | 04 33 | 05 06 | 05 33 | 19 47 | 21 01 | 22 09 | 23 10 | |
| | 13 | 14 28.5 | 57.2 | 185 43.8 | 6.7 | 14 17.3 | 11.3 | 60.7 | 35 | 04 41 | 05 12 | 05 37 | 19 38 | 20 48 | 21 55 | 22 55 |
| | 14 | 29 28.7 | 58.2 | 200 09.5 | 6.7 | 14 28.6 | 11.1 | 60.7 | 30 | 04 48 | 05 17 | 05 41 | 19 30 | 20 38 | 21 43 | 22 43 |
| | 15 | 44 28.9 | 6 59.1 | 214 35.2 | 6.6 | 14 39.7 | 11.0 | 60.7 | 20 | 04 59 | 05 26 | 05 48 | 19 15 | 20 20 | 21 22 | 22 21 |
| | 16 | 59 29.1 | 7 00.1 | 229 00.8 | 6.6 | 14 50.7 | 10.9 | 60.6 | N 10 | 05 08 | 05 32 | 05 53 | 19 03 | 20 04 | 21 04 | 22 02 |
| | 17 | 74 29.2 | 01.0 | 243 26.4 | 6.6 | 15 01.6 | 10.8 | 60.6 | 0 | 05 14 | 05 38 | 05 59 | 18 51 | 19 49 | 20 47 | 21 45 |
| | 18 | 89 29.4 N 7 01.9 | 257 52.0 | 6.5 | S15 12.4 | 10.7 | 60.6 | S 10 | 05 18 | 05 42 | 06 04 | 18 40 | 19 35 | 20 31 | 21 28 | |
| | 19 | 104 29.6 | 02.9 | 272 17.5 | 6.5 | 15 23.1 | 10.6 | 60.6 | 20 | 05 21 | 05 47 | 06 09 | 18 27 | 19 19 | 20 13 | 21 09 |
| | 20 | 119 29.8 | 03.8 | 286 43.0 | 6.5 | 15 33.7 | 10.5 | 60.6 | 30 | 05 23 | 05 51 | 06 15 | 18 14 | 19 01 | 19 53 | 20 48 |
| | 21 | 134 29.9 | 04.7 | 301 08.5 | 6.5 | 15 44.2 | 10.3 | 60.5 | 35 | 05 23 | 05 53 | 06 18 | 18 06 | 18 51 | 19 41 | 20 35 |
| | 22 | 149 30.1 | 05.7 | 315 34.0 | 6.4 | 15 54.5 | 10.3 | 60.5 | 40 | 05 23 | 05 55 | 06 22 | 17 57 | 18 39 | 19 27 | 20 21 |
| 23 | 164 30.3 | 06.6 | 329 59.4 | 6.3 | 16 04.8 | 10.1 | 60.5 | 45 | 05 23 | 05 57 | 06 26 | 17 46 | 18 26 | 19 11 | 20 04 | |
| J U E V E S | 8 00 | 179 30.5 N 7 07.6 | 344 24.7 | 6.4 | S16 14.9 | 10.0 | 60.4 | S 50 | 05 22 | 05 59 | 06 31 | 17 33 | 18 09 | 18 52 | 19 43 | |
| | 01 | 194 30.6 | 08.5 | 358 50.1 | 6.3 | 16 24.9 | 9.9 | 60.4 | 52 | 05 21 | 06 00 | 06 34 | 17 28 | 18 01 | 18 43 | 19 33 |
| | 02 | 209 30.8 | 09.4 | 13 15.4 | 6.3 | 16 34.8 | 9.8 | 60.4 | 54 | 05 20 | 06 01 | 06 36 | 17 21 | 17 53 | 18 32 | 19 22 |
| | 03 | 224 31.0 | 10.4 | 27 40.7 | 6.3 | 16 44.6 | 9.6 | 60.4 | 56 | 05 19 | 06 02 | 06 39 | 17 14 | 17 43 | 18 20 | 19 09 |
| | 04 | 239 31.2 | 11.3 | 42 06.0 | 6.3 | 16 54.2 | 9.6 | 60.3 | 58 | 05 17 | 06 03 | 06 42 | 17 06 | 17 32 | 18 07 | 18 54 |
| | 05 | 254 31.3 | 12.2 | 56 31.3 | 6.2 | 17 03.8 | 9.4 | 60.3 | S 60 | 05 16 | 06 04 | 06 46 | 16 57 | 17 19 | 17 51 | 18 36 |
| | 06 | 269 31.5 N 7 13.2 | 70 56.5 | 6.2 | S17 13.2 | 9.3 | 60.3 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| | 07 | 284 31.7 | 14.1 | 85 21.7 | 6.1 | 17 22.5 | 9.1 | 60.2 | | Civil | Naut. | 7 | 8 | 9 | 10 | |
| | 08 | 299 31.9 | 15.0 | 99 46.8 | 6.2 | 17 31.6 | 9.0 | 60.2 | N 72 | 19 48 | 21 14 | /// | 03 22 | 02 34 | ■ | ■ |
| | 09 | 314 32.0 | 16.0 | 114 12.0 | 6.1 | 17 40.6 | 8.9 | 60.2 | N 70 | 19 36 | 20 49 | 23 09 | 03 44 | 03 22 | ■ | ■ |
| | 10 | 329 32.2 | 16.9 | 128 37.1 | 6.1 | 17 49.5 | 8.8 | 60.2 | 68 | 19 27 | 20 31 | 22 10 | 04 01 | 03 54 | 03 43 | ■ |
| | 11 | 344 32.4 | 17.8 | 143 02.2 | 6.1 | 17 58.3 | 8.7 | 60.1 | 66 | 19 19 | 20 16 | 21 38 | 04 15 | 04 17 | 04 23 | 04 40 |
| | 12 | 359 32.6 N 7 18.8 | 157 27.3 | 6.1 | S18 07.0 | 8.5 | 60.1 | 64 | 19 12 | 20 04 | 21 15 | 04 26 | 04 36 | 04 51 | 05 20 | |
| | 13 | 14 32.7 | 19.7 | 171 52.4 | 6.0 | 18 15.5 | 8.4 | 60.1 | 62 | 19 06 | 19 54 | 20 57 | 04 36 | 04 51 | 05 13 | 05 47 |
| | 14 | 29 32.9 | 20.6 | 186 17.4 | 6.0 | 18 23.9 | 8.2 | 60.0 | 60 | 19 01 | 19 45 | 20 43 | 04 45 | 05 04 | 05 30 | 06 08 |
| | 15 | 44 33.1 | 21.6 | 200 42.4 | 6.0 | 18 32.1 | 8.1 | 60.0 | N 58 | 18 56 | 19 38 | 20 31 | 04 53 | 05 15 | 05 45 | 06 26 |
| | 16 | 59 33.3 | 22.5 | 215 07.4 | 6.0 | 18 40.2 | 8.0 | 60.0 | 56 | 18 52 | 19 32 | 20 20 | 04 59 | 05 25 | 05 58 | 06 40 |
| | 17 | 74 33.4 | 23.4 | 229 32.4 | 6.0 | 18 48.2 | 7.9 | 59.9 | 54 | 18 49 | 19 26 | 20 12 | 05 05 | 05 33 | 06 09 | 06 53 |
| | 18 | 89 33.6 N 7 24.4 | 243 57.4 | 6.0 | S18 56.1 | 7.7 | 59.9 | 52 | 18 46 | 19 21 | 20 04 | 05 11 | 05 41 | 06 18 | 07 04 | |
| | 19 | 104 33.8 | 25.3 | 258 22.4 | 5.9 | 19 03.8 | 7.6 | 59.9 | 50 | 18 43 | 19 16 | 19 57 | 05 16 | 05 48 | 06 27 | 07 14 |
| | 20 | 119 34.0 | 26.2 | 272 47.3 | 5.9 | 19 11.4 | 7.4 | 59.8 | 45 | 18 36 | 19 07 | 19 43 | 05 26 | 06 03 | 06 46 | 07 35 |
| | 21 | 134 34.1 | 27.2 | 287 12.2 | 6.0 | 19 18.8 | 7.4 | 59.8 | N 40 | 18 31 | 18 59 | 19 32 | 05 35 | 06 15 | 07 01 | 07 52 |
| | 22 | 149 34.3 | 28.1 | 301 37.2 | 5.9 | 19 26.2 | 7.1 | 59.8 | 35 | 18 27 | 18 53 | 19 23 | 05 43 | 06 26 | 07 14 | 08 06 |
| 23 | 164 34.5 | 29.0 | 316 02.1 | 5.9 | 19 33.3 | 7.1 | 59.7 | 30 | 18 23 | 18 47 | 19 16 | 05 50 | 06 35 | 07 25 | 08 18 | |
| V I E R N E S | 9 00 | 179 34.6 N 7 30.0 | 330 27.0 | 5.9 | S19 40.4 | 6.9 | 59.7 | 20 | 18 16 | 18 38 | 19 05 | 06 01 | 06 51 | 07 44 | 08 40 | |
| | 01 | 194 34.8 | 30.9 | 344 51.9 | 5.9 | 19 47.3 | 6.7 | 59.7 | N 10 | 18 10 | 18 32 | 18 56 | 06 12 | 07 05 | 08 01 | 08 58 |
| | 02 | 209 35.0 | 31.8 | 359 16.8 | 5.9 | 19 54.0 | 6.6 | 59.6 | 0 | 18 05 | 18 26 | 18 50 | 06 21 | 07 19 | 08 17 | 09 15 |
| | 03 | 224 35.2 | 32.7 | 13 41.7 | 5.8 | 20 00.6 | 6.5 | 59.6 | S 10 | 18 00 | 18 21 | 18 46 | 06 31 | 07 32 | 08 33 | 09 32 |
| | 04 | 239 35.3 | 33.7 | 28 06.5 | 5.9 | 20 07.1 | 6.3 | 59.6 | 20 | 17 55 | 18 17 | 18 42 | 06 41 | 07 46 | 08 50 | 09 51 |
| | 05 | 254 35.5 | 34.6 | 42 31.4 | 5.9 | 20 13.4 | 6.2 | 59.5 | 30 | 17 48 | 18 12 | 18 40 | 06 53 | 08 02 | 09 09 | 10 12 |
| | 06 | 269 35.7 N 7 35.5 | 56 56.3 | 5.9 | S20 19.6 | 6.1 | 59.5 | 35 | 17 45 | 18 10 | 18 40 | 07 00 | 08 12 | 09 20 | 10 24 | |
| | 07 | 284 35.8 | 36.5 | 71 21.2 | 5.8 | 20 25.7 | 5.9 | 59.4 | 40 | 17 41 | 18 08 | 18 40 | 07 08 | 08 22 | 09 34 | 10 39 |
| | 08 | 299 36.0 | 37.4 | 85 46.0 | 5.9 | 20 31.6 | 5.7 | 59.4 | 45 | 17 37 | 18 06 | 18 40 | 07 17 | 08 35 | 09 49 | 10 55 |
| | 09 | 314 36.2 | 38.3 | 100 10.9 | 5.9 | 20 37.3 | 5.7 | 59.4 | S 50 | 17 31 | 18 04 | 18 41 | 07 28 | 08 51 | 10 08 | 11 16 |
| | 10 | 329 36.4 | 39.2 | 114 35.8 | 5.9 | 20 43.0 | 5.4 | 59.3 | 52 | 17 29 | 18 03 | 18 42 | 07 34 | 08 58 | 10 17 | 11 26 |
| | 11 | 344 36.5 | 40.2 | 129 00.7 | 5.8 | 20 48.4 | 5.4 | 59.3 | 54 | 17 26 | 18 02 | 18 43 | 07 39 | 09 06 | 10 27 | 11 37 |
| | 12 | 359 36.7 N 7 41.1 | 143 25.5 | 5.9 | S20 53.8 | 5.2 | 59.3 | 56 | 17 23 | 18 01 | 18 44 | 07 46 | 09 15 | 10 39 | 11 50 | |
| | 13 | 14 36.9 | 42.0 | 157 50.4 | 5.9 | 20 59.0 | 5.0 | 59.2 | 58 | 17 20 | 18 00 | 18 45 | 07 53 | 09 26 | 10 52 | 12 05 |
| | 14 | 29 37.0 | 43.0 | 172 15.3 | 6.0 | 21 04.0 | 4.9 | 59.2 | S 60 | 17 17 | 17 58 | 18 46 | 08 01 | 09 38 | 11 07 | 12 23 |
| | 15 | 44 37.2 | 43.9 | 186 40.3 | 5.9 | 21 08.9 | 4.8 | 59.1 | Día | SOL | | | LUNA | | | |
| | 16 | 59 37.4 | 44.8 | 201 05.2 | 5.9 | 21 13.7 | 4.6 | 59.1 | | E.T. (-) | Pas. Mer. | Pas. Sup. Mer. Inf. | | Edad. | Fase | |
| | 17 | 74 37.6 | 45.7 | 215 30.1 | 5.9 | 21 18.3 | 4.4 | 59.1 | | 00 h | 12 h | h m | h m | h m | d | |
| | 18 | 89 37.7 N 7 46.7 | 229 55.0 | 6.0 | S21 22.7 | 4.4 | 59.0 | 7 | m s | m s | h m | h m | h m | | | |
| | 19 | 104 37.9 | 47.6 | 244 20.0 | 6.0 | 21 27.1 | 4.1 | 59.0 | 8 | 02 15 | 02 07 | 12 02 | 00 08 | 12 36 | 15 | ○ |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +0.8 | | | JUPITER -2.5 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|----------------|----------|--------------|--------|--------------|--------------|------|--------------|----------|------|--------------|--------|-------------|--------------|----------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | A. H. S. | Dec. | | |
| 10 00 | 198 14.2 | 194 29.5 N 8 | 43.6 | 84 06.5 N23 | 9 50.2 S 1 | 53.5 | 228 11.9 S13 | 243 14.1 | 26.3 | 228 11.9 S13 | 26.4 | Acamar | 315 30.1 S40 | 20.0 | | | | |
| 01 | 213 16.7 | 209 32.9 | 42.6 | 99 07.9 | 24 53.0 | 53.4 | 243 14.1 | 26.3 | | 243 14.1 | 26.3 | Achernar | 335 38.5 S57 | 16.2 | | | | |
| 02 | 228 19.1 | 224 36.3 | 41.7 | 114 09.2 | 39 55.7 | 53.3 | 258 16.4 | 26.2 | | 258 16.4 | 26.2 | Acrux | 173 25.6 S63 | 04.0 | | | | |
| 03 | 243 21.6 | 239 39.7 | 40.7 | 129 10.6 | 54 58.5 | 53.1 | 273 18.6 | 26.2 | | 273 18.6 | 26.2 | Adhara | 255 24.4 S28 | 58.1 | | | | |
| 04 | 258 24.1 | 254 43.0 | 39.8 | 144 11.9 | 70 01.2 | 53.0 | 288 20.9 | 26.1 | | 288 20.9 | 26.1 | Aldebaran | 291 06.9 N16 | 29.7 | | | | |
| 05 | 273 26.5 | 269 46.4 | 38.8 | 159 13.3 | 85 04.0 | 52.9 | 303 23.1 | 26.0 | | 303 23.1 | 26.0 | | | | | | | |
| 06 | 288 29.0 | 284 49.8 N 8 | 37.9 | 174 14.6 N23 | 100 06.7 S 1 | 52.8 | 318 25.4 S13 | 25.9 | | 318 25.4 S13 | 25.9 | Alioth | 166 33.3 N55 | 59.7 | | | | |
| 07 | 303 31.4 | 299 53.1 | 37.0 | 189 16.0 | 115 09.5 | 52.7 | 333 27.6 | 25.9 | | 333 27.6 | 25.9 | Alkaid | 153 10.2 N49 | 20.6 | | | | |
| 08 | 318 33.9 | 314 56.5 | 36.0 | 204 17.3 | 130 12.2 | 52.5 | 348 29.9 | 25.8 | | 348 29.9 | 25.8 | Al Na'ir | 28 02.8 S46 | 59.4 | | | | |
| S 09 | 333 36.4 | 329 59.8 | 35.1 | 219 18.7 | 145 15.0 | 52.4 | 3 32.1 | 25.7 | | 3 32.1 | 25.7 | Alnilam | 276 01.8 S 1 | 12.5 | | | | |
| A 10 | 348 38.8 | 345 03.2 | 34.1 | 234 20.0 | 160 17.7 | 52.3 | 18 34.4 | 25.7 | | 18 34.4 | 25.7 | Alphard | 218 10.7 S 8 | 38.0 | | | | |
| B 11 | 3 41.3 | 0 06.5 | 33.2 | 249 21.4 | 175 20.5 | 52.2 | 33 36.6 | 25.6 | | 33 36.6 | 25.6 | | | | | | | |
| A 12 | 18 43.8 | 15 09.9 N 8 | 32.2 | 264 22.7 N23 | 190 23.2 S 1 | 52.1 | 48 38.9 S13 | 25.5 | | 48 38.9 S13 | 25.5 | Alphecca | 126 23.5 N26 | 44.0 | | | | |
| D 13 | 33 46.2 | 30 13.2 | 31.3 | 279 24.1 | 205 26.0 | 51.9 | 63 41.1 | 25.5 | | 63 41.1 | 25.5 | Alpheratz | 357 59.5 N29 | 03.1 | | | | |
| O 14 | 48 48.7 | 45 16.6 | 30.4 | 294 25.4 | 220 28.7 | 51.8 | 78 43.4 | 25.4 | | 78 43.4 | 25.4 | Altair | 62 23.0 N 8 | 50.9 | | | | |
| 15 | 63 51.2 | 60 19.9 | 29.4 | 309 26.8 | 235 31.5 | 51.7 | 93 45.6 | 25.3 | | 93 45.6 | 25.3 | Ankaa | 353 30.9 S42 | 20.5 | | | | |
| 16 | 78 53.6 | 75 23.2 | 28.5 | 324 28.1 | 250 34.2 | 51.6 | 108 47.9 | 25.2 | | 108 47.9 | 25.2 | Antares | 112 44.5 S26 | 25.1 | | | | |
| 17 | 93 56.1 | 90 26.6 | 27.6 | 339 29.4 | 265 37.0 | 51.5 | 123 50.1 | 25.2 | | 123 50.1 | 25.2 | | | | | | | |
| 18 | 108 58.6 | 105 29.9 N 8 | 26.6 | 354 30.8 N23 | 280 39.7 S 1 | 51.3 | 138 52.4 S13 | 25.1 | | 138 52.4 S13 | 25.1 | Arcturus | 146 09.1 N19 | 12.8 | | | | |
| 19 | 124 01.0 | 120 33.2 | 25.7 | 9 32.1 | 295 42.5 | 51.2 | 153 54.6 | 25.0 | | 153 54.6 | 25.0 | Atria | 107 59.6 S69 | 00.8 | | | | |
| 20 | 139 03.5 | 135 36.5 | 24.7 | 24 33.5 | 310 45.2 | 51.1 | 168 56.9 | 25.0 | | 168 56.9 | 25.0 | Avior | 234 24.1 S59 | 29.7 | | | | |
| 21 | 154 05.9 | 150 39.8 | 23.8 | 39 34.8 | 325 48.0 | 51.0 | 183 59.1 | 24.9 | | 183 59.1 | 24.9 | Bellatrix | 278 48.4 N 6 | 20.5 | | | | |
| 22 | 169 08.4 | 165 43.1 | 22.9 | 54 36.2 | 340 50.7 | 50.9 | 199 01.4 | 24.8 | | 199 01.4 | 24.8 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | |
| 23 | 184 10.9 | 180 46.4 | 21.9 | 69 37.5 | 355 53.5 | 50.7 | 214 03.6 | 24.8 | | 214 03.6 | 24.8 | | | | | | | |
| 11 00 | 199 13.3 | 195 49.7 N 8 | 21.0 | 84 38.9 N23 | 10 56.2 S 1 | 50.6 | 229 05.9 S13 | 24.7 | | 229 05.9 S13 | 24.7 | Canopus | 264 03.0 S52 | 41.9 | | | | |
| 01 | 214 15.8 | 210 53.0 | 20.1 | 99 40.2 | 25 59.0 | 50.5 | 244 08.2 | 24.6 | | 244 08.2 | 24.6 | Capella | 280 57.0 N45 | 59.6 | | | | |
| 02 | 229 18.3 | 225 56.3 | 19.2 | 114 41.5 | 41 01.7 | 50.4 | 259 10.4 | 24.6 | | 259 10.4 | 24.6 | Deneb | 49 41.9 N45 | 15.2 | | | | |
| 03 | 244 20.7 | 240 59.6 | 18.2 | 129 42.9 | 56 04.4 | 50.3 | 274 12.7 | 24.5 | | 274 12.7 | 24.5 | Denebola | 182 48.7 N14 | 36.4 | | | | |
| 04 | 259 23.2 | 256 02.9 | 17.3 | 144 44.2 | 71 07.2 | 50.2 | 289 14.9 | 24.4 | | 289 14.9 | 24.4 | Diphda | 349 11.3 S18 | 01.4 | | | | |
| 05 | 274 25.7 | 271 06.2 | 16.4 | 159 45.6 | 86 09.9 | 50.0 | 304 17.2 | 24.3 | | 304 17.2 | 24.3 | | | | | | | |
| 06 | 289 28.1 | 286 09.5 N 8 | 15.4 | 174 46.9 N23 | 101 12.7 S 1 | 49.9 | 319 19.4 S13 | 24.3 | | 319 19.4 S13 | 24.3 | Dubhe | 194 09.5 N61 | 47.2 | | | | |
| 07 | 304 30.6 | 301 12.7 | 14.5 | 189 48.3 | 116 15.4 | 49.8 | 334 21.7 | 24.2 | | 334 21.7 | 24.2 | Elnath | 278 31.9 N28 | 36.1 | | | | |
| D 08 | 319 33.0 | 316 16.0 | 13.6 | 204 49.6 | 131 18.2 | 49.7 | 349 23.9 | 24.1 | | 349 23.9 | 24.1 | Eltanin | 90 52.9 N51 | 29.1 | | | | |
| O 09 | 334 35.5 | 331 19.3 | 12.7 | 219 50.9 | 146 20.9 | 49.6 | 4 26.2 | 24.1 | | 4 26.2 | 24.1 | Enif | 34 02.1 N 9 | 50.6 | | | | |
| M 10 | 349 38.0 | 346 22.6 | 11.7 | 234 52.3 | 161 23.7 | 49.4 | 19 28.4 | 24.0 | | 19 28.4 | 24.0 | Fomalhaut | 15 40.8 S29 | 39.4 | | | | |
| I 11 | 4 40.4 | 1 25.8 | 10.8 | 249 53.6 | 176 26.4 | 49.3 | 34 30.7 | 23.9 | | 34 30.7 | 23.9 | | | | | | | |
| N 12 | 19 42.9 | 16 29.1 N 8 | 09.9 | 264 55.0 N23 | 191 29.2 S 1 | 49.2 | 49 32.9 S13 | 23.9 | | 49 32.9 S13 | 23.9 | Gacrux | 172 17.3 S57 | 04.8 | | | | |
| G 13 | 34 45.4 | 31 32.3 | 09.0 | 279 56.3 | 206 31.9 | 49.1 | 64 35.2 | 23.8 | | 64 35.2 | 23.8 | Gienah | 176 07.5 S17 | 30.5 | | | | |
| O 14 | 49 47.8 | 46 35.6 | 08.0 | 294 57.6 | 221 34.7 | 49.0 | 79 37.4 | 23.7 | | 79 37.4 | 23.7 | Hadar | 149 08.8 S60 | 20.5 | | | | |
| 15 | 64 50.3 | 61 38.8 | 07.1 | 309 59.0 | 236 37.4 | 48.9 | 94 39.7 | 23.7 | | 94 39.7 | 23.7 | Hamal | 328 18.2 N23 | 25.8 | | | | |
| 16 | 79 52.8 | 76 42.1 | 06.2 | 325 00.3 | 251 40.2 | 48.7 | 109 41.9 | 23.6 | | 109 41.9 | 23.6 | Kaus Aust. | 84 03.7 S34 | 23.2 | | | | |
| 17 | 94 55.2 | 91 45.3 | 05.3 | 340 01.6 | 266 42.9 | 48.6 | 124 44.2 | 23.5 | | 124 44.2 | 23.5 | | | | | | | |
| 18 | 109 57.7 | 106 48.6 N 8 | 04.4 | 355 03.0 N23 | 281 45.7 S 1 | 48.5 | 139 46.4 S13 | 23.4 | | 139 46.4 S13 | 23.4 | Kochab | 137 18.2 N74 | 10.8 | | | | |
| 19 | 125 00.2 | 121 51.8 | 03.4 | 10 04.3 | 296 48.4 | 48.4 | 154 48.7 | 23.4 | | 154 48.7 | 23.4 | Markab | 13 53.6 N15 | 10.1 | | | | |
| 20 | 140 02.6 | 136 55.0 | 02.5 | 25 05.7 | 311 51.2 | 48.3 | 169 51.0 | 23.3 | | 169 51.0 | 23.3 | Menkar | 314 31.1 N 4 | 03.8 | | | | |
| 21 | 155 05.1 | 151 58.2 | 01.6 | 40 07.0 | 326 53.9 | 48.2 | 184 53.2 | 23.2 | | 184 53.2 | 23.2 | Menkent | 148 25.0 S36 | 20.4 | | | | |
| 22 | 170 07.5 | 167 01.5 | 00.7 | 55 08.3 | 341 56.6 | 48.0 | 199 55.5 | 23.2 | | 199 55.5 | 23.2 | Miaplacidus | 221 42.5 S69 | 41.8 | | | | |
| 23 | 185 10.0 | 182 04.7 | 7 59.8 | 70 09.7 | 356 59.4 | 47.9 | 214 57.7 | 23.1 | | 214 57.7 | 23.1 | | | | | | | |
| 12 00 | 200 12.5 | 197 07.9 N 7 | 58.9 | 85 11.0 N23 | 12 02.1 S 1 | 47.8 | 230 00.0 S13 | 23.0 | | 230 00.0 S13 | 23.0 | Mirfak | 309 02.5 N49 | 50.3 | | | | |
| 01 | 215 14.9 | 212 11.1 | 58.0 | 100 12.3 | 27 04.9 | 47.7 | 245 02.2 | 23.0 | | 245 02.2 | 23.0 | Nunki | 76 16.9 S26 | 18.3 | | | | |
| 02 | 230 17.4 | 227 14.3 | 57.1 | 115 13.7 | 42 07.6 | 47.6 | 260 04.5 | 22.9 | | 260 04.5 | 22.9 | Peacock | 53 43.0 S56 | 45.1 | | | | |
| 03 | 245 19.9 | 242 17.5 | 56.1 | 130 15.0 | 57 10.4 | 47.4 | 275 06.7 | 22.8 | | 275 06.7 | 22.8 | Pollux | 243 46.1 N28 | 02.5 | | | | |
| 04 | 260 22.3 | 257 20.7 | 55.2 | 145 16.3 | 72 13.1 | 47.3 | 290 09.0 | 22.8 | | 290 09.0 | 22.8 | Procyon | 245 15.5 N 5 | 14.4 | | | | |
| 05 | 275 24.8 | 272 23.9 | 54.3 | 160 17.7 | 87 15.9 | 47.2 | 305 11.2 | 22.7 | | 305 11.2 | 22.7 | | | | | | | |
| 06 | 290 27.3 | 287 27.1 N 7 | 53.4 | 175 19.0 N23 | 102 18.6 S 1 | 47.1 | 320 13.5 S13 | 22.6 | | 320 13.5 S13 | 22.6 | Rasalhague | 96 20.3 N12 | 33.7 | | | | |
| 07 | 305 29.7 | 302 30.3 | 52.5 | 190 20.3 | 117 21.4 | 47.0 | 335 15.8 | 22.6 | | 335 15.8 | 22.6 | Regulus | 207 59.3 N11 | 59.8 | | | | |
| 08 | 320 32.2 | 317 33.5 | 51.6 | 205 21.7 | 132 24.1 | 46.9 | 350 18.0 | 22.5 | | 350 18.0 | 22.5 | Rigel | 281 26.7 S 8 | 12.7 | | | | |
| L 09 | 335 34.7 | 332 36.7 | 50.7 | 220 23.0 | 147 26.9 | 46.7 | 5 20.3 | 22.4 | | 5 20.3 | 22.4 | Rigil Kent. | 140 11.7 S60 | 48.5 | | | | |
| U 10 | 350 37.1 | 347 39.9 | 49.8 | 235 24.3 | 162 29.6 | 46.6 | 20 22.5 | 22.4 | | 20 22.5 | 22.4 | Sabik | 102 29.7 S15 | 43.1 | | | | |
| N 11 | 5 39.6 | 2 43.0 | 48.9 | 250 25.7 | 177 32.3 | 46.5 | 35 24.8 | 22.3 | | 35 24.8 | 22.3 | | | | | | | |
| E 12 | 20 42.0 | 17 46.2 N 7 | 48.0 | 265 27.0 N23 | 192 35.1 S 1 | 46.4 | 50 27.0 S13 | 22.2 | | 50 27.0 S13 | 22.2 | Schedar | 349 58.4 N56 | 30.0 | | | | |
| S 13 | 35 44.5 | 32 49.4 | 47.1 | 280 28.3 | 207 37.8 | 46.3 | 65 29.3 | 22.2 | | 65 29.3 | 22.2 | Shaula | 96 42.2 S37 | 05.9 | | | | |
| 14 | 50 47.0 | 47 52.5 | 46.2 | 295 29.6 | 222 40.6 | 46.2 | 80 31.5 | 22.1 | | 80 31.5 | 22.1 | Sirius | 258 47.1 S16 | 42.7 | | | | |
| 15 | 65 49.4 | 62 55.7 | 45.3 | 310 31.0 | 237 43.3 | 46.0 | 95 33.8 | 22.0 | | 95 33.8 | 22.0 | Spica | 158 46.8 S11 | 07.8 | | | | |
| 16 | 80 51. | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|---------------------------------------|--------|------|------|--------|------|------|------|-----|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | A.H.G. | | v | Dec. | d | | P.H. | Naut. | | Civil | 10 | 11 | 12 | 13 | | | |
| | o | ' | | o | ' | | | | | | | | | o | ' | h | m | h | m | h |
| 10 S A B A D O | 00 | 179 | 38.8 | N 7 | 52.2 | 316 | 25.1 | 6.0 | S21 | 46.5 | 3.4 | 58.8 | N 72 | /// | 02 33 | 04 02 | ■ | ■ | ■ | ■ |
| | 01 | 194 | 38.9 | | 53.1 | 330 | 50.1 | 6.1 | 21 | 49.9 | 3.3 | 58.8 | N 70 | /// | 03 01 | 04 16 | ■ | ■ | ■ | 05 08 |
| | 02 | 209 | 39.1 | | 54.1 | 345 | 15.2 | 6.1 | 21 | 53.2 | 3.2 | 58.7 | 68 | 01 33 | 03 21 | 04 27 | ■ | ■ | 04 19 | 03 56 |
| | 03 | 224 | 39.3 | .. | 55.0 | 359 | 40.3 | 6.2 | 21 | 56.4 | 3.0 | 58.7 | 66 | 02 11 | 03 37 | 04 36 | 01 18 | 02 33 | 03 07 | 03 19 |
| | 04 | 239 | 39.4 | | 55.9 | 14 | 05.5 | 6.2 | 21 | 59.4 | 2.8 | 58.6 | 64 | 02 37 | 03 50 | 04 43 | 00 39 | 01 49 | 02 30 | 02 53 |
| | 05 | 254 | 39.6 | | 56.8 | 28 | 30.7 | 6.2 | 22 | 02.2 | 2.8 | 58.6 | 62 | 02 56 | 04 01 | 04 50 | 00 12 | 01 19 | 02 04 | 02 32 |
| | 06 | 269 | 39.8 | N 7 | 57.8 | 42 | 55.9 | 6.2 | S22 | 05.0 | 2.5 | 58.6 | 60 | 03 12 | 04 11 | 04 55 | 24 57 | 00 57 | 01 44 | 02 15 |
| | 07 | 284 | 39.9 | | 58.7 | 57 | 21.1 | 6.3 | 22 | 07.5 | 2.5 | 58.5 | N 58 | 03 25 | 04 18 | 05 00 | 24 39 | 00 39 | 01 27 | 02 01 |
| | 08 | 299 | 40.1 | 7 | 59.6 | 71 | 46.4 | 6.3 | 22 | 10.0 | 2.3 | 58.5 | 56 | 03 36 | 04 25 | 05 05 | 24 23 | 00 23 | 01 12 | 01 49 |
| | 09 | 314 | 40.3 | 8 | 00.5 | 86 | 11.7 | 6.3 | 22 | 12.3 | 2.1 | 58.4 | 54 | 03 45 | 04 32 | 05 09 | 24 10 | 00 10 | 01 00 | 01 38 |
| | 10 | 329 | 40.4 | | 01.5 | 100 | 37.0 | 6.4 | 22 | 14.4 | 2.0 | 58.4 | 52 | 03 54 | 04 37 | 05 12 | 23 59 | 24 49 | 00 49 | 01 29 |
| | 11 | 344 | 40.6 | | 02.4 | 115 | 02.4 | 6.4 | 22 | 16.4 | 1.9 | 58.4 | 50 | 04 01 | 04 42 | 05 16 | 23 48 | 24 40 | 00 40 | 01 20 |
| | 12 | 359 | 40.8 | N 8 | 03.3 | 129 | 27.8 | 6.4 | S22 | 18.3 | 1.7 | 58.3 | 45 | 04 16 | 04 52 | 05 23 | 23 27 | 24 19 | 00 19 | 01 02 |
| | 13 | 14 | 41.0 | | 04.2 | 143 | 53.2 | 6.5 | 22 | 20.0 | 1.6 | 58.3 | N 40 | 04 28 | 05 01 | 05 28 | 23 10 | 24 03 | 00 03 | 00 47 |
| | 14 | 29 | 41.1 | | 05.2 | 158 | 18.7 | 6.5 | 22 | 21.6 | 1.4 | 58.2 | 35 | 04 37 | 05 08 | 05 33 | 22 55 | 23 49 | 24 35 | 00 35 |
| | 15 | 44 | 41.3 | .. | 06.1 | 172 | 44.2 | 6.6 | 22 | 23.0 | 1.3 | 58.2 | 30 | 04 45 | 05 13 | 05 38 | 22 43 | 23 36 | 24 24 | 00 24 |
| | 16 | 59 | 41.5 | | 07.0 | 187 | 09.8 | 6.6 | 22 | 24.3 | 1.1 | 58.2 | 20 | 04 57 | 05 23 | 05 45 | 22 21 | 23 16 | 24 05 | 00 05 |
| | 17 | 74 | 41.6 | | 07.9 | 201 | 35.4 | 6.6 | 22 | 25.4 | 1.0 | 58.1 | N 10 | 05 06 | 05 31 | 05 52 | 22 02 | 22 57 | 23 48 | 24 35 |
| | 18 | 89 | 41.8 | N 8 | 08.8 | 216 | 01.0 | 6.7 | S22 | 26.4 | 0.9 | 58.1 | 0 | 05 13 | 05 37 | 05 58 | 21 45 | 22 41 | 23 33 | 24 22 |
| | 19 | 104 | 42.0 | | 09.8 | 230 | 26.7 | 6.8 | 22 | 27.3 | 0.7 | 58.0 | S 10 | 05 18 | 05 42 | 06 04 | 21 28 | 22 24 | 23 18 | 24 09 |
| | 20 | 119 | 42.1 | | 10.7 | 244 | 52.5 | 6.8 | 22 | 28.0 | 0.6 | 58.0 | 20 | 05 22 | 05 48 | 06 10 | 21 09 | 22 06 | 23 01 | 23 55 |
| | 21 | 134 | 42.3 | .. | 11.6 | 259 | 18.3 | 6.8 | 22 | 28.6 | 0.4 | 58.0 | 30 | 05 25 | 05 53 | 06 17 | 20 48 | 21 45 | 22 42 | 23 39 |
| | 22 | 149 | 42.5 | | 12.5 | 273 | 44.1 | 6.9 | 22 | 29.0 | 0.3 | 57.9 | 35 | 05 26 | 05 55 | 06 21 | 20 35 | 21 32 | 22 31 | 23 29 |
| 23 | 164 | 42.6 | | 13.4 | 288 | 10.0 | 6.9 | 22 | 29.3 | 0.2 | 57.9 | 40 | 05 26 | 05 58 | 06 25 | 20 21 | 21 18 | 22 18 | 23 19 | |
| | | | | | | | | | | | | 45 | 05 26 | 06 00 | 06 30 | 20 04 | 21 02 | 22 03 | 23 06 | |
| 11 D O M I N G O | 00 | 179 | 42.8 | N 8 | 14.4 | 302 | 35.9 | 7.0 | S22 | 29.5 | 0.0 | 57.8 | S 50 | 05 26 | 06 03 | 06 36 | 19 43 | 20 41 | 21 45 | 22 50 |
| | 01 | 194 | 43.0 | | 15.3 | 317 | 01.9 | 7.1 | 22 | 29.5 | 0.1 | 57.8 | 52 | 05 26 | 06 05 | 06 39 | 19 33 | 20 31 | 21 36 | 22 43 |
| | 02 | 209 | 43.1 | | 16.2 | 331 | 28.0 | 7.1 | 22 | 29.4 | 0.2 | 57.8 | 54 | 05 25 | 06 06 | 06 42 | 19 22 | 20 20 | 21 26 | 22 35 |
| | 03 | 224 | 43.3 | .. | 17.1 | 345 | 54.1 | 7.1 | 22 | 29.2 | 0.4 | 57.7 | 56 | 05 25 | 06 08 | 06 45 | 19 09 | 20 08 | 21 15 | 22 26 |
| | 04 | 239 | 43.5 | | 18.0 | 0 | 20.2 | 7.2 | 22 | 28.8 | 0.5 | 57.7 | 58 | 05 24 | 06 09 | 06 49 | 18 54 | 19 53 | 21 02 | 22 16 |
| | 05 | 254 | 43.6 | | 19.0 | 14 | 46.4 | 7.3 | 22 | 28.3 | 0.6 | 57.6 | S 60 | 05 23 | 06 11 | 06 53 | 18 36 | 19 36 | 20 47 | 22 04 |
| | 06 | 269 | 43.8 | N 8 | 19.9 | 29 | 12.7 | 7.3 | S22 | 27.7 | 0.8 | 57.6 | | | | | | | | |
| | 07 | 284 | 44.0 | | 20.8 | 43 | 39.0 | 7.4 | 22 | 26.9 | 0.9 | 57.6 | | | | | | | | |
| | 08 | 299 | 44.1 | | 21.7 | 58 | 05.4 | 7.5 | 22 | 26.0 | 1.1 | 57.5 | | | | | | | | |
| | 09 | 314 | 44.3 | .. | 22.6 | 72 | 31.9 | 7.5 | 22 | 24.9 | 1.1 | 57.5 | | | | | | | | |
| | 10 | 329 | 44.5 | | 23.5 | 86 | 58.4 | 7.5 | 22 | 23.8 | 1.3 | 57.4 | | | | | | | | |
| | 11 | 344 | 44.6 | | 24.5 | 101 | 24.9 | 7.7 | 22 | 22.5 | 1.5 | 57.4 | | | | | | | | |
| | 12 | 359 | 44.8 | N 8 | 25.4 | 115 | 51.6 | 7.7 | S22 | 21.0 | 1.5 | 57.4 | N 72 | 20 04 | 21 36 | /// | ■ | ■ | ■ | ■ |
| | 13 | 14 | 45.0 | | 26.3 | 130 | 18.3 | 7.7 | 22 | 19.5 | 1.7 | 57.3 | N 70 | 19 49 | 21 06 | /// | ■ | ■ | ■ | 06 32 |
| | 14 | 29 | 45.1 | | 27.2 | 144 | 45.0 | 7.9 | 22 | 17.8 | 1.9 | 57.3 | 68 | 19 38 | 20 44 | 22 38 | ■ | ■ | 05 34 | 07 44 |
| | 15 | 44 | 45.3 | .. | 28.1 | 159 | 11.9 | 7.8 | 22 | 15.9 | 1.9 | 57.2 | 66 | 19 29 | 20 28 | 21 56 | 04 40 | 05 25 | 06 45 | 08 20 |
| | 16 | 59 | 45.4 | | 29.0 | 173 | 38.7 | 8.0 | 22 | 14.0 | 2.1 | 57.2 | 64 | 19 21 | 20 14 | 21 29 | 05 20 | 06 09 | 07 22 | 08 46 |
| | 17 | 74 | 45.6 | | 30.0 | 188 | 05.7 | 8.0 | 22 | 11.9 | 2.2 | 57.2 | 62 | 19 14 | 20 03 | 21 09 | 05 47 | 06 39 | 07 47 | 09 06 |
| | 18 | 89 | 45.8 | N 8 | 30.9 | 202 | 32.7 | 8.1 | S22 | 09.7 | 2.3 | 57.1 | 60 | 19 08 | 19 53 | 20 53 | 06 08 | 07 01 | 08 08 | 09 23 |
| | 19 | 104 | 45.9 | | 31.8 | 216 | 59.8 | 8.2 | 22 | 07.4 | 2.4 | 57.1 | N 58 | 19 03 | 19 45 | 20 39 | 06 26 | 07 19 | 08 24 | 09 36 |
| | 20 | 119 | 46.1 | | 32.7 | 231 | 27.0 | 8.2 | 22 | 05.0 | 2.6 | 57.1 | 56 | 18 59 | 19 38 | 20 28 | 06 40 | 07 34 | 08 38 | 09 48 |
| | 21 | 134 | 46.3 | .. | 33.6 | 245 | 54.2 | 8.3 | 22 | 02.4 | 2.7 | 57.0 | 54 | 18 54 | 19 32 | 20 18 | 06 53 | 07 47 | 08 50 | 09 58 |
| | 22 | 149 | 46.4 | | 34.5 | 260 | 21.5 | 8.4 | 21 | 59.7 | 2.8 | 57.0 | 52 | 18 51 | 19 26 | 20 10 | 07 04 | 07 59 | 09 01 | 10 08 |
| 23 | 164 | 46.6 | | 35.5 | 274 | 48.9 | 8.5 | 21 | 56.9 | 3.0 | 56.9 | 50 | 18 47 | 19 21 | 20 03 | 07 14 | 08 09 | 09 11 | 10 16 | |
| | | | | | | | | | | | | 45 | 18 40 | 19 11 | 19 47 | 07 35 | 08 30 | 09 31 | 10 33 | |
| 12 L U N E S | 00 | 179 | 46.8 | N 8 | 36.4 | 289 | 16.4 | 8.5 | S21 | 53.9 | 3.0 | 56.9 | N 40 | 18 34 | 19 02 | 19 35 | 07 52 | 08 48 | 09 47 | 10 47 |
| | 01 | 194 | 46.9 | | 37.3 | 303 | 43.9 | 8.6 | 21 | 50.9 | 3.2 | 56.9 | 35 | 18 29 | 18 55 | 19 26 | 08 06 | 09 02 | 10 00 | 10 59 |
| | 02 | 209 | 47.1 | | 38.2 | 318 | 11.5 | 8.7 | 21 | 47.7 | 3.3 | 56.8 | 30 | 18 25 | 18 49 | 19 18 | 08 18 | 09 15 | 10 12 | 11 09 |
| | 03 | 224 | 47.2 | .. | 39.1 | 332 | 39.2 | 8.7 | 21 | 44.4 | 3.4 | 56.8 | 20 | 18 17 | 18 39 | 19 06 | 08 40 | 09 36 | 10 32 | 11 27 |
| | 04 | 239 | 47.4 | | 40.0 | 347 | 06.9 | 8.8 | 21 | 41.0 | 3.5 | 56.8 | N 10 | 18 10 | 18 32 | 18 56 | 08 58 | 09 55 | 10 50 | 11 43 |
| | 05 | 254 | 47.6 | | 40.9 | 1 | 34.7 | 8.9 | 21 | 37.5 | 3.6 | 56.7 | 0 | 18 04 | 18 25 | 18 49 | 09 15 | 10 12 | 11 06 | 11 57 |
| | 06 | 269 | 47.7 | N 8 | 41.8 | 16 | 02.6 | 9.0 | S21 | 33.9 | 3.8 | 56.7 | S 10 | 17 58 | 18 20 | 18 44 | 09 32 | 10 29 | 11 22 | 12 11 |
| | 07 | 284 | 47.9 | | 42.8 | 30 | 30.6 | 9.0 | 21 | 30.1 | 3.8 | 56.6 | 20 | 17 52 | 18 14 | 18 40 | 09 51 | 10 48 | 11 40 | 12 27 |
| | 08 | 299 | 48.1 | | 43.7 | 44 | 58.6 | 9.2 | 21 | 26.3 | 4.0 | 56.6 | 30 | 17 45 | 18 09 | 18 37 | 10 12 | 11 09 | 12 00 | 12 44 |
| | 09 | 314 | 48.2 | .. | 44.6 | 59 | 26.8 | 9.2 | 21 | 22.3 | 4.1 | 56.6 | 35 | 17 41 | 18 06 | 18 36 | 10 24 | 11 21 | 12 11 | 12 54 |
| | 10 | 329 | 48.4 | | 45.5 | 73 | 55.0 | 9.2 | 21 | 18.2 | 4.2 | 56.5 | 40 | 17 37 | 18 04 | 18 35 | 10 39 | 11 36 | 12 24 | 13 06 |
| | 11 | 344 | 48.5 | | 46.4 | 88 | 23.2 | 9.4 | 21 | 14.0 | 4.3 | 56.5 | | | | | | | | |

| T. M.G. (TU) | ARIES | | | VENUS -4.3 | | | MARTE +0.8 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | | |
|--|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|-------------|----------|-----------|----------|------|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | Nombre | A. H. S. | Dec. | |
| 1300 01 02 03 04 05 06 07 08 M 09 A 10 R 11 T 12 E 13 S 14 15 16 17 18 19 20 21 22 23 | 201 11.6 | 198 24.0 | N 7 37.3 | 85 42.9 | N23 41.4 | | 13 08.0 | S 1 45.0 | | 230 54.1 | S13 21.4 | | Acamar | 315 30.1 | S40 20.0 | | | | |
| | 216 14.1 | 213 27.1 | 36.4 | 100 44.2 | 41.2 | | 28 10.8 | 44.9 | | 245 56.4 | 21.3 | | Achernar | 335 38.5 | S57 16.2 | | | | |
| | 231 16.5 | 228 30.2 | 35.5 | 115 45.6 | 40.9 | | 43 13.5 | 44.8 | | 260 58.6 | 21.3 | | Acruz | 173 25.6 | S63 04.0 | | | | |
| | 246 19.0 | 243 33.3 | 34.6 | 130 46.9 | 40.7 | | 58 16.2 | 44.7 | | 276 00.9 | 21.2 | | Adhara | 255 24.4 | S28 58.1 | | | | |
| | 261 21.5 | 258 36.4 | 33.7 | 145 48.2 | 40.5 | | 73 19.0 | 44.5 | | 291 03.1 | 21.1 | | Aldebaran | 291 06.9 | N16 29.7 | | | | |
| | 276 23.9 | 273 39.5 | 32.9 | 160 49.5 | 40.2 | | 88 21.7 | 44.4 | | 306 05.4 | 21.1 | | | | | | | | |
| | 291 26.4 | 288 42.6 | N 7 32.0 | 175 50.9 | N23 40.0 | | 103 24.5 | S 1 44.3 | | 321 07.7 | S13 21.0 | | Alioth | 166 33.3 | N55 59.7 | | | | |
| | 306 28.9 | 303 45.7 | 31.1 | 190 52.2 | 39.8 | | 118 27.2 | 44.2 | | 336 09.9 | 20.9 | | Alkaid | 153 10.2 | N49 20.6 | | | | |
| | 321 31.3 | 318 48.8 | 30.2 | 205 53.5 | 39.5 | | 133 30.0 | 44.1 | | 351 12.2 | 20.9 | | Al Na'ir | 28 02.8 | S46 59.4 | | | | |
| | M 09 | 336 33.8 | 333 51.9 | 29.3 | 220 54.8 | 39.3 | | 148 32.7 | 44.0 | | 6 14.4 | 20.8 | | Alnilam | 276 01.8 | S 1 12.5 | | | |
| | A 10 | 351 36.3 | 348 55.0 | 28.5 | 235 56.2 | 39.1 | | 163 35.4 | 43.8 | | 21 16.7 | 20.7 | | Alphard | 218 10.8 | S 8 38.0 | | | |
| | R 11 | 6 38.7 | 3 58.1 | 27.6 | 250 57.5 | 38.9 | | 178 38.2 | 43.7 | | 36 18.9 | 20.7 | | | | | | | |
| | T 12 | 21 41.2 | 19 01.2 | N 7 26.7 | 265 58.8 | N23 38.6 | | 193 40.9 | S 1 43.6 | | 51 21.2 | S13 20.6 | | Alphecca | 126 23.4 | N26 44.0 | | | |
| | E 13 | 36 43.6 | 34 04.3 | 25.8 | 281 00.1 | 38.4 | | 208 43.7 | 43.5 | | 66 23.5 | 20.5 | | Alpheratz | 357 59.5 | N29 03.1 | | | |
| | S 14 | 51 46.1 | 49 07.3 | 25.0 | 296 01.4 | 38.2 | | 223 46.4 | 43.4 | | 81 25.7 | 20.5 | | Altair | 62 22.9 | N 8 50.9 | | | |
| | 15 | 66 48.6 | 64 10.4 | 24.1 | 311 02.8 | 37.9 | | 238 49.2 | 43.3 | | 96 28.0 | 20.4 | | Ankaa | 353 30.9 | S42 20.5 | | | |
| | 16 | 81 51.0 | 79 13.5 | 23.2 | 326 04.1 | 37.7 | | 253 51.9 | 43.1 | | 111 30.2 | 20.3 | | Antares | 112 44.5 | S26 25.1 | | | |
| | 17 | 96 53.5 | 94 16.5 | 22.4 | 341 05.4 | 37.4 | | 268 54.6 | 43.0 | | 126 32.5 | 20.3 | | | | | | | |
| | 18 | 111 56.0 | 109 19.6 | N 7 21.5 | 356 06.7 | N23 37.2 | | 283 57.4 | S 1 42.9 | | 141 34.8 | S13 20.2 | | Arcturus | 146 09.1 | N19 12.8 | | | |
| | 19 | 126 58.4 | 124 22.6 | 20.6 | 11 08.0 | 37.0 | | 299 00.1 | 42.8 | | 156 37.0 | 20.1 | | Atria | 107 59.6 | S69 00.8 | | | |
| | 20 | 142 00.9 | 139 25.7 | 19.8 | 26 09.4 | 36.7 | | 314 02.9 | 42.7 | | 171 39.3 | 20.1 | | Avior | 234 24.1 | S59 29.7 | | | |
| | 21 | 157 03.4 | 154 28.7 | 18.9 | 41 10.7 | 36.5 | | 329 05.6 | 42.6 | | 186 41.5 | 20.0 | | Bellatrix | 278 48.4 | N 6 20.5 | | | |
| | 22 | 172 05.8 | 169 31.8 | 18.0 | 56 12.0 | 36.3 | | 344 08.4 | 42.5 | | 201 43.8 | 19.9 | | Betelgeuse | 271 17.8 | N 7 24.3 | | | |
| 23 | 187 08.3 | 184 34.8 | 17.2 | 71 13.3 | 36.0 | | 359 11.1 | 42.3 | | 216 46.1 | 19.9 | | | | | | | | |
| 1400 01 02 03 04 05 06 07 08 M 09 A 10 R 11 T 12 E 13 S 14 15 16 17 18 19 20 21 22 23 | 202 10.8 | 199 37.9 | N 7 16.3 | 86 14.6 | N23 35.8 | | 14 13.8 | S 1 42.2 | | 231 48.3 | S13 19.8 | | Canopus | 264 03.0 | S52 41.9 | | | | |
| | 217 13.2 | 214 40.9 | 15.5 | 101 16.0 | 35.6 | | 29 16.6 | 42.1 | | 246 50.6 | 19.7 | | Capella | 280 57.0 | N45 59.6 | | | | |
| | 232 15.7 | 229 43.9 | 14.6 | 116 17.3 | 35.3 | | 44 19.3 | 42.0 | | 261 52.8 | 19.7 | | Deneb | 49 41.9 | N45 15.2 | | | | |
| | 247 18.1 | 244 46.9 | 13.7 | 131 18.6 | 35.1 | | 59 22.1 | 41.9 | | 276 55.1 | 19.6 | | Denebola | 182 48.7 | N14 36.4 | | | | |
| | 262 20.6 | 259 50.0 | 12.9 | 146 19.9 | 34.9 | | 74 24.8 | 41.8 | | 291 57.4 | 19.5 | | Diphda | 349 11.3 | S18 01.4 | | | | |
| | 277 23.1 | 274 53.0 | 12.0 | 161 21.2 | 34.6 | | 89 27.5 | 41.7 | | 306 59.6 | 19.5 | | | | | | | | |
| | 292 25.5 | 289 56.0 | N 7 11.2 | 176 22.5 | N23 34.4 | | 104 30.3 | S 1 41.5 | | 322 01.9 | S13 19.4 | | Dubhe | 194 09.5 | N61 47.2 | | | | |
| | 307 28.0 | 304 59.0 | 10.3 | 191 23.9 | 34.2 | | 119 33.0 | 41.4 | | 337 04.1 | 19.3 | | Elnath | 278 31.9 | N28 36.1 | | | | |
| | M 08 | 322 30.5 | 320 02.0 | 09.5 | 206 25.2 | 33.9 | | 134 35.8 | 41.3 | | 352 06.4 | 19.3 | | Eltanin | 90 52.9 | N51 29.1 | | | |
| | A 09 | 337 32.9 | 335 05.0 | 08.6 | 221 26.5 | 33.7 | | 149 38.5 | 41.2 | | 7 08.7 | 19.2 | | Enif | 34 02.1 | N 9 50.6 | | | |
| | R 10 | 352 35.4 | 350 08.0 | 07.8 | 236 27.8 | 33.4 | | 164 41.2 | 41.1 | | 22 10.9 | 19.1 | | Fomalhaut | 15 40.8 | S29 39.4 | | | |
| | T 11 | 7 37.9 | 5 11.0 | 06.9 | 251 29.1 | 33.2 | | 179 44.0 | 41.0 | | 37 13.2 | 19.1 | | | | | | | |
| | E 12 | 22 40.3 | 20 14.0 | N 7 06.1 | 266 30.4 | N23 33.0 | | 194 46.7 | S 1 40.9 | | 52 15.4 | S13 19.0 | | Gacrux | 172 17.3 | S57 04.8 | | | |
| | S 13 | 37 42.8 | 35 17.0 | 05.2 | 281 31.7 | 32.7 | | 209 49.5 | 40.7 | | 67 17.7 | 18.9 | | Gienah | 176 07.5 | S17 30.5 | | | |
| | 14 | 52 45.2 | 50 19.9 | 04.4 | 296 33.0 | 32.5 | | 224 52.2 | 40.6 | | 82 20.0 | 18.9 | | Hadar | 149 08.8 | S60 20.6 | | | |
| | 15 | 67 47.7 | 65 22.9 | 03.6 | 311 34.4 | 32.3 | | 239 54.9 | 40.5 | | 97 22.2 | 18.8 | | Hamal | 328 18.2 | N23 25.8 | | | |
| | 16 | 82 50.2 | 80 25.9 | 02.7 | 326 35.7 | 32.0 | | 254 57.7 | 40.4 | | 112 24.5 | 18.7 | | Kaus Aust. | 84 03.6 | S34 23.2 | | | |
| | 17 | 97 52.6 | 95 28.9 | 01.9 | 341 37.0 | 31.8 | | 270 00.4 | 40.3 | | 127 26.7 | 18.7 | | | | | | | |
| | 18 | 112 55.1 | 110 31.8 | N 7 01.0 | 356 38.3 | N23 31.5 | | 285 03.2 | S 1 40.2 | | 142 29.0 | S13 18.6 | | Kochab | 137 18.2 | N74 10.8 | | | |
| | 19 | 127 57.6 | 125 34.8 | 7 00.2 | 11 39.6 | 31.3 | | 300 05.9 | 40.1 | | 157 31.3 | 18.5 | | Markab | 13 53.6 | N15 10.1 | | | |
| | 20 | 143 00.0 | 140 37.8 | 6 59.4 | 26 40.9 | 31.1 | | 315 08.6 | 40.0 | | 172 33.5 | 18.5 | | Menkar | 314 31.1 | N 4 03.8 | | | |
| | 21 | 158 02.5 | 155 40.7 | 58.5 | 41 42.2 | 30.8 | | 330 11.4 | 39.8 | | 187 35.8 | 18.4 | | Menkent | 148 25.0 | S36 20.4 | | | |
| | 22 | 173 05.0 | 170 43.7 | 57.7 | 56 43.5 | 30.6 | | 345 14.1 | 39.7 | | 202 38.1 | 18.4 | | Miaplacidus | 221 42.6 | S69 41.8 | | | |
| 23 | 188 07.4 | 185 46.6 | 56.9 | 71 44.8 | 30.3 | | 0 16.8 | 39.6 | | 217 40.3 | 18.3 | | | | | | | | |
| 1500 01 02 03 04 05 06 07 08 J 09 U 10 E 11 V 12 S 13 14 15 16 17 18 19 20 21 22 23 | 203 09.9 | 200 49.5 | N 6 56.1 | 86 46.2 | N23 30.1 | | 15 19.6 | S 1 39.5 | | 232 42.6 | S13 18.2 | | Mirfak | 309 02.5 | N49 50.3 | | | | |
| | 218 12.4 | 215 52.5 | 55.2 | 101 47.5 | 29.9 | | 30 22.3 | 39.4 | | 247 44.8 | 18.2 | | Nunki | 76 16.9 | S26 18.2 | | | | |
| | 233 14.8 | 230 55.4 | 54.4 | 116 48.8 | 29.6 | | 45 25.1 | 39.3 | | 262 47.1 | 18.1 | | Peacock | 53 43.0 | S56 45.1 | | | | |
| | 248 17.3 | 245 58.3 | 53.6 | 131 50.1 | 29.4 | | 60 27.8 | 39.2 | | 277 49.4 | 18.0 | | Pollux | 243 46.1 | N28 02.5 | | | | |
| | 263 19.7 | 261 01.3 | 52.8 | 146 51.4 | 29.1 | | 75 30.5 | 39.0 | | 292 51.6 | 18.0 | | Procyon | 245 15.5 | N 5 14.4 | | | | |
| | 278 22.2 | 276 04.2 | 51.9 | 161 52.7 | 28.9 | | 90 33.3 | 38.9 | | 307 53.9 | 17.9 | | | | | | | | |
| | 293 24.7 | 291 07.1 | N 6 51.1 | 176 54.0 | N23 28.7 | | 105 36.0 | S 1 38.8 | | 322 56.2 | S13 17.8 | | Rasalhague | 96 20.3 | N12 33.7 | | | | |
| | 308 27.1 | 306 10.0 | 50.3 | 191 55.3 | 28.4 | | 120 38.7 | 38.7 | | 337 58.4 | 17.8 | | Regulus | 207 59.3 | N11 59.8 | | | | |
| | M 08 | 323 29.6 | 321 12.9 | 49.5 | 206 56.6 | 28.2 | | 135 41.5 | 38.6 | | 353 00.7 | 17.7 | | Rigel | 281 26.7 | S 8 12.7 | | | |
| | J 09 | 338 32.1 | 336 15.8 | 48.7 | 221 57.9 | 27.9 | | 150 44.2 | 38.5 | | 8 02.9 | 17.6 | | Rigil Kent. | 140 11.7 | S60 48.5 | | | |
| | U 10 | 353 34.5 | 351 18.7 | 47.8 | 236 59.2 | 27.7 | | 165 47.0 | 38.4 | | 23 05.2 | 17.6 | | Sabik | 102 29.6 | S15 43.1 | | | |
| | E 11 | 8 37.0 | 6 21.6 | 47.0 | 252 00.5 | 27.5 | | 180 49.7 | 38.3 | | 38 07.5 | 17.5 | | | | | | | |
| | V 12 | 23 39.5 | 21 24.5 | N 6 46.2 | 267 01.8 | N23 27.2 | | 195 52.4 | S 1 38.1 | | 53 09.7 | S13 17.4 | | Schedar | 349 58.4 | N56 30.0 | | | |
| | S 13 | 38 41.9 | 36 27.4 | 45.4 | 282 03.1 | 27.0 | | 210 55.2 | 38.0 | | 68 12.0 | 17.4 | | Shaula | 96 42.2 | S37 05.9 | | | |
| | 14 | 53 44.4 | 51 30.3 | 44.6 | 297 04.4 | 26.7 | | 225 57.9 | 37.9 | | 83 14.3 | 17.3 | | Sirius | 258 47.1 | S16 42.7 | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|------|------|------------|--------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|----|---|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | d | P.H. | | Nút. | Civil | 13 | | 14 | | 15 | | 16 | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | h | m | h | m | h | m | h | m |
| M A R T E S | 13 00 | 179 | 50.6 | N 8 | 58.2 | 276 | 38.0 | 10.3 | S20 | 09.9 | 5.6 | 56.1 | N 72 | /// | 02 07 | 03 45 | ■ | 05 09 | 04 25 | 04 01 | | |
| | 01 | 194 | 50.8 | 8 | 59.1 | 291 | 07.3 | 10.5 | 20 | 04.3 | 5.7 | 56.0 | N 70 | /// | 02 41 | 04 01 | 05 08 | 04 19 | 04 00 | 03 46 | | |
| | 02 | 209 | 51.0 | 9 | 00.0 | 305 | 36.8 | 10.5 | 19 | 58.6 | 5.8 | 56.0 | 68 | 00 57 | 03 05 | 04 14 | 03 56 | 03 47 | 03 40 | 03 35 | | |
| | 03 | 224 | 51.1 | .. | 00.9 | 320 | 06.3 | 10.6 | 19 | 52.8 | 6.0 | 56.0 | 66 | 01 50 | 03 24 | 04 24 | 03 19 | 03 23 | 03 25 | 03 25 | | |
| | 04 | 239 | 51.3 | .. | 01.9 | 334 | 35.9 | 10.7 | 19 | 46.8 | 6.0 | 55.9 | 64 | 02 20 | 03 38 | 04 33 | 02 53 | 03 05 | 03 12 | 03 17 | | |
| | 05 | 254 | 51.4 | .. | 02.8 | 349 | 05.6 | 10.8 | 19 | 40.8 | 6.1 | 55.9 | 62 | 02 43 | 03 51 | 04 40 | 02 32 | 02 49 | 03 01 | 03 09 | | |
| | 06 | 269 | 51.6 | N 9 | 03.7 | 3 | 35.4 | 10.9 | S19 | 34.7 | 6.2 | 55.9 | 60 | 03 00 | 04 01 | 04 47 | 02 15 | 02 36 | 02 52 | 03 03 | | |
| | 07 | 284 | 51.8 | .. | 04.6 | 18 | 05.3 | 10.9 | 19 | 28.5 | 6.2 | 55.8 | N 58 | 03 15 | 04 10 | 04 52 | 02 01 | 02 25 | 02 43 | 02 58 | | |
| | 08 | 299 | 51.9 | .. | 05.5 | 32 | 35.2 | 11.0 | 19 | 22.3 | 6.4 | 55.8 | 56 | 03 27 | 04 17 | 04 57 | 01 49 | 02 16 | 02 36 | 02 53 | | |
| | 09 | 314 | 52.1 | .. | 06.4 | 47 | 05.2 | 11.1 | 19 | 15.9 | 6.5 | 55.8 | 54 | 03 37 | 04 24 | 05 02 | 01 38 | 02 07 | 02 30 | 02 48 | | |
| | 10 | 329 | 52.2 | .. | 07.3 | 61 | 35.3 | 11.2 | 19 | 09.4 | 6.5 | 55.7 | 52 | 03 46 | 04 30 | 05 06 | 01 29 | 01 59 | 02 24 | 02 44 | | |
| | 11 | 344 | 52.4 | .. | 08.2 | 76 | 05.5 | 11.2 | 19 | 02.9 | 6.7 | 55.7 | 50 | 03 54 | 04 35 | 05 09 | 01 20 | 01 52 | 02 19 | 02 41 | | |
| | 12 | 359 | 52.6 | N 9 | 09.1 | 90 | 35.7 | 11.3 | S18 | 56.2 | 6.7 | 55.7 | 45 | 04 10 | 04 47 | 05 17 | 01 02 | 01 37 | 02 07 | 02 33 | | |
| | 13 | 14 | 52.7 | .. | 10.0 | 105 | 06.0 | 11.4 | 18 | 49.5 | 6.8 | 55.6 | N 40 | 04 23 | 04 56 | 05 24 | 00 47 | 01 25 | 01 58 | 02 26 | | |
| | 14 | 29 | 52.9 | .. | 10.9 | 119 | 36.4 | 11.5 | 18 | 42.7 | 6.9 | 55.6 | 35 | 04 33 | 05 04 | 05 29 | 00 35 | 01 14 | 01 49 | 02 21 | | |
| | 15 | 44 | 53.0 | .. | 11.8 | 134 | 06.9 | 11.6 | 18 | 35.8 | 6.9 | 55.6 | 30 | 04 41 | 05 10 | 05 34 | 00 24 | 01 05 | 01 42 | 02 16 | | |
| | 16 | 59 | 53.2 | .. | 12.7 | 148 | 37.5 | 11.6 | 18 | 28.9 | 7.1 | 55.6 | 20 | 04 54 | 05 20 | 05 43 | 00 05 | 00 49 | 01 30 | 02 07 | | |
| | 17 | 74 | 53.3 | .. | 13.6 | 163 | 08.1 | 11.7 | 18 | 21.8 | 7.1 | 55.5 | N 10 | 05 04 | 05 29 | 05 50 | 24 35 | 00 35 | 01 19 | 01 59 | | |
| | 18 | 89 | 53.5 | N 9 | 14.5 | 177 | 38.8 | 11.8 | S18 | 14.7 | 7.2 | 55.5 | 0 | 05 12 | 05 36 | 05 57 | 24 22 | 00 22 | 01 08 | 01 52 | | |
| | 19 | 104 | 53.7 | .. | 15.4 | 192 | 09.6 | 11.9 | 18 | 07.5 | 7.3 | 55.5 | S 10 | 05 18 | 05 42 | 06 04 | 24 09 | 00 09 | 00 58 | 01 44 | | |
| | 20 | 119 | 53.8 | .. | 16.3 | 206 | 40.5 | 11.9 | 18 | 00.2 | 7.4 | 55.4 | 20 | 05 23 | 05 48 | 06 11 | 23 55 | 24 47 | 00 47 | 01 37 | | |
| | 21 | 134 | 54.0 | .. | 17.2 | 221 | 11.4 | 12.0 | 17 | 52.8 | 7.4 | 55.4 | 30 | 05 26 | 05 54 | 06 18 | 23 39 | 24 34 | 00 34 | 01 28 | | |
| | 22 | 149 | 54.1 | .. | 18.1 | 235 | 42.4 | 12.1 | 17 | 45.4 | 7.5 | 55.4 | 35 | 05 28 | 05 57 | 06 23 | 23 29 | 24 27 | 00 27 | 01 23 | | |
| 23 | 164 | 54.3 | .. | 19.0 | 250 | 13.5 | 12.2 | 17 | 37.9 | 7.6 | 55.4 | 40 | 05 29 | 06 01 | 06 28 | 23 19 | 24 18 | 00 18 | 01 17 | | | |
| 14 00 | 179 | 54.4 | N 9 | 19.9 | 264 | 44.7 | 12.2 | S17 | 30.3 | 7.7 | 55.3 | 45 | 05 30 | 06 04 | 06 34 | 23 06 | 24 08 | 00 08 | 01 10 | | | |
| 01 | 194 | 54.6 | .. | 20.8 | 279 | 15.9 | 12.3 | 17 | 22.6 | 7.7 | 55.3 | S 50 | 05 30 | 06 08 | 06 41 | 22 50 | 23 56 | 25 02 | 01 02 | | | |
| 02 | 209 | 54.8 | .. | 21.7 | 293 | 47.2 | 12.4 | 17 | 14.9 | 7.9 | 55.3 | 52 | 05 30 | 06 10 | 06 44 | 22 43 | 23 51 | 24 58 | 00 58 | | | |
| 03 | 224 | 54.9 | .. | 22.6 | 308 | 18.6 | 12.5 | 17 | 07.0 | 7.8 | 55.3 | 54 | 05 30 | 06 11 | 06 47 | 22 35 | 23 45 | 24 54 | 00 54 | | | |
| 04 | 239 | 55.1 | .. | 23.5 | 322 | 50.1 | 12.5 | 16 | 59.2 | 8.0 | 55.2 | 56 | 05 30 | 06 13 | 06 51 | 22 26 | 23 38 | 24 49 | 00 49 | | | |
| 05 | 254 | 55.2 | .. | 24.4 | 337 | 21.6 | 12.6 | 16 | 51.2 | 8.0 | 55.2 | 58 | 05 30 | 06 15 | 06 55 | 22 16 | 23 30 | 24 44 | 00 44 | | | |
| 06 | 269 | 55.4 | N 9 | 25.3 | 351 | 53.2 | 12.6 | S16 | 43.2 | 8.1 | 55.2 | S 60 | 05 29 | 06 18 | 07 00 | 22 04 | 23 21 | 24 38 | 00 38 | | | |
| 07 | 284 | 55.5 | .. | 26.2 | 6 | 24.8 | 12.8 | 16 | 35.1 | 8.2 | 55.1 | | | | | | | | | | | |
| 08 | 299 | 55.7 | .. | 27.1 | 20 | 56.6 | 12.8 | 16 | 26.9 | 8.2 | 55.1 | | | | | | | | | | | |
| 09 | 314 | 55.8 | .. | 28.0 | 35 | 28.4 | 12.9 | 16 | 18.7 | 8.3 | 55.1 | | | | | | | | | | | |
| 10 | 329 | 56.0 | .. | 28.9 | 50 | 00.3 | 12.9 | 16 | 10.4 | 8.4 | 55.1 | | | | | | | | | | | |
| 11 | 344 | 56.2 | .. | 29.8 | 64 | 32.2 | 13.1 | 16 | 02.0 | 8.4 | 55.1 | | | | | | | | | | | |
| 12 | 359 | 56.3 | N 9 | 30.7 | 79 | 04.3 | 13.0 | S15 | 53.6 | 8.5 | 55.0 | | | | | | | | | | | |
| 13 | 14 | 56.5 | .. | 31.6 | 93 | 36.3 | 13.2 | 15 | 45.1 | 8.5 | 55.0 | | | | | | | | | | | |
| 14 | 29 | 56.6 | .. | 32.5 | 108 | 08.5 | 13.2 | 15 | 36.6 | 8.6 | 55.0 | | | | | | | | | | | |
| 15 | 44 | 56.8 | .. | 33.4 | 122 | 40.7 | 13.3 | 15 | 28.0 | 8.7 | 55.0 | | | | | | | | | | | |
| 16 | 59 | 56.9 | .. | 34.3 | 137 | 13.0 | 13.4 | 15 | 19.3 | 8.8 | 54.9 | | | | | | | | | | | |
| 17 | 74 | 57.1 | .. | 35.2 | 151 | 45.4 | 13.4 | 15 | 10.5 | 8.8 | 54.9 | | | | | | | | | | | |
| 18 | 89 | 57.2 | N 9 | 36.1 | 166 | 17.8 | 13.5 | S15 | 01.7 | 8.8 | 54.9 | | | | | | | | | | | |
| 19 | 104 | 57.4 | .. | 37.0 | 180 | 50.3 | 13.5 | 14 | 52.9 | 8.9 | 54.9 | | | | | | | | | | | |
| 20 | 119 | 57.5 | .. | 37.9 | 195 | 22.8 | 13.6 | 14 | 44.0 | 9.0 | 54.8 | | | | | | | | | | | |
| 21 | 134 | 57.7 | .. | 38.8 | 209 | 55.4 | 13.7 | 14 | 35.0 | 9.0 | 54.8 | | | | | | | | | | | |
| 22 | 149 | 57.8 | .. | 39.7 | 224 | 28.1 | 13.7 | 14 | 26.0 | 9.1 | 54.8 | | | | | | | | | | | |
| 23 | 164 | 58.0 | .. | 40.6 | 239 | 00.8 | 13.8 | 14 | 16.9 | 9.1 | 54.8 | | | | | | | | | | | |
| 15 00 | 179 | 58.2 | N 9 | 41.5 | 253 | 33.6 | 13.9 | S14 | 07.8 | 9.2 | 54.8 | | | | | | | | | | | |
| 01 | 194 | 58.3 | .. | 42.4 | 268 | 06.5 | 13.9 | 13 | 58.6 | 9.3 | 54.7 | | | | | | | | | | | |
| 02 | 209 | 58.5 | .. | 43.3 | 282 | 39.4 | 14.0 | 13 | 49.3 | 9.3 | 54.7 | | | | | | | | | | | |
| 03 | 224 | 58.6 | .. | 44.2 | 297 | 12.4 | 14.0 | 13 | 40.0 | 9.3 | 54.7 | | | | | | | | | | | |
| 04 | 239 | 58.8 | .. | 45.1 | 311 | 45.4 | 14.1 | 13 | 30.7 | 9.4 | 54.7 | | | | | | | | | | | |
| 05 | 254 | 58.9 | .. | 46.0 | 326 | 18.5 | 14.1 | 13 | 21.3 | 9.5 | 54.7 | | | | | | | | | | | |
| 06 | 269 | 59.1 | N 9 | 46.9 | 340 | 51.6 | 14.2 | S13 | 11.8 | 9.5 | 54.6 | | | | | | | | | | | |
| 07 | 284 | 59.2 | .. | 47.8 | 355 | 24.8 | 14.3 | 13 | 02.3 | 9.5 | 54.6 | | | | | | | | | | | |
| 08 | 299 | 59.4 | .. | 48.6 | 9 | 58.1 | 14.3 | 12 | 52.8 | 9.6 | 54.6 | | | | | | | | | | | |
| 09 | 314 | 59.5 | .. | 49.5 | 24 | 31.4 | 14.4 | 12 | 43.2 | 9.6 | 54.6 | | | | | | | | | | | |
| 10 | 329 | 59.7 | .. | 50.4 | 39 | 04.8 | 14.4 | 12 | 33.6 | 9.7 | 54.6 | | | | | | | | | | | |
| 11 | 344 | 59.8 | .. | 51.3 | 53 | 38.2 | 14.5 | 12 | 23.9 | 9.8 | 54.6 | | | | | | | | | | | |
| 12 | 0 | 00.0 | N 9 | 52.2 | 68 | 11.7 | 14.5 | S12 | 14.1 | 9.7 | 54.5 | | | | | | | | | | | |
| 13 | 15 | 00.1 | .. | 53.1 | 82 | 45.2 | 14.6 | 12 | 04.4 | 9.9 | 54.5 | | | | | | | | | | | |
| 14 | 30 | 00.3 | .. | 54.0 | 97 | 18.8 | 14.6 | 11 | 54.5 | 9.8 | 54.5 | | | | | | | | | | | |
| 15 | 45 | 00.4 | .. | 54.9 | 111 | 52.4 | 14.7 | 11 | 44.7 | 9.9 | 54.5 | | | | | | | | | | | |
| 16 | 60 | 00.6 | .. | 55.8 | 126 | 26.1 | 14.7 | 11 | 34.8 | 10.0 | 54.5 | | | | | | | | | | | |
| 17 | 75 | 00.7 | .. | 56.7 | 140 | 59.8 | 14.8 | 11 | 24.8 | 10.0 | 54.5 | | | | | | | | | | | |
| 18 | 90 | 00.9 | N 9 | 57.6 | 155 | 33.6 | 14.8 | S11 | 14.8 | 10.0 | 54.4</ | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE +0.9 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|--------------|------|--------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 16 00 | 204 09.0 | 201 59.0 N 6 | 36.6 | 87 17.5 N23 | 24.3 | 16 25.3 S 1 | 36.8 | 233 36.9 S13 | 16.7 | Acamar | 315 30.1 S40 | 20.0 | | | | | | |
| 01 | 219 11.5 | 217 01.8 | 35.8 | 102 18.8 | 24.1 | 31 28.0 | 36.7 | 248 39.2 | 16.6 | Achernar | 335 38.5 S57 | 16.2 | | | | | | |
| 02 | 234 14.0 | 232 04.7 | 35.0 | 117 20.1 | 23.8 | 46 30.7 | 36.6 | 263 41.4 | 16.5 | Acruz | 173 25.6 S63 | 04.0 | | | | | | |
| 03 | 249 16.4 | 247 07.5 | 34.2 | 132 21.4 | 23.6 | 61 33.5 | 36.5 | 278 43.7 | 16.5 | Adhara | 255 24.5 S28 | 58.1 | | | | | | |
| 04 | 264 18.9 | 262 10.3 | 33.4 | 147 22.7 | 23.3 | 76 36.2 | 36.4 | 293 46.0 | 16.4 | Aldebaran | 291 06.9 N16 | 29.7 | | | | | | |
| 05 | 279 21.3 | 277 13.2 | 32.6 | 162 24.0 | 23.1 | 91 38.9 | 36.2 | 308 48.2 | 16.3 | | | | | | | | | |
| 06 | 294 23.8 | 292 16.0 N 6 | 31.9 | 177 25.3 N23 | 22.8 | 106 41.7 S 1 | 36.1 | 323 50.5 S13 | 16.3 | Alioth | 166 33.3 N55 | 59.7 | | | | | | |
| 07 | 309 26.3 | 307 18.8 | 31.1 | 192 26.6 | 22.6 | 121 44.4 | 36.0 | 338 52.8 | 16.2 | Alkaid | 153 10.2 N49 | 20.6 | | | | | | |
| 08 | 324 28.7 | 322 21.6 | 30.3 | 207 27.9 | 22.3 | 136 47.1 | 35.9 | 353 55.0 | 16.1 | Al Na'ir | 28 02.8 S46 | 59.4 | | | | | | |
| V 09 | 339 31.2 | 337 24.4 | 29.5 | 222 29.2 | 22.1 | 151 49.9 | 35.8 | 8 57.3 | 16.1 | Alnilam | 276 01.8 S 1 | 12.5 | | | | | | |
| I 10 | 354 33.7 | 352 27.2 | 28.7 | 237 30.5 | 21.9 | 166 52.6 | 35.7 | 23 59.6 | 16.0 | Alphard | 218 10.8 S 8 | 38.0 | | | | | | |
| E 11 | 9 36.1 | 7 30.0 | 28.0 | 252 31.8 | 21.6 | 181 55.3 | 35.6 | 39 01.8 | 16.0 | | | | | | | | | |
| N 12 | 24 38.6 | 22 32.8 N 6 | 27.2 | 267 33.1 N23 | 21.4 | 196 58.1 S 1 | 35.5 | 54 04.1 S13 | 15.9 | Alphecca | 126 23.4 N26 | 44.0 | | | | | | |
| S 13 | 39 41.1 | 37 35.6 | 26.4 | 282 34.4 | 21.1 | 212 00.8 | 35.4 | 69 06.4 | 15.8 | Alpheratz | 357 59.5 S69 | 03.1 | | | | | | |
| E 14 | 54 43.5 | 52 38.4 | 25.6 | 297 35.7 | 20.9 | 227 03.5 | 35.2 | 84 08.6 | 15.8 | Altair | 62 22.9 N 8 | 50.9 | | | | | | |
| S 15 | 69 46.0 | 67 41.2 | 24.9 | 312 36.9 | 20.6 | 242 06.3 | 35.1 | 99 10.9 | 15.7 | Ankaa | 353 30.9 S42 | 20.5 | | | | | | |
| 16 | 84 48.5 | 82 44.0 | 24.1 | 327 38.2 | 20.4 | 257 09.0 | 35.0 | 114 13.2 | 15.6 | Antares | 112 44.5 S26 | 25.1 | | | | | | |
| 17 | 99 50.9 | 97 46.8 | 23.3 | 342 39.5 | 20.1 | 272 11.7 | 34.9 | 129 15.4 | 15.6 | | | | | | | | | |
| 18 | 114 53.4 | 112 49.6 N 6 | 22.6 | 357 40.8 N23 | 19.9 | 287 14.5 S 1 | 34.8 | 144 17.7 S13 | 15.5 | Arcturus | 146 09.1 N19 | 12.8 | | | | | | |
| 19 | 129 55.8 | 127 52.3 | 21.8 | 12 42.1 | 19.6 | 302 17.2 | 34.7 | 159 20.0 | 15.4 | Atria | 107 59.5 S69 | 00.8 | | | | | | |
| 20 | 144 58.3 | 142 55.1 | 21.0 | 27 43.4 | 19.4 | 317 19.9 | 34.6 | 174 22.2 | 15.4 | Avior | 234 24.1 S59 | 29.7 | | | | | | |
| 21 | 160 00.8 | 157 57.9 | 20.3 | 42 44.7 | 19.1 | 332 22.7 | 34.5 | 189 24.5 | 15.3 | Bellatrix | 278 48.4 N 6 | 20.5 | | | | | | |
| 22 | 175 03.2 | 173 00.6 | 19.5 | 57 46.0 | 18.9 | 347 25.4 | 34.4 | 204 26.8 | 15.3 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | | | |
| 23 | 190 05.7 | 188 03.4 | 18.8 | 72 47.3 | 18.6 | 2 28.1 | 34.3 | 219 29.0 | 15.2 | | | | | | | | | |
| 17 00 | 205 08.2 | 203 06.2 N 6 | 18.0 | 87 48.6 N23 | 18.4 | 17 30.9 S 1 | 34.1 | 234 31.3 S13 | 15.1 | Canopus | 264 03.0 S52 | 41.9 | | | | | | |
| 01 | 220 10.6 | 218 08.9 | 17.2 | 102 49.9 | 18.1 | 32 33.6 | 34.0 | 249 33.6 | 15.1 | Capella | 280 57.0 N45 | 59.6 | | | | | | |
| 02 | 235 13.1 | 233 11.6 | 16.5 | 117 51.2 | 17.9 | 47 36.3 | 33.9 | 264 35.8 | 15.0 | Deneb | 49 41.9 N45 | 15.2 | | | | | | |
| 03 | 250 15.6 | 248 14.4 | 15.7 | 132 52.5 | 17.6 | 62 39.1 | 33.8 | 279 38.1 | 14.9 | Denebola | 182 48.7 N14 | 36.4 | | | | | | |
| 04 | 265 18.0 | 263 17.1 | 15.0 | 147 53.8 | 17.4 | 77 41.8 | 33.7 | 294 40.4 | 14.9 | Diphda | 349 11.3 S18 | 01.4 | | | | | | |
| 05 | 280 20.5 | 278 19.9 | 14.2 | 162 55.1 | 17.1 | 92 44.5 | 33.6 | 309 42.7 | 14.8 | | | | | | | | | |
| 06 | 295 23.0 | 293 22.6 N 6 | 13.5 | 177 56.4 N23 | 16.9 | 107 47.2 S 1 | 33.5 | 324 44.9 S13 | 14.7 | Dubhe | 194 09.5 N61 | 47.3 | | | | | | |
| 07 | 310 25.4 | 308 25.3 | 12.7 | 192 57.6 | 16.7 | 122 50.0 | 33.4 | 339 47.2 | 14.7 | Elnath | 278 31.9 N28 | 36.1 | | | | | | |
| 08 | 325 27.9 | 323 28.0 | 12.0 | 207 58.9 | 16.4 | 137 52.7 | 33.3 | 354 49.5 | 14.6 | Eltanin | 90 52.9 N51 | 29.1 | | | | | | |
| S 09 | 340 30.3 | 338 30.8 | 11.2 | 223 00.2 | 16.2 | 152 55.4 | 33.2 | 9 51.7 | 14.6 | Enif | 34 02.1 N 9 | 50.6 | | | | | | |
| A 10 | 355 32.8 | 353 33.5 | 10.5 | 238 01.5 | 15.9 | 167 58.2 | 33.0 | 24 54.0 | 14.5 | Fomalhaut | 15 40.8 S29 | 39.4 | | | | | | |
| B 11 | 10 35.3 | 8 36.2 | 09.8 | 253 02.8 | 15.7 | 183 00.9 | 32.9 | 39 56.3 | 14.4 | | | | | | | | | |
| A 12 | 25 37.7 | 23 38.9 N 6 | 09.0 | 268 04.1 N23 | 15.4 | 198 03.6 S 1 | 32.8 | 54 58.5 S13 | 14.4 | Gacrux | 172 17.3 S57 | 04.8 | | | | | | |
| O 13 | 40 40.2 | 38 41.6 | 08.3 | 283 05.4 | 15.1 | 213 06.4 | 32.7 | 70 00.8 | 14.3 | Gienah | 176 07.5 S17 | 30.5 | | | | | | |
| 14 | 55 42.7 | 53 44.3 | 07.6 | 298 06.7 | 14.9 | 228 09.1 | 32.6 | 85 03.1 | 14.2 | Hadar | 149 08.8 S60 | 20.6 | | | | | | |
| 15 | 70 45.1 | 68 47.0 | 06.8 | 313 08.0 | 14.6 | 243 11.8 | 32.5 | 100 05.3 | 14.2 | Hamal | 328 18.2 N23 | 25.8 | | | | | | |
| 16 | 85 47.6 | 83 49.7 | 06.1 | 328 09.2 | 14.4 | 258 14.5 | 32.4 | 115 07.6 | 14.1 | Kaus Aust. | 84 03.6 S34 | 23.2 | | | | | | |
| 17 | 100 50.1 | 98 52.4 | 05.4 | 343 10.5 | 14.1 | 273 17.3 | 32.3 | 130 09.9 | 14.1 | | | | | | | | | |
| 18 | 115 52.5 | 113 55.0 N 6 | 04.6 | 358 11.8 N23 | 13.9 | 288 20.0 S 1 | 32.2 | 145 12.2 S13 | 14.0 | Kochab | 137 18.2 N74 | 10.8 | | | | | | |
| 19 | 130 55.0 | 128 57.7 | 03.9 | 13 13.1 | 13.6 | 303 22.7 | 32.1 | 160 14.4 | 13.9 | Markab | 13 53.6 N15 | 10.1 | | | | | | |
| 20 | 145 57.4 | 144 00.4 | 03.2 | 28 14.4 | 13.4 | 318 25.5 | 32.0 | 175 16.7 | 13.9 | Menkar | 314 31.1 N 4 | 03.8 | | | | | | |
| 21 | 160 59.9 | 159 03.1 | 02.5 | 43 15.7 | 13.1 | 333 28.2 | 31.8 | 190 19.0 | 13.8 | Menkent | 148 25.0 S36 | 20.4 | | | | | | |
| 22 | 176 02.4 | 174 05.7 | 01.7 | 58 17.0 | 12.9 | 348 30.9 | 31.7 | 205 21.2 | 13.7 | Miaplacidus | 221 42.6 S69 | 41.8 | | | | | | |
| 23 | 191 04.8 | 189 08.4 | 01.0 | 73 18.3 | 12.6 | 3 33.7 | 31.6 | 220 23.5 | 13.7 | | | | | | | | | |
| 18 00 | 206 07.3 | 204 11.1 N 6 | 00.3 | 88 19.5 N23 | 12.4 | 18 36.4 S 1 | 31.5 | 235 25.8 S13 | 13.6 | Mirfak | 309 02.5 N49 | 50.3 | | | | | | |
| 01 | 221 09.8 | 219 13.7 | 59.6 | 103 20.8 | 12.1 | 33 39.1 | 31.4 | 250 28.1 | 13.6 | Nunki | 76 16.9 S26 | 18.2 | | | | | | |
| 02 | 236 12.2 | 234 16.4 | 58.9 | 118 22.1 | 11.9 | 48 41.8 | 31.3 | 265 30.3 | 13.5 | Peacock | 53 42.9 S56 | 45.1 | | | | | | |
| 03 | 251 14.7 | 249 19.0 | 58.2 | 133 23.4 | 11.6 | 63 44.6 | 31.2 | 280 32.6 | 13.4 | Pollux | 243 46.1 N28 | 02.5 | | | | | | |
| 04 | 266 17.2 | 264 21.7 | 57.4 | 148 24.7 | 11.4 | 78 47.3 | 31.1 | 295 34.9 | 13.4 | Procyon | 245 15.5 N 5 | 14.4 | | | | | | |
| 05 | 281 19.6 | 279 24.3 | 56.7 | 163 26.0 | 11.1 | 93 50.0 | 31.0 | 310 37.1 | 13.3 | | | | | | | | | |
| 06 | 296 22.1 | 294 26.9 N 5 | 56.0 | 178 27.2 N23 | 10.9 | 108 52.7 S 1 | 30.9 | 325 39.4 S13 | 13.2 | Rasalhague | 96 20.2 N12 | 33.7 | | | | | | |
| 07 | 311 24.6 | 309 29.6 | 55.3 | 193 28.5 | 10.6 | 123 55.5 | 30.8 | 340 41.7 | 13.2 | Regulus | 207 59.3 N11 | 59.8 | | | | | | |
| O 08 | 326 27.0 | 324 32.2 | 54.6 | 208 29.8 | 10.4 | 138 58.2 | 30.7 | 355 44.0 | 13.1 | Rigel | 281 26.8 S 8 | 12.7 | | | | | | |
| M 09 | 341 29.5 | 339 34.8 | 53.9 | 223 31.1 | 10.1 | 154 00.9 | 30.6 | 10 46.2 | 13.1 | Rigel Kent. | 140 11.7 S60 | 48.5 | | | | | | |
| I 10 | 356 31.9 | 354 37.4 | 53.2 | 238 32.4 | 09.8 | 169 03.7 | 30.4 | 25 48.5 | 13.0 | Sabik | 102 29.6 S15 | 43.1 | | | | | | |
| 11 | 11 34.4 | 9 40.1 | 52.5 | 253 33.7 | 09.6 | 184 06.4 | 30.3 | 40 50.8 | 12.9 | | | | | | | | | |
| N 12 | 26 36.9 | 24 42.7 N 5 | 51.8 | 268 34.9 N23 | 09.3 | 199 09.1 S 1 | 30.2 | 55 53.0 S13 | 12.9 | Schedar | 349 58.4 N56 | 30.0 | | | | | | |
| G 13 | 41 39.3 | 39 45.3 | 51.1 | 283 36.2 | 09.1 | 214 11.8 | 30.1 | 70 55.3 | 12.8 | Shaula | 96 42.1 S37 | 05.9 | | | | | | |
| O 14 | 56 41.8 | 54 47.9 | 50.4 | 298 37.5 | 08.8 | 229 14.6 | 30.0 | 85 57.6 | 12.8 | Sirius | 258 47.1 S16 | 42.7 | | | | | | |
| 15 | 71 44.3 | 69 50.5 | 49.7 | 313 38.8 | 08.6 | 244 17.3 | 29.9 | 100 59.9 | 12.7 | Spica | 158 46.8 S11 | 07.8 | | | | | | |
| 16 | 86 46.7 | 84 53.1 | 49.0 | 328 40.1 | 08.3 | 259 20.0 | 29.8 | 116 02.1 | 12.6 | Suhail | 223 03.4 S43 | 24.7 | | | | | | |
| 17 | 101 49.2 | 99 55.7 | 48.3 | 343 41.4 | 08.1 | 274 22.7 | 29.7 | 131 04.4 | 12.6 | | | | | | | | | |
| 18 | 116 51.7 | 114 58.3 N 5 | 47.7 | 358 42.6 N23 | 07.8 | 289 25.5 S 1 | 29.6 | 146 06.7 S13 | 12.5 | Vega | 80 49.0 N38 | 46.4 | | | | | | |
| 19 | 131 54.1 | 130 00.8 | 47.0 | 13 43.9 | 07.5 | 304 28.2 | 29.5 | 161 08.9 | 12.4 | Zuben'ubi | 137 21.8 S16 | 01.0 | | | | | | |
| 20 | 146 56.6 | 145 03.4 | 46.3 | 28 45.2 | 07.3 | 319 30.9 | 29.4 | 176 11.2 | 12.4 | | | | | | | | | |
| 21 | 161 59.1 | 160 06.0 | 45.6 | 43 46.5 | 07.0 | 334 33.6 | 29.3 | 191 13.5 | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|---------------------------------|--------|------|------|--------|------|------|------|------|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|---|
| | A.H.G. | | Dec. | A.H.G. | | v | Dec. | d | | P.H. | Náut. | | Civil | 16 | | 17 | | 18 | | 19 | |
| | ° | ' | | ° | ' | | | | | | | | | ° | ' | ° | ' | h | m | h | m |
| V I E R N E S | 16 00 | 180 | 01.8 | N10 | 02.9 | 242 | 57.2 | 15.1 | S10 | 14.0 | 10.2 | 54.4 | N 72 | /// | 01 37 | 03 28 | 04 01 | 03 43 | 03 27 | 03 11 | |
| | 01 | 195 | 01.9 | | 03.8 | 257 | 31.3 | 15.2 | 10 | 03.8 | 10.3 | 54.3 | N 70 | /// | 02 21 | 03 46 | 03 46 | 03 35 | 03 25 | 03 16 | |
| | 02 | 210 | 02.1 | | 04.7 | 272 | 05.5 | 15.1 | 9 | 53.5 | 10.4 | 54.3 | 68 | /// | 02 49 | 04 01 | 03 35 | 03 29 | 03 24 | 03 19 | |
| | 03 | 225 | 02.2 | .. | 05.6 | 286 | 39.6 | 15.2 | 9 | 43.1 | 10.3 | 54.3 | 66 | 01 24 | 03 10 | 04 12 | 03 25 | 03 24 | 03 23 | 03 23 | |
| | 04 | 240 | 02.4 | | 06.4 | 301 | 13.8 | 15.3 | 9 | 32.8 | 10.4 | 54.3 | 64 | 02 02 | 03 26 | 04 22 | 03 17 | 03 20 | 03 23 | 03 25 | |
| | 05 | 255 | 02.5 | | 07.3 | 315 | 48.1 | 15.3 | 9 | 22.4 | 10.5 | 54.3 | 62 | 02 28 | 03 40 | 04 31 | 03 09 | 03 16 | 03 22 | 03 28 | |
| | 06 | 270 | 02.7 | N10 | 08.2 | 330 | 22.4 | 15.3 | S 9 | 11.9 | 10.4 | 54.3 | 60 | 02 48 | 03 51 | 04 38 | 03 03 | 03 13 | 03 21 | 03 30 | |
| | 07 | 285 | 02.8 | | 09.1 | 344 | 56.7 | 15.4 | 9 | 01.5 | 10.5 | 54.3 | N 58 | 03 04 | 04 01 | 04 44 | 02 58 | 03 10 | 03 21 | 03 32 | |
| | 08 | 300 | 03.0 | | 10.0 | 359 | 31.1 | 15.4 | 8 | 51.0 | 10.6 | 54.3 | 56 | 03 17 | 04 09 | 04 50 | 02 53 | 03 07 | 03 20 | 03 34 | |
| | 09 | 315 | 03.1 | .. | 10.9 | 14 | 05.5 | 15.4 | 8 | 40.4 | 10.5 | 54.2 | 54 | 03 28 | 04 16 | 04 55 | 02 48 | 03 05 | 03 20 | 03 35 | |
| | 10 | 330 | 03.3 | | 11.8 | 28 | 39.9 | 15.5 | 8 | 29.9 | 10.6 | 54.2 | 52 | 03 38 | 04 23 | 04 59 | 02 44 | 03 03 | 03 20 | 03 37 | |
| | 11 | 345 | 03.4 | | 12.6 | 43 | 14.4 | 15.5 | 8 | 19.3 | 10.6 | 54.2 | 50 | 03 46 | 04 29 | 05 03 | 02 41 | 03 01 | 03 19 | 03 38 | |
| | 12 | 0 | 03.5 | N10 | 13.5 | 57 | 48.9 | 15.6 | S 8 | 08.7 | 10.7 | 54.2 | 45 | 04 04 | 04 41 | 05 12 | 02 33 | 02 56 | 03 19 | 03 41 | |
| | 13 | 15 | 03.7 | | 14.4 | 72 | 23.5 | 15.5 | 7 | 58.0 | 10.7 | 54.2 | N 40 | 04 17 | 04 51 | 05 19 | 02 26 | 02 53 | 03 18 | 03 43 | |
| | 14 | 30 | 03.8 | | 15.3 | 86 | 58.0 | 15.7 | 7 | 47.3 | 10.7 | 54.2 | 35 | 04 28 | 05 00 | 05 26 | 02 21 | 02 50 | 03 17 | 03 45 | |
| | 15 | 45 | 04.0 | .. | 16.2 | 101 | 32.7 | 15.6 | 7 | 36.6 | 10.7 | 54.2 | 30 | 04 37 | 05 07 | 05 31 | 02 16 | 02 47 | 03 17 | 03 47 | |
| | 16 | 60 | 04.1 | | 17.1 | 116 | 07.3 | 15.7 | 7 | 25.9 | 10.7 | 54.2 | 20 | 04 52 | 05 18 | 05 41 | 02 07 | 02 42 | 03 16 | 03 50 | |
| | 17 | 75 | 04.3 | | 17.9 | 130 | 42.0 | 15.6 | 7 | 15.2 | 10.8 | 54.2 | N 10 | 05 02 | 05 27 | 05 49 | 01 59 | 02 38 | 03 15 | 03 53 | |
| | 18 | 90 | 04.4 | N10 | 18.8 | 145 | 16.6 | 15.8 | S 7 | 04.4 | 10.8 | 54.2 | 0 | 05 11 | 05 35 | 05 56 | 01 52 | 02 34 | 03 15 | 03 56 | |
| | 19 | 105 | 04.6 | | 19.7 | 159 | 51.4 | 15.7 | 6 | 53.6 | 10.9 | 54.2 | S 10 | 05 18 | 05 42 | 06 04 | 01 44 | 02 30 | 03 14 | 03 58 | |
| | 20 | 120 | 04.7 | | 20.6 | 174 | 26.1 | 15.8 | 6 | 42.7 | 10.8 | 54.1 | 20 | 05 23 | 05 49 | 06 11 | 01 37 | 02 25 | 03 13 | 04 01 | |
| | 21 | 135 | 04.9 | .. | 21.5 | 189 | 00.9 | 15.8 | 6 | 31.9 | 10.9 | 54.1 | 30 | 05 28 | 05 56 | 06 20 | 01 28 | 02 20 | 03 12 | 04 04 | |
| | 22 | 150 | 05.0 | | 22.4 | 203 | 35.7 | 15.8 | 6 | 21.0 | 10.9 | 54.1 | 35 | 05 30 | 06 00 | 06 25 | 01 23 | 02 18 | 03 12 | 04 06 | |
| 23 | 165 | 05.1 | | 23.2 | 218 | 10.5 | 15.9 | 6 | 10.1 | 10.9 | 54.1 | 40 | 05 32 | 06 03 | 06 31 | 01 17 | 02 14 | 03 11 | 04 09 | | |
| | | | | | | | | | | | | 45 | 05 33 | 06 08 | 06 37 | 01 10 | 02 11 | 03 11 | 04 11 | | |
| S A B A D O | 17 00 | 180 | 05.3 | N10 | 24.1 | 232 | 45.4 | 15.9 | S 5 | 59.2 | 10.9 | 54.1 | S 50 | 05 35 | 06 12 | 06 45 | 01 02 | 02 06 | 03 10 | 04 14 | |
| | 01 | 195 | 05.4 | | 25.0 | 247 | 20.3 | 15.9 | 5 | 48.3 | 11.0 | 54.1 | 52 | 05 35 | 06 14 | 06 49 | 00 58 | 02 04 | 03 10 | 04 16 | |
| | 02 | 210 | 05.6 | | 25.9 | 261 | 55.2 | 15.9 | 5 | 37.3 | 11.0 | 54.1 | 54 | 05 35 | 06 17 | 06 53 | 00 54 | 02 02 | 03 09 | 04 17 | |
| | 03 | 225 | 05.7 | .. | 26.8 | 276 | 30.1 | 15.9 | 5 | 26.3 | 11.0 | 54.1 | 56 | 05 36 | 06 19 | 06 57 | 00 49 | 01 59 | 03 09 | 04 19 | |
| | 04 | 240 | 05.9 | | 27.6 | 291 | 05.0 | 16.0 | 5 | 15.3 | 11.0 | 54.1 | 58 | 05 36 | 06 22 | 07 02 | 00 44 | 01 57 | 03 09 | 04 21 | |
| | 05 | 255 | 06.0 | | 28.5 | 305 | 40.0 | 16.0 | 5 | 04.3 | 11.0 | 54.1 | S 60 | 05 36 | 06 24 | 07 07 | 00 38 | 01 53 | 03 08 | 04 23 | |
| | 06 | 270 | 06.2 | N10 | 29.4 | 320 | 15.0 | 16.0 | S 4 | 53.3 | 11.1 | 54.1 | | | | | | | | | |
| | 07 | 285 | 06.3 | | 30.3 | 334 | 50.0 | 16.0 | 4 | 42.2 | 11.1 | 54.1 | | | | | | | | | |
| | 08 | 300 | 06.4 | | 31.2 | 349 | 25.0 | 16.0 | 4 | 31.1 | 11.0 | 54.1 | | | | | | | | | |
| | 09 | 315 | 06.6 | .. | 32.0 | 4 | 00.0 | 16.0 | 4 | 20.1 | 11.1 | 54.1 | | | | | | | | | |
| | 10 | 330 | 06.7 | | 32.9 | 18 | 35.0 | 16.1 | 4 | 09.0 | 11.2 | 54.1 | | | | | | | | | |
| | 11 | 345 | 06.9 | | 33.8 | 33 | 10.1 | 16.1 | 3 | 57.8 | 11.1 | 54.1 | | | | | | | | | |
| | 12 | 0 | 07.0 | N10 | 34.7 | 47 | 45.2 | 16.1 | S 3 | 46.7 | 11.1 | 54.0 | | | | | | | | | |
| | 13 | 15 | 07.2 | | 35.5 | 62 | 20.3 | 16.1 | 3 | 35.6 | 11.2 | 54.0 | | | | | | | | | |
| | 14 | 30 | 07.3 | | 36.4 | 76 | 55.4 | 16.1 | 3 | 24.4 | 11.1 | 54.0 | | | | | | | | | |
| | 15 | 45 | 07.4 | .. | 37.3 | 91 | 30.5 | 16.1 | 3 | 13.3 | 11.2 | 54.0 | | | | | | | | | |
| | 16 | 60 | 07.6 | | 38.2 | 106 | 05.6 | 16.1 | 3 | 02.1 | 11.2 | 54.0 | | | | | | | | | |
| | 17 | 75 | 07.7 | | 39.1 | 120 | 40.7 | 16.2 | 2 | 50.9 | 11.2 | 54.0 | | | | | | | | | |
| | 18 | 90 | 07.9 | N10 | 39.9 | 135 | 15.9 | 16.1 | S 2 | 39.7 | 11.2 | 54.0 | | | | | | | | | |
| | 19 | 105 | 08.0 | | 40.8 | 149 | 51.0 | 16.2 | 2 | 28.5 | 11.2 | 54.0 | | | | | | | | | |
| | 20 | 120 | 08.2 | | 41.7 | 164 | 20.2 | 16.2 | 2 | 17.3 | 11.3 | 54.0 | | | | | | | | | |
| | 21 | 135 | 08.3 | .. | 42.6 | 179 | 01.4 | 16.1 | 2 | 06.0 | 11.2 | 54.0 | | | | | | | | | |
| | 22 | 150 | 08.4 | | 43.4 | 193 | 36.5 | 16.2 | 1 | 54.8 | 11.2 | 54.0 | | | | | | | | | |
| 23 | 165 | 08.6 | | 44.3 | 208 | 11.7 | 16.2 | 1 | 43.6 | 11.3 | 54.0 | | | | | | | | | | |
| D O M I N G O | 18 00 | 180 | 08.7 | N10 | 45.2 | 222 | 46.9 | 16.2 | S 1 | 32.3 | 11.2 | 54.0 | N 40 | 18 40 | 19 09 | 19 43 | 13 45 | 14 42 | 15 39 | 16 36 | |
| | 01 | 195 | 08.9 | | 46.1 | 237 | 22.1 | 16.2 | 1 | 21.1 | 11.3 | 54.0 | 35 | 18 34 | 19 00 | 19 31 | 13 49 | 14 44 | 15 38 | 16 33 | |
| | 02 | 210 | 09.0 | | 46.9 | 251 | 57.3 | 16.2 | 1 | 09.8 | 11.3 | 54.0 | 30 | 18 28 | 18 53 | 19 22 | 13 53 | 14 46 | 15 38 | 16 30 | |
| | 03 | 225 | 09.1 | .. | 47.8 | 266 | 32.5 | 16.1 | 0 | 58.5 | 11.2 | 54.0 | 20 | 18 19 | 18 41 | 19 08 | 14 00 | 14 49 | 15 36 | 16 25 | |
| | 04 | 240 | 09.3 | | 48.7 | 281 | 07.6 | 16.2 | 0 | 47.3 | 11.3 | 54.0 | N 10 | 18 11 | 18 32 | 18 57 | 14 06 | 14 51 | 15 35 | 16 20 | |
| | 05 | 255 | 09.4 | | 49.5 | 295 | 42.8 | 16.2 | 0 | 36.0 | 11.3 | 54.0 | 0 | 18 03 | 18 24 | 18 48 | 14 12 | 14 53 | 15 34 | 16 16 | |
| | 06 | 270 | 09.6 | N10 | 50.4 | 310 | 18.0 | 16.2 | S 0 | 24.7 | 11.3 | 54.0 | S 10 | 17 55 | 18 17 | 18 41 | 14 18 | 14 56 | 15 33 | 16 11 | |
| | 07 | 285 | 09.7 | | 51.3 | 324 | 53.2 | 16.2 | 0 | 13.4 | 11.3 | 54.0 | 20 | 17 47 | 18 10 | 18 36 | 14 24 | 14 58 | 15 32 | 16 07 | |
| | 08 | 300 | 09.8 | | 52.2 | 339 | 28.4 | 16.2 | S 0 | 02.1 | 11.2 | 54.0 | 30 | 17 38 | 18 03 | 18 31 | 14 30 | 15 01 | 15 31 | 16 01 | |
| | 09 | 315 | 10.0 | .. | 53.0 | 354 | 03.6 | 16.2 | N 0 | 09.1 | 11.3 | 54.0 | 35 | 17 33 | 17 59 | 18 29 | 14 34 | 15 03 | 15 30 | 15 58 | |
| | 10 | 330 | 10.1 | | 53.9 | 8 | 38.8 | 16.1 | 0 | 20.4 | 11.3 | 54.0 | 40 | 17 28 | 17 55 | 18 27 | 14 39 | 15 04 | 15 29 | 15 55 | |
| | 11 | 345 | 10.3 | | 54.8 | 23 | 13.9 | 16.2 | 0 | 31.7 | 11.3 | 54.0 | 45 | 17 21 | 17 51 | 18 25 | 14 44 | 15 06 | 15 28 | 15 51 | |
| | 12 | 0 | 10.4 | N10 | 55.6 | 37 | 49.1 | 16.2 | N 0 | 43.0 | 11.3 | 54.0 | S 50 | 17 13 | 17 46 | 18 23 | 14 50 | 15 09 | 15 27 | 15 46 | |
| | 13 | 15 | 10.5 | | 56.5 | 52 | 24.3 | 16.1 | 0 | 54.3 | 11.2 | 54.0 | 52 | 17 09 | 17 44 | 18 23 | 14 53 | 15 10 | 15 27 | 15 44 | |
| | 14 | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.4 | | | MARTE +0.9 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|----------------|-------|----|----------|------------|--------------|---------|--------------|---------|--------------|--------------|--------------|------|--------------|--------------|------|-----------|----------|------|
| | d | h | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. |
| LUNES | 19 | 00 | | 207 06.4 | 205 13.7 N 5 | 43.6 | 88 50.3 N23 | 06.3 | 19 41.8 S 1 | 28.9 | 236 20.3 S13 | 12.1 | Acamar | 315 30.1 S40 | 20.0 | | | |
| | 01 | 02 | | 222 08.9 | 220 16.3 | 42.9 | 103 51.6 | 06.0 | 34 44.5 | 28.8 | 251 22.6 | 12.1 | Achernar | 335 38.5 S57 | 16.2 | | | |
| | 02 | 03 | | 237 11.4 | 235 18.8 | 42.2 | 118 52.9 | 05.7 | 49 47.3 | 28.7 | 266 24.9 | 12.0 | Acrux | 173 25.6 S63 | 04.0 | | | |
| | 03 | 04 | | 252 13.8 | 250 21.4 | 41.5 | 133 54.1 | 05.5 | 64 50.0 | 28.6 | 281 27.1 | 12.0 | Adhara | 255 24.5 S28 | 58.1 | | | |
| | 04 | 05 | | 267 16.3 | 265 23.9 | 40.9 | 148 55.4 | 05.2 | 79 52.7 | 28.5 | 296 29.4 | 11.9 | Aldebaran | 291 07.0 N16 | 29.7 | | | |
| | 05 | 06 | | 282 18.8 | 280 26.5 | 40.2 | 163 56.7 | 05.0 | 94 55.4 | 28.4 | 311 31.7 | 11.8 | | | | | | |
| | 06 | 07 | | 297 21.2 | 295 29.0 N 5 | 39.5 | 178 58.0 N23 | 04.7 | 109 58.2 S 1 | 28.3 | 326 34.0 S13 | 11.8 | Alioth | 166 33.3 N55 | 59.7 | | | |
| | 07 | 08 | | 312 23.7 | 310 31.6 | 38.9 | 193 59.2 | 04.5 | 125 00.9 | 28.2 | 341 36.2 | 11.7 | Alkaid | 153 10.2 N49 | 20.7 | | | |
| | 08 | 09 | | 327 26.2 | 325 34.1 | 38.2 | 209 00.5 | 04.2 | 140 03.6 | 28.1 | 356 38.5 | 11.6 | Al Na'ir | 28 02.8 S46 | 59.4 | | | |
| | 09 | 10 | | 342 28.6 | 340 36.6 | 37.5 | 224 01.8 | 03.9 | 155 06.3 | 28.0 | 11 40.8 | 11.6 | Alnilam | 276 01.9 S 1 | 12.5 | | | |
| | 10 | 11 | | 357 31.1 | 355 39.2 | 36.9 | 239 03.1 | 03.7 | 170 09.1 | 27.9 | 26 43.1 | 11.5 | Alphard | 218 10.8 S 8 | 38.0 | | | |
| | 11 | 12 | | 12 33.6 | 10 41.7 | 36.2 | 254 04.3 | 03.4 | 185 11.8 | 27.8 | 41 45.3 | 11.5 | | | | | | |
| | 12 | 13 | | 27 36.0 | 25 44.2 N 5 | 35.6 | 269 05.6 N23 | 03.2 | 200 14.5 S 1 | 27.7 | 56 47.6 S13 | 11.4 | Alphecca | 126 23.4 N26 | 44.0 | | | |
| | 13 | 14 | | 42 38.5 | 40 46.7 | 34.9 | 284 06.9 | 02.9 | 215 17.2 | 27.6 | 71 49.9 | 11.3 | Alpheratz | 357 59.5 N29 | 03.1 | | | |
| | 14 | 15 | | 57 40.9 | 55 49.2 | 34.3 | 299 08.2 | 02.6 | 230 19.9 | 27.5 | 86 52.2 | 11.3 | Altair | 62 22.9 N 8 | 50.9 | | | |
| | 15 | 16 | | 72 43.4 | 70 51.7 | 33.6 | 314 09.4 | 02.4 | 245 22.7 | 27.4 | 101 54.4 | 11.2 | Ankaa | 353 30.9 S42 | 20.4 | | | |
| | 16 | 17 | | 87 45.9 | 85 54.2 | 33.0 | 329 10.7 | 02.1 | 260 25.4 | 27.3 | 116 56.7 | 11.2 | Antares | 112 44.5 S26 | 25.1 | | | |
| | 17 | 18 | | 102 48.3 | 100 56.7 | 32.3 | 344 12.0 | 01.9 | 275 28.1 | 27.2 | 131 59.0 | 11.1 | | | | | | |
| | 18 | 19 | | 117 50.8 | 115 59.2 N 5 | 31.7 | 359 13.3 N23 | 01.6 | 290 30.8 S 1 | 27.0 | 147 01.3 S13 | 11.0 | Arcturus | 146 09.1 N19 | 12.8 | | | |
| | 19 | 20 | | 132 53.3 | 131 01.7 | 31.0 | 14 14.5 | 01.3 | 305 33.6 | 26.9 | 162 03.5 | 11.0 | Atria | 107 59.5 S69 | 00.8 | | | |
| | 20 | 21 | | 147 55.7 | 146 04.2 | 30.4 | 29 15.8 | 01.1 | 320 36.3 | 26.8 | 177 05.8 | 10.9 | Avior | 234 24.2 S59 | 29.7 | | | |
| | 21 | 22 | | 162 58.2 | 161 06.7 | 29.7 | 44 17.1 | 00.8 | 335 39.0 | 26.7 | 192 08.1 | 10.9 | Bellatrix | 278 48.4 N 6 | 20.5 | | | |
| | 22 | 23 | | 178 00.7 | 176 09.2 | 29.1 | 59 18.3 | 00.6 | 350 41.7 | 26.6 | 207 10.4 | 10.8 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | |
| 23 | | | 193 03.1 | 191 11.7 | 28.5 | 74 19.6 | 00.3 | 5 44.4 | 26.5 | 222 12.6 | 10.7 | | | | | | | |
| MARTES | 20 | 00 | | 208 05.6 | 206 14.1 N 5 | 27.8 | 89 20.9 N23 | 00.0 | 20 47.2 S 1 | 26.4 | 237 14.9 S13 | 10.7 | Canopus | 264 03.1 S52 | 41.9 | | | |
| | 01 | 02 | | 223 08.0 | 221 16.6 | 27.2 | 104 22.2 | 22 59.8 | 35 49.9 | 26.3 | 252 17.2 | 10.6 | Capella | 280 57.1 N45 | 59.6 | | | |
| | 02 | 03 | | 238 10.5 | 236 19.1 | 26.6 | 119 23.4 | 59.5 | 50 52.6 | 26.2 | 267 19.5 | 10.6 | Deneb | 49 41.8 N45 | 15.2 | | | |
| | 03 | 04 | | 253 13.0 | 251 21.5 | 25.9 | 134 24.7 | 59.3 | 65 55.3 | 26.1 | 282 21.8 | 10.5 | Denebola | 182 48.7 N14 | 36.4 | | | |
| | 04 | 05 | | 268 15.4 | 266 24.0 | 25.3 | 149 26.0 | 59.0 | 80 58.0 | 26.0 | 297 24.0 | 10.4 | Diphda | 349 11.3 S18 | 01.4 | | | |
| | 05 | 06 | | 283 17.9 | 281 26.4 | 24.7 | 164 27.2 | 58.7 | 96 00.8 | 25.9 | 312 26.3 | 10.4 | | | | | | |
| | 06 | 07 | | 298 20.4 | 296 28.9 N 5 | 24.1 | 179 28.5 N22 | 58.5 | 111 03.5 S 1 | 25.8 | 327 28.6 S13 | 10.3 | Dubhe | 194 09.5 N61 | 47.3 | | | |
| | 07 | 08 | | 313 22.8 | 311 31.3 | 23.4 | 194 29.8 | 58.2 | 126 06.2 | 25.7 | 342 30.9 | 10.3 | Elnath | 278 31.9 N28 | 36.1 | | | |
| | 08 | 09 | | 328 25.3 | 326 33.8 | 22.8 | 209 31.0 | 57.9 | 141 08.9 | 25.6 | 357 33.1 | 10.2 | Eltanin | 90 52.9 N51 | 29.1 | | | |
| | 09 | 10 | | 343 27.8 | 341 36.2 | 22.2 | 224 32.3 | 57.7 | 156 11.6 | 25.5 | 12 35.4 | 10.1 | Enif | 34 02.0 N 9 | 50.6 | | | |
| | 10 | 11 | | 358 30.2 | 356 38.6 | 21.6 | 239 33.6 | 57.4 | 171 14.4 | 25.4 | 27 37.7 | 10.1 | Fomalhaut | 15 40.8 S29 | 39.3 | | | |
| | 11 | 12 | | 13 32.7 | 11 41.1 | 21.0 | 254 34.9 | 57.1 | 186 17.1 | 25.3 | 42 40.0 | 10.0 | | | | | | |
| | 12 | 13 | | 28 35.2 | 26 43.5 N 5 | 20.3 | 269 36.1 N22 | 56.9 | 201 19.8 S 1 | 25.2 | 57 42.3 S13 | 10.0 | Gacrux | 172 17.3 S57 | 04.8 | | | |
| | 13 | 14 | | 43 37.6 | 41 45.9 | 19.7 | 284 37.4 | 56.6 | 216 22.5 | 25.1 | 72 44.5 | 09.9 | Gienah | 176 07.5 S17 | 30.5 | | | |
| | 14 | 15 | | 58 40.1 | 56 48.3 | 19.1 | 299 38.7 | 56.4 | 231 25.2 | 25.0 | 87 46.8 | 09.8 | Hadar | 149 08.8 S60 | 20.6 | | | |
| | 15 | 16 | | 73 42.5 | 71 50.8 | 18.5 | 314 39.9 | 56.1 | 246 28.0 | 24.9 | 102 49.1 | 09.8 | Hamal | 328 18.2 N23 | 25.8 | | | |
| | 16 | 17 | | 88 45.0 | 86 53.2 | 17.9 | 329 41.2 | 55.8 | 261 30.7 | 24.8 | 117 51.4 | 09.7 | Kaus Aust. | 84 03.6 S34 | 23.2 | | | |
| | 17 | 18 | | 103 47.5 | 101 55.6 | 17.3 | 344 42.5 | 55.6 | 276 33.4 | 24.6 | 132 53.6 | 09.7 | | | | | | |
| | 18 | 19 | | 118 49.9 | 116 58.0 N 5 | 16.7 | 359 43.7 N22 | 55.3 | 291 36.1 S 1 | 24.5 | 147 55.9 S13 | 09.6 | Kochab | 137 18.1 N74 | 10.8 | | | |
| | 19 | 20 | | 133 52.4 | 132 00.4 | 16.1 | 14 45.0 | 55.0 | 306 38.8 | 24.4 | 162 58.2 | 09.5 | Markab | 13 53.6 N15 | 10.1 | | | |
| | 20 | 21 | | 148 54.9 | 147 02.8 | 15.5 | 29 46.3 | 54.8 | 321 41.5 | 24.3 | 178 00.5 | 09.5 | Menkar | 314 31.1 N 4 | 03.8 | | | |
| | 21 | 22 | | 163 57.3 | 162 05.2 | 14.9 | 44 47.5 | 54.5 | 336 44.3 | 24.2 | 193 02.8 | 09.4 | Menkent | 148 25.0 S36 | 20.4 | | | |
| | 22 | 23 | | 178 59.8 | 177 07.6 | 14.3 | 59 48.8 | 54.2 | 351 47.0 | 24.1 | 208 05.0 | 09.4 | Miaplacidus | 221 42.6 S69 | 41.8 | | | |
| 23 | | | 194 02.3 | 192 09.9 | 13.7 | 74 50.0 | 54.0 | 6 49.7 | 24.0 | 223 07.3 | 09.3 | | | | | | | |
| MIÉRCOLES | 21 | 00 | | 209 04.7 | 207 12.3 N 5 | 13.1 | 89 51.3 N22 | 53.7 | 21 52.4 S 1 | 23.9 | 238 09.6 S13 | 09.2 | Mirfak | 309 02.5 N49 | 50.3 | | | |
| | 01 | 02 | | 224 07.2 | 222 14.7 | 12.5 | 104 52.6 | 53.4 | 36 55.1 | 23.8 | 253 11.9 | 09.2 | Nunki | 76 16.9 S26 | 18.2 | | | |
| | 02 | 03 | | 239 09.7 | 237 17.1 | 11.9 | 119 53.8 | 53.2 | 51 57.9 | 23.7 | 268 14.2 | 09.1 | Peacock | 53 42.9 S56 | 45.1 | | | |
| | 03 | 04 | | 254 12.1 | 252 19.4 | 11.3 | 134 55.1 | 52.9 | 67 00.6 | 23.6 | 283 16.4 | 09.1 | Pollux | 243 46.2 N28 | 02.5 | | | |
| | 04 | 05 | | 269 14.6 | 267 21.8 | 10.8 | 149 56.4 | 52.6 | 82 03.3 | 23.5 | 298 18.7 | 09.0 | Procyon | 245 15.5 N 5 | 14.4 | | | |
| | 05 | 06 | | 284 17.0 | 282 24.2 | 10.2 | 164 57.6 | 52.4 | 97 06.0 | 23.4 | 313 21.0 | 08.9 | | | | | | |
| | 06 | 07 | | 299 19.5 | 297 26.5 N 5 | 09.6 | 179 58.9 N22 | 52.1 | 112 08.7 S 1 | 23.3 | 328 23.3 S13 | 08.9 | Rasalhague | 96 20.2 N12 | 33.7 | | | |
| | 07 | 08 | | 314 22.0 | 312 28.9 | 09.0 | 195 00.1 | 51.8 | 127 11.4 | 23.2 | 343 25.6 | 08.8 | Regulus | 207 59.4 N11 | 59.8 | | | |
| | 08 | 09 | | 329 24.4 | 327 31.2 | 08.4 | 210 01.4 | 51.6 | 142 14.1 | 23.1 | 358 27.8 | 08.8 | Rigel | 281 26.8 S 8 | 12.7 | | | |
| | 09 | 10 | | 344 26.9 | 342 33.6 | 07.9 | 225 02.7 | 51.3 | 157 16.9 | 23.0 | 13 30.1 | 08.7 | Rigil Kent. | 140 11.7 S60 | 48.5 | | | |
| | 10 | 11 | | 359 29.4 | 357 35.9 | 07.3 | 240 03.9 | 51.0 | 172 19.6 | 22.9 | 28 32.4 | 08.7 | Sabik | 102 29.6 S15 | 43.1 | | | |
| | 11 | 12 | | 14 31.8 | 12 38.3 | 06.7 | 255 05.2 | 50.8 | 187 22.3 | 22.8 | 43 34.7 | 08.6 | | | | | | |
| | 12 | 13 | | 29 34.3 | 27 40.6 N 5 | 06.1 | 270 06.5 N22 | 50.5 | 202 25.0 S 1 | 22.7 | 58 37.0 S13 | 08.5 | Schedar | 349 58.4 N56 | 30.0 | | | |
| | 13 | 14 | | 44 36.8 | 42 42.9 | 05.6 | 285 07.7 | 50.2 | 217 27.7 | 22.6 | 73 39.2 | 08.5 | Shaula | 96 42.1 S37 | 05.9 | | | |
| | 14 | 15 | | 59 39.2 | 57 45.3 | 05.0 | 300 09.0 | 50.0 | 232 30.4 | 22.5 | 88 41.5 | 08.4 | Sirius | 258 47.1 S16 | 42.6 | | | |
| | 15 | 16 | | 74 41.7 | 72 47.6 | 04.4 | 315 10.2 | 49.7 | 247 33.2 | 22.4 | 103 43.8 | 08.4 | Spica | 158 46.8 S11 | 07.8 | | | |
| | 16 | 17 | | 89 44.1 | 87 49.9 | 03.9 | 330 11.5 | 49.4</ | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE +1.0 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | | |
|----------------|-------|------|------|------------|--------|----------|------------|--------|----------|--------------|--------|----------|--------------|--------|----------|-------------|----------|------|----------|
| | d | h | | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | |
| 25 | 00 | 213 | 01.3 | 210 | 43.8 | N 4 24.8 | 91 | 51.4 | N22 27.3 | 26 | 12.4 | S 1 14.5 | 241 | 49.0 | S13 03.8 | Acamar | 315 | 30.1 | S40 19.9 |
| | 01 | 228 | 03.7 | 225 | 45.9 | 24.4 | 106 | 52.6 | 27.0 | 41 | 15.1 | 14.4 | 256 | 51.3 | 03.7 | Achernar | 335 | 38.4 | S57 16.1 |
| | 02 | 243 | 06.2 | 240 | 47.9 | 24.0 | 121 | 53.9 | 26.7 | 56 | 17.8 | 14.3 | 271 | 53.6 | 03.7 | Acru | 173 | 25.6 | S63 04.0 |
| | 03 | 258 | 08.7 | 255 | 49.9 | 23.6 | 136 | 55.1 | 26.4 | 71 | 20.5 | 14.2 | 286 | 55.9 | 03.6 | Adhara | 255 | 24.5 | S28 58.1 |
| | 04 | 273 | 11.1 | 270 | 51.9 | 23.2 | 151 | 56.3 | 26.2 | 86 | 23.2 | 14.1 | 301 | 58.2 | 03.6 | Aldebaran | 291 | 07.0 | N16 29.7 |
| | 05 | 288 | 13.6 | 285 | 53.9 | 22.8 | 166 | 57.6 | 25.9 | 101 | 25.9 | 14.0 | 317 | 00.5 | 03.5 | | | | |
| | 06 | 303 | 16.1 | 300 | 56.0 | N 4 22.4 | 181 | 58.8 | N22 25.6 | 116 | 28.6 | S 1 13.9 | 332 | 02.8 | S13 03.4 | Alioth | 166 | 33.3 | N55 59.7 |
| | 07 | 318 | 18.5 | 315 | 58.0 | 22.0 | 197 | 00.1 | 25.3 | 131 | 31.3 | 13.8 | 347 | 05.1 | 03.4 | Alkaid | 153 | 10.2 | N49 20.7 |
| | 08 | 333 | 21.0 | 331 | 00.0 | 21.6 | 212 | 01.3 | 25.0 | 146 | 34.0 | 13.7 | 2 | 07.4 | 03.3 | Al Na'ir | 28 | 02.7 | S46 59.4 |
| | 09 | 348 | 23.5 | 346 | 02.0 | 21.2 | 227 | 02.5 | 24.7 | 161 | 36.7 | 13.6 | 17 | 09.7 | 03.3 | Alnilam | 276 | 01.9 | S 1 12.5 |
| | 10 | 3 | 25.9 | 1 | 04.0 | 20.8 | 242 | 03.8 | 24.4 | 176 | 39.4 | 13.5 | 32 | 12.0 | 03.2 | Alphard | 218 | 10.8 | S 8 38.0 |
| | 11 | 18 | 28.4 | 16 | 06.0 | 20.4 | 257 | 05.0 | 24.2 | 191 | 42.1 | 13.4 | 47 | 14.3 | 03.2 | | | | |
| | 12 | 33 | 30.8 | 31 | 08.0 | N 4 20.0 | 272 | 06.2 | N22 23.9 | 206 | 44.8 | S 1 13.3 | 62 | 16.5 | S13 03.1 | Alphecca | 126 | 23.4 | N26 44.0 |
| | 13 | 48 | 33.3 | 46 | 10.0 | 19.6 | 287 | 07.5 | 23.6 | 221 | 47.5 | 13.2 | 77 | 18.8 | 03.1 | Alpheratz | 357 | 59.4 | N29 03.1 |
| | 14 | 63 | 35.8 | 61 | 11.9 | 19.2 | 302 | 08.7 | 23.3 | 236 | 50.2 | 13.1 | 92 | 21.1 | 03.0 | Altair | 62 | 22.9 | N 8 50.9 |
| | 15 | 78 | 38.2 | 76 | 13.9 | 18.8 | 317 | 09.9 | 23.0 | 251 | 52.9 | 13.1 | 107 | 23.4 | 03.0 | Ankaa | 353 | 30.8 | S42 20.4 |
| | 16 | 93 | 40.7 | 91 | 15.9 | 18.5 | 332 | 11.2 | 22.7 | 266 | 55.6 | 13.0 | 122 | 25.7 | 02.9 | Antares | 112 | 44.4 | S26 25.1 |
| | 17 | 108 | 43.2 | 106 | 17.9 | 18.1 | 347 | 12.4 | 22.4 | 281 | 58.3 | 12.9 | 137 | 28.0 | 02.8 | | | | |
| | 18 | 123 | 45.6 | 121 | 19.9 | N 4 17.7 | 2 | 13.6 | N22 22.2 | 297 | 01.0 | S 1 12.8 | 152 | 30.3 | S13 02.8 | Arcturus | 146 | 09.1 | N19 12.9 |
| | 19 | 138 | 48.1 | 136 | 21.8 | 17.3 | 17 | 14.9 | 21.9 | 312 | 03.7 | 12.7 | 167 | 32.6 | 02.7 | Atria | 107 | 59.4 | S69 00.8 |
| | 20 | 153 | 50.6 | 151 | 23.8 | 16.9 | 32 | 16.1 | 21.6 | 327 | 06.4 | 12.6 | 182 | 34.9 | 02.7 | Avior | 234 | 24.2 | S59 29.7 |
| | 21 | 168 | 53.0 | 166 | 25.7 | 16.6 | 47 | 17.3 | 21.3 | 342 | 09.1 | 12.5 | 197 | 37.2 | 02.6 | Bellatrix | 278 | 48.4 | N 6 20.5 |
| | 22 | 183 | 55.5 | 181 | 27.7 | 16.2 | 62 | 18.6 | 21.0 | 357 | 11.8 | 12.4 | 212 | 39.5 | 02.6 | Betelgeuse | 271 | 17.8 | N 7 24.3 |
| 23 | 198 | 58.0 | 196 | 29.7 | 15.8 | 77 | 19.8 | 20.7 | 12 | 14.5 | 12.3 | 227 | 41.8 | 02.5 | | | | | |
| 26 | 00 | 214 | 00.4 | 211 | 31.6 | N 4 15.5 | 92 | 21.0 | N22 20.4 | 27 | 17.2 | S 1 12.2 | 242 | 44.1 | S13 02.5 | Canopus | 264 | 03.1 | S52 41.8 |
| | 01 | 229 | 02.9 | 226 | 33.6 | 15.1 | 107 | 22.3 | 20.1 | 42 | 19.9 | 12.1 | 257 | 46.4 | 02.4 | Capella | 280 | 57.1 | N45 59.6 |
| | 02 | 244 | 05.3 | 241 | 35.5 | 14.7 | 122 | 23.5 | 19.8 | 57 | 22.6 | 12.0 | 272 | 48.7 | 02.4 | Deneb | 49 | 41.8 | N45 15.2 |
| | 03 | 259 | 07.8 | 256 | 37.5 | 14.4 | 137 | 24.7 | 19.6 | 72 | 25.3 | 11.9 | 287 | 51.0 | 02.3 | Denebola | 182 | 48.7 | N14 36.4 |
| | 04 | 274 | 10.3 | 271 | 39.4 | 14.0 | 152 | 26.0 | 19.3 | 87 | 28.0 | 11.9 | 302 | 53.3 | 02.3 | Diphda | 349 | 11.3 | S18 01.4 |
| | 05 | 289 | 12.7 | 286 | 41.3 | 13.6 | 167 | 27.2 | 19.0 | 102 | 30.6 | 11.8 | 317 | 55.6 | 02.2 | | | | |
| | 06 | 304 | 15.2 | 301 | 43.3 | N 4 13.3 | 182 | 28.4 | N22 18.7 | 117 | 33.3 | S 1 11.7 | 332 | 57.9 | S13 02.1 | Dubhe | 194 | 09.6 | N61 47.3 |
| | 07 | 319 | 17.7 | 316 | 45.2 | 12.9 | 197 | 29.7 | 18.4 | 132 | 36.0 | 11.6 | 348 | 00.1 | 02.1 | Elnath | 278 | 31.9 | N28 36.1 |
| | 08 | 334 | 20.1 | 331 | 47.1 | 12.6 | 212 | 30.9 | 18.1 | 147 | 38.7 | 11.5 | 3 | 02.4 | 02.0 | Eltanin | 90 | 52.8 | N51 29.1 |
| | 09 | 349 | 22.6 | 346 | 49.0 | 12.2 | 227 | 32.1 | 17.8 | 162 | 41.4 | 11.4 | 18 | 04.7 | 02.0 | Enif | 34 | 02.0 | N 9 50.6 |
| | 10 | 4 | 25.1 | 1 | 51.0 | 11.9 | 242 | 33.4 | 17.5 | 177 | 44.1 | 11.3 | 33 | 07.0 | 01.9 | Fomalhaut | 15 | 40.7 | S29 39.3 |
| | 11 | 19 | 27.5 | 16 | 52.9 | 11.5 | 257 | 34.6 | 17.2 | 192 | 46.8 | 11.2 | 48 | 09.3 | 01.9 | | | | |
| | 12 | 34 | 30.0 | 31 | 54.8 | N 4 11.2 | 272 | 35.8 | N22 16.9 | 207 | 49.5 | S 1 11.1 | 63 | 11.6 | S13 01.8 | Gacrux | 172 | 17.3 | S57 04.8 |
| | 13 | 49 | 32.4 | 46 | 56.7 | 10.8 | 287 | 37.0 | 16.7 | 222 | 52.2 | 11.0 | 78 | 13.9 | 01.8 | Gienah | 176 | 07.5 | S17 30.6 |
| | 14 | 64 | 34.9 | 61 | 58.6 | 10.5 | 302 | 38.3 | 16.4 | 237 | 54.9 | 10.9 | 93 | 16.2 | 01.7 | Hadar | 149 | 08.7 | S60 20.6 |
| | 15 | 79 | 37.4 | 77 | 00.5 | 10.1 | 317 | 39.5 | 16.1 | 252 | 57.6 | 10.8 | 108 | 18.5 | 01.7 | Hamal | 328 | 18.1 | N23 25.8 |
| | 16 | 94 | 39.8 | 92 | 02.4 | 09.8 | 332 | 40.7 | 15.8 | 268 | 00.3 | 10.8 | 123 | 20.8 | 01.6 | Kaus Aust. | 84 | 03.5 | S34 23.2 |
| | 17 | 109 | 42.3 | 107 | 04.3 | 09.4 | 347 | 42.0 | 15.5 | 283 | 03.0 | 10.7 | 138 | 23.1 | 01.6 | | | | |
| | 18 | 124 | 44.8 | 122 | 06.2 | N 4 09.1 | 2 | 43.2 | N22 15.2 | 298 | 05.6 | S 1 10.6 | 153 | 25.4 | S13 01.5 | Kochab | 137 | 18.1 | N74 10.9 |
| | 19 | 139 | 47.2 | 137 | 08.1 | 08.8 | 17 | 44.4 | 14.9 | 313 | 08.3 | 10.5 | 168 | 27.7 | 01.5 | Markab | 13 | 53.5 | N15 10.1 |
| | 20 | 154 | 49.7 | 152 | 10.0 | 08.4 | 32 | 45.6 | 14.6 | 328 | 11.0 | 10.4 | 183 | 30.0 | 01.4 | Menkar | 314 | 31.1 | N 4 03.8 |
| | 21 | 169 | 52.2 | 167 | 11.8 | 08.1 | 47 | 46.9 | 14.3 | 343 | 13.7 | 10.3 | 198 | 32.3 | 01.4 | Menkent | 148 | 25.0 | S36 20.4 |
| | 22 | 184 | 54.6 | 182 | 13.7 | 07.8 | 62 | 48.1 | 14.0 | 358 | 16.4 | 10.2 | 213 | 34.6 | 01.3 | Miaplacidus | 221 | 42.7 | S69 41.8 |
| 23 | 199 | 57.1 | 197 | 15.6 | 07.5 | 77 | 49.3 | 13.7 | 13 | 19.1 | 10.1 | 228 | 36.9 | 01.2 | | | | | |
| 27 | 00 | 214 | 59.6 | 212 | 17.5 | N 4 07.1 | 92 | 50.6 | N22 13.4 | 28 | 21.8 | S 1 10.0 | 243 | 39.2 | S13 01.2 | Mirfak | 309 | 02.5 | N49 50.3 |
| | 01 | 230 | 02.0 | 227 | 19.3 | 06.8 | 107 | 51.8 | 13.1 | 43 | 24.5 | 09.9 | 258 | 41.5 | 01.1 | Nunki | 76 | 16.8 | S26 18.2 |
| | 02 | 245 | 04.5 | 242 | 21.2 | 06.5 | 122 | 53.0 | 12.9 | 58 | 27.2 | 09.9 | 273 | 43.8 | 01.1 | Peacock | 53 | 42.8 | S56 45.1 |
| | 03 | 260 | 06.9 | 257 | 23.1 | 06.2 | 137 | 54.2 | 12.6 | 73 | 29.9 | 09.8 | 288 | 46.1 | 01.0 | Pollux | 243 | 46.2 | N28 02.5 |
| | 04 | 275 | 09.4 | 272 | 24.9 | 05.8 | 152 | 55.5 | 12.3 | 88 | 32.6 | 09.7 | 303 | 48.4 | 01.0 | Procyon | 245 | 15.5 | N 5 14.4 |
| | 05 | 290 | 11.9 | 287 | 26.8 | 05.5 | 167 | 56.7 | 12.0 | 103 | 35.2 | 09.6 | 318 | 50.7 | 00.9 | | | | |
| | 06 | 305 | 14.3 | 302 | 28.7 | N 4 05.2 | 182 | 57.9 | N22 11.7 | 118 | 37.9 | S 1 09.5 | 333 | 53.0 | S13 00.9 | Rasalhague | 96 | 20.2 | N12 33.7 |
| | 07 | 320 | 16.8 | 317 | 30.5 | 04.9 | 197 | 59.1 | 11.4 | 133 | 40.6 | 09.4 | 348 | 55.3 | 00.8 | Regulus | 207 | 59.4 | N11 59.8 |
| | 08 | 335 | 19.3 | 332 | 32.3 | 04.6 | 213 | 00.4 | 11.1 | 148 | 43.3 | 09.3 | 3 | 57.6 | 00.8 | Rigel | 281 | 26.8 | S 8 12.7 |
| | 09 | 350 | 21.7 | 347 | 34.2 | 04.3 | 228 | 01.6 | 10.8 | 163 | 46.0 | 09.2 | 18 | 59.9 | 00.7 | Rigel Kent. | 140 | 11.7 | S60 48.5 |
| | 10 | 5 | 24.2 | 2 | 36.0 | 04.0 | 243 | 02.8 | 10.5 | 178 | 48.7 | 09.1 | 34 | 02.2 | 00.7 | Sabik | 102 | 29.6 | S15 43.1 |
| | 11 | 20 | 26.7 | 17 | 37.9 | 03.7 | 258 | 04.0 | 10.2 | 193 | 51.4 | 09.1 | 49 | 04.5 | 00.6 | | | | |
| | 12 | 35 | 29.1 | 32 | 39.7 | N 4 03.4 | 273 | 05.3 | N22 09.9 | 208 | 54.1 | S 1 09.0 | 64 | 06.8 | S13 00.6 | Schedar | 349 | 58.3 | N56 30.0 |
| | 13 | 50 | 31.6 | 47 | 41.5 | 03.1 | 288 | 06.5 | 09.6 | 223 | 56.7 | 08.9 | 79 | 09.1 | 00.5 | Shaula | 96 | 42.1 | S37 05.9 |
| | 14 | 65 | 34.1 | 62 | 43.4 | 02.8 | 303 | 07.7 | 09.3 | 238 | 59.4 | 08.8 | 94 | 11.4 | 00.5 | Sirius | 258 | 47.1 | S16 42.6 |
| | 15 | 80 | 36.5 | 77 | 45.2 | 02.5 | 318 | 08.9 | 09.0 | 254 | 02.1 | 08.7 | 109 | 13.7 | 00.4 | Spica</ | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|----------------|--------|------|------|------|--------|------|------|-----|------|------------|------|----------|-----------|------------------|------------|-------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | d | P.H. | | Naut. | Civil | 25 | 26 | 27 | 28 | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | h | m | h | m | h | m |
| DOMINGO | 25 00 | 180 | 29.7 | N13 | 07.3 | 145 | 31.9 | 9.1 | N22 | 07.9 | 2.0 | 56.1 | N 72 | /// | /// | 02 31 | □ | □ | □ | □ |
| | 01 | 195 | 29.8 | | 08.1 | 160 | 00.0 | 9.1 | 22 | 09.9 | 1.8 | 56.1 | N 70 | /// | 00 52 | 02 59 | □ | □ | □ | 06 50 |
| | 02 | 210 | 29.9 | | 09.0 | 174 | 28.1 | 9.0 | 22 | 11.7 | 1.7 | 56.1 | 68 | /// | 01 51 | 03 21 | □ | □ | 05 33 | 07 34 |
| | 03 | 225 | 30.0 | | 09.8 | 188 | 56.1 | 9.1 | 22 | 13.4 | 1.5 | 56.1 | 66 | /// | 02 24 | 03 37 | 04 02 | 04 57 | 06 22 | 08 03 |
| | 04 | 240 | 30.1 | | 10.6 | 203 | 24.2 | 8.9 | 22 | 14.9 | 1.5 | 56.1 | 64 | 00 46 | 02 48 | 03 51 | 04 42 | 05 36 | 06 53 | 08 25 |
| | 05 | 255 | 30.2 | | 11.4 | 217 | 52.1 | 9.0 | 22 | 16.4 | 1.3 | 56.2 | 62 | 01 38 | 03 06 | 04 02 | 05 09 | 06 04 | 07 17 | 08 42 |
| | 06 | 270 | 30.3 | N13 | 12.2 | 232 | 20.1 | 8.9 | N22 | 17.7 | 1.2 | 56.2 | 60 | 02 08 | 03 21 | 04 12 | 05 30 | 06 25 | 07 35 | 08 57 |
| | 07 | 285 | 30.4 | | 13.0 | 246 | 48.0 | 8.9 | 22 | 18.9 | 1.1 | 56.2 | N 58 | 02 30 | 03 34 | 04 20 | 05 47 | 06 42 | 07 51 | 09 09 |
| | 08 | 300 | 30.6 | | 13.8 | 261 | 15.9 | 8.8 | 22 | 20.0 | 1.0 | 56.2 | 56 | 02 48 | 03 45 | 04 28 | 06 02 | 06 57 | 08 04 | 09 20 |
| | 09 | 315 | 30.7 | | 14.7 | 275 | 43.7 | 8.8 | 22 | 21.0 | 0.8 | 56.3 | 54 | 03 02 | 03 54 | 04 34 | 06 15 | 07 10 | 08 15 | 09 29 |
| | 10 | 330 | 30.8 | | 15.5 | 290 | 11.5 | 8.8 | 22 | 21.8 | 0.8 | 56.3 | 52 | 03 14 | 04 03 | 04 40 | 06 26 | 07 21 | 08 25 | 09 37 |
| | 11 | 345 | 30.9 | | 16.3 | 304 | 39.3 | 8.8 | 22 | 22.6 | 0.6 | 56.3 | 50 | 03 25 | 04 10 | 04 46 | 06 36 | 07 31 | 08 34 | 09 45 |
| | 12 | 0 | 31.0 | N13 | 17.1 | 319 | 07.1 | 8.7 | N22 | 23.2 | 0.4 | 56.3 | 45 | 03 46 | 04 25 | 04 57 | 06 57 | 07 51 | 08 53 | 10 01 |
| | 13 | 15 | 31.1 | | 17.9 | 333 | 34.8 | 8.7 | 22 | 23.6 | 0.4 | 56.3 | N 40 | 04 03 | 04 38 | 05 07 | 07 13 | 08 08 | 09 09 | 10 14 |
| | 14 | 30 | 31.2 | | 18.7 | 348 | 02.5 | 8.7 | 22 | 24.0 | 0.2 | 56.4 | 35 | 04 16 | 04 48 | 05 15 | 07 28 | 08 22 | 09 22 | 10 25 |
| | 15 | 45 | 31.3 | | 19.5 | 2 | 30.2 | 8.6 | 22 | 24.2 | 0.1 | 56.4 | 30 | 04 27 | 04 57 | 05 22 | 07 40 | 08 34 | 09 33 | 10 34 |
| | 16 | 60 | 31.4 | | 20.3 | 16 | 57.8 | 8.7 | 22 | 24.3 | 0.0 | 56.4 | 20 | 04 44 | 05 11 | 05 34 | 08 01 | 08 55 | 09 52 | 10 51 |
| | 17 | 75 | 31.5 | | 21.2 | 31 | 25.5 | 8.6 | 22 | 24.3 | 0.1 | 56.4 | N 10 | 04 58 | 05 23 | 05 45 | 08 20 | 09 14 | 10 09 | 11 05 |
| | 18 | 90 | 31.6 | N13 | 22.0 | 45 | 53.1 | 8.5 | N22 | 24.2 | 0.3 | 56.5 | 0 | 05 08 | 05 33 | 05 54 | 08 37 | 09 31 | 10 25 | 11 19 |
| | 19 | 105 | 31.7 | | 22.8 | 60 | 20.6 | 8.6 | 22 | 23.9 | 0.4 | 56.5 | S 10 | 05 18 | 05 43 | 06 04 | 08 54 | 09 48 | 10 41 | 11 32 |
| | 20 | 120 | 31.8 | | 23.6 | 74 | 48.2 | 8.5 | 22 | 23.5 | 0.5 | 56.5 | 20 | 05 26 | 05 52 | 06 14 | 09 12 | 10 06 | 10 57 | 11 46 |
| | 21 | 135 | 31.9 | | 24.4 | 89 | 15.7 | 8.5 | 22 | 23.0 | 0.7 | 56.5 | 30 | 05 33 | 06 01 | 06 26 | 09 34 | 10 27 | 11 17 | 12 03 |
| | 22 | 150 | 32.0 | | 25.2 | 103 | 43.2 | 8.5 | 22 | 22.3 | 0.7 | 56.5 | 35 | 05 37 | 06 06 | 06 32 | 09 46 | 10 39 | 11 28 | 12 12 |
| 23 | 165 | 32.1 | | 26.0 | 118 | 10.7 | 8.5 | 22 | 21.6 | 0.9 | 56.6 | 40 | 05 40 | 06 12 | 06 40 | 10 01 | 10 53 | 11 41 | 12 23 | |
| 26 00 | 180 | 32.2 | N13 | 26.8 | 132 | 38.2 | 8.5 | N22 | 20.7 | 1.1 | 56.6 | 45 | 05 44 | 06 18 | 06 49 | 10 18 | 11 10 | 11 56 | 12 36 | |
| 01 | 195 | 32.3 | | 27.6 | 147 | 05.7 | 8.4 | 22 | 19.6 | 1.1 | 56.6 | S 50 | 05 47 | 06 25 | 06 59 | 10 39 | 11 31 | 12 14 | 12 51 | |
| 02 | 210 | 32.4 | | 28.4 | 161 | 33.1 | 8.4 | 22 | 18.5 | 1.3 | 56.6 | 52 | 05 49 | 06 28 | 07 04 | 10 49 | 11 40 | 12 23 | 12 58 | |
| 03 | 225 | 32.5 | | 29.2 | 176 | 00.5 | 8.4 | 22 | 17.2 | 1.4 | 56.7 | 54 | 05 50 | 06 32 | 07 09 | 11 00 | 11 52 | 12 33 | 13 06 | |
| 04 | 240 | 32.6 | | 30.0 | 190 | 27.9 | 8.4 | 22 | 15.8 | 1.5 | 56.7 | 56 | 05 52 | 06 36 | 07 15 | 11 13 | 12 04 | 12 44 | 13 15 | |
| 05 | 255 | 32.8 | | 30.8 | 204 | 55.3 | 8.4 | 22 | 14.3 | 1.7 | 56.7 | 58 | 05 54 | 06 40 | 07 22 | 11 29 | 12 19 | 12 57 | 13 25 | |
| 06 | 270 | 32.9 | N13 | 31.7 | 219 | 22.7 | 8.4 | N22 | 12.6 | 1.8 | 56.7 | S 60 | 05 55 | 06 44 | 07 29 | 11 47 | 12 36 | 13 11 | 13 36 | |
| 07 | 285 | 33.0 | | 32.5 | 233 | 50.1 | 8.4 | 22 | 10.8 | 1.9 | 56.7 | | | | | | | | | |
| 08 | 300 | 33.1 | | 33.3 | 248 | 17.5 | 8.3 | 22 | 08.9 | 2.0 | 56.8 | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | | | | | |
| 09 | 315 | 33.2 | | 34.1 | 262 | 44.8 | 8.4 | 22 | 06.9 | 2.2 | 56.8 | | | | 25 | 26 | 27 | 28 | | |
| 10 | 330 | 33.3 | | 34.9 | 277 | 12.2 | 8.3 | 22 | 04.7 | 2.3 | 56.8 | | | | | | | | | |
| 11 | 345 | 33.4 | | 35.7 | 291 | 39.5 | 8.3 | 22 | 02.4 | 2.4 | 56.8 | | | | | | | | | |
| 12 | 0 | 33.5 | N13 | 36.5 | 306 | 06.8 | 8.4 | N22 | 00.0 | 2.5 | 56.9 | N 72 | 21 30 | /// | /// | □ | □ | □ | □ | |
| 13 | 15 | 33.6 | | 37.3 | 320 | 34.2 | 8.3 | 21 | 57.5 | 2.7 | 56.9 | N 70 | 21 00 | 23 21 | /// | □ | □ | □ | 03 32 | |
| 14 | 30 | 33.7 | | 38.1 | 335 | 01.5 | 8.3 | 21 | 54.8 | 2.8 | 56.9 | 68 | 20 38 | 22 11 | /// | □ | □ | 02 56 | 02 47 | |
| 15 | 45 | 33.8 | | 38.9 | 349 | 28.8 | 8.3 | 21 | 52.0 | 2.9 | 56.9 | 66 | 20 21 | 21 35 | /// | 00 41 | 01 39 | 02 06 | 02 18 | |
| 16 | 60 | 33.9 | | 39.7 | 3 | 56.1 | 8.3 | 21 | 49.1 | 3.1 | 57.0 | 64 | 20 07 | 21 11 | 23 26 | 00 02 | 00 59 | 01 34 | 01 55 | |
| 17 | 75 | 34.0 | | 40.5 | 18 | 23.4 | 8.4 | 21 | 46.0 | 3.1 | 57.0 | 62 | 19 55 | 20 52 | 22 23 | 24 31 | 00 31 | 01 11 | 01 37 | |
| 18 | 90 | 34.1 | N13 | 41.3 | 32 | 50.8 | 8.3 | N21 | 42.9 | 3.3 | 57.0 | 60 | 19 45 | 20 36 | 21 51 | 24 10 | 00 10 | 00 52 | 01 22 | |
| 19 | 105 | 34.2 | | 42.1 | 47 | 18.1 | 8.3 | 21 | 39.6 | 3.5 | 57.0 | N 58 | 19 37 | 20 23 | 21 28 | 23 52 | 24 36 | 00 36 | 01 09 | |
| 20 | 120 | 34.3 | | 42.9 | 61 | 45.4 | 8.3 | 21 | 36.1 | 3.5 | 57.1 | 56 | 19 29 | 20 12 | 21 10 | 23 38 | 24 23 | 00 23 | 00 58 | |
| 21 | 135 | 34.4 | | 43.7 | 76 | 12.7 | 8.3 | 21 | 32.6 | 3.7 | 57.1 | 54 | 19 22 | 20 03 | 20 56 | 23 25 | 24 11 | 00 11 | 00 48 | |
| 22 | 150 | 34.5 | | 44.5 | 90 | 40.0 | 8.3 | 21 | 28.9 | 3.8 | 57.1 | 52 | 19 16 | 19 54 | 20 43 | 23 14 | 24 01 | 00 01 | 00 39 | |
| 23 | 165 | 34.6 | | 45.3 | 105 | 07.3 | 8.3 | 21 | 25.1 | 3.9 | 57.1 | 50 | 19 11 | 19 47 | 20 32 | 23 04 | 23 52 | 24 31 | 00 31 | |
| 27 00 | 180 | 34.7 | N13 | 46.1 | 119 | 34.6 | 8.4 | N21 | 21.2 | 4.1 | 57.1 | 45 | 18 59 | 19 31 | 20 10 | 22 43 | 23 32 | 24 15 | 00 15 | |
| 01 | 195 | 34.8 | | 46.9 | 134 | 02.0 | 8.3 | 21 | 17.1 | 4.2 | 57.2 | N 40 | 18 50 | 19 18 | 19 54 | 22 26 | 23 16 | 24 01 | 00 01 | |
| 02 | 210 | 34.9 | | 47.7 | 148 | 29.3 | 8.3 | 21 | 12.9 | 4.3 | 57.2 | 35 | 18 41 | 19 08 | 19 40 | 22 12 | 23 03 | 23 49 | 24 31 | |
| 03 | 225 | 35.0 | | 48.5 | 162 | 56.6 | 8.4 | 21 | 08.6 | 4.4 | 57.2 | 30 | 18 34 | 18 59 | 19 29 | 21 59 | 22 51 | 23 39 | 24 23 | |
| 04 | 240 | 35.1 | | 49.3 | 177 | 24.0 | 8.3 | 21 | 04.2 | 4.6 | 57.2 | 20 | 18 22 | 18 45 | 19 12 | 21 38 | 22 31 | 23 21 | 24 09 | |
| 05 | 255 | 35.2 | | 50.1 | 191 | 51.3 | 8.4 | 20 | 59.6 | 4.6 | 57.3 | N 10 | 18 11 | 18 33 | 18 58 | 21 20 | 22 13 | 23 05 | 23 56 | |
| 06 | 270 | 35.3 | N13 | 50.9 | 206 | 18.7 | 8.4 | N20 | 55.0 | 4.8 | 57.3 | 0 | 18 01 | 18 22 | 18 47 | 21 03 | 21 57 | 22 51 | 23 44 | |
| 07 | 285 | 35.3 | | 51.7 | 220 | 46.1 | 8.3 | 20 | 50.2 | 5.0 | 57.3 | S 10 | 17 51 | 18 13 | 18 38 | 20 45 | 21 40 | 22 36 | 23 32 | |
| 08 | 300 | 35.4 | | 52.5 | 235 | 13.4 | 8.4 | 20 | 45.2 | 5.0 | 57.3 | 20 | 17 41 | 18 04 | 18 30 | 20 27 | 21 22 | 22 20 | 23 19 | |
| 09 | 315 | 35.5 | | 53.2 | 249 | 40.8 | 8.4 | 20 | 40.2 | 5.2 | 57.4 | 30 | 17 29 | 17 54 | 18 22 | 20 05 | 21 02 | 22 02 | 23 04 | |
| 10 | 330 | 35.6 | | 54.0 | 264 | 08.2 | 8.4 | 20 | 35.0 | 5.3 | 57.4 | 35 | 17 23 | 17 49 | 18 19 | 19 53 | 20 50 | 21 51 | 22 56 | |
| 11 | 345 | 35.7 | | 54.8 | 278 | 35.6 | 8.5 | 20 | 29.7 | 5.4 | 57.4 | 40 | 17 15 | 17 43 | 18 15 | 19 38 | 20 36 | 21 39 | 22 46 | |
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| 13 | 15 | 35.9 | | 56.4 | 307 | 30.5 | 8.5 | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.5 | | MARTE +1.0 | | JUPITER -2.4 | | SATURNO +0.9 | | ESTRELLAS | | |
|--|----------|----------|------------|----------|------------|----------|--------------|----------|--------------|-------------|-----------|----------|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | |
| 28 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 215 58.7 | 213 01.5 | N 3 59.9 | 93 19.9 | N22 06.3 | 29 26.3 | S 1 07.9 | 244 34.4 | S13 00.0 | Acamar | 315 30.1 | S40 19.9 | |
| | 231 01.2 | 228 03.3 | 59.6 | 108 21.2 | 06.1 | 44 29.0 | 07.8 | 259 36.7 | 12 59.9 | Achernar | 335 38.4 | S57 16.1 | |
| | 246 03.6 | 243 05.1 | 59.3 | 123 22.4 | 05.8 | 59 31.7 | 07.7 | 274 39.0 | 59.9 | Acrux | 173 25.6 | S63 04.0 | |
| | 261 06.1 | 258 06.8 | 59.0 | 138 23.6 | 05.5 | 74 34.4 | 07.6 | 289 41.3 | 59.8 | Adhara | 255 24.5 | S28 58.1 | |
| | 276 08.5 | 273 08.6 | 58.8 | 153 24.8 | 05.2 | 89 37.0 | 07.6 | 304 43.6 | 59.7 | Aldebaran | 291 07.0 | N16 29.7 | |
| | 291 11.0 | 288 10.4 | 58.5 | 168 26.0 | 04.9 | 104 39.7 | 07.5 | 319 45.9 | 59.7 | | | | |
| | 306 13.5 | 303 12.2 | N 3 58.2 | 183 27.3 | N22 04.6 | 119 42.4 | S 1 07.4 | 334 48.2 | S12 59.6 | Alioth | 166 33.3 | N55 59.7 | |
| | 321 15.9 | 318 14.0 | 57.9 | 198 28.5 | 04.3 | 134 45.1 | 07.3 | 349 50.5 | 59.6 | Alkaid | 153 10.2 | N49 20.7 | |
| | 336 18.4 | 333 15.7 | 57.7 | 213 29.7 | 04.0 | 149 47.8 | 07.2 | 4 52.8 | 59.5 | Al Na'ir | 28 02.7 | S46 59.4 | |
| | 351 20.9 | 348 17.5 | 57.4 | 228 30.9 | 03.7 | 164 50.5 | 07.1 | 19 55.1 | 59.5 | Alnilam | 276 01.9 | S 1 12.5 | |
| | 6 23.3 | 3 19.3 | 57.2 | 243 32.1 | 03.4 | 179 53.1 | 07.0 | 34 57.4 | 59.4 | Alphard | 218 10.8 | S 8 38.0 | |
| | 21 25.8 | 18 21.0 | 56.9 | 258 33.4 | 03.1 | 194 55.8 | 06.9 | 49 59.7 | 59.4 | | | | |
| | 36 28.3 | 33 22.8 | N 3 56.6 | 273 34.6 | N22 02.8 | 209 58.5 | S 1 06.9 | 65 02.0 | S12 59.3 | Alphecca | 126 23.4 | N26 44.1 | |
| | 51 30.7 | 48 24.5 | 56.4 | 288 35.8 | 02.5 | 225 01.2 | 06.8 | 80 04.3 | 59.3 | Alpheratz | 357 59.4 | N29 03.1 | |
| | 66 33.2 | 63 26.3 | 56.1 | 303 37.0 | 02.2 | 240 03.9 | 06.7 | 95 06.6 | 59.2 | Altair | 62 22.8 | N 8 51.0 | |
| | 81 35.7 | 78 28.0 | 55.9 | 318 38.2 | 01.9 | 255 06.6 | 06.6 | 110 08.9 | 59.2 | Ankaa | 353 30.8 | S42 20.4 | |
| | 96 38.1 | 93 29.8 | 55.6 | 333 39.4 | 01.6 | 270 09.2 | 06.5 | 125 11.2 | 59.1 | Antares | 112 44.4 | S26 25.1 | |
| | 111 40.6 | 108 31.5 | 55.4 | 348 40.7 | 01.3 | 285 11.9 | 06.4 | 140 13.5 | 59.1 | | | | |
| | 126 43.0 | 123 33.3 | N 3 55.1 | 3 41.9 | N22 01.0 | 300 14.6 | S 1 06.3 | 155 15.8 | S12 59.0 | Arcturus | 146 09.1 | N19 12.9 | |
| | 141 45.5 | 138 35.0 | 54.9 | 18 43.1 | 00.7 | 315 17.3 | 06.3 | 170 18.1 | 59.0 | Atria | 107 59.4 | S69 00.8 | |
| | 156 48.0 | 153 36.7 | 54.6 | 33 44.3 | 00.4 | 330 20.0 | 06.2 | 185 20.4 | 58.9 | Avior | 234 24.3 | S59 29.7 | |
| | 171 50.4 | 168 38.5 | 54.4 | 48 45.5 | 22 00.1 | 345 22.6 | 06.1 | 200 22.8 | 58.9 | Bellatrix | 278 48.4 | N 6 20.5 | |
| | 186 52.9 | 183 40.2 | 54.1 | 63 46.8 | 21 59.8 | 0 25.3 | 06.0 | 215 25.1 | 58.8 | Betelgeuse | 271 17.8 | N 7 24.3 | |
| 201 55.4 | 198 41.9 | 53.9 | 78 48.0 | 59.4 | 15 28.0 | 05.9 | 230 27.4 | 58.8 | | | | | |
| 29 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 216 57.8 | 213 43.7 | N 3 53.7 | 93 49.2 | N21 59.1 | 30 30.7 | S 1 05.8 | 245 29.7 | S12 58.7 | Canopus | 264 03.1 | S52 41.8 | |
| | 232 00.3 | 228 45.4 | 53.4 | 108 50.4 | 58.8 | 45 33.4 | 05.7 | 260 32.0 | 58.7 | Capella | 280 57.1 | N45 59.6 | |
| | 247 02.8 | 243 47.1 | 53.2 | 123 51.6 | 58.5 | 60 36.0 | 05.7 | 275 34.3 | 58.6 | Deneb | 49 41.7 | N45 15.2 | |
| | 262 05.2 | 258 48.8 | 52.9 | 138 52.8 | 58.2 | 75 38.7 | 05.6 | 290 36.6 | 58.6 | Denebola | 182 48.7 | N14 36.4 | |
| | 277 07.7 | 273 50.5 | 52.7 | 153 54.0 | 57.9 | 90 41.4 | 05.5 | 305 38.9 | 58.5 | Diphda | 349 11.2 | S18 01.3 | |
| | 292 10.2 | 288 52.2 | 52.5 | 168 55.3 | 57.6 | 105 44.1 | 05.4 | 320 41.2 | 58.5 | | | | |
| | 307 12.6 | 303 53.9 | N 3 52.3 | 183 56.5 | N21 57.3 | 120 46.8 | S 1 05.3 | 335 43.5 | S12 58.4 | Dubhe | 194 09.6 | N61 47.3 | |
| | 322 15.1 | 318 55.6 | 52.0 | 198 57.7 | 57.0 | 135 49.4 | 05.2 | 350 45.8 | 58.4 | Elnath | 278 31.9 | N28 36.1 | |
| | 337 17.5 | 333 57.3 | 51.8 | 213 58.9 | 56.7 | 150 52.1 | 05.2 | 5 48.1 | 58.3 | Eltanin | 90 52.8 | N51 29.2 | |
| | 352 20.0 | 348 59.0 | 51.6 | 229 00.1 | 56.4 | 165 54.8 | 05.1 | 20 50.4 | 58.3 | Enif | 34 02.0 | N 9 50.6 | |
| | 7 22.5 | 4 00.7 | 51.4 | 244 01.3 | 56.1 | 180 57.5 | 05.0 | 35 52.7 | 58.2 | Fomalhaut | 15 40.7 | S29 39.3 | |
| | 22 24.9 | 19 02.4 | 51.2 | 259 02.5 | 55.8 | 196 00.1 | 04.9 | 50 55.0 | 58.2 | | | | |
| | 37 27.4 | 34 04.1 | N 3 50.9 | 274 03.8 | N21 55.5 | 211 02.8 | S 1 04.8 | 65 57.3 | S12 58.1 | Gacrux | 172 17.3 | S57 04.9 | |
| | 52 29.9 | 49 05.8 | 50.7 | 289 05.0 | 55.2 | 226 05.5 | 04.7 | 80 59.6 | 58.1 | Gienah | 176 07.5 | S17 30.6 | |
| | 67 32.3 | 64 07.4 | 50.5 | 304 06.2 | 54.9 | 241 08.2 | 04.7 | 96 01.9 | 58.0 | Hadar | 149 08.7 | S60 20.6 | |
| | 82 34.8 | 79 09.1 | 50.3 | 319 07.4 | 54.6 | 256 10.9 | 04.6 | 111 04.2 | 58.0 | Hamal | 328 18.1 | N23 25.8 | |
| | 97 37.3 | 94 10.8 | 50.1 | 334 08.6 | 54.3 | 271 13.5 | 04.5 | 126 06.6 | 57.9 | Kaus Aust. | 84 03.5 | S34 23.2 | |
| | 112 39.7 | 109 12.5 | 49.9 | 349 09.8 | 54.0 | 286 16.2 | 04.4 | 141 08.9 | 57.9 | | | | |
| | 127 42.2 | 124 14.1 | N 3 49.7 | 4 11.0 | N21 53.7 | 301 18.9 | S 1 04.3 | 156 11.2 | S12 57.8 | Kochab | 137 18.1 | N74 10.9 | |
| | 142 44.7 | 139 15.8 | 49.5 | 19 12.3 | 53.4 | 316 21.6 | 04.2 | 171 13.5 | 57.8 | Markab | 13 53.5 | N15 10.1 | |
| | 157 47.1 | 154 17.5 | 49.3 | 34 13.5 | 53.1 | 331 24.2 | 04.1 | 186 15.8 | 57.7 | Menkar | 314 31.1 | N 4 03.8 | |
| | 172 49.6 | 169 19.1 | 49.1 | 49 14.7 | 52.8 | 346 26.9 | 04.1 | 201 18.1 | 57.7 | Menkent | 148 25.0 | S36 20.4 | |
| | 187 52.0 | 184 20.8 | 48.9 | 64 15.9 | 52.4 | 1 29.6 | 04.0 | 216 20.4 | 57.6 | Miaplacidus | 221 42.8 | S69 41.8 | |
| 202 54.5 | 199 22.4 | 48.7 | 79 17.1 | 52.1 | 16 32.3 | 03.9 | 231 22.7 | 57.6 | | | | | |
| 30 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 217 57.0 | 214 24.1 | N 3 48.5 | 94 18.3 | N21 51.8 | 31 34.9 | S 1 03.8 | 246 25.0 | S12 57.6 | Mirfak | 309 02.5 | N49 50.3 | |
| | 232 59.4 | 229 25.7 | 48.3 | 109 19.5 | 51.5 | 46 37.6 | 03.7 | 261 27.3 | 57.5 | Nunki | 76 16.8 | S26 18.2 | |
| | 248 01.9 | 244 27.4 | 48.1 | 124 20.7 | 51.2 | 61 40.3 | 03.7 | 276 29.6 | 57.5 | Peacock | 53 42.8 | S56 45.1 | |
| | 263 04.4 | 259 29.0 | 47.9 | 139 21.9 | 50.9 | 76 43.0 | 03.6 | 291 31.9 | 57.4 | Pollux | 243 46.2 | N28 02.5 | |
| | 278 06.8 | 274 30.7 | 47.7 | 154 23.2 | 50.6 | 91 45.6 | 03.5 | 306 34.2 | 57.4 | Procyon | 245 15.6 | N 5 14.4 | |
| | 293 09.3 | 289 32.3 | 47.5 | 169 24.4 | 50.3 | 106 48.3 | 03.4 | 321 36.6 | 57.3 | | | | |
| | 308 11.8 | 304 33.9 | N 3 47.3 | 184 25.6 | N21 50.0 | 121 51.0 | S 1 03.3 | 336 38.9 | S12 57.3 | Rasalhague | 96 20.2 | N12 33.7 | |
| | 323 14.2 | 319 35.6 | 47.1 | 199 26.3 | 49.7 | 136 53.7 | 03.2 | 351 41.2 | 57.2 | Regulus | 207 59.4 | N11 59.9 | |
| | 338 16.7 | 334 37.2 | 47.0 | 214 28.0 | 49.4 | 151 56.3 | 03.2 | 6 43.5 | 57.2 | Rigel | 281 26.8 | S 8 12.7 | |
| | 353 19.1 | 349 38.8 | 46.8 | 229 29.2 | 49.1 | 166 59.0 | 03.1 | 21 45.8 | 57.1 | Rigil Kent. | 140 11.7 | S60 48.6 | |
| | 8 21.6 | 4 40.4 | 46.6 | 244 30.4 | 48.8 | 182 01.7 | 03.0 | 36 48.1 | 57.1 | Sabik | 102 29.5 | S15 43.1 | |
| | 23 24.1 | 19 42.0 | 46.4 | 259 31.6 | 48.4 | 197 04.3 | 02.9 | 51 50.4 | 57.0 | | | | |
| | 38 26.5 | 34 43.7 | N 3 46.3 | 274 32.8 | N21 48.1 | 212 07.0 | S 1 02.8 | 66 52.7 | S12 57.0 | Schedar | 349 58.3 | N56 29.9 | |
| | 53 29.0 | 49 45.3 | 46.1 | 289 34.0 | 47.8 | 227 09.7 | 02.8 | 81 55.0 | 56.9 | Shaula | 96 42.1 | S37 05.9 | |
| | 68 31.5 | 64 46.9 | 45.9 | 304 35.3 | 47.5 | 242 12.4 | 02.7 | 96 57.3 | 56.9 | Sirius | 258 47.1 | S16 42.6 | |
| | 83 33.9 | 79 48.5 | 45.7 | 319 36.5 | 47.2 | 257 15.0 | 02.6 | 111 59.6 | 56.8 | Spica | 158 46.8 | S11 07.8 | |
| | 98 36.4 | 94 50.1 | 45.6 | 334 37.7 | 46.9 | 272 17.7 | 02.5 | 127 02.0 | 56.8 | Suhail | 223 03.5 | S43 24.7 | |
| | 113 38.9 | 109 51.7 | 45.4 | 349 38.9 | 46.6 | 287 20.4 | 02.4 | 142 04.3 | 56.7 | | | | |
| | 128 41.3 | 124 53.3 | N 3 45.2 | 4 40.1 | N21 46.3 | 302 23.1 | S 1 02.3 | 157 06.6 | S12 56.7 | Vega | 80 48.9 | N38 46.4 | |
| | 143 43.8 | 139 54.9 | 45.1 | 19 41.3 | 46.0 | 317 25.7 | 02.3 | 172 08.9 | 56.6 | Zuben'ubi | 137 21.8 | S16 01.0 | |
| | 158 46.3 | 154 56.5 | 44.9 | 34 42.5 | 45.7 | 332 28.4 | 02.2 | 187 11.2 | 56.6 | | | | |
| | 173 48.7 | 169 58.1 | 44.8 | 49 43.7 | 45.3 | 347 31.1 | 02.1 | 202 13.5 | 56.5 | | | | |
| | 188 51.2 | 184 59.7 | 44.6 | 64 44.9 | 45.0 | 2 33.7 | 02.0 | 217 15.8 | 56.5 | Venus | 356 45.8 | h 9 44 | |
| 203 53.6 | 200 01.2 | 44.5 | 79 46.1 | 44.7 | 17 36.4 | 01.9 | 232 18.1 | 56.4 | Marte | 236 51.4 | 17 43 | | |
| | | | | | | | | | Júpiter | 173 32.8 | 21 54 | | |
| | | | | | | | | | Saturno | 28 31.8 | 7 37 | | |

Pas. Mer. 9 30.6

v 1.7 d 0.2

v 12 d 0.3

v 2.7 d 0.1

v 2.3 d 0.0

A. H. S. Pas. Mer.
h m
Venus 356 45.8 9 44
Marte 236 51.4 17 43
Júpiter 173 32.8 21 54
Saturno 28 31.8 7 37

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|---|----------|----------|----------|----------|----------|----------|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 28 | 29 | 30 | 1 | |
| | | | | | | | | | | | | h m | h m | h m | h m | h m |
| M I E R C O L E S | 28 00 | 180 37.0 | N14 05.1 | 106 33.4 | 8.6 | N19 10.0 | 6.9 | 57.7 | N 72 | /// | /// | 02 09 | ☐ | 08 36 | 10 57 | 13 08 |
| | 01 | 195 37.1 | 05.9 | 121 01.0 | 8.7 | 19 03.1 | 7.1 | 57.8 | N 70 | /// | /// | 02 43 | 06 50 | 09 08 | 11 12 | 13 13 |
| | 02 | 210 37.2 | 06.7 | 135 28.7 | 8.7 | 18 56.0 | 7.2 | 57.8 | 68 | /// | 01 27 | 03 07 | 07 34 | 09 31 | 11 25 | 13 17 |
| | 03 | 225 37.2 | 07.5 | 149 56.4 | 8.7 | 18 48.8 | 7.2 | 57.8 | 66 | /// | 02 07 | 03 25 | 08 03 | 09 48 | 11 35 | 13 21 |
| | 04 | 240 37.3 | 08.3 | 164 24.1 | 8.7 | 18 41.6 | 7.5 | 57.8 | 64 | /// | 02 35 | 03 40 | 08 25 | 10 03 | 11 43 | 13 24 |
| | 05 | 255 37.4 | 09.1 | 178 51.8 | 8.7 | 18 34.1 | 7.5 | 57.9 | 62 | 01 17 | 02 55 | 03 53 | 08 42 | 10 15 | 11 50 | 13 27 |
| | 06 | 270 37.5 | N14 09.8 | 193 19.5 | 8.8 | N18 26.6 | 7.6 | 57.9 | 60 | 01 53 | 03 12 | 04 04 | 08 57 | 10 25 | 11 56 | 13 29 |
| | 07 | 285 37.6 | 10.6 | 207 47.3 | 8.8 | 18 19.0 | 7.7 | 57.9 | N 58 | 02 18 | 03 25 | 04 13 | 09 09 | 10 34 | 12 01 | 13 31 |
| | 08 | 300 37.7 | 11.4 | 222 15.1 | 8.8 | 18 11.3 | 7.9 | 58.0 | 56 | 02 38 | 03 37 | 04 21 | 09 20 | 10 41 | 12 06 | 13 33 |
| | 09 | 315 37.8 | 12.2 | 236 42.9 | 8.9 | 18 03.4 | 8.0 | 58.0 | 54 | 02 53 | 03 47 | 04 28 | 09 29 | 10 48 | 12 10 | 13 34 |
| | 10 | 330 37.9 | 13.0 | 251 10.8 | 8.8 | 17 55.4 | 8.0 | 58.0 | 52 | 03 07 | 03 56 | 04 34 | 09 37 | 10 54 | 12 14 | 13 36 |
| | 11 | 345 38.0 | 13.8 | 265 38.6 | 8.9 | 17 47.4 | 8.2 | 58.0 | 50 | 03 18 | 04 04 | 04 40 | 09 45 | 11 00 | 12 18 | 13 37 |
| | 12 | 0 38.1 | N14 14.6 | 280 06.5 | 8.9 | N17 39.2 | 8.3 | 58.1 | 45 | 03 41 | 04 20 | 04 53 | 10 01 | 11 12 | 12 25 | 13 40 |
| | 13 | 15 38.2 | 15.3 | 294 34.4 | 8.9 | 17 30.9 | 8.4 | 58.1 | N 40 | 03 58 | 04 34 | 05 03 | 10 14 | 11 22 | 12 31 | 13 42 |
| | 14 | 30 38.3 | 16.1 | 309 02.3 | 9.0 | 17 22.5 | 8.5 | 58.1 | 35 | 04 12 | 04 45 | 05 11 | 10 25 | 11 30 | 12 37 | 13 44 |
| | 15 | 45 38.3 | 16.9 | 323 30.3 | 8.9 | 17 14.0 | 8.6 | 58.1 | 30 | 04 24 | 04 54 | 05 19 | 10 34 | 11 37 | 12 41 | 13 46 |
| | 16 | 60 38.4 | 17.7 | 337 58.2 | 9.0 | 17 05.4 | 8.7 | 58.2 | 20 | 04 42 | 05 09 | 05 32 | 10 51 | 11 50 | 12 50 | 13 49 |
| | 17 | 75 38.5 | 18.5 | 352 26.2 | 9.1 | 16 56.7 | 8.8 | 58.2 | N 10 | 04 56 | 05 22 | 05 43 | 11 05 | 12 01 | 12 57 | 13 52 |
| | 18 | 90 38.6 | N14 19.2 | 6 54.3 | 9.0 | N16 47.9 | 8.9 | 58.2 | 0 | 05 08 | 05 33 | 05 54 | 11 19 | 12 11 | 13 03 | 13 55 |
| | 19 | 105 38.7 | 20.0 | 21 22.3 | 9.1 | 16 39.0 | 9.0 | 58.2 | S 10 | 05 18 | 05 43 | 06 04 | 11 32 | 12 22 | 13 10 | 13 58 |
| | 20 | 120 38.8 | 20.8 | 35 50.4 | 9.1 | 16 30.0 | 9.2 | 58.3 | 20 | 05 26 | 05 53 | 06 15 | 11 46 | 12 33 | 13 17 | 14 00 |
| | 21 | 135 38.9 | 21.6 | 50 18.5 | 9.1 | 16 20.8 | 9.2 | 58.3 | 30 | 05 35 | 06 03 | 06 28 | 12 03 | 12 45 | 13 25 | 14 04 |
| | 22 | 150 39.0 | 22.4 | 64 46.6 | 9.1 | 16 11.6 | 9.3 | 58.3 | 35 | 05 39 | 06 09 | 06 35 | 12 12 | 12 52 | 13 30 | 14 05 |
| 23 | 165 39.1 | 23.1 | 79 14.7 | 9.2 | 16 02.3 | 9.4 | 58.3 | 40 | 05 43 | 06 15 | 06 43 | 12 23 | 13 01 | 13 35 | 14 07 | |
| 29 00 | 180 39.2 | N14 23.9 | 93 42.9 | 9.2 | N15 52.9 | 9.5 | 58.4 | 45 | 05 47 | 06 22 | 06 52 | 12 36 | 13 10 | 13 41 | 14 10 | |
| 01 | 195 39.2 | 24.7 | 108 11.1 | 9.2 | 15 43.4 | 9.7 | 58.4 | S 50 | 05 51 | 06 30 | 07 03 | 12 51 | 13 22 | 13 48 | 14 13 | |
| 02 | 210 39.3 | 25.5 | 122 39.3 | 9.2 | 15 33.7 | 9.7 | 58.4 | 52 | 05 53 | 06 33 | 07 09 | 12 58 | 13 27 | 13 52 | 14 14 | |
| 03 | 225 39.4 | 26.3 | 137 07.5 | 9.3 | 15 24.0 | 9.8 | 58.4 | 54 | 05 55 | 06 37 | 07 14 | 13 06 | 13 33 | 13 55 | 14 16 | |
| 04 | 240 39.5 | 27.0 | 151 35.8 | 9.3 | 15 14.2 | 9.9 | 58.5 | 56 | 05 57 | 06 41 | 07 21 | 13 15 | 13 39 | 13 59 | 14 17 | |
| 05 | 255 39.6 | 27.8 | 166 04.1 | 9.3 | 15 04.3 | 10.0 | 58.5 | 58 | 05 59 | 06 46 | 07 28 | 13 25 | 13 46 | 14 04 | 14 19 | |
| 06 | 270 39.7 | N14 28.6 | 180 32.4 | 9.3 | N14 54.3 | 10.1 | 58.5 | S 60 | 06 01 | 06 51 | 07 36 | 13 36 | 13 54 | 14 09 | 14 21 | |
| 07 | 285 39.8 | 29.4 | 195 00.7 | 9.4 | 14 44.2 | 10.1 | 58.5 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | |
| 08 | 300 39.9 | 30.1 | 209 29.1 | 9.4 | 14 34.1 | 10.3 | 58.6 | 28 | 29 | 30 | 1 | h m | h m | h m | h m | |
| 09 | 315 39.9 | 30.9 | 223 57.5 | 9.4 | 14 23.8 | 10.4 | 58.6 | N 72 | 21 52 | /// | /// | ☐ | 03 39 | 03 07 | 02 46 | |
| 10 | 330 40.0 | 31.7 | 238 25.9 | 9.4 | 14 13.4 | 10.4 | 58.6 | N 70 | 21 16 | /// | /// | 03 32 | 03 06 | 02 50 | 02 38 | |
| 11 | 345 40.1 | 32.5 | 252 54.3 | 9.4 | 14 03.0 | 10.6 | 58.6 | 68 | 20 51 | 22 36 | /// | 02 47 | 02 41 | 02 36 | 02 31 | |
| 12 | 0 40.2 | N14 33.2 | 267 22.7 | 9.5 | N13 52.4 | 10.6 | 58.7 | 66 | 20 32 | 21 52 | /// | 02 18 | 02 22 | 02 24 | 02 25 | |
| 13 | 15 40.3 | 34.0 | 281 51.2 | 9.5 | 13 41.8 | 10.7 | 58.7 | 64 | 20 16 | 21 24 | /// | 01 55 | 02 07 | 02 15 | 02 20 | |
| 14 | 30 40.4 | 34.8 | 296 19.7 | 9.5 | 13 31.1 | 10.8 | 58.7 | 62 | 20 04 | 21 02 | /// | 01 37 | 01 54 | 02 06 | 02 16 | |
| 15 | 45 40.5 | 35.6 | 310 48.2 | 9.5 | 13 20.3 | 10.9 | 58.7 | 60 | 19 53 | 20 45 | 22 06 | 01 22 | 01 43 | 01 59 | 02 12 | |
| 16 | 60 40.5 | 36.3 | 325 16.7 | 9.6 | 13 09.4 | 11.0 | 58.8 | N 58 | 19 43 | 20 31 | 21 40 | 01 09 | 01 34 | 01 53 | 02 09 | |
| 17 | 75 40.6 | 37.1 | 339 45.3 | 9.6 | 12 58.4 | 11.0 | 58.8 | 56 | 19 35 | 20 19 | 21 20 | 00 58 | 01 25 | 01 47 | 02 06 | |
| 18 | 90 40.7 | N14 37.9 | 354 13.9 | 9.6 | N12 47.4 | 11.2 | 58.8 | 54 | 19 28 | 20 09 | 21 03 | 00 48 | 01 18 | 01 42 | 02 03 | |
| 19 | 105 40.8 | 38.6 | 8 42.5 | 9.6 | 12 36.2 | 11.2 | 58.9 | 52 | 19 21 | 20 00 | 20 50 | 00 39 | 01 11 | 01 37 | 02 01 | |
| 20 | 120 40.9 | 39.4 | 23 11.1 | 9.6 | 12 25.0 | 11.3 | 58.9 | 50 | 19 16 | 19 52 | 20 38 | 00 31 | 01 05 | 01 33 | 01 59 | |
| 21 | 135 41.0 | 40.2 | 37 39.7 | 9.7 | 12 13.7 | 11.3 | 58.9 | 45 | 19 03 | 19 35 | 20 15 | 00 15 | 00 52 | 01 24 | 01 54 | |
| 22 | 150 41.0 | 41.0 | 52 08.4 | 9.6 | 12 02.4 | 11.5 | 58.9 | N 40 | 18 53 | 19 22 | 19 57 | 00 01 | 00 41 | 01 16 | 01 50 | |
| 23 | 165 41.1 | 41.7 | 66 37.0 | 9.7 | 11 50.9 | 11.5 | 59.0 | 35 | 18 44 | 19 11 | 19 43 | 24 31 | 00 31 | 01 10 | 01 46 | |
| 30 00 | 180 41.2 | N14 42.5 | 81 05.7 | 9.7 | N11 39.4 | 11.6 | 59.0 | 30 | 18 36 | 19 01 | 19 31 | 24 23 | 00 23 | 01 04 | 01 43 | |
| 01 | 195 41.3 | 43.3 | 95 34.4 | 9.7 | 11 27.8 | 11.7 | 59.0 | 20 | 18 23 | 18 46 | 19 13 | 24 09 | 00 09 | 00 54 | 01 37 | |
| 02 | 210 41.4 | 44.0 | 110 03.1 | 9.8 | 11 16.1 | 11.7 | 59.0 | N 10 | 18 11 | 18 33 | 18 59 | 23 56 | 24 45 | 00 45 | 01 33 | |
| 03 | 225 41.5 | 44.8 | 124 31.9 | 9.7 | 11 04.4 | 11.9 | 59.1 | 0 | 18 01 | 18 22 | 18 47 | 23 44 | 24 36 | 00 36 | 01 28 | |
| 04 | 240 41.5 | 45.6 | 139 00.6 | 9.8 | 10 52.5 | 11.9 | 59.1 | S 10 | 17 50 | 18 12 | 18 37 | 23 32 | 24 28 | 00 28 | 01 23 | |
| 05 | 255 41.6 | 46.3 | 153 29.4 | 9.8 | 10 40.6 | 11.9 | 59.1 | 20 | 17 39 | 18 02 | 18 28 | 23 19 | 24 18 | 00 18 | 01 18 | |
| 06 | 270 41.7 | N14 47.1 | 167 58.2 | 9.8 | N10 28.7 | 12.1 | 59.1 | 30 | 17 27 | 17 51 | 18 20 | 23 04 | 24 08 | 00 08 | 01 12 | |
| 07 | 285 41.8 | 47.9 | 182 27.0 | 9.8 | 10 16.6 | 12.1 | 59.1 | 35 | 17 19 | 17 46 | 18 16 | 22 56 | 24 02 | 00 02 | 01 09 | |
| 08 | 300 41.9 | 48.6 | 196 55.8 | 9.9 | 10 04.5 | 12.1 | 59.2 | 40 | 17 11 | 17 39 | 18 11 | 22 46 | 23 55 | 25 05 | 01 05 | |
| 09 | 315 41.9 | 49.4 | 211 24.7 | 9.8 | 9 52.4 | 12.3 | 59.2 | 45 | 17 02 | 17 32 | 18 07 | 22 34 | 23 46 | 25 01 | 01 01 | |
| 10 | 330 42.0 | 50.2 | 225 53.5 | 9.9 | 9 40.1 | 12.3 | 59.2 | S 50 | 16 50 | 17 24 | 18 03 | 22 20 | 23 37 | 24 55 | 00 55 | |
| 11 | 345 42.1 | 50.9 | 240 22.4 | 9.8 | 9 27.8 | 12.3 | 59.2 | 52 | 16 45 | 17 21 | 18 01 | 22 13 | 23 32 | 24 53 | 00 53 | |
| 12 | 0 42.2 | N14 51.7 | 254 51.2 | 9.9 | N 9 15.5 | 12.4 | 59.3 | 54 | 16 39 | 17 17 | 17 59 | 22 06 | 23 27 | 24 50 | 00 50 | |
| 13 | 15 42.3 | 52.5 | 269 20.1 | 9.9 | 9 03.1 | 12.5 | 59.3 | 56 | 16 33 | 17 13 | 17 57 | 21 58 | 23 21 | 24 47 | 00 47 | |
| 14 | 30 42.3 | 53.2 | 283 49.0 | 9.9 | 8 50.6 | 12.6 | 59.3 | 58 | 16 26 | 17 08 | 17 54 | 21 48 | 23 15 | 24 43 | 00 43 | |
| 15 | 45 42.4 | 54.0 | 298 17.9 | 9.9 | 8 38.0 | 12.6 | 59.3 | S 60 | 16 18 | 17 03 | 17 52 | 21 37 | 23 07 | 24 40 | 00 40 | |
| 16 | 60 42.5 | 54.7 | 312 46.8 | 10.0 | 8 25.4 | 12.6 | 59.4 | Día | SOL | | LUNA | | | | | |
| 17 | 75 42.6 | 55.5 | 327 15.8 | 9.9 | 8 12.8 | 12.8 | 59.4 | E.T. (+) | Pas. Mer. | Pas. Mer. Sup. | Mer. Inf. | Edad. | Fase | | | |
| 18 | 90 42.7 | N14 56.3 | 341 44.7 | 9.9 | N 8 00.0 | 12.7 | 59.4 | 00 h | 12 h | h m | h m | h m | d | | | |
| 19 | 105 42.7 | 57.0 | 356 13.6 | 10.0 | 7 47.3 | 12.9 | 59.4 | m s | m s | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE +1.1 | | | JUPITER -2.4 | | | SATURNO +0.9 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|--------------|------|--------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| d h | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | ° / | | |
| 4 00 | 221 53.5 | 216 49.4 N 3 | 37.7 | 96 13.7 N21 | 21.5 | 35 50.7 S 0 | 56.4 | 250 07.2 S12 | 53.1 | Acamar | 315 30.1 S40 | 19.9 | | | | | | |
| 01 | 236 56.0 | 231 50.8 | 37.6 | 111 14.9 | 21.1 | 50 53.3 | 56.3 | 265 09.5 | 53.1 | Achernar | 335 38.4 S57 | 16.1 | | | | | | |
| 02 | 251 58.5 | 246 52.2 | 37.6 | 126 16.1 | 20.8 | 65 56.0 | 56.2 | 280 11.8 | 53.0 | Acrux | 173 25.7 S63 | 04.1 | | | | | | |
| 03 | 267 00.9 | 261 53.6 .. | 37.6 | 141 17.3 .. | 20.5 | 80 58.6 .. | 56.1 | 295 14.2 .. | 53.0 | Adhara | 255 24.5 S28 | 58.0 | | | | | | |
| 04 | 282 03.4 | 276 54.9 | 37.6 | 156 18.5 | 20.2 | 96 01.3 | 56.1 | 310 16.5 | 52.9 | Aldebaran | 291 07.0 N16 | 29.7 | | | | | | |
| 05 | 297 05.8 | 291 56.3 | 37.5 | 171 19.7 | 19.8 | 111 03.9 | 56.0 | 325 18.8 | 52.9 | | | | | | | | | |
| 06 | 312 08.3 | 306 57.7 N 3 | 37.5 | 186 20.9 N21 | 19.5 | 126 06.6 S 0 | 55.9 | 340 21.1 S12 | 52.8 | Alioth | 166 33.3 N55 | 59.8 | | | | | | |
| 07 | 327 10.8 | 321 59.1 | 37.5 | 201 22.1 | 19.2 | 141 09.2 | 55.8 | 355 23.5 | 52.8 | Alkaid | 153 10.2 N49 | 20.7 | | | | | | |
| 08 | 342 13.2 | 337 00.4 | 37.5 | 216 23.2 | 18.9 | 156 11.9 | 55.8 | 10 25.8 | 52.7 | Al Na'ir | 28 02.6 S46 | 59.3 | | | | | | |
| M 09 | 357 15.7 | 352 01.8 .. | 37.4 | 231 24.4 .. | 18.5 | 171 14.5 .. | 55.7 | 25 28.1 .. | 52.7 | Alnilam | 276 01.9 S 1 | 12.5 | | | | | | |
| A 10 | 12 18.2 | 7 03.2 | 37.4 | 246 25.6 | 18.2 | 186 17.2 | 55.6 | 40 30.4 | 52.7 | Alphard | 218 10.8 S 8 | 38.0 | | | | | | |
| R 11 | 27 20.6 | 22 04.5 | 37.4 | 261 26.8 | 17.9 | 201 19.8 | 55.6 | 55 32.7 | 52.6 | | | | | | | | | |
| T 12 | 42 23.1 | 37 05.9 N 3 | 37.4 | 276 28.0 N21 | 17.6 | 216 22.5 S 0 | 55.5 | 70 35.1 S12 | 52.6 | Alphecca | 126 23.4 N26 | 44.1 | | | | | | |
| E 13 | 57 25.6 | 52 07.2 | 37.4 | 291 29.2 | 17.2 | 231 25.1 | 55.4 | 85 37.4 | 52.5 | Alpheratz | 357 59.4 N29 | 03.1 | | | | | | |
| S 14 | 72 28.0 | 67 08.6 | 37.4 | 306 30.4 | 16.9 | 246 27.8 | 55.3 | 100 39.7 | 52.5 | Altair | 62 22.8 N 8 | 51.0 | | | | | | |
| 15 | 87 30.5 | 82 09.9 .. | 37.4 | 321 31.6 .. | 16.6 | 261 30.4 .. | 55.3 | 115 42.0 .. | 52.4 | Ankaa | 353 30.8 S42 | 20.4 | | | | | | |
| 16 | 102 33.0 | 97 11.3 | 37.4 | 336 32.8 | 16.2 | 276 33.1 | 55.2 | 130 44.4 | 52.4 | Antares | 112 44.4 S26 | 25.1 | | | | | | |
| 17 | 117 35.4 | 112 12.6 | 37.4 | 351 34.0 | 15.9 | 291 35.7 | 55.1 | 145 46.7 | 52.4 | | | | | | | | | |
| 18 | 132 37.9 | 127 14.0 N 3 | 37.4 | 6 35.2 N21 | 15.6 | 306 38.4 S 0 | 55.1 | 160 49.0 S12 | 52.3 | Arcturus | 146 09.1 N19 | 12.9 | | | | | | |
| 19 | 147 40.3 | 142 15.3 | 37.3 | 21 36.3 | 15.3 | 321 41.0 | 55.0 | 175 51.3 | 52.3 | Atria | 107 59.3 S69 | 00.9 | | | | | | |
| 20 | 162 42.8 | 157 16.6 | 37.3 | 36 37.5 | 14.9 | 336 43.7 | 54.9 | 190 53.7 | 52.2 | Avior | 234 24.3 S59 | 29.7 | | | | | | |
| 21 | 177 45.3 | 172 18.0 .. | 37.3 | 51 38.7 .. | 14.6 | 351 46.3 .. | 54.9 | 205 56.0 .. | 52.2 | Bellatrix | 278 48.4 N 6 | 20.5 | | | | | | |
| 22 | 192 47.7 | 187 19.3 | 37.3 | 66 39.9 | 14.3 | 6 49.0 | 54.8 | 220 58.3 | 52.1 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | | | |
| 23 | 207 50.2 | 202 20.6 | 37.4 | 81 41.1 | 13.9 | 21 51.6 | 54.7 | 236 00.6 | 52.1 | | | | | | | | | |
| 5 00 | 222 52.7 | 217 22.0 N 3 | 37.4 | 96 42.3 N21 | 13.6 | 36 54.3 S 0 | 54.6 | 251 03.0 S12 | 52.1 | Canopus | 264 03.2 S52 | 41.8 | | | | | | |
| 01 | 237 55.1 | 232 23.3 | 37.4 | 111 43.5 | 13.3 | 51 56.9 | 54.6 | 266 05.3 | 52.0 | Capella | 280 57.1 N45 | 59.5 | | | | | | |
| 02 | 252 57.6 | 247 24.6 | 37.4 | 126 44.7 | 12.9 | 66 59.6 | 54.5 | 281 07.6 | 52.0 | Deneb | 49 41.7 N45 | 15.2 | | | | | | |
| 03 | 268 00.1 | 262 25.9 .. | 37.4 | 141 45.9 .. | 12.6 | 82 02.2 .. | 54.4 | 296 09.9 .. | 51.9 | Denebola | 182 48.8 N14 | 36.4 | | | | | | |
| 04 | 283 02.5 | 277 27.2 | 37.4 | 156 47.0 | 12.3 | 97 04.9 | 54.4 | 311 12.2 | 51.9 | Diphda | 349 11.2 S18 | 01.3 | | | | | | |
| 05 | 298 05.0 | 292 28.5 | 37.4 | 171 48.2 | 12.0 | 112 07.5 | 54.3 | 326 14.6 | 51.8 | | | | | | | | | |
| 06 | 313 07.4 | 307 29.9 N 3 | 37.4 | 186 49.4 N21 | 11.6 | 127 10.2 S 0 | 54.2 | 341 16.9 S12 | 51.8 | Dubhe | 194 09.6 N61 | 47.3 | | | | | | |
| 07 | 328 09.9 | 322 31.2 | 37.4 | 201 50.6 | 11.3 | 142 12.8 | 54.2 | 356 19.2 | 51.8 | Elnath | 278 32.0 N28 | 36.1 | | | | | | |
| 08 | 343 12.4 | 337 32.5 | 37.5 | 216 51.8 | 11.0 | 157 15.4 | 54.1 | 11 21.6 | 51.7 | Eltanin | 90 52.7 N51 | 29.2 | | | | | | |
| 09 | 358 14.8 | 352 33.8 .. | 37.5 | 231 53.0 .. | 10.6 | 172 18.1 .. | 54.0 | 26 23.9 .. | 51.7 | Enif | 34 01.9 N 9 | 50.6 | | | | | | |
| 10 | 13 17.3 | 7 35.1 | 37.5 | 246 54.2 | 10.3 | 187 20.7 | 53.9 | 41 26.2 | 51.6 | Fomalhaut | 15 40.7 S29 | 39.3 | | | | | | |
| 11 | 28 19.8 | 22 36.4 | 37.5 | 261 55.4 | 10.0 | 202 23.4 | 53.9 | 56 28.5 | 51.6 | | | | | | | | | |
| 12 | 43 22.2 | 37 37.7 N 3 | 37.5 | 276 56.5 N21 | 09.6 | 217 26.0 S 0 | 53.8 | 71 30.9 S12 | 51.5 | Gacrux | 172 17.3 S57 | 04.9 | | | | | | |
| 13 | 58 24.7 | 52 39.0 | 37.6 | 291 57.7 | 09.3 | 232 28.7 | 53.7 | 86 33.2 | 51.5 | Gienah | 176 07.6 S17 | 30.6 | | | | | | |
| 14 | 73 27.2 | 67 40.3 | 37.6 | 306 58.9 | 09.0 | 247 31.3 | 53.7 | 101 35.5 | 51.5 | Hadar | 149 08.7 S60 | 20.7 | | | | | | |
| 15 | 88 29.6 | 82 41.6 .. | 37.6 | 322 00.1 .. | 08.6 | 262 34.0 .. | 53.6 | 116 37.8 .. | 51.4 | Hamal | 328 18.1 N23 | 25.8 | | | | | | |
| 16 | 103 32.1 | 97 42.8 | 37.6 | 337 01.3 | 08.3 | 277 36.6 | 53.5 | 131 40.2 | 51.4 | Kaus Aust. | 84 03.5 S34 | 23.2 | | | | | | |
| 17 | 118 34.6 | 112 44.1 | 37.7 | 352 02.5 | 08.0 | 292 39.2 | 53.5 | 146 42.5 | 51.3 | | | | | | | | | |
| 18 | 133 37.0 | 127 45.4 N 3 | 37.7 | 7 03.7 N21 | 07.6 | 307 41.9 S 0 | 53.4 | 161 44.8 S12 | 51.3 | Kochab | 137 18.1 N74 | 10.9 | | | | | | |
| 19 | 148 39.5 | 142 46.7 | 37.7 | 22 04.9 | 07.3 | 322 44.5 | 53.3 | 176 47.1 | 51.3 | Markab | 13 53.5 N15 | 10.1 | | | | | | |
| 20 | 163 41.9 | 157 48.0 | 37.8 | 37 06.0 | 07.0 | 337 47.2 | 53.3 | 191 49.5 | 51.2 | Menkar | 314 31.1 N 4 | 03.8 | | | | | | |
| 21 | 178 44.4 | 172 49.2 .. | 37.8 | 52 07.2 .. | 06.6 | 352 49.8 .. | 53.2 | 206 51.8 .. | 51.2 | Menkent | 148 25.0 S36 | 20.4 | | | | | | |
| 22 | 193 46.9 | 187 50.5 | 37.9 | 67 08.4 | 06.3 | 7 52.5 | 53.1 | 221 54.1 | 51.1 | Miaplacidus | 221 42.9 S69 | 41.8 | | | | | | |
| 23 | 208 49.3 | 202 51.8 | 37.9 | 82 09.6 | 06.0 | 22 55.1 | 53.1 | 236 56.5 | 51.1 | | | | | | | | | |
| 6 00 | 223 51.8 | 217 53.1 N 3 | 37.9 | 97 10.8 N21 | 05.6 | 37 57.7 S 0 | 53.0 | 251 58.8 S12 | 51.0 | Mirfak | 309 02.5 N49 | 50.3 | | | | | | |
| 01 | 238 54.3 | 232 54.3 | 38.0 | 112 12.0 | 05.3 | 53 00.4 | 52.9 | 267 01.1 | 51.0 | Nunki | 76 16.7 S26 | 18.2 | | | | | | |
| 02 | 253 56.7 | 247 55.6 | 38.0 | 127 13.1 | 05.0 | 68 03.0 | 52.9 | 282 03.4 | 51.0 | Peacock | 53 42.7 S56 | 45.1 | | | | | | |
| 03 | 268 59.2 | 262 56.9 .. | 38.1 | 142 14.3 .. | 04.6 | 83 05.7 .. | 52.8 | 297 05.8 .. | 50.9 | Pollux | 243 46.2 N28 | 02.5 | | | | | | |
| 04 | 284 01.7 | 277 58.1 | 38.1 | 157 15.5 | 04.3 | 98 08.3 | 52.7 | 312 08.1 | 50.9 | Procyon | 245 15.6 N 5 | 14.4 | | | | | | |
| 05 | 299 04.1 | 292 59.4 | 38.2 | 172 16.7 | 03.9 | 113 10.9 | 52.7 | 327 10.4 | 50.8 | | | | | | | | | |
| 06 | 314 06.6 | 308 00.6 N 3 | 38.2 | 187 17.9 N21 | 03.6 | 128 13.6 S 0 | 52.6 | 342 12.8 S12 | 50.8 | Rasalhague | 96 20.1 N12 | 33.8 | | | | | | |
| 07 | 329 09.1 | 323 01.9 | 38.3 | 202 19.1 | 03.3 | 143 16.2 | 52.5 | 357 15.1 | 50.8 | Regulus | 207 59.4 N11 | 59.9 | | | | | | |
| 08 | 344 11.5 | 338 03.1 | 38.3 | 217 20.3 | 02.9 | 158 18.9 | 52.5 | 12 17.4 | 50.7 | Rigel | 281 26.8 S 8 | 12.7 | | | | | | |
| J 09 | 359 14.0 | 353 04.4 .. | 38.4 | 232 21.4 .. | 02.6 | 173 21.5 .. | 52.4 | 27 19.7 .. | 50.7 | Rigel Kent. | 140 11.7 S60 | 48.6 | | | | | | |
| U 10 | 14 16.4 | 8 05.6 | 38.5 | 247 22.6 | 02.3 | 188 24.1 | 52.3 | 42 22.1 | 50.6 | Sabik | 102 29.5 S15 | 43.1 | | | | | | |
| E 11 | 29 18.9 | 23 06.9 | 38.5 | 262 23.8 | 01.9 | 203 26.8 | 52.3 | 57 24.4 | 50.6 | | | | | | | | | |
| V 12 | 44 21.4 | 38 08.1 N 3 | 38.6 | 277 25.0 N21 | 01.6 | 218 29.4 S 0 | 52.2 | 72 26.7 S12 | 50.6 | Schedar | 349 58.3 N56 | 29.9 | | | | | | |
| E 13 | 59 23.8 | 53 09.3 | 38.6 | 292 26.2 | 01.3 | 233 32.1 | 52.1 | 87 29.1 | 50.5 | Shaula | 96 42.0 S37 | 05.9 | | | | | | |
| S 14 | 74 26.3 | 68 10.6 | 38.7 | 307 27.4 | 00.9 | 248 34.7 | 52.1 | 102 31.4 | 50.5 | Sirius | 258 47.2 S16 | 42.6 | | | | | | |
| 15 | 89 28.8 | 83 11.8 .. | 38.8 | 322 28.5 .. | 00.6 | 263 37.3 .. | 52.0 | 117 33.7 .. | 50.4 | Spica | 158 46.8 S11 | 07.8 | | | | | | |
| 16 | 104 31.2 | 98 13.0 | 38.8 | 337 29.7 | 00.2 | 278 40.0 | 51.9 | 132 36.0 | 50.4 | Suhail | 223 03.5 S43 | 24.7 | | | | | | |
| 17 | 119 33.7 | 113 14.3 | 38.9 | 352 30.9 | 00.0 | 293 42.6 | 51.9 | 147 38.4 | 50.4 | | | | | | | | | |
| 18 | 134 36.2 | 128 15.5 N 3 | 39.0 | 7 32.1 N20 | 59.6 | 308 45.2 S 0 | 51.8 | 162 40.7 S12 | 50.3 | Vega | 80 48.9 N38 | 46.5 | | | | | | |
| 19 | 149 38.6 | 143 16.7 | 39.0 | 22 33.3 | 59.2 | 323 47.9 | 51.7 | 177 43.0 | 50.3 | Zuben'ubi | 137 21.8 S16 | 01.0 | | | | | | |
| 20 | 164 41.1 | 158 17.9 | 39.1 | 37 34.4 | 58.9 | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|-----|------|------------|-------|----------|-----------|-------|-----------|------------------|------------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 4 | | 5 | | 6 | | 7 | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | h | m | h | m | h | m | h | m | h |
| M A R T E S | 4 00 | 180 | 48.1 | N15 | 54.3 | 30 | 45.5 | 8.3 | S | 9 | 36.6 | 12.8 | 60.5 | N 72 | /// | /// | 01 14 | 19 58 | ■ | ■ | ■ |
| | 01 | 195 | 48.2 | | 55.0 | 45 | 12.8 | 8.2 | | 9 | 49.4 | 12.8 | 60.5 | N 70 | /// | /// | 02 07 | 19 29 | ■ | ■ | ■ |
| | 02 | 210 | 48.3 | | 55.7 | 59 | 40.0 | 8.1 | | 10 | 02.2 | 12.7 | 60.5 | 68 | /// | /// | 02 39 | 19 07 | 21 14 | 23 31 | ■ |
| | 03 | 225 | 48.3 | | 56.5 | 74 | 07.1 | 8.1 | | 10 | 14.9 | 12.6 | 60.5 | 66 | /// | 01 29 | 03 02 | 18 51 | 20 45 | 22 37 | 24 10 |
| | 04 | 240 | 48.4 | | 57.2 | 88 | 34.2 | 8.1 | | 10 | 27.5 | 12.6 | 60.5 | 64 | /// | 02 06 | 03 20 | 18 37 | 20 23 | 22 04 | 23 28 |
| | 05 | 255 | 48.4 | | 57.9 | 103 | 01.3 | 8.0 | | 10 | 40.1 | 12.5 | 60.5 | 62 | /// | 02 32 | 03 35 | 18 25 | 20 06 | 21 40 | 22 59 |
| | 06 | 270 | 48.5 | N15 | 58.6 | 117 | 28.3 | 7.9 | S10 | 52.6 | 12.4 | 60.4 | | 60 | 01 19 | 02 52 | 03 47 | 18 16 | 19 52 | 21 21 | 22 37 |
| | 07 | 285 | 48.6 | 15 | 59.4 | 131 | 55.2 | 7.9 | | 11 | 05.0 | 12.4 | 60.4 | N 58 | 01 53 | 03 08 | 03 58 | 18 07 | 19 39 | 21 05 | 22 19 |
| | 08 | 300 | 48.6 | 16 | 00.1 | 146 | 22.1 | 7.9 | | 11 | 17.4 | 12.3 | 60.4 | 56 | 02 17 | 03 22 | 04 07 | 18 00 | 19 29 | 20 52 | 22 04 |
| | 09 | 315 | 48.7 | | 00.8 | 160 | 49.0 | 7.8 | | 11 | 29.7 | 12.2 | 60.4 | 54 | 02 36 | 03 33 | 04 16 | 17 53 | 19 20 | 20 40 | 21 51 |
| | 10 | 330 | 48.7 | | 01.5 | 175 | 15.8 | 7.7 | | 11 | 41.9 | 12.2 | 60.4 | 52 | 02 51 | 03 43 | 04 23 | 17 48 | 19 11 | 20 30 | 21 40 |
| | 11 | 345 | 48.8 | | 02.3 | 189 | 42.5 | 7.7 | | 11 | 54.1 | 12.1 | 60.4 | 50 | 03 04 | 03 52 | 04 30 | 17 42 | 19 04 | 20 21 | 21 30 |
| | 12 | 0 | 48.9 | N16 | 03.0 | 204 | 09.2 | 7.7 | S12 | 06.2 | 11.9 | 60.4 | | 45 | 03 30 | 04 11 | 04 44 | 17 31 | 18 48 | 20 02 | 21 09 |
| | 13 | 15 | 48.9 | | 03.7 | 218 | 35.9 | 7.6 | | 12 | 18.1 | 12.0 | 60.4 | N 40 | 03 49 | 04 26 | 04 55 | 17 21 | 18 35 | 19 46 | 20 52 |
| | 14 | 30 | 49.0 | | 04.4 | 233 | 02.5 | 7.6 | | 12 | 30.1 | 11.8 | 60.4 | 35 | 04 05 | 04 38 | 05 05 | 17 13 | 18 24 | 19 33 | 20 38 |
| | 15 | 45 | 49.0 | | 05.1 | 247 | 29.1 | 7.5 | | 12 | 41.9 | 11.7 | 60.4 | 30 | 04 18 | 04 48 | 05 14 | 17 06 | 18 15 | 19 22 | 20 25 |
| | 16 | 60 | 49.1 | | 05.9 | 261 | 55.6 | 7.4 | | 12 | 53.6 | 11.7 | 60.4 | 20 | 04 38 | 05 05 | 05 29 | 16 54 | 17 58 | 19 02 | 20 04 |
| | 17 | 75 | 49.1 | | 06.6 | 276 | 22.0 | 7.4 | | 13 | 05.3 | 11.6 | 60.4 | N 10 | 04 54 | 05 19 | 05 41 | 16 44 | 17 44 | 18 45 | 19 46 |
| | 18 | 90 | 49.2 | N16 | 07.3 | 290 | 48.4 | 7.4 | S13 | 16.9 | 11.5 | 60.4 | | 0 | 05 07 | 05 32 | 05 53 | 16 34 | 17 31 | 18 29 | 19 28 |
| | 19 | 105 | 49.3 | | 08.0 | 305 | 14.8 | 7.3 | | 13 | 28.4 | 11.4 | 60.4 | S 10 | 05 18 | 05 43 | 06 05 | 16 25 | 17 18 | 18 14 | 19 11 |
| | 20 | 120 | 49.3 | | 08.7 | 319 | 41.1 | 7.3 | | 13 | 39.8 | 11.3 | 60.4 | 20 | 05 28 | 05 54 | 06 17 | 16 14 | 17 04 | 17 57 | 18 53 |
| | 21 | 135 | 49.4 | | 09.5 | 334 | 07.4 | 7.2 | | 13 | 51.1 | 11.2 | 60.4 | 30 | 05 38 | 06 06 | 06 31 | 16 03 | 16 48 | 17 38 | 18 32 |
| | 22 | 150 | 49.4 | | 10.2 | 348 | 33.6 | 7.1 | | 14 | 02.3 | 11.2 | 60.4 | 35 | 05 43 | 06 13 | 06 40 | 15 56 | 16 39 | 17 27 | 18 20 |
| 23 | 165 | 49.5 | | 10.9 | 2 | 59.7 | 7.2 | | 14 | 13.5 | 11.0 | 60.3 | 40 | 05 48 | 06 20 | 06 49 | 15 49 | 16 29 | 17 14 | 18 06 | |
| 00 | 180 | 49.5 | N16 | 11.6 | 17 | 25.9 | 7.0 | S14 | 24.5 | 10.9 | 60.3 | | 45 | 05 53 | 06 28 | 06 59 | 15 40 | 16 17 | 16 59 | 17 49 | |
| 01 | 195 | 49.6 | | 12.3 | 31 | 51.9 | 7.0 | | 14 | 35.4 | 10.9 | 60.3 | S 50 | 05 59 | 06 38 | 07 12 | 15 29 | 16 02 | 16 41 | 17 29 | |
| 02 | 210 | 49.6 | | 13.0 | 46 | 17.9 | 7.0 | | 14 | 46.3 | 10.7 | 60.3 | 52 | 06 02 | 06 42 | 07 18 | 15 25 | 15 55 | 16 33 | 17 19 | |
| 03 | 225 | 49.7 | | 13.7 | 60 | 43.9 | 6.9 | | 14 | 57.0 | 10.6 | 60.3 | 54 | 06 04 | 06 47 | 07 25 | 15 19 | 15 48 | 16 23 | 17 08 | |
| 04 | 240 | 49.8 | | 14.5 | 75 | 09.8 | 6.9 | | 15 | 07.6 | 10.6 | 60.3 | 56 | 06 07 | 06 52 | 07 32 | 15 14 | 15 39 | 16 12 | 16 56 | |
| 05 | 255 | 49.8 | | 15.2 | 89 | 35.7 | 6.8 | | 15 | 18.2 | 10.4 | 60.3 | 58 | 06 10 | 06 57 | 07 41 | 15 07 | 15 30 | 16 00 | 16 42 | |
| 06 | 270 | 49.9 | N16 | 15.9 | 104 | 01.5 | 6.8 | S15 | 28.6 | 10.3 | 60.3 | | S 60 | 06 13 | 07 04 | 07 50 | 15 00 | 15 19 | 15 46 | 16 25 | |
| 07 | 285 | 49.9 | | 16.6 | 118 | 27.3 | 6.7 | | 15 | 38.9 | 10.3 | 60.3 | | | | | | | | | |
| 08 | 300 | 50.0 | | 17.3 | 132 | 53.0 | 6.7 | | 15 | 49.2 | 10.1 | 60.2 | | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | | | | |
| 09 | 315 | 50.0 | | 18.0 | 147 | 18.7 | 6.6 | | 15 | 59.3 | 10.0 | 60.2 | | | | | 4 | 5 | 6 | 7 | |
| 10 | 330 | 50.1 | | 18.7 | 161 | 44.3 | 6.6 | | 16 | 09.3 | 9.9 | 60.2 | | | | | | | | | |
| 11 | 345 | 50.1 | | 19.4 | 176 | 09.9 | 6.6 | | 16 | 19.2 | 9.8 | 60.2 | | | | | | | | | |
| 12 | 0 | 50.2 | N16 | 20.1 | 190 | 35.5 | 6.5 | S16 | 29.0 | 9.6 | 60.2 | | | | | | | | | | |
| 13 | 15 | 50.2 | | 20.9 | 205 | 01.0 | 6.4 | | 16 | 38.6 | 9.6 | 60.2 | | | | | | | | | |
| 14 | 30 | 50.3 | | 21.6 | 219 | 26.4 | 6.4 | | 16 | 48.2 | 9.4 | 60.2 | | | | | | | | | |
| 15 | 45 | 50.3 | | 22.3 | 233 | 51.9 | 6.3 | | 16 | 57.6 | 9.4 | 60.1 | | | | | | | | | |
| 16 | 60 | 50.4 | | 23.0 | 248 | 17.2 | 6.3 | | 17 | 07.0 | 9.2 | 60.1 | | | | | | | | | |
| 17 | 75 | 50.4 | | 23.7 | 262 | 42.6 | 6.3 | | 17 | 16.2 | 9.1 | 60.1 | | | | | | | | | |
| 18 | 90 | 50.5 | N16 | 24.4 | 277 | 07.9 | 6.2 | S17 | 25.3 | 8.9 | 60.1 | | | | | | | | | | |
| 19 | 105 | 50.5 | | 25.1 | 291 | 33.1 | 6.2 | | 17 | 34.2 | 8.9 | 60.1 | | | | | | | | | |
| 20 | 120 | 50.6 | | 25.8 | 305 | 58.3 | 6.2 | | 17 | 43.1 | 8.7 | 60.0 | | | | | | | | | |
| 21 | 135 | 50.6 | | 26.5 | 320 | 23.5 | 6.2 | | 17 | 51.8 | 8.6 | 60.0 | | | | | | | | | |
| 22 | 150 | 50.7 | | 27.2 | 334 | 48.7 | 6.1 | | 18 | 00.4 | 8.5 | 60.0 | | | | | | | | | |
| 23 | 165 | 50.7 | | 27.9 | 349 | 13.8 | 6.0 | | 18 | 08.9 | 8.3 | 60.0 | | | | | | | | | |
| 00 | 180 | 50.8 | N16 | 28.6 | 3 | 38.8 | 6.1 | S18 | 17.2 | 8.3 | 60.0 | | | | | | | | | | |
| 01 | 195 | 50.8 | | 29.3 | 18 | 03.9 | 6.0 | | 18 | 25.5 | 8.1 | 59.9 | | | | | | | | | |
| 02 | 210 | 50.9 | | 30.0 | 32 | 28.9 | 5.9 | | 18 | 33.6 | 7.9 | 59.9 | | | | | | | | | |
| 03 | 225 | 50.9 | | 30.7 | 46 | 53.8 | 6.0 | | 18 | 41.5 | 7.9 | 59.9 | | | | | | | | | |
| 04 | 240 | 51.0 | | 31.4 | 61 | 18.8 | 5.9 | | 18 | 49.4 | 7.7 | 59.9 | | | | | | | | | |
| 05 | 255 | 51.0 | | 32.1 | 75 | 43.7 | 5.8 | | 18 | 57.1 | 7.5 | 59.9 | | | | | | | | | |
| 06 | 270 | 51.1 | N16 | 32.8 | 90 | 08.5 | 5.9 | S19 | 04.6 | 7.5 | 59.8 | | | | | | | | | | |
| 07 | 285 | 51.1 | | 33.5 | 104 | 33.4 | 5.8 | | 19 | 12.1 | 7.3 | 59.8 | | | | | | | | | |
| 08 | 300 | 51.2 | | 34.2 | 118 | 58.2 | 5.8 | | 19 | 19.4 | 7.1 | 59.8 | | | | | | | | | |
| 09 | 315 | 51.2 | | 34.9 | 133 | 23.0 | 5.8 | | 19 | 26.5 | 7.1 | 59.8 | | | | | | | | | |
| 10 | 330 | 51.3 | | 35.6 | 147 | 47.8 | 5.7 | | 19 | 33.6 | 6.9 | 59.8 | | | | | | | | | |
| 11 | 345 | 51.3 | | 36.3 | 162 | 12.5 | 5.7 | | 19 | 40.5 | 6.7 | 59.7 | | | | | | | | | |
| 12 | 0 | 51.4 | N16 | 37.0 | 176 | 37.2 | 5.7 | S19 | 47.2 | 6.7 | 59.7 | | | | | | | | | | |
| 13 | 15 | 51.4 | | 37.7 | 191 | 01.9 | 5.7 | | 19 | 53.9 | 6.5 | 59.7 | | | | | | | | | |
| 14 | 30 | 51.5 | | 38.4 | 205 | 26.6 | 5.7 | | 20 | 00.4 | 6.3 | 59.7 | | | | | | | | | |
| 15 | 45 | 51.5 | | 39.1 | 219 | 51.3 | 5.6 | | 20 | 06.7 | 6.2 | 59.6 | | | | | | | | | |
| 16 | 60 | 51.6 | | 39.8 | 234 | 15.9 | 5.6 | | 20 | 12.9 | 6.1 | 59.6 | | | | | | | | | |
| 17 | 75 | 51.6 | | 40.5 | 248 | 40.5 | 5.6 | | 20 | 19.0 | 5.9 | 59.6 | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | |
|---------------------------------|----------|----------|----------|----------|----------|----------|------|-----------------|-----------------|------------------|-----------|------------|-----------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | P.H. | Náut. | | Civil | 7 | | 8 | 9 | 10 | |
| V I E R N E S | d h | ° / | ° / | ° / | ° / | ° / | ° / | ° | h m | h m | h m | h m | h m | h m | h m | h m |
| | 7 00 | 180 51.9 | N16 45.4 | 349 32.5 | 5.6 | S20 57.4 | 5.0 | 59.4 | N 72 | /// | /// | 00 25 | ■ | ■ | ■ | ■ |
| | 01 | 195 52.0 | 46.1 | 3 57.1 | 5.5 | 21 02.4 | 4.7 | 59.4 | N 70 | /// | /// | 01 46 | ■ | ■ | ■ | ■ |
| | 02 | 210 52.0 | 46.8 | 18 21.6 | 5.6 | 21 07.1 | 4.7 | 59.3 | 68 | /// | /// | 02 24 | ■ | ■ | ■ | 02 10 |
| | 03 | 225 52.0 | 47.5 | 32 46.2 | 5.5 | 21 11.8 | 4.5 | 59.3 | 66 | /// | 01 04 | 02 50 | 24 10 | 00 10 | 01 03 | 01 24 |
| | 04 | 240 52.1 | 48.2 | 47 10.7 | 5.5 | 21 16.3 | 4.3 | 59.3 | 64 | /// | 01 51 | 03 10 | 23 28 | 24 23 | 00 23 | 00 54 |
| | 05 | 255 52.1 | 48.8 | 61 35.2 | 5.6 | 21 20.6 | 4.2 | 59.2 | 62 | /// | 02 20 | 03 26 | 22 59 | 23 56 | 24 31 | 00 31 |
| | 06 | 270 52.2 | N16 49.5 | 75 59.8 | 5.5 | S21 24.8 | 4.0 | 59.2 | 60 | 00 57 | 02 42 | 03 40 | 22 37 | 23 34 | 24 13 | 00 13 |
| | 07 | 285 52.2 | 50.2 | 90 24.3 | 5.6 | 21 28.8 | 3.9 | 59.2 | N 58 | 01 39 | 03 00 | 03 51 | 22 19 | 23 16 | 23 58 | 24 27 |
| | 08 | 300 52.3 | 50.9 | 104 48.9 | 5.5 | 21 32.7 | 3.8 | 59.2 | 56 | 02 06 | 03 14 | 04 01 | 22 04 | 23 02 | 23 45 | 24 16 |
| | 09 | 315 52.3 | 51.6 | 119 13.4 | 5.6 | 21 36.5 | 3.6 | 59.1 | 54 | 02 27 | 03 26 | 04 10 | 21 51 | 22 49 | 23 33 | 24 07 |
| | 10 | 330 52.3 | 52.3 | 133 38.0 | 5.6 | 21 40.1 | 3.4 | 59.1 | 52 | 02 43 | 03 37 | 04 18 | 21 40 | 22 38 | 23 23 | 23 58 |
| | 11 | 345 52.4 | 53.0 | 148 02.6 | 5.5 | 21 43.5 | 3.4 | 59.1 | 50 | 02 57 | 03 47 | 04 25 | 21 30 | 22 28 | 23 14 | 23 51 |
| | 12 | 0 52.4 | N16 53.7 | 162 27.1 | 5.6 | S21 46.9 | 3.1 | 59.0 | 45 | 03 25 | 04 06 | 04 40 | 21 09 | 22 07 | 22 55 | 23 34 |
| | 13 | 15 52.5 | 54.4 | 176 51.7 | 5.7 | 21 50.0 | 3.0 | 59.0 | N 40 | 03 45 | 04 22 | 04 52 | 20 52 | 21 50 | 22 39 | 23 21 |
| | 14 | 30 52.5 | 55.0 | 191 16.4 | 5.6 | 21 53.0 | 2.9 | 59.0 | 35 | 04 02 | 04 35 | 05 02 | 20 38 | 21 36 | 22 26 | 23 10 |
| | 15 | 45 52.5 | 55.7 | 205 41.0 | 5.6 | 21 55.9 | 2.7 | 58.9 | 30 | 04 15 | 04 46 | 05 11 | 20 25 | 21 23 | 22 15 | 23 00 |
| | 16 | 60 52.6 | 56.4 | 220 05.6 | 5.7 | 21 58.6 | 2.6 | 58.9 | 20 | 04 36 | 05 04 | 05 27 | 20 04 | 21 02 | 21 55 | 22 43 |
| | 17 | 75 52.6 | 57.1 | 234 30.3 | 5.7 | 22 01.2 | 2.4 | 58.9 | N 10 | 04 53 | 05 18 | 05 40 | 19 46 | 20 44 | 21 38 | 22 28 |
| | 18 | 90 52.7 | N16 57.8 | 248 55.0 | 5.7 | S22 03.6 | 2.3 | 58.8 | 0 | 05 06 | 05 31 | 05 53 | 19 28 | 20 26 | 21 22 | 22 14 |
| | 19 | 105 52.7 | 58.5 | 263 19.7 | 5.7 | 22 05.9 | 2.1 | 58.8 | S 10 | 05 18 | 05 43 | 06 05 | 19 11 | 20 09 | 21 06 | 21 59 |
| | 20 | 120 52.7 | 59.1 | 277 44.4 | 5.8 | 22 08.0 | 2.0 | 58.8 | 20 | 05 29 | 05 55 | 06 18 | 18 53 | 19 51 | 20 48 | 21 44 |
| | 21 | 135 52.8 | 16 59.8 | 292 09.2 | 5.8 | 22 10.0 | 1.8 | 58.7 | 30 | 05 40 | 06 08 | 06 33 | 18 32 | 19 30 | 20 28 | 21 27 |
| 22 | 150 52.8 | 17 00.5 | 306 34.0 | 5.8 | 22 11.8 | 1.7 | 58.7 | 35 | 05 45 | 06 15 | 06 42 | 18 20 | 19 17 | 20 17 | 21 17 | |
| 23 | 165 52.8 | 01.2 | 320 58.8 | 5.9 | 22 13.5 | 1.6 | 58.7 | 40 | 05 51 | 06 23 | 06 52 | 18 06 | 19 03 | 20 03 | 21 05 | |
| 8 00 | 180 52.9 | N17 01.9 | 335 23.7 | 5.8 | S22 15.1 | 1.4 | 58.6 | 45 | 05 56 | 06 32 | 07 03 | 17 49 | 18 46 | 19 48 | 20 52 | |
| 01 | 195 52.9 | 02.6 | 349 48.5 | 6.0 | 22 16.5 | 1.2 | 58.6 | S 50 | 06 03 | 06 42 | 07 17 | 17 29 | 18 25 | 19 28 | 20 35 | |
| 02 | 210 53.0 | 03.2 | 4 13.5 | 5.9 | 22 17.7 | 1.1 | 58.6 | 52 | 06 06 | 06 46 | 07 23 | 17 19 | 18 15 | 19 19 | 20 27 | |
| 03 | 225 53.0 | 03.9 | 18 38.4 | 6.0 | 22 18.8 | 1.0 | 58.5 | 54 | 06 09 | 06 51 | 07 30 | 17 08 | 18 04 | 19 09 | 20 18 | |
| 04 | 240 53.0 | 04.6 | 33 03.4 | 6.0 | 22 19.8 | 0.8 | 58.5 | 56 | 06 12 | 06 57 | 07 38 | 16 56 | 17 51 | 18 57 | 20 08 | |
| 05 | 255 53.1 | 05.3 | 47 28.4 | 6.1 | 22 20.6 | 0.7 | 58.5 | 58 | 06 15 | 07 03 | 07 47 | 16 42 | 17 37 | 18 43 | 19 57 | |
| 06 | 270 53.1 | N17 05.9 | 61 53.5 | 6.1 | S22 21.3 | 0.5 | 58.4 | S 60 | 06 19 | 07 10 | 07 57 | 16 25 | 17 19 | 18 27 | 19 44 | |
| 07 | 285 53.1 | 06.6 | 76 18.6 | 6.1 | 22 21.8 | 0.4 | 58.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | |
| 08 | 300 53.2 | 07.3 | 90 43.7 | 6.2 | 22 22.2 | 0.2 | 58.4 | 7 | 8 | 9 | 10 | 7 | 8 | 9 | 10 | |
| 09 | 315 53.2 | 08.0 | 105 08.9 | 6.2 | 22 22.4 | 0.1 | 58.3 | N 72 | h m | h m | h m | h m | h m | h m | h m | |
| 10 | 330 53.2 | 08.7 | 119 34.1 | 6.3 | 22 22.5 | 0.0 | 58.3 | N 70 | □ | □ | □ | ■ | ■ | ■ | ■ | |
| 11 | 345 53.3 | 09.3 | 133 59.4 | 6.4 | 22 22.5 | 0.2 | 58.3 | 68 | 22 13 | /// | /// | 01 49 | ■ | ■ | 05 07 | |
| 12 | 0 53.3 | N17 10.0 | 148 24.8 | 6.3 | S22 22.3 | 0.3 | 58.2 | 66 | 21 33 | /// | /// | 02 43 | ■ | ■ | 05 52 | |
| 13 | 15 53.4 | 10.7 | 162 50.1 | 6.5 | 22 22.0 | 0.5 | 58.2 | 64 | 21 06 | 22 59 | /// | 03 16 | 03 13 | 04 20 | 05 22 | |
| 14 | 30 53.4 | 11.4 | 177 15.6 | 6.5 | 22 21.5 | 0.6 | 58.2 | 62 | 20 45 | 22 37 | /// | 03 41 | 03 56 | 05 00 | 06 22 | |
| 15 | 45 53.4 | 12.0 | 191 41.1 | 6.5 | 22 20.9 | 0.8 | 58.1 | 60 | 20 29 | 21 36 | /// | 03 16 | 04 24 | 05 27 | 06 44 | |
| 16 | 60 53.5 | 12.7 | 206 06.6 | 6.6 | 22 20.1 | 0.8 | 58.1 | 60 | 20 15 | 21 13 | 23 05 | 04 00 | 04 46 | 05 48 | 07 02 | |
| 17 | 75 53.5 | 13.4 | 220 32.2 | 6.6 | 22 19.3 | 1.1 | 58.0 | N 58 | 20 03 | 20 55 | 22 18 | 04 16 | 05 04 | 06 06 | 07 17 | |
| 18 | 90 53.5 | N17 14.0 | 234 57.8 | 6.7 | S22 18.2 | 1.1 | 58.0 | 56 | 19 53 | 20 41 | 21 49 | 04 30 | 05 19 | 06 20 | 07 30 | |
| 19 | 105 53.6 | 14.7 | 249 23.5 | 6.8 | 22 17.1 | 1.3 | 58.0 | 54 | 19 44 | 20 28 | 21 28 | 04 42 | 05 32 | 06 33 | 07 41 | |
| 20 | 120 53.6 | 15.4 | 263 49.3 | 6.8 | 22 15.8 | 1.4 | 57.9 | 52 | 19 36 | 20 17 | 21 11 | 04 52 | 05 44 | 06 44 | 07 51 | |
| 21 | 135 53.6 | 16.1 | 278 15.1 | 6.9 | 22 14.4 | 1.6 | 57.9 | 50 | 19 29 | 20 07 | 20 57 | 05 02 | 05 54 | 06 54 | 07 59 | |
| 22 | 150 53.7 | 16.7 | 292 41.0 | 6.9 | 22 12.8 | 1.7 | 57.9 | 45 | 19 14 | 19 47 | 20 29 | 05 21 | 06 15 | 07 15 | 08 18 | |
| 23 | 165 53.7 | 17.4 | 307 06.9 | 7.1 | 22 11.1 | 1.8 | 57.8 | N 40 | 19 02 | 19 32 | 20 08 | 05 37 | 06 32 | 07 31 | 08 33 | |
| 9 00 | 180 53.7 | N17 18.1 | 321 33.0 | 7.0 | S22 09.3 | 2.0 | 57.8 | 35 | 18 51 | 19 19 | 19 52 | 05 51 | 06 46 | 07 45 | 08 46 | |
| 01 | 195 53.7 | 18.7 | 335 59.0 | 7.2 | 22 07.3 | 2.1 | 57.8 | 30 | 18 42 | 19 08 | 19 38 | 06 03 | 06 59 | 07 58 | 08 57 | |
| 02 | 210 53.8 | 19.4 | 350 25.2 | 7.2 | 22 05.2 | 2.2 | 57.7 | 20 | 18 26 | 18 49 | 19 17 | 06 23 | 07 20 | 08 18 | 09 15 | |
| 03 | 225 53.8 | 20.1 | 4 51.4 | 7.2 | 22 03.0 | 2.4 | 57.7 | N 10 | 18 13 | 18 35 | 19 00 | 06 41 | 07 39 | 08 36 | 09 32 | |
| 04 | 240 53.8 | 20.7 | 19 17.6 | 7.4 | 22 00.6 | 2.5 | 57.7 | 0 | 18 00 | 18 22 | 18 47 | 06 58 | 07 56 | 08 53 | 09 47 | |
| 05 | 255 53.9 | 21.4 | 33 44.0 | 7.4 | 21 58.1 | 2.6 | 57.6 | S 10 | 17 47 | 18 09 | 18 35 | 07 14 | 08 14 | 09 10 | 10 02 | |
| 06 | 270 53.9 | N17 22.1 | 48 10.4 | 7.5 | S21 55.5 | 2.7 | 57.6 | 20 | 17 34 | 17 57 | 18 24 | 07 32 | 08 32 | 09 28 | 10 18 | |
| 07 | 285 53.9 | 22.7 | 62 36.9 | 7.5 | 21 52.8 | 2.9 | 57.5 | 30 | 17 19 | 17 44 | 18 13 | 07 52 | 08 53 | 09 48 | 10 37 | |
| 08 | 300 54.0 | 23.4 | 77 03.4 | 7.6 | 21 49.9 | 3.0 | 57.5 | 35 | 17 11 | 17 37 | 18 08 | 08 04 | 09 06 | 10 00 | 10 47 | |
| 09 | 315 54.0 | 24.1 | 91 30.0 | 7.7 | 21 46.9 | 3.1 | 57.5 | 40 | 17 01 | 17 29 | 18 02 | 08 18 | 09 20 | 10 14 | 11 00 | |
| 10 | 330 54.0 | 24.7 | 105 56.7 | 7.8 | 21 43.8 | 3.2 | 57.4 | 45 | 16 49 | 17 21 | 17 56 | 08 34 | 09 37 | 10 30 | 11 14 | |
| 11 | 345 54.0 | 25.4 | 120 23.5 | 7.9 | 21 40.6 | 3.4 | 57.4 | S 50 | 16 36 | 17 13 | 17 49 | 08 54 | 09 58 | 10 50 | 11 32 | |
| 12 | 0 54.1 | N17 26.1 | 134 50.4 | 7.9 | S21 37.2 | 3.5 | 57.4 | 52 | 16 29 | 17 05 | 17 46 | 09 04 | 10 08 | 11 00 | 11 40 | |
| 13 | 15 54.1 | 26.7 | 149 17.3 | 8.0 | 21 33.7 | 3.6 | 57.3 | 54 | 16 22 | 17 01 | 17 43 | 09 15 | 10 19 | 11 10 | 11 49 | |
| 14 | 30 54.1 | 27.4 | 163 44.3 | 8.0 | 21 30.1 | 3.7 | 57.3 | 56 | 16 14 | 16 55 | 17 40 | 09 27 | 10 32 | 11 22 | 11 59 | |
| 15 | 45 54.2 | 28.0 | 178 11.3 | 8.2 | 21 26.4 | 3.8 | 57.3 | 58 | 16 05 | 16 49 | 17 37 | 09 41 | 10 47 | 11 36 | 12 11 | |
| 16 | 60 54.2 | 28.7 | 192 38.5 | 8.2 | 21 22.6 | 4.0 | 57.2 | S 60 | 15 55 | 16 42 | 17 33 | 09 58 | 11 04 | 11 52 | 12 25 | |
| 17 | 75 54.2 | 29.4 | 207 05.7 | 8.3 | 21 18.6 | 4.1 | 57.2 | Día | SOL | | LUNA | | | | | |
| 18 | 90 54.2 | N17 30.0 | 221 33.0 | 8.4 | S21 14.5 | 4.2 | 57.2 | E.T. (+) | Pas. Mer. | Pas. Mer. | Mer. Inf. | Edad. | Fase | | | |
| 19 | 105 54.3 | 30.7 | 236 00.4 | 8.5 | 21 10.3 | 4.3 | 57.1 | 00 ^h | 12 ^h | Sup. | Inf. | | | | | |
| 20 | 120 54.3 | 31.3 | 250 27.9 | 8.5 | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE +1.2 | | | JUPITER -2.3 | | | SATURNO +0.9 | | | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|-------------|----------|--------------|----------|----------|-----------|---|--|----------|------|------|-------------|------|--|-------|-------|-------|-------|--|--|--|-------|-------|-------|-------|--|--|--|--|--|---|---|-------|-----|------|---|----|--|--|-------|-----|------|----|----|--|--|---------|-----|------|----|----|--|--|---------|----|------|---|----|--|--|
| | d | h | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L U N E S | 10 | 00 | 227 48.4 | 219 44.4 | N 3 48.8 | 99 03.8 | N20 32.6 | 42 10.1 | S 0 47.1 | 255 42.9 | S12 47.3 | Acamar | 315 30.1 | S40 19.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 242 50.8 | 234 45.4 | 49.0 | 114 05.0 | 32.2 | 57 12.7 | 47.0 | 270 45.3 | 47.3 | Achernar | 335 38.4 | S57 16.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 257 53.3 | 249 46.5 | 49.2 | 129 06.2 | 31.9 | 72 15.4 | 47.0 | 285 47.6 | 47.3 | Acrux | 173 25.7 | S63 04.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 272 55.7 | 264 47.5 | 49.4 | 144 07.3 | 31.5 | 87 18.0 | 46.9 | 300 50.0 | 47.2 | Adhara | 255 24.6 | S28 58.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 287 58.2 | 279 48.6 | 49.6 | 159 08.5 | 31.2 | 102 20.6 | 46.8 | 315 52.3 | 47.2 | Aldebaran | 291 07.0 | N16 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 303 00.7 | 294 49.6 | 49.8 | 174 09.7 | 30.8 | 117 23.2 | 46.8 | 330 54.6 | 47.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 318 03.1 | 309 50.7 | N 3 50.0 | 189 10.8 | N20 30.5 | 132 25.8 | S 0 46.7 | 345 57.0 | S12 47.1 | Alioth | 166 33.3 | N55 59.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 333 05.6 | 324 51.7 | 50.1 | 204 12.0 | 30.1 | 147 28.4 | 46.7 | 0 59.3 | 47.1 | Alkaid | 153 10.2 | N49 20.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 348 08.1 | 339 52.8 | 50.3 | 219 13.2 | 29.8 | 162 31.1 | 46.6 | 16 01.7 | 47.0 | Al Na'ir | 28 02.6 | S46 59.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 3 10.5 | 354 53.8 | 50.5 | 234 14.4 | 29.4 | 177 33.7 | 46.6 | 31 04.0 | 47.0 | Alnilam | 276 01.9 | S 1 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 18 13.0 | 9 54.8 | 50.7 | 249 15.5 | 29.1 | 192 36.3 | 46.5 | 46 06.4 | 47.0 | Alphard | 218 10.9 | S 8 38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 33 15.5 | 24 55.9 | 50.9 | 264 16.7 | 28.7 | 207 38.9 | 46.5 | 61 08.7 | 46.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 48 17.9 | 39 56.9 | N 3 51.1 | 279 17.9 | N20 28.3 | 222 41.5 | S 0 46.4 | 76 11.0 | S12 46.9 | Alphecca | 126 23.3 | N26 44.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 63 20.4 | 54 58.0 | 51.3 | 294 19.0 | 28.0 | 237 44.1 | 46.3 | 91 13.4 | 46.9 | Alpheratz | 357 59.3 | N29 03.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 78 22.9 | 69 59.0 | 51.5 | 309 20.2 | 27.6 | 252 46.7 | 46.3 | 106 15.7 | 46.8 | Altair | 62 22.7 | N 8 51.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 93 25.3 | 85 00.0 | 51.7 | 324 21.4 | 27.3 | 267 49.4 | 46.2 | 121 18.1 | 46.8 | Ankaa | 353 30.8 | S42 20.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 108 27.8 | 100 01.0 | 51.9 | 339 22.5 | 26.9 | 282 52.0 | 46.2 | 136 20.4 | 46.8 | Antares | 112 44.4 | S26 25.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 123 30.2 | 115 02.1 | 52.1 | 354 23.7 | 26.6 | 297 54.6 | 46.1 | 151 22.8 | 46.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 138 32.7 | 130 03.1 | N 3 52.3 | 9 24.9 | N20 26.2 | 312 57.2 | S 0 46.1 | 166 25.1 | S12 46.7 | Arcturus | 146 09.1 | N19 12.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 153 35.2 | 145 04.1 | 52.5 | 24 26.0 | 25.9 | 327 59.8 | 46.0 | 181 27.5 | 46.6 | Atria | 107 59.2 | S69 00.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 168 37.6 | 160 05.1 | 52.7 | 39 27.2 | 25.5 | 343 02.4 | 46.0 | 196 29.8 | 46.6 | Avior | 234 24.4 | S59 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 183 40.1 | 175 06.1 | 52.9 | 54 28.4 | 25.1 | 358 05.0 | 45.9 | 211 32.1 | 46.6 | Bellatrix | 278 48.4 | N 6 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 198 42.6 | 190 07.2 | 53.2 | 69 29.5 | 24.8 | 13 07.6 | 45.9 | 226 34.5 | 46.5 | Betelgeuse | 271 17.8 | N 7 24.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 213 45.0 | 205 08.2 | 53.4 | 84 30.7 | 24.4 | 28 10.2 | 45.8 | 241 36.8 | 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M A R T E S | 11 | 00 | 228 47.5 | 220 09.2 | N 3 53.6 | 99 31.9 | N20 24.1 | 43 12.9 | S 0 45.8 | 256 39.2 | S12 46.5 | Canopus | 264 03.2 | S52 41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 243 50.0 | 235 10.2 | 53.8 | 114 33.0 | 23.7 | 58 15.5 | 45.7 | 271 41.5 | 46.4 | Capella | 280 57.1 | N45 59.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 258 52.4 | 250 11.2 | 54.0 | 129 34.2 | 23.3 | 73 18.1 | 45.6 | 286 43.9 | 46.4 | Deneb | 49 41.6 | N45 15.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 273 54.9 | 265 12.2 | 54.2 | 144 35.4 | 23.0 | 88 20.7 | 45.6 | 301 46.2 | 46.4 | Denebola | 182 48.8 | N14 36.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 288 57.4 | 280 13.2 | 54.4 | 159 36.5 | 22.6 | 103 23.3 | 45.5 | 316 48.6 | 46.3 | Diphda | 349 11.2 | S18 01.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 303 59.8 | 295 14.2 | 54.7 | 174 37.7 | 22.3 | 118 25.9 | 45.5 | 331 50.9 | 46.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 319 02.3 | 310 15.2 | N 3 54.9 | 189 38.9 | N20 21.9 | 133 28.5 | S 0 45.4 | 346 53.3 | S12 46.3 | Dubhe | 194 09.7 | N61 47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 334 04.7 | 325 16.2 | 55.1 | 204 40.0 | 21.6 | 148 31.1 | 45.4 | 1 55.6 | 46.2 | Elnath | 278 32.0 | N28 36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 349 07.2 | 340 17.2 | 55.3 | 219 41.2 | 21.2 | 163 33.7 | 45.3 | 16 58.0 | 46.2 | Eltanin | 90 52.7 | N51 29.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 4 09.7 | 355 18.2 | 55.5 | 234 42.4 | 20.8 | 178 36.3 | 45.3 | 32 00.3 | 46.2 | Enif | 34 01.9 | N 9 50.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 19 12.1 | 10 19.2 | 55.8 | 249 43.5 | 20.5 | 193 38.9 | 45.2 | 47 02.6 | 46.1 | Fomalhaut | 15 40.6 | S29 39.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 34 14.6 | 25 20.2 | 56.0 | 264 44.7 | 20.1 | 208 41.6 | 45.2 | 62 05.0 | 46.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 49 17.1 | 40 21.1 | N 3 56.2 | 279 45.9 | N20 19.8 | 223 44.2 | S 0 45.1 | 77 07.3 | S12 46.1 | Gacrux | 172 17.3 | S57 04.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 64 19.5 | 55 22.1 | 56.5 | 294 47.0 | 19.4 | 238 46.8 | 45.1 | 92 09.7 | 46.0 | Giennah | 176 07.6 | S17 30.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 79 22.0 | 70 23.1 | 56.7 | 309 48.2 | 19.0 | 253 49.4 | 45.0 | 107 12.0 | 46.0 | Hadar | 149 08.7 | S60 20.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 94 24.5 | 85 24.1 | 56.9 | 324 49.4 | 18.7 | 268 52.0 | 45.0 | 122 14.4 | 46.0 | Hamal | 328 18.1 | N23 25.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 109 26.9 | 100 25.1 | 57.1 | 339 50.5 | 18.3 | 283 54.6 | 44.9 | 137 16.7 | 45.9 | Kaus Aust. | 84 03.4 | S34 23.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 124 29.4 | 115 26.1 | 57.4 | 354 51.7 | 18.0 | 298 57.2 | 44.9 | 152 19.1 | 45.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 139 31.8 | 130 27.0 | N 3 57.6 | 9 52.9 | N20 17.6 | 313 59.8 | S 0 44.8 | 167 21.4 | S12 45.9 | Kochab | 137 18.1 | N74 10.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 154 34.3 | 145 28.0 | 57.9 | 24 54.0 | 17.2 | 329 02.4 | 44.8 | 182 23.8 | 45.8 | Markab | 13 53.4 | N15 10.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 169 36.8 | 160 29.0 | 58.1 | 39 55.2 | 16.9 | 344 05.0 | 44.7 | 197 26.1 | 45.8 | Menkar | 314 31.1 | N 4 03.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 184 39.2 | 175 30.0 | 58.3 | 54 56.4 | 16.5 | 359 07.6 | 44.7 | 212 28.5 | 45.8 | Menkent | 148 25.0 | S36 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 199 41.7 | 190 30.9 | 58.6 | 69 57.5 | 16.1 | 14 10.2 | 44.6 | 227 30.8 | 45.7 | Miaplacidus | 221 42.9 | S69 41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 214 44.2 | 205 31.9 | 58.8 | 84 58.7 | 15.8 | 29 12.8 | 44.6 | 242 33.2 | 45.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M I E R C O L E S | 12 | 00 | 229 46.6 | 220 32.9 | N 3 59.1 | 99 59.9 | N20 15.4 | 44 15.4 | S 0 44.5 | 257 35.5 | S12 45.7 | Mirfak | 309 02.4 | N49 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 244 49.1 | 235 33.8 | 59.3 | 115 01.0 | 15.1 | 59 18.0 | 44.5 | 272 37.9 | 45.6 | Nunki | 76 16.7 | S26 18.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 259 51.6 | 250 34.8 | 59.5 | 130 02.2 | 14.7 | 74 20.6 | 44.4 | 287 40.2 | 45.6 | Peacock | 53 42.6 | S56 45.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 274 54.0 | 265 35.7 | 59.8 | 145 03.3 | 14.3 | 89 23.2 | 44.4 | 302 42.6 | 45.6 | Pollux | 243 46.2 | N28 02.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 289 56.5 | 280 36.7 | 4 00.0 | 160 04.5 | 14.0 | 104 25.8 | 44.3 | 317 44.9 | 45.5 | Procyon | 245 15.6 | N 5 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 304 59.0 | 295 37.6 | 00.3 | 175 05.7 | 13.6 | 119 28.5 | 44.3 | 332 47.3 | 45.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 320 01.4 | 310 38.6 | N 4 00.5 | 190 06.8 | N20 13.2 | 134 31.1 | S 0 44.2 | 347 49.6 | S12 45.5 | Rasalhague | 96 20.1 | N12 33.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 335 03.9 | 325 39.6 | 00.8 | 205 03.0 | 12.9 | 149 33.7 | 44.2 | 2 52.0 | 45.4 | Regulus | 207 59.4 | N11 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 350 06.3 | 340 40.5 | 01.0 | 220 09.2 | 12.5 | 164 36.3 | 44.1 | 17 54.3 | 45.4 | Rigel | 281 26.8 | S 8 12.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 5 08.8 | 355 41.4 | 01.3 | 235 10.3 | 12.1 | 179 38.9 | 44.1 | 32 56.7 | 45.4 | Rigil Kent. | 140 11.6 | S60 48.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 20 11.3 | 10 42.4 | 01.6 | 250 11.5 | 11.8 | 194 41.5 | 44.0 | 47 59.0 | 45.3 | Sabik | 102 29.5 | S15 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 35 13.7 | 25 43.3 | 01.8 | 265 12.7 | 11.4 | 209 44.1 | 44.0 | 63 01.4 | 45.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 50 16.2 | 40 44.3 | N 4 02.1 | 280 13.8 | N20 11.1 | 224 46.7 | S 0 43.9 | 78 03.7 | S12 45.3 | Schedar | 349 58.2 | N56 29.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 65 18.7 | 55 45.2 | 02.3 | 295 15.0 | 10.7 | 239 49.3 | 43.9 | 93 06.1 | 45.2 | Shaula | 96 42.0 | S37 05.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 80 21.1 | 70 46.2 | 02.6 | 310 16.1 | 10.3 | 254 51.9 | 43.8 | 108 08.4 | 45.2 | Sirius | 258 47.2 | S16 42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 95 23.6 | 85 47.1 | 02.9 | 325 17.3 | 10.0 | 269 54.5 | 43.8 | 123 10.8 | 45.2 | Spica | 158 46.8 | S11 07.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 110 26.1 | 100 48.0 | 03.1 | 340 18.5 | 09.6 | 284 57.1 | 43.7 | 138 13.1 | 45.1 | Suhail | 223 03.6 | S43 24.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 125 28.5 | 115 49.0 | 03.4 | 355 19.6 | 09.2 | 299 59.7 | 43.7 | 153 15.5 | 45.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 140 31.0 | 130 49.9 | N 4 03.6 | 10 20.8 | N20 08.9 | 315 02.3 | S 0 43.6 | 168 17.8 | S12 45.1 | Vega | 80 48.8 | N38 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 155 33.5 | 145 50.8 | 03.9 | 25 21.9 | 08.5 | 330 04.9 | 43.6 | 183 20.2 | 45.0 | Zuben'ubi | 137 21.7 | S16 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 170 35.9 | 160 51.8 | 04.2 | 40 23.1 | 08.1 | 345 07.5 | 43.5 | 198 22.5 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 185 38.4 | 175 52.7 | 04.4 | 55 24.3 | 07.8 | 0 10.1 | 43.5 | 213 24.9 | 45.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 200 40.8 | 190 53.6 | 04.7 | 70 25.4 | 07.4 | 15 12.7 | 43.4 | 228 27.2 | 44.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 215 43.3 | 205 54.5 | 05.0 | 85 26.6 | 07.0 | 30 15.3 | 43.4 | 243 29.6 | 44.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%;"></td> <td style="width:15%; text-align: center;">h</td> <td style="width:15%; text-align: center;">m</td> <td style="width:15%;"></td> <td style="width:15%; text-align: center;">A. H. S.</td> <td style="width:15%; text-align: center;">Pas.</td> <td style="width:15%; text-align: center;">Mer.</td> </tr> <tr> <td>Pas. Mer. 8</td> <td>43.4</td> <td></td> <td>v 1.0</td> <td>d 0.2</td> <td>v 1.2</td> <td>d 0.4</td> </tr> <tr> <td></td> <td></td> <td></td> <td>v 2.6</td> <td>d 0.1</td> <td>v 2.3</td> <td>d 0.0</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">o</td> <td style="text-align: center;">h</td> </tr> <tr> <td>Venus</td> <td>351</td> <td>21.7</td> <td>9</td> <td>19</td> <td></td> <td></td> </tr> <tr> <td>Marte</td> <td>230</td> <td>44.4</td> <td>17</td> <td>21</td> <td></td> <td></td> </tr> <tr> <td>Júpiter</td> <td>174</td> <td>25.4</td> <td>21</td> <td>03</td> <td></td> <td></td> </tr> <tr> <td>Saturno</td> <td>27</td> <td>51.7</td> <td>6</td> <td>52</td> <td></td> <td></td> </tr> </table> | | | | | | | | | | | | | | | | h | m | | A. H. S. | Pas. | Mer. | Pas. Mer. 8 | 43.4 | | v 1.0 | d 0.2 | v 1.2 | d 0.4 | | | | v 2.6 | d 0.1 | v 2.3 | d 0.0 | | | | | | o | h | Venus | 351 | 21.7 | 9 | 19 | | | Marte | 230 | 44.4 | 17 | 21 | | | Júpiter | 174 | 25.4 | 21 | 03 | | | Saturno | 27 | 51.7 | 6 | 52 | | |
| | h | m | | A. H. S. | Pas. | Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. 8 | 43.4 | | v 1.0 | d 0.2 | v 1.2 | d 0.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | v 2.6 | d 0.1 | v 2.3 | d 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | o | h | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Venus | 351 | 21.7 | 9 | 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marte | 230 | 44.4 | 17 | 21 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Júpiter | 174 | 25.4 | 21 | 03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saturno | 27 | 51.7 | 6 | 52 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|-----------------|---------------|-------------------|---------------|------|------|------|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 10 | 11 | 12 | 13 |
| | | | | | | | | | | | | h m | h m | h m | h m |
| 10 LUNES | 00 | 180 54.4 N17 34.0 | 308 18.6 8.8 | S20 | 47.6 | 4.8 | 56.9 | N 72 | □ | □ | □ | ■ | 04 14 | 02 47 | 02 19 |
| | 01 | 195 54.4 34.6 | 322 46.4 9.0 | 20 | 42.8 | 5.0 | 56.9 | N 70 | /// | /// | 01 23 | ■ | 02 40 | 02 16 | 02 02 |
| | 02 | 210 54.5 35.3 | 337 14.4 9.0 | 20 | 37.8 | 5.1 | 56.9 | 68 | /// | /// | 02 09 | 02 10 | 02 00 | 01 53 | 01 47 |
| | 03 | 225 54.5 35.9 | 351 42.4 9.1 | 20 | 32.7 | 5.2 | 56.8 | 66 | /// | 00 25 | 02 38 | 01 24 | 01 32 | 01 35 | 01 36 |
| | 04 | 240 54.5 36.6 | 6 10.5 9.3 | 20 | 27.5 | 5.3 | 56.8 | 64 | /// | 01 34 | 03 00 | 00 54 | 01 11 | 01 20 | 01 26 |
| | 05 | 255 54.5 37.3 | 20 38.8 9.2 | 20 | 22.2 | 5.4 | 56.8 | 62 | /// | 02 08 | 03 18 | 00 31 | 00 53 | 01 07 | 01 17 |
| | 06 | 270 54.5 N17 37.9 | 35 07.0 9.4 | S20 | 16.8 | 5.5 | 56.7 | 60 | 00 22 | 02 32 | 03 32 | 00 13 | 00 39 | 00 57 | 01 10 |
| | 07 | 285 54.6 38.6 | 49 35.4 9.5 | 20 | 11.3 | 5.6 | 56.7 | N 58 | 01 24 | 02 51 | 03 44 | 24 27 | 00 27 | 00 48 | 01 04 |
| | 08 | 300 54.6 39.2 | 64 03.9 9.5 | 20 | 05.7 | 5.7 | 56.7 | 56 | 01 55 | 03 07 | 03 55 | 24 16 | 00 16 | 00 39 | 00 58 |
| | 09 | 315 54.6 39.9 | 78 32.4 9.6 | 20 | 00.0 | 5.8 | 56.6 | 54 | 02 18 | 03 20 | 04 04 | 24 07 | 00 07 | 00 32 | 00 53 |
| | 10 | 330 54.6 40.5 | 93 01.0 9.8 | 19 | 54.2 | 5.9 | 56.6 | 52 | 02 36 | 03 31 | 04 13 | 23 58 | 24 26 | 00 26 | 00 48 |
| | 11 | 345 54.7 41.2 | 107 29.8 9.8 | 19 | 48.3 | 6.0 | 56.6 | 50 | 02 51 | 03 41 | 04 20 | 23 51 | 24 20 | 00 20 | 00 44 |
| | 12 | 0 54.7 N17 41.8 | 121 58.6 9.8 | S19 | 42.3 | 6.1 | 56.5 | 45 | 03 20 | 04 02 | 04 36 | 23 34 | 24 07 | 00 07 | 00 35 |
| | 13 | 15 54.7 42.5 | 136 27.4 10.0 | 19 | 36.2 | 6.2 | 56.5 | N 40 | 03 41 | 04 19 | 04 49 | 23 21 | 23 56 | 24 27 | 00 27 |
| | 14 | 30 54.7 43.1 | 150 56.4 10.1 | 19 | 30.0 | 6.3 | 56.5 | 35 | 03 58 | 04 32 | 05 00 | 23 10 | 23 47 | 24 20 | 00 20 |
| | 15 | 45 54.8 43.8 | 165 25.5 10.1 | 19 | 23.7 | 6.4 | 56.4 | 30 | 04 12 | 04 43 | 05 09 | 23 00 | 23 39 | 24 15 | 00 15 |
| | 16 | 60 54.8 44.4 | 179 54.6 10.2 | 19 | 17.3 | 6.5 | 56.4 | 20 | 04 34 | 05 02 | 05 26 | 22 43 | 23 25 | 24 04 | 00 04 |
| | 17 | 75 54.8 45.1 | 194 23.8 10.3 | 19 | 10.8 | 6.5 | 56.4 | N 10 | 04 52 | 05 18 | 05 40 | 22 28 | 23 13 | 23 56 | 24 35 |
| | 18 | 90 54.8 N17 45.7 | 208 53.1 10.4 | S19 | 04.3 | 6.7 | 56.3 | 0 | 05 06 | 05 31 | 05 53 | 22 14 | 23 02 | 23 47 | 24 30 |
| | 19 | 105 54.8 46.4 | 223 22.5 10.5 | 18 | 57.6 | 6.7 | 56.3 | S 10 | 05 18 | 05 44 | 06 06 | 21 59 | 22 50 | 23 39 | 24 25 |
| | 20 | 120 54.9 47.0 | 237 52.0 10.6 | 18 | 50.9 | 6.9 | 56.3 | 20 | 05 30 | 05 56 | 06 20 | 21 44 | 22 38 | 23 30 | 24 19 |
| | 21 | 135 54.9 47.7 | 252 21.6 10.6 | 18 | 44.0 | 6.9 | 56.2 | 30 | 05 41 | 06 10 | 06 35 | 21 27 | 22 24 | 23 19 | 24 13 |
| | 22 | 150 54.9 48.3 | 266 51.2 10.7 | 18 | 37.1 | 7.0 | 56.2 | 35 | 05 47 | 06 17 | 06 44 | 21 17 | 22 16 | 23 13 | 24 09 |
| 23 | 165 54.9 48.9 | 281 20.9 10.9 | 18 | 30.1 | 7.1 | 56.2 | 40 | 05 53 | 06 26 | 06 54 | 21 05 | 22 07 | 23 07 | 24 05 | |
| 11 MARTES | 00 | 180 54.9 N17 49.6 | 295 50.8 10.9 | S18 | 23.0 | 7.2 | 56.1 | 45 | 06 00 | 06 35 | 07 07 | 20 52 | 21 56 | 22 59 | 24 00 |
| | 01 | 195 55.0 50.2 | 310 20.7 10.9 | 18 | 15.8 | 7.2 | 56.1 | S 50 | 06 07 | 06 46 | 07 21 | 20 35 | 21 42 | 22 49 | 23 55 |
| | 02 | 210 55.0 50.9 | 324 50.6 11.1 | 18 | 08.6 | 7.4 | 56.1 | 52 | 06 10 | 06 51 | 07 28 | 20 27 | 21 36 | 22 45 | 23 52 |
| | 03 | 225 55.0 51.5 | 339 20.7 11.2 | 18 | 01.2 | 7.4 | 56.0 | 54 | 06 13 | 06 56 | 07 35 | 20 18 | 21 29 | 22 40 | 23 49 |
| | 04 | 240 55.0 52.2 | 353 50.9 11.2 | 17 | 53.8 | 7.5 | 56.0 | 56 | 06 17 | 07 02 | 07 44 | 20 08 | 21 22 | 22 34 | 23 46 |
| | 05 | 255 55.0 52.8 | 8 21.1 11.3 | 17 | 46.3 | 7.6 | 56.0 | 58 | 06 20 | 07 08 | 07 53 | 19 57 | 21 13 | 22 28 | 23 42 |
| | 06 | 270 55.1 N17 53.4 | 22 51.4 11.4 | S17 | 38.7 | 7.7 | 55.9 | S 60 | 06 24 | 07 16 | 08 04 | 19 44 | 21 03 | 22 21 | 23 38 |
| | 07 | 285 55.1 54.1 | 37 21.8 11.5 | 17 | 31.0 | 7.7 | 55.9 | | | | | | | | |
| | 08 | 300 55.1 54.7 | 51 52.3 11.6 | 17 | 23.3 | 7.8 | 55.9 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| | 09 | 315 55.1 55.4 | 66 22.9 11.6 | 17 | 15.5 | 7.9 | 55.9 | | | | | 10 | 11 | 12 | 13 |
| | 10 | 330 55.1 56.0 | 80 53.5 11.7 | 17 | 07.6 | 8.0 | 55.8 | | | | | | | | |
| | 11 | 345 55.1 56.6 | 95 24.2 11.8 | 16 | 59.6 | 8.0 | 55.8 | | | | | | | | |
| | 12 | 0 55.2 N17 57.3 | 109 55.0 11.9 | S16 | 51.6 | 8.1 | 55.8 | N 72 | □ | □ | □ | ■ | 04 51 | 07 56 | 09 57 |
| | 13 | 15 55.2 57.9 | 124 25.9 12.0 | 16 | 43.5 | 8.2 | 55.7 | N 70 | 22 37 | /// | /// | ■ | 06 24 | 08 26 | 10 13 |
| | 14 | 30 55.2 58.6 | 138 56.9 12.1 | 16 | 35.3 | 8.2 | 55.7 | 68 | 21 48 | /// | /// | 05 07 | 07 03 | 08 48 | 10 26 |
| | 15 | 45 55.2 59.2 | 153 28.0 12.1 | 16 | 27.1 | 8.3 | 55.7 | 66 | 21 18 | /// | /// | 05 52 | 07 30 | 09 05 | 10 36 |
| | 16 | 60 55.2 59.8 | 167 59.1 12.2 | 16 | 18.8 | 8.4 | 55.6 | 64 | 20 55 | 22 24 | /// | 06 22 | 07 51 | 09 19 | 10 45 |
| | 17 | 75 55.2 60.5 | 182 30.3 12.3 | 16 | 10.4 | 8.5 | 55.6 | 62 | 20 37 | 21 48 | /// | 06 44 | 08 07 | 09 31 | 10 52 |
| | 18 | 90 55.2 N18 01.1 | 197 01.6 12.3 | S16 | 01.9 | 8.5 | 55.6 | 60 | 20 22 | 21 23 | /// | 07 02 | 08 21 | 09 41 | 10 58 |
| | 19 | 105 55.3 01.7 | 211 32.9 12.5 | 15 | 53.4 | 8.6 | 55.6 | N 58 | 20 10 | 21 04 | 22 33 | 07 17 | 08 33 | 09 49 | 11 04 |
| | 20 | 120 55.3 02.4 | 226 04.4 12.5 | 15 | 44.8 | 8.6 | 55.5 | 56 | 19 59 | 20 48 | 22 00 | 07 30 | 08 43 | 09 57 | 11 09 |
| | 21 | 135 55.3 03.0 | 240 35.9 12.6 | 15 | 36.2 | 8.7 | 55.5 | 54 | 19 50 | 20 34 | 21 37 | 07 41 | 08 52 | 10 03 | 11 13 |
| | 22 | 150 55.3 03.6 | 255 07.5 12.6 | 15 | 27.5 | 8.8 | 55.5 | 52 | 19 41 | 20 23 | 21 19 | 07 51 | 09 00 | 10 09 | 11 17 |
| 23 | 165 55.3 04.3 | 269 39.1 12.8 | 15 | 18.7 | 8.8 | 55.5 | 50 | 19 34 | 20 12 | 21 03 | 07 59 | 09 07 | 10 15 | 11 21 | |
| 12 MIÉRCOLES | 00 | 180 55.3 N18 04.9 | 284 10.9 12.8 | S15 | 09.9 | 8.9 | 55.4 | 45 | 19 18 | 19 51 | 20 34 | 08 18 | 09 22 | 10 26 | 11 29 |
| | 01 | 195 55.3 05.5 | 298 42.7 12.9 | 15 | 01.0 | 9.0 | 55.4 | N 40 | 19 04 | 19 35 | 20 12 | 08 33 | 09 35 | 10 36 | 11 35 |
| | 02 | 210 55.4 06.2 | 313 14.6 12.9 | 14 | 52.0 | 9.0 | 55.4 | 35 | 18 53 | 19 21 | 19 55 | 08 46 | 09 45 | 10 44 | 11 41 |
| | 03 | 225 55.4 06.8 | 327 46.5 13.1 | 14 | 43.0 | 9.1 | 55.3 | 30 | 18 44 | 19 10 | 19 41 | 08 57 | 09 55 | 10 51 | 11 45 |
| | 04 | 240 55.4 07.4 | 342 18.6 13.1 | 14 | 33.9 | 9.1 | 55.3 | 20 | 18 27 | 18 51 | 19 19 | 09 15 | 10 11 | 11 03 | 11 54 |
| | 05 | 255 55.4 08.1 | 356 50.7 13.1 | 14 | 24.8 | 9.2 | 55.3 | N 10 | 18 13 | 18 35 | 19 01 | 09 32 | 10 24 | 11 14 | 12 01 |
| | 06 | 270 55.4 N18 08.7 | 11 22.8 13.3 | S14 | 15.6 | 9.2 | 55.3 | 0 | 18 00 | 18 22 | 18 47 | 09 47 | 10 37 | 11 24 | 12 08 |
| | 07 | 285 55.4 09.3 | 25 55.1 13.3 | 14 | 06.4 | 9.3 | 55.2 | S 10 | 17 47 | 18 09 | 18 34 | 10 02 | 10 50 | 11 34 | 12 15 |
| | 08 | 300 55.4 09.9 | 40 27.4 13.4 | 13 | 57.1 | 9.3 | 55.2 | 20 | 17 33 | 17 56 | 18 23 | 10 18 | 11 04 | 11 44 | 12 22 |
| | 09 | 315 55.4 10.6 | 54 59.8 13.4 | 13 | 47.8 | 9.4 | 55.2 | 30 | 17 17 | 17 42 | 18 11 | 10 37 | 11 19 | 11 56 | 12 30 |
| | 10 | 330 55.5 11.2 | 69 32.2 13.5 | 13 | 38.4 | 9.5 | 55.2 | 35 | 17 08 | 17 35 | 18 05 | 10 47 | 11 28 | 12 03 | 12 35 |
| | 11 | 345 55.5 11.8 | 84 04.7 13.6 | 13 | 28.9 | 9.5 | 55.1 | 40 | 16 58 | 17 27 | 17 59 | 11 00 | 11 38 | 12 11 | 12 40 |
| | 12 | 0 55.5 N18 12.4 | 98 37.3 13.7 | S13 | 19.4 | 9.5 | 55.1 | 45 | 16 46 | 17 17 | 17 53 | 11 14 | 11 50 | 12 20 | 12 46 |
| | 13 | 15 55.5 13.1 | 113 10.0 13.7 | 13 | 09.9 | 9.6 | 55.1 | S 50 | 16 31 | 17 06 | 17 45 | 11 32 | 12 04 | 12 31 | 12 53 |
| | 14 | 30 55.5 13.7 | 127 42.7 13.7 | 13 | 00.3 | 9.7 | 55.1 | 52 | 16 24 | 17 01 | 17 42 | 11 40 | 12 11 | 12 36 | 12 57 |
| | 15 | 45 55.5 14.3 | 142 15.4 13.9 | 12 | 50.6 | 9.6 | 55.1 | 54 | 16 17 | 16 56 | 17 39 | 11 49 | 12 18 | 12 41 | 13 00 |
| | 16 | 60 55.5 14.9 | 156 48.3 13.9 | 12 | 41.0 | 9.8 | 55.0 | 56 | 16 08 | 16 50 | 17 35 | 11 59 | 12 27 | 12 48 | 13 04 |
| | 17 | 75 55.5 15.6 | 171 21.2 14.0 | 12 | 31.2 | 9.8 | 55.0 | 58 | 15 59 | 16 43 | 17 32 | 12 11 | 12 36 | 12 54 | 13 09 |
| | 18 | 90 55.5 N18 16.2 | 185 54.2 14.0 | S12 | 21.4 | 9.8 | 55.0 | S 60 | 15 48 | 16 36 | 17 27 | 12 25 | 12 46 | 13 02 | 13 14 |
| | 19 | 105 55.5 16.8 | 200 27.2 14.1 | 12 | 11.6 | 9.9 | 55.0 | | | | | | | | |
| | 20 | 120 55.5 17.4 | 215 00.3 14.1 | 12 | 01.7 | 9.9 | 54.9 | Día | E.T. (+) | Pas. Mer. | Pas. Mer. | Sup. | Inf. | Edad. | Fase |
| | 21 | 135 55.6 18.1 | 229 33.4 14.2 | 11 | 51.8 | 9.9 | 54.9 | | 00 h | 12 h | | | | | |
| | 22 | 150 55.6 18.7 | 244 06.6 14.3 | 11 | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.5 | MARTE +1.2 | JUPITER -2.3 | SATURNO +0.9 | ESTRELLAS | | |
|-------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|----------|----------|
| d h | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre | A. H. S. | Dec. |
| 13 00 | 230 45.8 | 220 55.5 N 4 05.3 | 100 27.8 N20 06.7 | 45 17.9 S 0 43.3 | 258 31.9 S12 44.9 | Acamar | 315 30.1 | S40 19.8 |
| 01 | 245 48.2 | 235 56.4 | 115 28.9 | 60 20.5 | 273 34.3 | Achernar | 335 38.4 | S57 16.0 |
| 02 | 260 50.7 | 250 57.3 | 130 30.1 | 75 23.1 | 288 36.6 | AcruX | 173 25.7 | S63 04.1 |
| 03 | 275 53.2 | 265 58.2 | 145 31.2 | 90 25.6 | 303 39.0 | Adhara | 255 24.6 | S28 58.0 |
| 04 | 290 55.6 | 280 59.1 | 160 32.4 | 105 28.2 | 318 41.4 | Aldebaran | 291 07.0 | N16 29.7 |
| 05 | 305 58.1 | 296 00.0 | 175 33.6 | 120 30.8 | 333 43.7 | | | |
| 06 | 321 00.6 | 311 00.9 N 4 06.9 | 190 34.7 N20 04.5 | 135 33.4 S 0 43.0 | 348 46.1 S12 44.7 | Alioth | 166 33.3 | N55 59.8 |
| 07 | 336 03.0 | 326 01.8 | 205 35.9 | 150 36.0 | 3 48.4 | Alkaid | 153 10.2 | N49 20.8 |
| 08 | 351 05.5 | 341 02.8 | 220 37.0 | 165 38.6 | 18 50.8 | Al Na'ir | 28 02.5 | S46 59.3 |
| J 09 | 6 08.0 | 356 03.7 | 235 38.2 | 180 41.2 | 33 53.1 | Alnilam | 276 01.9 | S 1 12.5 |
| U 10 | 21 10.4 | 11 04.6 | 250 39.4 | 195 43.8 | 48 55.5 | Alphard | 218 10.9 | S 8 38.0 |
| 11 | 36 12.9 | 26 05.5 | 265 40.5 | 210 46.4 | 63 57.8 | | | |
| 12 | 51 15.3 | 41 06.4 N 4 08.6 | 280 41.7 N20 02.2 | 225 49.0 S 0 42.8 | 79 00.2 S12 44.5 | Alphecca | 126 23.3 | N26 44.1 |
| 13 | 66 17.8 | 56 07.3 | 295 42.8 | 240 51.6 | 94 02.5 | Alpheratz | 357 59.3 | N29 03.1 |
| 14 | 81 20.3 | 71 08.2 | 310 44.0 | 255 54.2 | 109 04.9 | Altair | 62 22.7 | N 8 51.0 |
| 15 | 96 22.7 | 86 09.1 | 325 45.1 | 270 56.8 | 124 07.2 | Ankaa | 353 30.7 | S42 20.3 |
| 16 | 111 25.2 | 101 09.9 | 340 46.3 | 285 59.4 | 139 09.6 | Antares | 112 44.3 | S26 25.1 |
| 17 | 126 27.7 | 116 10.8 | 355 47.5 | 301 02.0 | 154 12.0 | | | |
| 18 | 141 30.1 | 131 11.7 N 4 10.4 | 10 48.6 N20 00.0 | 316 04.6 S 0 42.5 | 169 14.3 S12 44.3 | Arcturus | 146 09.1 | N19 12.9 |
| 19 | 156 32.6 | 146 12.6 | 25 49.8 | 331 07.2 | 184 16.7 | Atria | 107 59.2 | S69 00.9 |
| 20 | 171 35.1 | 161 13.5 | 40 50.9 | 346 09.8 | 199 19.0 | Avior | 234 24.4 | S59 29.7 |
| 21 | 186 37.5 | 176 14.4 | 55 52.1 | 1 12.3 | 214 21.4 | Bellatrix | 278 48.4 | N 6 20.6 |
| 22 | 201 40.0 | 191 15.3 | 70 53.3 | 16 14.9 | 229 23.7 | Betelgeuse | 271 17.8 | N 7 24.3 |
| 23 | 216 42.4 | 206 16.1 | 85 54.4 | 31 17.5 | 244 26.1 | | | |
| 14 00 | 231 44.9 | 221 17.0 N 4 12.2 | 100 55.6 N19 57.8 | 46 20.1 S 0 42.2 | 259 28.5 S12 44.1 | Canopus | 264 03.2 | S52 41.8 |
| 01 | 246 47.4 | 236 17.9 | 115 56.7 | 61 22.7 | 274 30.8 | Capella | 280 57.1 | N45 59.5 |
| 02 | 261 49.8 | 251 18.8 | 130 57.9 | 76 25.3 | 289 33.2 | Deneb | 49 41.6 | N45 15.2 |
| 03 | 276 52.3 | 266 19.6 | 145 59.0 | 91 27.9 | 304 35.5 | Denebola | 182 48.8 | N14 36.4 |
| 04 | 291 54.8 | 281 20.5 | 161 00.2 | 106 30.5 | 319 37.9 | Diphda | 349 11.2 | S18 01.3 |
| 05 | 306 57.2 | 296 21.4 | 176 01.4 | 121 33.1 | 334 40.2 | | | |
| 06 | 321 59.7 | 311 22.3 N 4 14.0 | 191 02.5 N19 55.6 | 136 35.7 S 0 42.0 | 349 42.6 S12 43.9 | Dubhe | 194 09.7 | N61 47.3 |
| 07 | 337 02.2 | 326 23.1 | 206 03.7 | 151 38.3 | 4 44.9 | Elnath | 278 32.0 | N28 36.1 |
| 08 | 352 04.6 | 341 24.0 | 221 04.8 | 166 40.8 | 19 47.3 | Eltanin | 90 52.7 | N51 29.2 |
| V 09 | 7 07.1 | 356 24.9 | 236 06.0 | 181 43.4 | 34 49.7 | Enif | 34 01.9 | N 9 50.6 |
| 10 | 22 09.6 | 11 25.7 | 251 07.1 | 196 46.0 | 49 52.0 | Fomalhaut | 15 40.6 | S29 39.3 |
| 11 | 37 12.0 | 26 26.6 | 266 08.3 | 211 48.6 | 64 54.4 | | | |
| 12 | 52 14.5 | 41 27.4 N 4 15.9 | 281 09.5 N19 53.3 | 226 51.2 S 0 41.7 | 79 56.7 S12 43.7 | Gacrux | 172 17.3 | S57 04.9 |
| 13 | 67 16.9 | 56 28.3 | 296 10.6 | 241 53.8 | 94 59.1 | Gienah | 176 07.6 | S17 30.6 |
| 14 | 82 19.4 | 71 29.1 | 311 11.8 | 256 56.4 | 110 01.5 | Hadar | 149 08.7 | S60 20.7 |
| 15 | 97 21.9 | 86 30.0 | 326 12.9 | 271 59.0 | 125 03.8 | Hamal | 328 18.1 | N23 25.8 |
| 16 | 112 24.3 | 101 30.8 | 341 14.1 | 287 01.6 | 140 06.2 | Kaus Aust. | 84 03.4 | S34 23.2 |
| 17 | 127 26.8 | 116 31.7 | 356 15.2 | 302 04.1 | 155 08.5 | | | |
| 18 | 142 29.3 | 131 32.5 N 4 17.8 | 11 16.4 N19 51.1 | 317 06.7 S 0 41.4 | 170 10.9 S12 43.6 | Kochab | 137 18.2 | N74 11.0 |
| 19 | 157 31.7 | 146 33.4 | 26 17.6 | 332 09.3 | 185 13.2 | Markab | 13 53.4 | N15 10.1 |
| 20 | 172 34.2 | 161 34.2 | 41 18.7 | 347 11.9 | 200 15.6 | Menkar | 314 31.1 | N 4 03.8 |
| 21 | 187 36.7 | 176 35.1 | 56 19.9 | 2 14.5 | 215 18.0 | Menkent | 148 25.0 | S36 20.5 |
| 22 | 202 39.1 | 191 35.9 | 71 21.0 | 17 17.1 | 230 20.3 | Miaplacidus | 221 43.0 | S69 41.8 |
| 23 | 217 41.6 | 206 36.8 | 86 22.2 | 32 19.7 | 245 22.7 | | | |
| 15 00 | 232 44.1 | 221 37.6 N 4 19.7 | 101 23.3 N19 48.8 | 47 22.2 S 0 41.2 | 260 25.0 S12 43.4 | Mirfak | 309 02.4 | N49 50.2 |
| 01 | 247 46.5 | 236 38.4 | 116 24.5 | 62 24.8 | 275 27.4 | Nunki | 76 16.7 | S26 18.2 |
| 02 | 262 49.0 | 251 39.3 | 131 25.6 | 77 27.4 | 290 29.8 | Peacock | 53 42.6 | S56 45.1 |
| 03 | 277 51.4 | 266 40.1 | 146 26.8 | 92 30.0 | 305 32.1 | Pollux | 243 46.2 | N28 02.5 |
| 04 | 292 53.9 | 281 40.9 | 161 27.9 | 107 32.6 | 320 34.5 | Procyon | 245 15.6 | N 5 14.4 |
| 05 | 307 56.4 | 296 41.8 | 176 29.1 | 122 35.2 | 335 36.8 | | | |
| 06 | 322 58.8 | 311 42.6 N 4 21.7 | 191 30.3 N19 46.6 | 137 37.7 S 0 40.9 | 350 39.2 S12 43.2 | Rasalhague | 96 20.1 | N12 33.8 |
| 07 | 338 01.3 | 326 43.4 | 206 31.4 | 152 40.3 | 5 41.6 | Regulus | 207 59.4 | N11 59.9 |
| 08 | 353 03.8 | 341 44.2 | 221 32.6 | 167 42.9 | 20 43.9 | Rigel | 281 26.8 | S 8 12.7 |
| S 09 | 8 06.2 | 356 45.1 | 236 33.7 | 182 45.5 | 35 46.3 | Rigil Kent. | 140 11.6 | S60 48.6 |
| A 10 | 23 08.7 | 11 45.9 | 251 34.9 | 197 48.1 | 50 48.7 | Sabik | 102 29.5 | S15 43.0 |
| 11 | 38 11.2 | 26 46.7 | 266 36.0 | 212 50.7 | 65 51.0 | | | |
| A 12 | 53 13.6 | 41 47.5 N 4 23.8 | 281 37.2 N19 44.3 | 227 53.2 S 0 40.7 | 80 53.4 S12 43.0 | Schedar | 349 58.2 | N56 29.9 |
| D 13 | 68 16.1 | 56 48.3 | 296 38.3 | 242 55.8 | 95 55.7 | Shaula | 96 41.9 | S37 05.9 |
| O 14 | 83 18.5 | 71 49.2 | 311 39.5 | 257 58.4 | 110 58.1 | Sirius | 258 47.2 | S16 42.6 |
| 15 | 98 21.0 | 86 50.0 | 326 40.6 | 273 01.0 | 126 00.5 | Spica | 158 46.8 | S11 07.8 |
| 16 | 113 23.5 | 101 50.8 | 341 41.8 | 288 03.6 | 141 02.8 | Suhail | 223 03.6 | S43 24.7 |
| 17 | 128 25.9 | 116 51.6 | 356 42.9 | 303 06.1 | 156 05.2 | | | |
| 18 | 143 28.4 | 131 52.4 N 4 25.8 | 11 44.1 N19 42.0 | 318 08.7 S 0 40.5 | 171 07.6 S12 42.9 | Vega | 80 48.8 | N38 46.5 |
| 19 | 158 30.9 | 146 53.2 | 26 45.2 | 333 11.3 | 186 09.9 | Zuben'ubi | 137 21.7 | S16 01.0 |
| 20 | 173 33.3 | 161 54.0 | 41 46.4 | 348 13.9 | 201 12.3 | | | |
| 21 | 188 35.8 | 176 54.8 | 56 47.6 | 3 16.5 | 216 14.6 | | | |
| 22 | 203 38.3 | 191 55.6 | 71 48.7 | 18 19.0 | 231 17.0 | Venus | 349 32.1 | h 9 14 |
| 23 | 218 40.7 | 206 56.4 | 86 49.9 | 33 21.6 | 246 19.4 | Marte | 229 10.7 | h 17 15 |
| | | | | | | Júpiter | 174 35.2 | h 20 51 |
| | | | | | | Saturno | 27 43.5 | h 6 41 |
| Pas. Mer. 8 | 31.6 | v 0.9 d 0.3 | v 1.2 d 0.4 | v 2.6 d 0.0 | v 2.4 d 0.0 | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|----------------------------|-------------------|-------------------|---------------|------|------|------|------|-----------------|------------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 13 | 14 | 15 | 16 |
| | | | | | | | | | | | | | | | |
| J U E V E S | 13 00 | 180 55.6 N18 19.9 | 273 13.2 14.4 | S11 | 21.8 | 10.1 | 54.9 | N 72 | □ | □ | □ | 02 19 | 02 00 | 01 43 | 01 28 |
| | 01 | 195 55.6 | 287 46.6 14.4 | 11 | 11.7 | 10.1 | 54.8 | N 70 | /// | /// | 00 54 | 02 02 | 01 50 | 01 40 | 01 30 |
| | 02 | 210 55.6 | 302 20.0 14.5 | 11 | 01.6 | 10.1 | 54.8 | 68 | /// | /// | 01 53 | 01 47 | 01 42 | 01 37 | 01 32 |
| | 03 | 225 55.6 | 316 53.5 14.5 | 10 | 51.5 | 10.2 | 54.8 | 66 | /// | /// | 02 26 | 01 36 | 01 35 | 01 35 | 01 34 |
| | 04 | 240 55.6 | 331 27.0 14.6 | 10 | 41.3 | 10.3 | 54.8 | 64 | /// | 01 15 | 02 50 | 01 26 | 01 30 | 01 33 | 01 36 |
| | 05 | 255 55.6 | 346 00.6 14.7 | 10 | 31.0 | 10.2 | 54.8 | 62 | /// | 01 56 | 03 09 | 01 17 | 01 25 | 01 31 | 01 37 |
| | 06 | 270 55.6 N18 23.6 | 0 34.3 14.7 | S10 | 20.8 | 10.3 | 54.7 | 60 | /// | 02 22 | 03 25 | 01 10 | 01 21 | 01 30 | 01 38 |
| | 07 | 285 55.6 | 15 08.0 14.7 | 10 | 10.5 | 10.4 | 54.7 | N 58 | 01 07 | 02 43 | 03 38 | 01 04 | 01 17 | 01 28 | 01 39 |
| | 08 | 300 55.6 | 29 41.7 14.8 | 10 | 00.1 | 10.3 | 54.7 | 56 | 01 44 | 03 00 | 03 49 | 00 58 | 01 13 | 01 27 | 01 40 |
| | 09 | 315 55.6 | 44 15.5 14.9 | 9 | 49.3 | 10.4 | 54.7 | 54 | 02 09 | 03 14 | 03 59 | 00 53 | 01 10 | 01 26 | 01 41 |
| | 10 | 330 55.6 | 58 49.4 14.9 | 9 | 39.4 | 10.5 | 54.7 | 52 | 02 29 | 03 26 | 04 08 | 00 48 | 01 07 | 01 25 | 01 42 |
| | 11 | 345 55.6 | 73 23.3 14.9 | 9 | 28.9 | 10.4 | 54.7 | 50 | 02 45 | 03 36 | 04 16 | 00 44 | 01 05 | 01 24 | 01 43 |
| | 12 | 0 55.6 N18 27.3 | 87 57.2 15.0 | S 9 | 18.5 | 10.5 | 54.6 | 45 | 03 15 | 03 58 | 04 32 | 00 35 | 00 59 | 01 22 | 01 44 |
| | 13 | 15 55.6 | 102 31.2 15.0 | 9 | 08.0 | 10.6 | 54.6 | N 40 | 03 38 | 04 15 | 04 46 | 00 27 | 00 55 | 01 20 | 01 45 |
| | 14 | 30 55.7 | 117 05.2 15.1 | 8 | 57.4 | 10.5 | 54.6 | 35 | 03 55 | 04 29 | 04 57 | 00 20 | 00 51 | 01 19 | 01 47 |
| | 15 | 45 55.7 | 131 39.3 15.1 | 8 | 46.9 | 10.6 | 54.6 | 30 | 04 10 | 04 41 | 05 07 | 00 15 | 00 47 | 01 18 | 01 48 |
| | 16 | 60 55.7 | 146 13.4 15.2 | 8 | 36.3 | 10.6 | 54.6 | 20 | 04 33 | 05 01 | 05 24 | 00 04 | 00 41 | 01 15 | 01 49 |
| | 17 | 75 55.7 | 160 47.6 15.2 | 8 | 25.7 | 10.7 | 54.6 | N 10 | 04 51 | 05 17 | 05 39 | 24 35 | 00 35 | 01 13 | 01 51 |
| | 18 | 90 55.7 N18 31.0 | 175 21.8 15.2 | S 8 | 15.0 | 10.7 | 54.5 | 0 | 05 06 | 05 31 | 05 53 | 24 30 | 00 30 | 01 11 | 01 52 |
| | 19 | 105 55.7 | 189 56.0 15.3 | 8 | 04.3 | 10.7 | 54.5 | S 10 | 05 19 | 05 44 | 06 06 | 24 25 | 00 25 | 01 10 | 01 54 |
| | 20 | 120 55.7 | 204 30.3 15.3 | 7 | 53.6 | 10.7 | 54.5 | 20 | 05 31 | 05 58 | 06 21 | 24 19 | 00 19 | 01 08 | 01 56 |
| | 21 | 135 55.7 | 219 04.6 15.4 | 7 | 42.9 | 10.7 | 54.5 | 30 | 05 43 | 06 12 | 06 37 | 24 13 | 00 13 | 01 05 | 01 57 |
| | 22 | 150 55.7 | 233 39.0 15.4 | 7 | 32.2 | 10.8 | 54.5 | 35 | 05 49 | 06 20 | 06 47 | 24 09 | 00 09 | 01 04 | 01 59 |
| 23 | 165 55.7 | 248 13.4 15.4 | 7 | 21.4 | 10.8 | 54.5 | 40 | 05 55 | 06 28 | 06 57 | 24 05 | 00 05 | 01 03 | 02 00 | |
| 14 00 | 180 55.7 N18 34.6 | 262 47.8 15.5 | S 7 | 10.6 | 10.8 | 54.5 | 45 | 06 02 | 06 38 | 07 10 | 24 00 | 00 00 | 01 01 | 02 01 | |
| 01 | 195 55.7 | 277 22.3 15.5 | 6 | 59.8 | 10.9 | 54.4 | S 50 | 06 10 | 06 50 | 07 25 | 23 55 | 24 59 | 00 59 | 02 03 | |
| 02 | 210 55.7 | 291 56.8 15.5 | 6 | 48.9 | 10.9 | 54.4 | 52 | 06 14 | 06 55 | 07 32 | 23 52 | 24 58 | 00 58 | 02 04 | |
| 03 | 225 55.7 | 306 31.3 15.6 | 6 | 38.0 | 10.8 | 54.4 | 54 | 06 17 | 07 01 | 07 40 | 23 49 | 24 57 | 00 57 | 02 05 | |
| 04 | 240 55.7 | 321 05.9 15.6 | 6 | 27.2 | 11.0 | 54.4 | 56 | 06 21 | 07 07 | 07 49 | 23 46 | 24 56 | 00 56 | 02 06 | |
| 05 | 255 55.7 | 335 40.5 15.7 | 6 | 16.2 | 10.9 | 54.4 | 58 | 06 25 | 07 14 | 07 59 | 23 42 | 24 55 | 00 55 | 02 07 | |
| 06 | 270 55.7 N18 38.2 | 350 15.2 15.6 | S 6 | 05.3 | 10.9 | 54.4 | S 60 | 06 30 | 07 22 | 08 11 | 23 38 | 24 53 | 00 53 | 02 08 | |
| 07 | 285 55.7 | 4 49.8 15.7 | 5 | 54.4 | 11.0 | 54.4 | | | | | | | | | |
| 08 | 300 55.7 | 19 24.5 15.7 | 5 | 43.4 | 11.0 | 54.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | |
| 09 | 315 55.7 | 33 59.2 15.8 | 5 | 32.4 | 11.0 | 54.3 | | | | | 13 | 14 | 15 | 16 | |
| 10 | 330 55.7 | 48 34.0 15.8 | 5 | 21.4 | 11.0 | 54.3 | | | | | | | | | |
| 11 | 345 55.7 | 63 08.8 15.8 | 5 | 10.4 | 11.0 | 54.3 | N 72 | □ | □ | □ | 09 57 | 11 44 | 13 27 | 15 10 | |
| 12 | 0 55.7 N18 41.8 | 77 43.6 15.8 | S 4 | 59.4 | 11.1 | 54.3 | N 70 | 23 11 | /// | /// | 10 13 | 11 52 | 13 28 | 15 03 | |
| 13 | 15 55.7 | 92 18.4 15.8 | 4 | 48.3 | 11.1 | 54.3 | 68 | 22 05 | /// | /// | 10 26 | 11 58 | 13 28 | 14 58 | |
| 14 | 30 55.7 | 106 53.2 15.9 | 4 | 37.2 | 11.0 | 54.3 | 66 | 21 30 | /// | /// | 10 36 | 12 03 | 13 28 | 14 54 | |
| 15 | 45 55.7 | 121 28.1 15.9 | 4 | 26.2 | 11.1 | 54.3 | 64 | 21 05 | 22 44 | /// | 10 45 | 12 07 | 13 29 | 14 50 | |
| 16 | 60 55.7 | 136 03.0 15.9 | 4 | 15.1 | 11.1 | 54.3 | 62 | 20 45 | 22 01 | /// | 10 52 | 12 11 | 13 29 | 14 47 | |
| 17 | 75 55.7 | 150 37.9 16.0 | 4 | 04.0 | 11.2 | 54.3 | 60 | 20 29 | 21 33 | /// | 10 58 | 12 14 | 13 29 | 14 44 | |
| 18 | 90 55.7 N18 45.4 | 165 12.9 15.9 | S 3 | 52.8 | 11.1 | 54.3 | N 58 | 20 16 | 21 12 | 22 51 | 11 04 | 12 17 | 13 29 | 14 41 | |
| 19 | 105 55.6 | 179 47.8 16.0 | 3 | 41.7 | 11.1 | 54.3 | 56 | 20 05 | 20 55 | 22 12 | 11 09 | 12 20 | 13 29 | 14 39 | |
| 20 | 120 55.6 | 194 22.8 16.0 | 3 | 30.6 | 11.2 | 54.2 | 54 | 19 55 | 20 40 | 21 46 | 11 13 | 12 22 | 13 30 | 14 37 | |
| 21 | 135 55.6 | 208 57.8 16.0 | 3 | 19.4 | 11.1 | 54.2 | 52 | 19 46 | 20 28 | 21 26 | 11 17 | 12 24 | 13 30 | 14 35 | |
| 22 | 150 55.6 | 223 32.8 16.0 | 3 | 08.3 | 11.2 | 54.2 | 50 | 19 38 | 20 17 | 21 10 | 11 21 | 12 26 | 13 30 | 14 34 | |
| 23 | 165 55.6 | 238 07.8 16.0 | 2 | 57.1 | 11.2 | 54.2 | 45 | 19 21 | 19 55 | 20 39 | 11 29 | 12 30 | 13 30 | 14 30 | |
| 15 00 | 180 55.6 N18 49.0 | 252 42.8 16.1 | S 2 | 45.9 | 11.2 | 54.2 | N 40 | 19 07 | 19 38 | 20 16 | 11 35 | 12 33 | 13 30 | 14 27 | |
| 01 | 195 55.6 | 267 17.9 16.0 | 2 | 34.7 | 11.2 | 54.2 | 35 | 18 56 | 19 24 | 19 58 | 11 41 | 12 36 | 13 30 | 14 25 | |
| 02 | 210 55.6 | 281 52.9 16.1 | 2 | 23.5 | 11.2 | 54.2 | 30 | 18 46 | 19 12 | 19 43 | 11 45 | 12 38 | 13 31 | 14 23 | |
| 03 | 225 55.6 | 296 28.0 16.1 | 2 | 12.3 | 11.2 | 54.2 | 20 | 18 28 | 18 52 | 19 20 | 11 54 | 12 43 | 13 31 | 14 19 | |
| 04 | 240 55.6 | 311 03.1 16.1 | 2 | 01.1 | 11.2 | 54.2 | N 10 | 18 14 | 18 36 | 19 02 | 12 01 | 12 47 | 13 31 | 14 15 | |
| 05 | 255 55.6 | 325 38.2 16.1 | 1 | 49.9 | 11.3 | 54.2 | 0 | 18 00 | 18 22 | 18 47 | 12 08 | 12 50 | 13 31 | 14 12 | |
| 06 | 270 55.6 N18 52.5 | 340 13.3 16.1 | S 1 | 38.6 | 11.2 | 54.2 | S 10 | 17 46 | 18 08 | 18 34 | 12 15 | 12 54 | 13 31 | 14 09 | |
| 07 | 285 55.6 | 354 48.4 16.1 | 1 | 27.4 | 11.2 | 54.2 | 20 | 17 32 | 17 55 | 18 22 | 12 22 | 12 57 | 13 32 | 14 06 | |
| 08 | 300 55.6 | 9 23.5 16.2 | 1 | 16.2 | 11.3 | 54.2 | 30 | 17 15 | 17 41 | 18 09 | 12 30 | 13 02 | 13 32 | 14 02 | |
| 09 | 315 55.6 | 23 58.7 16.1 | 1 | 04.9 | 11.2 | 54.2 | 35 | 17 06 | 17 33 | 18 03 | 12 35 | 13 04 | 13 32 | 14 00 | |
| 10 | 330 55.6 | 38 33.8 16.1 | 0 | 53.7 | 11.2 | 54.2 | 40 | 16 55 | 17 24 | 17 57 | 12 40 | 13 07 | 13 32 | 13 57 | |
| 11 | 345 55.6 | 53 08.9 16.2 | 0 | 42.5 | 11.3 | 54.2 | 45 | 16 42 | 17 14 | 17 50 | 12 46 | 13 10 | 13 32 | 13 54 | |
| 12 | 0 55.5 N18 56.1 | 67 44.1 16.1 | S 0 | 31.2 | 11.2 | 54.2 | S 50 | 16 27 | 17 02 | 17 42 | 12 53 | 13 13 | 13 32 | 13 51 | |
| 13 | 15 55.5 | 82 19.2 16.2 | 0 | 20.0 | 11.3 | 54.2 | 52 | 16 20 | 16 57 | 17 38 | 12 57 | 13 15 | 13 32 | 13 49 | |
| 14 | 30 55.5 | 96 54.4 16.1 | S 0 | 08.7 | 11.2 | 54.2 | 54 | 16 12 | 16 51 | 17 35 | 13 00 | 13 17 | 13 32 | 13 48 | |
| 15 | 45 55.5 | 111 29.5 16.1 | N 0 | 02.5 | 11.3 | 54.2 | 56 | 16 03 | 16 45 | 17 31 | 13 04 | 13 19 | 13 32 | 13 46 | |
| 16 | 60 55.5 | 126 04.6 16.2 | 0 | 13.8 | 11.2 | 54.2 | 58 | 15 53 | 16 38 | 17 27 | 13 09 | 13 21 | 13 32 | 13 44 | |
| 17 | 75 55.5 | 140 39.8 16.1 | 0 | 25.0 | 11.3 | 54.2 | S 60 | 15 41 | 16 30 | 17 22 | 13 14 | 13 24 | 13 32 | 13 41 | |
| 18 | 90 55.5 N18 59.6 | 155 14.9 16.2 | N 0 | 36.3 | 11.2 | 54.2 | | | | | | | | | |
| 19 | 105 55.5 | 169 50.1 16.1 | 0 | 47.5 | 11.3 | 54.2 | | | | | | | | | |
| 20 | 120 55.5 | 184 25.2 16.1 | 0 | 58.8 | 11.2 | 54.2 | | | | | | | | | |
| 21 | 135 55.5 | 199 00.3 16.2 | 1 | 10.0 | 11.2 | 54.2 | | | | | | | | | |
| 22 | 150 55.5 | 213 35.5 16.1 | 1 | 21.2 | 11.3 | 54.2 | | | | | | | | | |
| 23 | 165 55.4 | 228 10.6 16.1 | 1 | 32.5 | 11.2 | 54.2 | | | | | | | | | |
| | S.D. 15.8 | d 0.6 | S.D. | 14.9 | 14.8 | 14.8 | Día | SO- E.T. (+) | | Pas. Mer. | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.5 | | | MARTE +1.2 | | | JUPITER -2.3 | | | SATURNO +0.9 | | | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|----------|--------------|------------|--------------|---------|------------|----------|--------------|--------------|-------------|--------------|--------------|------|--|-----------|----------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------|------|--|--|--|--|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DOMINGO | 16 00 | 233 43.2 | 221 57.2 N 4 | 28.0 | 101 51.0 N19 | 39.7 | 48 24.2 S | 0 40.2 | 261 21.7 S12 | 42.7 | Acamar | 315 30.1 S40 | 19.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 248 45.7 | 236 58.0 | 28.3 | 116 52.2 | 39.4 | 63 26.8 | 40.2 | 276 24.1 | 42.7 | Achernar | 335 38.4 S57 | 16.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 263 48.1 | 251 58.8 | 28.7 | 131 53.3 | 39.0 | 78 29.3 | 40.1 | 291 26.5 | 42.6 | Acrux | 173 25.7 S63 | 04.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 278 50.6 | 266 59.6 | 29.0 | 146 54.5 | 38.6 | 93 31.9 | 40.1 | 306 28.8 | 42.6 | Adhara | 255 24.6 S28 | 58.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 293 53.0 | 282 00.4 | 29.4 | 161 55.6 | 38.2 | 108 34.5 | 40.1 | 321 31.2 | 42.6 | Aldebaran | 291 07.0 N16 | 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 308 55.5 | 297 01.2 | 29.7 | 176 56.8 | 37.8 | 123 37.1 | 40.0 | 336 33.6 | 42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 323 58.0 | 312 02.0 N 4 | 30.1 | 191 57.9 N19 | 37.5 | 138 39.7 S | 0 40.0 | 351 35.9 S12 | 42.5 | Alioth | 166 33.4 N55 | 59.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 339 00.4 | 327 02.8 | 30.5 | 206 59.1 | 37.1 | 153 42.2 | 40.0 | 6 38.3 | 42.5 | Alkaid | 153 10.2 N49 | 20.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 354 02.9 | 342 03.6 | 30.8 | 222 00.2 | 36.7 | 168 44.8 | 39.9 | 21 40.6 | 42.5 | Al Na'ir | 28 02.5 S46 | 59.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 9 05.4 | 357 04.4 | 31.2 | 237 01.4 | 36.3 | 183 47.4 | 39.9 | 36 43.0 | 42.4 | Alnilam | 276 01.9 S 1 | 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 24 07.8 | 12 05.1 | 31.6 | 252 02.5 | 35.9 | 198 50.0 | 39.8 | 51 45.4 | 42.4 | Alphard | 218 10.9 S 8 | 38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 39 10.3 | 27 05.9 | 31.9 | 267 03.7 | 35.5 | 213 52.5 | 39.8 | 66 47.7 | 42.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 54 12.8 | 42 06.7 N 4 | 32.3 | 282 04.8 N19 | 35.2 | 228 55.1 S | 0 39.8 | 81 50.1 S12 | 42.4 | Alphecca | 126 23.3 N26 | 44.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 69 15.2 | 57 07.5 | 32.7 | 297 06.0 | 34.8 | 243 57.7 | 39.7 | 96 52.5 | 42.3 | Alpheratz | 357 59.3 N29 | 03.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 84 17.7 | 72 08.3 | 33.0 | 312 07.1 | 34.4 | 259 00.3 | 39.7 | 111 54.8 | 42.3 | Altair | 62 22.7 N 8 | 51.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 99 20.2 | 87 09.0 | 33.4 | 327 08.3 | 34.0 | 274 02.8 | 39.7 | 126 57.2 | 42.3 | Ankaa | 353 30.7 S42 | 20.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 114 22.6 | 102 09.8 | 33.8 | 342 09.4 | 33.6 | 289 05.4 | 39.6 | 141 59.6 | 42.3 | Antares | 112 44.3 S26 | 25.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 129 25.1 | 117 10.6 | 34.2 | 357 10.6 | 33.2 | 304 08.0 | 39.6 | 157 01.9 | 42.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 144 27.5 | 132 11.3 N 4 | 34.5 | 12 11.7 N19 | 32.9 | 319 10.6 S | 0 39.5 | 172 04.3 S12 | 42.2 | Arcturus | 146 09.1 N19 | 12.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 159 30.0 | 147 12.1 | 34.9 | 27 12.9 | 32.5 | 334 13.1 | 39.5 | 187 06.7 | 42.2 | Atria | 107 59.2 S69 | 00.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 174 32.5 | 162 12.9 | 35.3 | 42 14.0 | 32.1 | 349 15.7 | 39.5 | 202 09.0 | 42.1 | Avior | 234 24.4 S59 | 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 189 34.9 | 177 13.7 | 35.7 | 57 15.2 | 31.7 | 4 18.3 | 39.4 | 217 11.4 | 42.1 | Bellatrix | 278 48.4 N 6 | 20.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 204 37.4 | 192 14.4 | 36.0 | 72 16.3 | 31.3 | 19 20.8 | 39.4 | 232 13.8 | 42.1 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 219 39.9 | 207 15.2 | 36.4 | 87 17.5 | 30.9 | 34 23.4 | 39.4 | 247 16.1 | 42.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUNES | 17 00 | 234 42.3 | 222 15.9 N 4 | 36.8 | 102 18.6 N19 | 30.5 | 49 26.0 S | 0 39.3 | 262 18.5 S12 | 42.0 | Canopus | 264 03.2 S52 | 41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 249 44.8 | 237 16.7 | 37.2 | 117 19.8 | 30.2 | 64 28.6 | 39.3 | 277 20.9 | 42.0 | Capella | 280 57.1 N45 | 59.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 264 47.3 | 252 17.5 | 37.6 | 132 20.9 | 29.8 | 79 31.1 | 39.3 | 292 23.2 | 42.0 | Deneb | 49 41.6 N45 | 15.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 279 49.7 | 267 18.2 | 37.9 | 147 22.1 | 29.4 | 94 33.7 | 39.2 | 307 25.6 | 42.0 | Denebola | 182 48.8 N14 | 36.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 294 52.2 | 282 19.0 | 38.3 | 162 23.2 | 29.0 | 109 36.3 | 39.2 | 322 28.0 | 41.9 | Diphda | 349 11.2 S18 | 01.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 309 54.6 | 297 19.7 | 38.7 | 177 24.4 | 28.6 | 124 38.8 | 39.1 | 337 30.3 | 41.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 324 57.1 | 312 20.5 N 4 | 39.1 | 192 25.5 N19 | 28.2 | 139 41.4 S | 0 39.1 | 352 32.7 S12 | 41.9 | Dubhe | 194 09.7 N61 | 47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 339 59.6 | 327 21.2 | 39.5 | 207 26.7 | 27.8 | 154 44.0 | 39.1 | 7 35.1 | 41.9 | Elnath | 278 32.0 N28 | 36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 355 02.0 | 342 22.0 | 39.9 | 222 27.8 | 27.5 | 169 46.5 | 39.0 | 22 37.4 | 41.8 | Eltanin | 90 52.7 N51 | 29.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 10 04.5 | 357 22.7 | 40.3 | 237 29.0 | 27.1 | 184 49.1 | 39.0 | 37 39.8 | 41.8 | Enif | 34 01.8 N 9 | 50.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 25 07.0 | 12 23.5 | 40.6 | 252 30.1 | 26.7 | 199 51.7 | 39.0 | 52 42.2 | 41.8 | Fomalhaut | 15 40.6 S29 | 39.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 40 09.4 | 27 24.2 | 41.0 | 267 31.3 | 26.3 | 214 54.3 | 38.9 | 67 44.6 | 41.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 55 11.9 | 42 25.0 N 4 | 41.4 | 282 32.4 N19 | 25.9 | 229 56.8 S | 0 38.9 | 82 46.9 S12 | 41.7 | Gacrux | 172 17.4 S57 | 04.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 70 14.4 | 57 25.7 | 41.8 | 297 33.6 | 25.5 | 244 59.4 | 38.9 | 97 49.3 | 41.7 | Gienah | 176 07.6 S17 | 30.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 85 16.8 | 72 26.5 | 42.2 | 312 34.7 | 25.1 | 260 02.0 | 38.8 | 112 51.7 | 41.7 | Hadar | 149 08.7 S60 | 20.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 100 19.3 | 87 27.2 | 42.6 | 327 35.8 | 24.7 | 275 04.5 | 38.8 | 127 54.0 | 41.6 | Hamal | 328 18.1 N23 | 25.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 115 21.8 | 102 27.9 | 43.0 | 342 37.0 | 24.4 | 290 07.1 | 38.8 | 142 56.4 | 41.6 | Kaus Aust. | 84 03.4 S34 | 23.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 130 24.2 | 117 28.7 | 43.4 | 357 38.1 | 24.0 | 305 09.7 | 38.7 | 157 58.8 | 41.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 145 26.7 | 132 29.4 N 4 | 43.8 | 12 39.3 N19 | 23.6 | 320 12.2 S | 0 38.7 | 173 01.1 S12 | 41.6 | Kochab | 137 18.2 N74 | 11.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 160 29.1 | 147 30.1 | 44.2 | 27 40.4 | 23.2 | 335 14.8 | 38.7 | 188 03.5 | 41.5 | Markab | 13 53.4 N15 | 10.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 175 31.6 | 162 30.9 | 44.6 | 42 41.6 | 22.8 | 350 17.4 | 38.6 | 203 05.9 | 41.5 | Menkar | 314 31.1 N 4 | 03.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 190 34.1 | 177 31.6 | 45.0 | 57 42.7 | 22.4 | 5 19.9 | 38.6 | 218 08.3 | 41.5 | Menkent | 148 25.0 S36 | 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 205 36.5 | 192 32.3 | 45.4 | 72 43.9 | 22.0 | 20 22.5 | 38.6 | 233 10.6 | 41.5 | Miaplacidus | 221 43.0 S69 | 41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 220 39.0 | 207 33.1 | 45.8 | 87 45.0 | 21.6 | 35 25.1 | 38.5 | 248 13.0 | 41.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MARTES | 18 00 | 235 41.5 | 222 33.8 N 4 | 46.2 | 102 46.2 N19 | 21.2 | 50 27.6 S | 0 38.5 | 263 15.4 S12 | 41.4 | Mirfak | 309 02.4 N49 | 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 250 43.9 | 237 34.5 | 46.6 | 117 47.3 | 20.8 | 65 30.2 | 38.5 | 278 17.7 | 41.4 | Nunki | 76 16.6 S26 | 18.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 265 46.4 | 252 35.2 | 47.0 | 132 48.5 | 20.5 | 80 32.8 | 38.4 | 293 20.1 | 41.4 | Peacock | 53 42.5 S56 | 45.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 280 48.9 | 267 36.0 | 47.4 | 147 49.6 | 20.1 | 95 35.3 | 38.4 | 308 22.5 | 41.3 | Pollux | 243 46.3 N28 | 02.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 295 51.3 | 282 36.7 | 47.8 | 162 50.8 | 19.7 | 110 37.9 | 38.4 | 323 24.8 | 41.3 | Procyon | 245 15.6 N 5 | 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 310 53.8 | 297 37.4 | 48.3 | 177 51.9 | 19.3 | 125 40.4 | 38.3 | 338 27.2 | 41.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 325 56.3 | 312 38.1 N 4 | 48.7 | 192 53.0 N19 | 18.9 | 140 43.0 S | 0 38.3 | 353 29.6 S12 | 41.3 | Rasalhague | 96 20.1 N12 | 33.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 340 58.7 | 327 38.8 | 49.1 | 207 54.2 | 18.5 | 155 45.6 | 38.3 | 8 32.0 | 41.2 | Regulus | 207 59.4 N11 | 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 356 01.2 | 342 39.5 | 49.5 | 222 55.3 | 18.1 | 170 48.1 | 38.2 | 23 34.3 | 41.2 | Rigel | 281 26.8 S 8 | 12.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 11 03.6 | 357 40.3 | 49.9 | 237 56.5 | 17.7 | 185 50.7 | 38.2 | 38 36.7 | 41.2 | Rigil Kent. | 140 11.6 S60 | 48.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 26 06.1 | 12 41.0 | 50.3 | 252 57.6 | 17.3 | 200 53.3 | 38.2 | 53 39.1 | 41.2 | Sabik | 102 29.4 S15 | 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 41 08.6 | 27 41.7 | 50.7 | 267 58.8 | 16.9 | 215 55.8 | 38.1 | 68 41.5 | 41.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 56 11.0 | 42 42.4 N 4 | 51.1 | 282 59.9 N19 | 16.5 | 230 58.4 S | 0 38.1 | 83 43.8 S12 | 41.1 | Schedar | 349 58.1 N56 | 29.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 71 13.5 | 57 43.1 | 51.6 | 298 01.1 | 16.2 | 246 00.9 | 38.1 | 98 46.2 | 41.1 | Shaula | 96 41.9 S37 | 05.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 86 16.0 | 72 43.8 | 52.0 | 313 02.2 | 15.8 | 261 03.5 | 38.1 | 113 48.6 | 41.1 | Sirius | 258 47.2 S16 | 42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 101 18.4 | 87 44.5 | 52.4 | 328 03.4 | 15.4 | 276 06.1 | 38.0 | 128 50.9 | 41.0 | Spica | 158 46.8 S11 | 07.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 116 20.9 | 102 45.2 | 52.8 | 343 04.5 | 15.0 | 291 08.6 | 38.0 | 143 53.3 | 41.0 | Suhail | 223 03.6 S43 | 24.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 131 23.4 | 117 45.9 | 53.2 | 358 05.6 | 14.6 | 306 11.2 | 38.0 | 158 55.7 | 41.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 146 25.8 | 132 46.6 N 4 | 53.7 | 13 06.8 N19 | 14.2 | 321 13.7 S | 0 37.9 | 173 58.1 S12 | 41.0 | Vega | 80 48.8 N38 | 46.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 161 28.3 | 147 47.3 | 54.1 | 28 07.9 | 13.8 | 336 16.3 | 37.9 | 189 00.4 | 40.9 | Zuben'ubi | 137 21.7 S16 | 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 176 30.7 | 162 48.0 | 54.5 | 43 09.1 | 13.4 | 351 18.9 | 37.9 | 204 02.8 | 40.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 191 33.2 | 177 48.7 | 54.9 | 58 10.2 | 13.0 | 6 21.4 | 37.8 | 219 05.2 | 40.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 206 35.7 | 192 49.4 | 55.4 | 73 11.4 | 12.6 | 21 24.0 | 37.8 | 234 07.6 | 40.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 221 38.1 | 207 50.1 | 55.8 | 88 12.5 | 12.2 | 36 26.5 | 37.8 | 249 09.9 | 40.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">h m</td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td>Pas. Mer.</td> <td>8 19.8</td> <td>v 0.7</td> <td>d 0.4</td> <td>v 1.1</td> <td>d 0.4</td> <td>v 2.6</td> <td>d 0.0</td> <td>v 2.4</td> <td>d 0.0</td> <td colspan="7"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">A. H. S.</td> <td style="text-align: center;">Pas.</td> <td style="text-align: center;">Mer.</td> <td colspan="4"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">o /</td> <td style="text-align: center;">h</td> <td style="text-align: center;">m</td> <td colspan="4"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Venus</td> <td>347 33.6</td> <td>9 10</td> <td colspan="4"></td> </tr> <tr> <td></td> <td></td></tr></table> | | | | | | | | | | | | | | | | | | h m | | | | | | | | | | | | | | | | Pas. Mer. | 8 19.8 | v 0.7 | d 0.4 | v 1.1 | d 0.4 | v 2.6 | d 0.0 | v 2.4 | d 0.0 | | | | | | | | | | | | | | | | | | A. H. S. | Pas. | Mer. | | | | | | | | | | | | | | | o / | h | m | | | | | | | | | | | | | | | Venus | 347 33.6 | 9 10 | | | | | | |
| | h m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. | 8 19.8 | v 0.7 | d 0.4 | v 1.1 | d 0.4 | v 2.6 | d 0.0 | v 2.4 | d 0.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A. H. S. | Pas. | Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | o / | h | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Venus | 347 33.6 | 9 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------|----------|----------|----------|----------|------|------|------|------------|-------|----------|-----------|------------------|-------|------------|-------|-------|------------|----|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 16 | | 17 | | 18 | | 19 | |
| | | | | | | | | | | | | h | m | h | m | h | m | h | m |
| DOMINICANA | 16 00 | 180 55.4 | N19 03.1 | 242 45.7 | 16.1 | N 1 | 43.7 | 11.2 | 54.2 | N 72 | □ | □ | □ | 01 28 | 01 12 | 00 53 | {00 23 35} | | |
| | 01 | 195 55.4 | 03.6 | 257 20.8 | 16.1 | 1 | 54.9 | 11.2 | 54.2 | N 70 | □ | □ | □ | 01 30 | 01 21 | 01 10 | 00 57 | | |
| | 02 | 210 55.4 | 04.2 | 271 55.9 | 16.1 | 2 | 06.1 | 11.2 | 54.2 | 68 | /// | /// | 01 36 | 01 32 | 01 28 | 01 23 | 01 18 | | |
| | 03 | 225 55.4 | 04.8 | 286 31.0 | 16.1 | 2 | 17.3 | 11.2 | 54.2 | 66 | /// | /// | 02 14 | 01 34 | 01 34 | 01 34 | 01 35 | | |
| | 04 | 240 55.4 | 05.4 | 301 06.1 | 16.0 | 2 | 28.5 | 11.2 | 54.2 | 64 | /// | 00 52 | 02 41 | 01 36 | 01 39 | 01 43 | 01 49 | | |
| | 05 | 255 55.4 | 06.0 | 315 41.1 | 16.1 | 2 | 39.7 | 11.2 | 54.2 | 62 | /// | 01 43 | 03 01 | 01 37 | 01 43 | 01 51 | 02 01 | | |
| | 06 | 270 55.4 | N19 06.5 | 330 16.2 | 16.0 | N 2 | 50.9 | 11.2 | 54.2 | 60 | /// | 02 13 | 03 18 | 01 38 | 01 47 | 01 58 | 02 11 | | |
| | 07 | 285 55.3 | 07.1 | 344 51.2 | 16.0 | 3 | 02.1 | 11.1 | 54.2 | N 58 | 00 47 | 02 35 | 03 32 | 01 39 | 01 51 | 02 04 | 02 20 | | |
| | 08 | 300 55.3 | 07.7 | 359 26.2 | 16.1 | 3 | 13.2 | 11.2 | 54.2 | 56 | 01 33 | 02 53 | 03 44 | 01 40 | 01 54 | 02 09 | 02 27 | | |
| | 09 | 315 55.3 | 08.3 | 14 01.3 | 16.0 | 3 | 24.4 | 11.1 | 54.2 | 54 | 02 01 | 03 08 | 03 54 | 01 41 | 01 57 | 02 14 | 02 34 | | |
| | 10 | 330 55.3 | 08.8 | 28 36.3 | 15.9 | 3 | 35.5 | 11.2 | 54.2 | 52 | 02 21 | 03 21 | 04 03 | 01 42 | 01 59 | 02 18 | 02 40 | | |
| | 11 | 345 55.3 | 09.4 | 43 11.2 | 16.0 | 3 | 46.7 | 11.1 | 54.2 | 50 | 02 38 | 03 32 | 04 11 | 01 43 | 02 02 | 02 22 | 02 46 | | |
| | 12 | 0 55.3 | N19 10.0 | 57 46.2 | 15.9 | N 3 | 57.3 | 11.1 | 54.2 | 45 | 03 11 | 03 54 | 04 29 | 01 44 | 02 07 | 02 31 | 02 58 | | |
| | 13 | 15 55.3 | 10.6 | 72 21.1 | 16.0 | 4 | 08.9 | 11.1 | 54.2 | N 40 | 03 34 | 04 12 | 04 43 | 01 45 | 02 11 | 02 38 | 03 08 | | |
| | 14 | 30 55.2 | 11.1 | 86 56.1 | 15.9 | 4 | 20.0 | 11.1 | 54.2 | 35 | 03 53 | 04 27 | 04 55 | 01 47 | 02 15 | 02 45 | 03 17 | | |
| | 15 | 45 55.2 | 11.7 | 101 31.0 | 15.8 | 4 | 31.1 | 11.0 | 54.2 | 30 | 04 08 | 04 39 | 05 05 | 01 48 | 02 18 | 02 50 | 03 25 | | |
| | 16 | 60 55.2 | 12.3 | 116 05.8 | 15.9 | 4 | 42.1 | 11.1 | 54.2 | 20 | 04 31 | 04 59 | 05 23 | 01 49 | 02 24 | 03 00 | 03 38 | | |
| | 17 | 75 55.2 | 12.8 | 130 40.7 | 15.8 | 4 | 53.2 | 11.0 | 54.2 | N 10 | 04 50 | 05 16 | 05 39 | 01 51 | 02 29 | 03 08 | 03 50 | | |
| | 18 | 90 55.2 | N19 13.4 | 145 15.5 | 15.8 | N 5 | 04.2 | 11.0 | 54.2 | 0 | 05 05 | 05 31 | 05 53 | 01 52 | 02 34 | 03 16 | 04 01 | | |
| | 19 | 105 55.2 | 14.0 | 159 50.3 | 15.8 | 5 | 15.2 | 11.0 | 54.2 | S 10 | 05 19 | 05 45 | 06 07 | 01 54 | 02 39 | 03 24 | 04 12 | | |
| | 20 | 120 55.2 | 14.5 | 174 25.1 | 15.8 | 5 | 26.2 | 11.0 | 54.2 | 20 | 05 32 | 05 59 | 06 22 | 01 56 | 02 44 | 03 33 | 04 24 | | |
| | 21 | 135 55.1 | 15.1 | 188 59.9 | 15.7 | 5 | 37.2 | 11.0 | 54.2 | 30 | 05 44 | 06 13 | 06 39 | 01 57 | 02 50 | 03 43 | 04 38 | | |
| | 22 | 150 55.1 | 15.7 | 203 34.6 | 15.8 | 5 | 48.2 | 10.9 | 54.2 | 35 | 05 51 | 06 22 | 06 49 | 01 59 | 02 53 | 03 49 | 04 46 | | |
| 23 | 165 55.1 | 16.2 | 218 09.4 | 15.6 | 5 | 59.1 | 10.9 | 54.2 | 40 | 05 58 | 06 31 | 07 00 | 02 00 | 02 57 | 03 55 | 04 55 | | | |
| | | | | | | | | | 45 | 06 05 | 06 41 | 07 13 | 02 01 | 03 02 | 04 03 | 05 06 | | | |
| LUNES | 17 00 | 180 55.1 | N19 16.8 | 232 44.0 | 15.7 | N 6 | 10.0 | 10.9 | 54.2 | S 50 | 06 14 | 06 53 | 07 29 | 02 03 | 03 07 | 04 12 | 05 19 | | |
| | 01 | 195 55.1 | 17.4 | 247 18.7 | 15.6 | 6 | 20.9 | 10.9 | 54.3 | 52 | 06 17 | 06 59 | 07 37 | 02 04 | 03 10 | 04 17 | 05 25 | | |
| | 02 | 210 55.1 | 17.9 | 261 53.3 | 15.6 | 6 | 31.8 | 10.9 | 54.3 | 54 | 06 21 | 07 05 | 07 45 | 02 05 | 03 13 | 04 22 | 05 31 | | |
| | 03 | 225 55.0 | 18.5 | 276 27.9 | 15.6 | 6 | 42.7 | 10.8 | 54.3 | 56 | 06 25 | 07 12 | 07 55 | 02 06 | 03 16 | 04 27 | 05 39 | | |
| | 04 | 240 55.0 | 19.1 | 291 02.5 | 15.5 | 6 | 53.5 | 10.8 | 54.3 | 58 | 06 30 | 07 19 | 08 05 | 02 07 | 03 19 | 04 33 | 05 48 | | |
| | 05 | 255 55.0 | 19.6 | 305 37.0 | 15.5 | 7 | 04.3 | 10.8 | 54.3 | S 60 | 06 35 | 07 27 | 08 17 | 02 08 | 03 23 | 04 39 | 05 57 | | |
| | 06 | 270 55.0 | N19 20.2 | 320 11.5 | 15.5 | N 7 | 15.1 | 10.8 | 54.3 | | | | | | | | | | |
| | 07 | 285 55.0 | 20.8 | 334 46.0 | 15.4 | 7 | 25.9 | 10.7 | 54.3 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | | | |
| | 08 | 300 54.9 | 21.3 | 349 20.4 | 15.4 | 7 | 36.6 | 10.7 | 54.3 | | | | | 16 | 17 | 18 | 19 | | |
| | 09 | 315 54.9 | 21.9 | 3 54.8 | 15.4 | 7 | 47.3 | 10.7 | 54.3 | N 72 | □ | □ | □ | 15 10 | 16 56 | 18 53 | 21 22 | | |
| | 10 | 330 54.9 | 22.4 | 18 29.2 | 15.3 | 7 | 58.0 | 10.7 | 54.3 | N 70 | □ | □ | □ | 15 03 | 16 41 | 18 26 | 20 21 | | |
| | 11 | 345 54.9 | 23.0 | 33 03.5 | 15.3 | 8 | 08.7 | 10.6 | 54.3 | 68 | 22 22 | /// | /// | 14 58 | 16 30 | 18 05 | 19 47 | | |
| | 12 | 0 54.9 | N19 23.6 | 47 37.8 | 15.2 | N 8 | 19.3 | 10.6 | 54.3 | 66 | 21 42 | /// | /// | 14 54 | 16 20 | 17 49 | 19 22 | | |
| | 13 | 15 54.8 | 24.1 | 62 12.0 | 15.3 | 8 | 29.9 | 10.6 | 54.4 | 64 | 21 14 | 23 09 | /// | 14 50 | 16 12 | 17 37 | 19 03 | | |
| | 14 | 30 54.8 | 24.7 | 76 46.3 | 15.1 | 8 | 40.5 | 10.6 | 54.4 | 62 | 20 53 | 22 14 | /// | 14 47 | 16 05 | 17 26 | 18 47 | | |
| | 15 | 45 54.8 | 25.2 | 91 20.4 | 15.2 | 8 | 51.1 | 10.5 | 54.4 | 60 | 20 36 | 21 43 | /// | 14 44 | 15 59 | 17 16 | 18 34 | | |
| | 16 | 60 54.8 | 25.8 | 105 54.6 | 15.1 | 9 | 01.6 | 10.5 | 54.4 | N 58 | 20 22 | 21 20 | 23 14 | 14 41 | 15 54 | 17 08 | 18 23 | | |
| | 17 | 75 54.8 | 26.4 | 120 28.7 | 15.0 | 9 | 12.1 | 10.4 | 54.4 | 56 | 20 10 | 21 01 | 22 24 | 14 39 | 15 50 | 17 01 | 18 13 | | |
| | 18 | 90 54.7 | N19 26.9 | 135 02.7 | 15.0 | N 9 | 22.5 | 10.4 | 54.4 | 54 | 20 00 | 20 46 | 21 55 | 14 37 | 15 46 | 16 55 | 18 05 | | |
| | 19 | 105 54.7 | 27.5 | 149 36.7 | 15.0 | 9 | 32.9 | 10.4 | 54.4 | 52 | 19 50 | 20 33 | 21 33 | 14 35 | 15 42 | 16 49 | 17 57 | | |
| | 20 | 120 54.7 | 28.0 | 164 10.7 | 14.9 | 9 | 43.3 | 10.4 | 54.4 | 50 | 19 42 | 20 22 | 21 16 | 14 34 | 15 38 | 16 44 | 17 50 | | |
| | 21 | 135 54.7 | 28.6 | 178 44.6 | 14.9 | 10 | 04.0 | 10.3 | 54.5 | 45 | 19 24 | 19 59 | 20 43 | 14 30 | 15 31 | 16 33 | 17 36 | | |
| | 22 | 150 54.7 | 29.1 | 193 18.5 | 14.8 | 10 | 14.3 | 10.2 | 54.5 | N 40 | 19 10 | 19 41 | 20 19 | 14 27 | 15 25 | 16 24 | 17 24 | | |
| 23 | 165 54.6 | 29.7 | 207 52.3 | 14.8 | N 10 | 24.5 | 10.2 | 54.5 | 35 | 18 58 | 19 26 | 20 01 | 14 25 | 15 20 | 16 16 | 17 14 | | | |
| MARTES | 18 00 | 180 54.6 | N19 30.2 | 222 26.1 | 14.8 | N 10 | 24.5 | 10.2 | 54.5 | 30 | 18 48 | 19 14 | 19 46 | 14 23 | 15 15 | 16 09 | 17 05 | | |
| | 01 | 195 54.6 | 30.8 | 236 59.9 | 14.6 | 10 | 34.7 | 10.2 | 54.5 | 20 | 18 30 | 18 53 | 19 22 | 14 19 | 15 07 | 15 58 | 16 49 | | |
| | 02 | 210 54.6 | 31.3 | 251 33.5 | 14.7 | 10 | 44.9 | 10.1 | 54.5 | N 10 | 18 14 | 18 37 | 19 03 | 14 15 | 15 01 | 15 47 | 16 36 | | |
| | 03 | 225 54.5 | 31.9 | 266 07.2 | 14.6 | 10 | 55.0 | 10.1 | 54.5 | 0 | 18 00 | 18 22 | 18 47 | 14 12 | 14 54 | 15 38 | 16 23 | | |
| | 04 | 240 54.5 | 32.4 | 280 40.8 | 14.5 | 11 | 05.1 | 10.1 | 54.5 | S 10 | 17 46 | 18 08 | 18 34 | 14 09 | 14 48 | 15 28 | 16 11 | | |
| | 05 | 255 54.5 | 33.0 | 295 14.3 | 14.5 | 11 | 15.2 | 10.0 | 54.5 | 20 | 17 31 | 17 54 | 18 21 | 14 06 | 14 41 | 15 18 | 15 58 | | |
| | 06 | 270 54.5 | N19 33.5 | 309 47.8 | 14.5 | N 11 | 25.2 | 9.9 | 54.6 | 30 | 17 13 | 17 39 | 18 08 | 14 02 | 14 33 | 15 06 | 15 43 | | |
| | 07 | 285 54.4 | 34.1 | 324 21.3 | 14.4 | 11 | 35.1 | 10.0 | 54.6 | 35 | 17 04 | 17 31 | 18 01 | 14 00 | 14 28 | 14 59 | 15 34 | | |
| | 08 | 300 54.4 | 34.6 | 338 54.7 | 14.3 | 11 | 45.1 | 9.8 | 54.6 | 40 | 16 52 | 17 21 | 17 54 | 13 57 | 14 23 | 14 52 | 15 24 | | |
| | 09 | 315 54.4 | 35.2 | 353 28.0 | 14.3 | 11 | 54.9 | 9.9 | 54.6 | 45 | 16 39 | 17 11 | 17 47 | 13 54 | 14 18 | 14 43 | 15 12 | | |
| | 10 | 330 54.4 | 35.7 | 8 01.3 | 14.2 | 12 | 04.8 | 9.8 | 54.6 | S 50 | 16 23 | 16 59 | 17 39 | 13 51 | 14 11 | 14 32 | 14 58 | | |
| | 11 | 345 54.3 | 36.3 | 22 34.5 | 14.2 | 12 | 14.6 | 9.7 | 54.6 | 52 | 16 15 | 16 53 | 17 35 | 13 49 | 14 07 | 14 28 | 14 52 | | |
| | 12 | 0 54.3 | N19 36.8 | 37 07.7 | 14.2 | N 12 | 24.3 | 9.7 | 54.6 | 54 | 16 07 | 16 47 | 17 31 | 13 48 | 14 04 | 14 22 | 14 44 | | |
| | 13 | 15 54.3 | 37.4 | 51 40.9 | 14.0 | 12 | 34.0 | 9.7 | 54.6 | 56 | 15 58 | 16 41 | 17 27 | 13 46 | 14 00 | 14 16 | 14 36 | | |
| | 14 | 30 54.3 | 37.9 | 66 13.9 | 14.1 | 12 | 43.7 | 9.6 | 54.7 | 58 | 15 47 | 16 33 | 17 22 | 13 44 | 13 56 | 14 10 | 14 27 | | |
| | 15 | 45 54.2 | 38.5 | 80 47.0 | 13.9 | 12 | 53.3 | 9.5 | 54.7 | S 60 | 15 35 | 16 25 | 17 17 | 13 41 | 13 51 | 14 02 | 14 17 | | |
| | 16 | 60 54.2 | 39.0 | 95 19.9 | 13.9 | 13 | 02.8 | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.5 | | MARTE +1.3 | | JUPITER -2.3 | | SATURNO +0.9 | | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|-------------|--------------|-------------|--------------|-------------|--------------|-------------|--------------|--|-------------|--------------|------|--|----------|-----------|--|-------|----------|------|--|-------|----------|-------|--|---------|----------|-------|--|---------|---------|------|--|
| | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | |
| M I E R C O L E S | 19 00 | 236 40.6 | 222 50.8 N 4 | 56.2 | 103 13.7 N19 | 11.8 | 51 29.1 S 0 | 37.7 | 264 12.3 S12 | 40.8 | Acamar | 315 30.1 S40 | 19.8 | | | | | | | | | | | | | | | | | | | | |
| | 01 | 251 43.1 | 237 51.5 | 56.6 | 118 14.8 | 11.4 | 66 31.7 | 37.7 | 279 14.7 | 40.8 | Achernar | 335 38.3 S57 | 16.0 | | | | | | | | | | | | | | | | | | | | |
| | 02 | 266 45.5 | 252 52.2 | 57.1 | 133 15.9 | 11.0 | 81 34.2 | 37.7 | 294 17.1 | 40.8 | Acruz | 173 25.8 S63 | 04.1 | | | | | | | | | | | | | | | | | | | | |
| | 03 | 281 48.0 | 267 52.9 | 57.5 | 148 17.1 | 10.6 | 96 36.8 | 37.7 | 309 19.4 | 40.7 | Adhara | 255 24.6 S28 | 58.0 | | | | | | | | | | | | | | | | | | | | |
| | 04 | 296 50.5 | 282 53.5 | 57.9 | 163 18.2 | 10.2 | 111 39.3 | 37.6 | 324 21.8 | 40.7 | Aldebaran | 291 07.0 N16 | 29.7 | | | | | | | | | | | | | | | | | | | | |
| | 05 | 311 52.9 | 297 54.2 | 58.4 | 178 19.4 | 09.9 | 126 41.9 | 37.6 | 339 24.2 | 40.7 | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 326 55.4 | 312 54.9 N 4 | 58.8 | 193 20.5 N19 | 09.5 | 141 44.4 S 0 | 37.6 | 354 26.6 S12 | 40.7 | Alioth | 166 33.4 N55 | 59.8 | | | | | | | | | | | | | | | | | | | | |
| | 07 | 341 57.9 | 327 55.6 | 59.2 | 208 21.7 | 09.1 | 156 47.0 | 37.5 | 9 28.9 | 40.7 | Alkaid | 153 10.2 N49 | 20.8 | | | | | | | | | | | | | | | | | | | | |
| | 08 | 357 00.3 | 342 56.3 | 4 59.7 | 223 22.8 | 08.7 | 171 49.6 | 37.5 | 24 31.3 | 40.6 | Al Na'ir | 28 02.5 S46 | 59.3 | | | | | | | | | | | | | | | | | | | | |
| | 09 | 12 02.8 | 357 56.9 | 5 00.1 | 238 23.9 | 08.3 | 186 52.1 | 37.5 | 39 33.7 | 40.6 | Alnilam | 276 01.9 S 1 | 12.5 | | | | | | | | | | | | | | | | | | | | |
| | 10 | 27 05.2 | 12 57.6 | 00.5 | 253 25.1 | 07.9 | 201 54.7 | 37.5 | 54 36.1 | 40.6 | Alphard | 218 10.9 S 8 | 38.0 | | | | | | | | | | | | | | | | | | | | |
| | 11 | 42 07.7 | 27 58.3 | 01.0 | 268 26.2 | 07.5 | 216 57.2 | 37.4 | 69 38.4 | 40.6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 57 10.2 | 42 59.0 N 5 | 01.4 | 283 27.4 N19 | 07.1 | 231 59.8 S 0 | 37.4 | 84 40.8 S12 | 40.5 | Alphecca | 126 23.3 N26 | 44.1 | | | | | | | | | | | | | | | | | | | | |
| | 13 | 72 12.6 | 57 59.7 | 01.9 | 298 28.5 | 06.7 | 247 02.3 | 37.4 | 99 43.2 | 40.5 | Alpheratz | 357 59.3 N29 | 03.1 | | | | | | | | | | | | | | | | | | | | |
| | 14 | 87 15.1 | 73 00.3 | 02.3 | 313 29.7 | 06.3 | 262 04.9 | 37.3 | 114 45.6 | 40.5 | Altair | 62 22.7 N 8 | 51.0 | | | | | | | | | | | | | | | | | | | | |
| | 15 | 102 17.6 | 88 01.0 | 02.7 | 328 30.8 | 05.9 | 277 07.4 | 37.3 | 129 48.0 | 40.5 | Ankaa | 353 30.7 S42 | 20.3 | | | | | | | | | | | | | | | | | | | | |
| | 16 | 117 20.0 | 103 01.7 | 03.2 | 343 31.9 | 05.5 | 292 10.0 | 37.3 | 144 50.3 | 40.4 | Antares | 112 44.3 S26 | 25.1 | | | | | | | | | | | | | | | | | | | | |
| | 17 | 132 22.5 | 118 02.3 | 03.6 | 358 33.1 | 05.1 | 307 12.5 | 37.3 | 159 52.7 | 40.4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 147 25.0 | 133 03.0 N 5 | 04.1 | 13 34.2 N19 | 04.7 | 322 15.1 S 0 | 37.2 | 174 55.1 S12 | 40.4 | Arcturus | 146 09.1 N19 | 12.9 | | | | | | | | | | | | | | | | | | | | |
| | 19 | 162 27.4 | 148 03.7 | 04.5 | 28 35.4 | 04.3 | 337 17.7 | 37.2 | 189 57.5 | 40.4 | Atria | 107 59.1 S69 | 00.9 | | | | | | | | | | | | | | | | | | | | |
| | 20 | 177 29.9 | 163 04.3 | 05.0 | 43 36.5 | 03.9 | 352 20.2 | 37.2 | 204 59.8 | 40.4 | Avior | 234 24.4 S59 | 29.7 | | | | | | | | | | | | | | | | | | | | |
| | 21 | 192 32.4 | 178 05.0 | 05.4 | 58 37.7 | 03.5 | 7 22.8 | 37.1 | 220 02.2 | 40.3 | Bellatrix | 278 48.4 N 6 | 20.6 | | | | | | | | | | | | | | | | | | | | |
| | 22 | 207 34.8 | 193 05.7 | 05.8 | 73 38.8 | 03.1 | 22 25.3 | 37.1 | 235 04.6 | 40.3 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | | | | | | | | | | | | | | | | | |
| 23 | 222 37.3 | 208 06.3 | 06.3 | 88 39.9 | 02.7 | 37 27.9 | 37.1 | 250 07.0 | 40.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| J U E V E S | 20 00 | 237 39.7 | 223 07.0 N 5 | 06.7 | 103 41.1 N19 | 02.3 | 52 30.4 S 0 | 37.1 | 265 09.4 S12 | 40.3 | Canopus | 264 03.2 S52 | 41.8 | | | | | | | | | | | | | | | | | | | | |
| | 01 | 252 42.2 | 238 07.6 | 07.2 | 118 42.2 | 01.9 | 67 33.0 | 37.0 | 280 11.7 | 40.2 | Capella | 280 57.1 N45 | 59.5 | | | | | | | | | | | | | | | | | | | | |
| | 02 | 267 44.7 | 253 08.3 | 07.6 | 133 43.4 | 01.5 | 82 35.5 | 37.0 | 295 14.1 | 40.2 | Deneb | 49 41.6 N45 | 15.2 | | | | | | | | | | | | | | | | | | | | |
| | 03 | 282 47.1 | 268 08.9 | 08.1 | 148 44.5 | 01.1 | 97 38.1 | 37.0 | 310 16.5 | 40.2 | Denebola | 182 48.8 N14 | 36.4 | | | | | | | | | | | | | | | | | | | | |
| | 04 | 297 49.6 | 283 09.6 | 08.6 | 163 45.6 | 00.7 | 112 40.6 | 37.0 | 325 18.9 | 40.2 | Diphda | 349 11.1 S18 | 01.3 | | | | | | | | | | | | | | | | | | | | |
| | 05 | 312 52.1 | 298 10.2 | 09.0 | 178 46.8 | 19 00.3 | 127 43.2 | 36.9 | 340 21.2 | 40.1 | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 327 54.5 | 313 10.9 N 5 | 09.5 | 193 47.9 N18 | 59.9 | 142 45.7 S 0 | 36.9 | 355 23.6 S12 | 40.1 | Dubhe | 194 09.8 N61 | 47.3 | | | | | | | | | | | | | | | | | | | | |
| | 07 | 342 57.0 | 328 11.5 | 09.9 | 208 49.1 | 59.5 | 157 48.3 | 36.9 | 10 26.0 | 40.1 | Elnath | 278 32.0 N28 | 36.1 | | | | | | | | | | | | | | | | | | | | |
| | 08 | 357 59.5 | 343 12.2 | 10.4 | 223 50.2 | 59.1 | 172 50.8 | 36.9 | 25 28.4 | 40.1 | Eltanin | 90 52.6 N51 | 29.3 | | | | | | | | | | | | | | | | | | | | |
| | 09 | 13 01.9 | 358 12.8 | 10.8 | 238 51.3 | 58.7 | 187 53.4 | 36.8 | 40 30.8 | 40.1 | Enif | 34 01.8 N 9 | 50.7 | | | | | | | | | | | | | | | | | | | | |
| | 10 | 28 04.4 | 13 13.5 | 11.3 | 253 52.5 | 58.3 | 202 55.9 | 36.8 | 55 33.1 | 40.0 | Fomalhaut | 15 40.6 S29 | 39.2 | | | | | | | | | | | | | | | | | | | | |
| | 11 | 43 06.8 | 28 14.1 | 11.8 | 268 53.6 | 57.9 | 217 58.5 | 36.8 | 70 35.5 | 40.0 | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 58 09.3 | 43 14.8 N 5 | 12.2 | 283 54.8 N18 | 57.5 | 233 01.0 S 0 | 36.8 | 85 37.9 S12 | 40.0 | Gacrux | 172 17.4 S57 | 04.9 | | | | | | | | | | | | | | | | | | | | |
| | 13 | 73 11.8 | 58 15.4 | 12.7 | 298 55.9 | 57.1 | 248 03.6 | 36.7 | 100 40.3 | 40.0 | Gienah | 176 07.6 S17 | 30.6 | | | | | | | | | | | | | | | | | | | | |
| | 14 | 88 14.2 | 73 16.1 | 13.1 | 313 57.1 | 56.7 | 263 06.1 | 36.7 | 115 42.7 | 39.9 | Hadar | 149 08.7 S60 | 20.7 | | | | | | | | | | | | | | | | | | | | |
| | 15 | 103 16.7 | 88 16.7 | 13.6 | 328 58.2 | 56.3 | 278 08.6 | 36.7 | 130 45.1 | 39.9 | Hamal | 328 18.1 N23 | 25.8 | | | | | | | | | | | | | | | | | | | | |
| | 16 | 118 19.2 | 103 17.3 | 14.1 | 343 59.3 | 55.9 | 293 11.2 | 36.7 | 145 47.4 | 39.9 | Kaus Aust. | 84 03.4 S34 | 23.2 | | | | | | | | | | | | | | | | | | | | |
| | 17 | 133 21.6 | 118 18.0 | 14.5 | 359 00.5 | 55.5 | 308 13.7 | 36.6 | 160 49.8 | 39.9 | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 148 24.1 | 133 18.6 N 5 | 15.0 | 14 01.6 N18 | 55.1 | 323 16.3 S 0 | 36.6 | 175 52.2 S12 | 39.9 | Kochab | 137 18.2 N74 | 11.0 | | | | | | | | | | | | | | | | | | | | |
| | 19 | 163 26.6 | 148 19.2 | 15.5 | 29 02.7 | 54.7 | 338 18.8 | 36.6 | 190 54.6 | 39.8 | Markab | 13 53.4 N15 | 10.1 | | | | | | | | | | | | | | | | | | | | |
| | 20 | 178 29.0 | 163 19.9 | 15.9 | 44 03.9 | 54.3 | 353 21.4 | 36.6 | 205 57.0 | 39.8 | Menkar | 314 31.1 N 4 | 03.8 | | | | | | | | | | | | | | | | | | | | |
| | 21 | 193 31.5 | 178 20.5 | 16.4 | 59 05.0 | 53.9 | 8 23.9 | 36.5 | 220 59.3 | 39.8 | Menkent | 148 25.0 S36 | 20.5 | | | | | | | | | | | | | | | | | | | | |
| | 22 | 208 34.0 | 193 21.1 | 16.9 | 74 06.2 | 53.5 | 23 26.5 | 36.5 | 236 01.7 | 39.8 | Miaplacidus | 221 43.1 S69 | 41.8 | | | | | | | | | | | | | | | | | | | | |
| 23 | 223 36.4 | 208 21.8 | 17.3 | 89 07.3 | 53.1 | 38 29.0 | 36.5 | 251 04.1 | 39.8 | | | | | | | | | | | | | | | | | | | | | | | | |
| V I E R N E S | 21 00 | 238 38.9 | 223 22.4 N 5 | 17.8 | 104 08.4 N18 | 52.7 | 53 31.6 S 0 | 36.5 | 266 06.5 S12 | 39.7 | Mirfak | 309 02.4 N49 | 50.2 | | | | | | | | | | | | | | | | | | | | |
| | 01 | 253 41.3 | 238 23.0 | 18.3 | 119 09.6 | 52.3 | 68 34.1 | 36.4 | 281 08.9 | 39.7 | Nunki | 76 16.6 S26 | 18.2 | | | | | | | | | | | | | | | | | | | | |
| | 02 | 268 43.8 | 253 23.6 | 18.7 | 134 10.7 | 51.9 | 83 36.7 | 36.4 | 296 11.2 | 39.7 | Peacock | 53 42.5 S56 | 45.1 | | | | | | | | | | | | | | | | | | | | |
| | 03 | 283 46.3 | 268 24.3 | 19.2 | 149 11.9 | 51.5 | 98 39.2 | 36.4 | 311 13.6 | 39.7 | Pollux | 243 46.3 N28 | 02.5 | | | | | | | | | | | | | | | | | | | | |
| | 04 | 298 48.7 | 283 24.9 | 19.7 | 164 13.0 | 51.1 | 113 41.7 | 36.4 | 326 16.0 | 39.7 | Procyon | 245 15.6 N 5 | 14.4 | | | | | | | | | | | | | | | | | | | | |
| | 05 | 313 51.2 | 298 25.5 | 20.2 | 179 14.1 | 50.7 | 128 44.3 | 36.3 | 341 18.4 | 39.6 | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 328 53.7 | 313 26.1 N 5 | 20.6 | 194 15.3 N18 | 50.3 | 143 46.8 S 0 | 36.3 | 356 20.8 S12 | 39.6 | Rasalhague | 96 20.1 N12 | 33.8 | | | | | | | | | | | | | | | | | | | | |
| | 07 | 343 56.1 | 328 26.7 | 21.1 | 209 16.4 | 49.8 | 158 49.4 | 36.3 | 11 23.2 | 39.6 | Regulus | 207 59.5 N11 | 59.9 | | | | | | | | | | | | | | | | | | | | |
| | 08 | 358 58.6 | 343 27.4 | 21.6 | 224 17.6 | 49.4 | 173 51.9 | 36.3 | 26 25.5 | 39.6 | Rigel | 281 26.8 S 8 | 12.6 | | | | | | | | | | | | | | | | | | | | |
| | 09 | 14 01.1 | 358 28.0 | 22.1 | 239 18.7 | 49.0 | 188 54.5 | 36.3 | 41 27.9 | 39.5 | Rigil Kent. | 140 11.6 S60 | 48.6 | | | | | | | | | | | | | | | | | | | | |
| | 10 | 29 03.5 | 13 28.6 | 22.6 | 254 19.8 | 48.6 | 203 57.0 | 36.2 | 56 30.3 | 39.5 | Sabik | 102 29.4 S15 | 43.0 | | | | | | | | | | | | | | | | | | | | |
| | 11 | 44 06.0 | 28 29.2 | 23.0 | 269 21.0 | 48.2 | 218 59.5 | 36.2 | 71 32.7 | 39.5 | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 59 08.5 | 43 29.8 N 5 | 23.5 | 284 22.1 N18 | 47.8 | 234 02.1 S 0 | 36.2 | 86 35.1 S12 | 39.5 | Schedar | 349 58.1 N56 | 29.9 | | | | | | | | | | | | | | | | | | | | |
| | 13 | 74 10.9 | 58 30.4 | 24.0 | 299 23.2 | 47.4 | 249 04.6 | 36.2 | 101 37.5 | 39.5 | Shaula | 96 41.9 S37 | 05.9 | | | | | | | | | | | | | | | | | | | | |
| | 14 | 89 13.4 | 73 31.0 | 24.5 | 314 24.4 | 47.0 | 264 07.2 | 36.1 | 116 39.9 | 39.4 | Sirius | 258 47.2 S16 | 42.6 | | | | | | | | | | | | | | | | | | | | |
| | 15 | 104 15.8 | 88 31.6 | 25.0 | 329 25.5 | 46.6 | 279 09.7 | 36.1 | 131 42.2 | 39.4 | Spica | 158 46.8 S11 | 07.8 | | | | | | | | | | | | | | | | | | | | |
| | 16 | 119 18.3 | 103 32.2 | 25.4 | 344 26.7 | 46.2 | 294 12.2 | 36.1 | 146 44.6 | 39.4 | Suhail | 223 03.6 S43 | 24.7 | | | | | | | | | | | | | | | | | | | | |
| | 17 | 134 20.8 | 118 32.9 | 25.9 | 359 27.8 | 45.8 | 309 14.8 | 36.1 | 161 47.0 | 39.4 | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 149 23.2 | 133 33.5 N 5 | 26.4 | 14 28.9 N18 | 45.4 | 324 17.3 S 0 | 36.1 | 176 49.4 S12 | 39.4 | Vega | 80 48.8 N38 | 46.5 | | | | | | | | | | | | | | | | | | | | |
| | 19 | 164 25.7 | 148 34.1 | 26.9 | 29 30.1 | 45.0 | 339 19.9 | 36.0 | 191 51.8 | 39.3 | Zuben'ubi | 137 21.7 S16 | 01.0 | | | | | | | | | | | | | | | | | | | | |
| | 20 | 179 28.2 | 163 34.7 | 27.4 | 44 31.2 | 44.6 | 354 22.4 | 36.0 | 206 54.2 | 39.3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 194 30.6 | 178 35.3 | 27.9 | 59 32.3 | 44.2 | 9 24.9 | 36.0 | 221 56.5 | 39.3 | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 209 33.1 | 193 35.9 | 28.4 | 74 33.5 | 43.8 | 24 27.5 | 36.0 | 236 58.9 | 39.3 | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 224 35.6 | 208 36.5 | 28.9 | 89 34.6 | 43.3 | 39 30.0 | 35.9 | 252 01.3 | 39.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. 8 08.0 | | v 0.6 d 0.5 | | v 1.1 d 0.4 | | v 2.5 d 0.0 | | v 2.4 d 0.0 | | <table border="0"> <tr> <td></td> <td>A. H. S.</td> <td>Pas. Mer.</td> <td></td> </tr> <tr> <td>Venus</td> <td>345 27.2</td> <td>9 07</td> <td></td> </tr> <tr> <td>Marte</td> <td>226 01.3</td> <td>17 04</td> <td></td> </tr> <tr> <td>Júpiter</td> <td>174 50.7</td> <td>20 26</td> <td></td> </tr> <tr> <td>Saturno</td> <td>27 29.6</td> <td>6 18</td> <td></td> </tr> </table> | | | | | A. H. S. | Pas. Mer. | | Venus | 345 27.2 | 9 07 | | Marte | 226 01.3 | 17 04 | | Júpiter | 174 50.7 | 20 26 | | Saturno | 27 29.6 | 6 18 | |
| | A. H. S. | Pas. Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Venus | 345 27.2 | 9 07 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marte | 226 01.3 | 17 04 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Júpiter | 174 50.7 | 20 26 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saturno | 27 29.6 | 6 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------------------|-------------|-----------|---------------|-----------|----------|----------|-------|------|------------|------------------|------------|-----------|-------|-------|-------|-------|-------|
| | A.H.G. Dec. | | A.H.G. v Dec. | | d | P.H. | Náut. | | Civil | 22 | | 23 | 24 | 25 | | | |
| | o / ' / " | o / ' / " | o / ' / " | o / ' / " | ' / " | ' / " | h m | | h m | h m | | h m | h m | h m | h m | | |
| S A B A D O | 22 00 | 180 51.3 | N20 20.6 | 175 51.5 | 8.9 | N21 50.8 | 2.7 | 56.3 | N 72 | □ | □ | □ | □ | □ | □ | □ | □ |
| | 01 | 195 51.2 | 21.1 | 190 19.4 | 8.9 | 21 53.5 | 2.6 | 56.3 | N 70 | □ | □ | □ | □ | □ | □ | □ | 04 15 |
| | 02 | 210 51.2 | 21.6 | 204 47.3 | 8.8 | 21 56.1 | 2.4 | 56.3 | 68 | /// | /// | 00 54 | 00 53 | □ | 03 08 | 05 12 | |
| | 03 | 225 51.1 | 22.0 | 219 15.1 | 8.8 | 21 58.5 | 2.3 | 56.3 | 66 | /// | /// | 01 50 | 02 05 | 02 49 | 04 07 | 05 46 | |
| | 04 | 240 51.1 | 22.5 | 233 42.9 | 8.8 | 22 00.8 | 2.2 | 56.3 | 64 | /// | /// | 02 22 | 02 41 | 03 29 | 04 41 | 06 10 | |
| | 05 | 255 51.0 | 23.0 | 248 10.7 | 8.6 | 22 03.0 | 2.1 | 56.4 | 62 | /// | 01 15 | 02 46 | 03 07 | 03 57 | 05 06 | 06 29 | |
| | 06 | 270 51.0 | N20 23.5 | 262 38.3 | 8.7 | N22 05.1 | 2.0 | 56.4 | 60 | /// | 01 54 | 03 05 | 03 28 | 04 18 | 05 25 | 06 45 | |
| | 07 | 285 50.9 | 24.0 | 277 06.0 | 8.6 | 22 07.1 | 1.8 | 56.4 | N 58 | /// | 02 20 | 03 21 | 03 45 | 04 36 | 05 41 | 06 58 | |
| | 08 | 300 50.9 | 24.5 | 291 33.6 | 8.6 | 22 08.9 | 1.7 | 56.4 | 56 | 01 07 | 02 40 | 03 34 | 03 59 | 04 51 | 05 55 | 07 09 | |
| | 09 | 315 50.9 | 25.0 | 306 01.2 | 8.5 | 22 10.6 | 1.6 | 56.4 | 54 | 01 43 | 02 57 | 03 45 | 04 11 | 05 03 | 06 07 | 07 19 | |
| | 10 | 330 50.8 | 25.5 | 320 28.7 | 8.5 | 22 12.2 | 1.5 | 56.5 | 52 | 02 08 | 03 11 | 03 55 | 04 22 | 05 14 | 06 17 | 07 28 | |
| | 11 | 345 50.8 | 26.0 | 334 56.2 | 8.5 | 22 13.7 | 1.4 | 56.5 | 50 | 02 27 | 03 23 | 04 04 | 04 32 | 05 24 | 06 26 | 07 36 | |
| | 12 | 0 50.7 | N20 26.5 | 349 23.7 | 8.4 | N22 15.1 | 1.2 | 56.5 | 45 | 03 02 | 03 48 | 04 23 | 04 52 | 05 45 | 06 46 | 07 53 | |
| | 13 | 15 50.7 | 27.0 | 3 51.1 | 8.4 | 22 16.3 | 1.1 | 56.5 | N 40 | 03 28 | 04 07 | 04 38 | 05 09 | 06 02 | 07 02 | 08 07 | |
| | 14 | 30 50.6 | 27.4 | 18 18.5 | 8.3 | 22 17.4 | 1.0 | 56.6 | 35 | 03 48 | 04 23 | 04 51 | 05 23 | 06 16 | 07 15 | 08 18 | |
| | 15 | 45 50.6 | 27.9 | 32 45.8 | 8.3 | 22 18.4 | 0.8 | 56.6 | 30 | 04 04 | 04 36 | 05 02 | 05 35 | 06 29 | 07 27 | 08 28 | |
| | 16 | 60 50.5 | 28.4 | 47 13.1 | 8.3 | 22 19.2 | 0.7 | 56.6 | 20 | 04 29 | 04 57 | 05 21 | 05 56 | 06 50 | 07 47 | 08 46 | |
| | 17 | 75 50.5 | 28.9 | 61 40.4 | 8.3 | 22 19.9 | 0.6 | 56.6 | N 10 | 04 49 | 05 15 | 05 38 | 06 14 | 07 08 | 08 04 | 09 01 | |
| | 18 | 90 50.4 | N20 29.4 | 76 07.7 | 8.2 | N22 20.5 | 0.5 | 56.6 | 0 | 05 05 | 05 31 | 05 53 | 06 31 | 07 25 | 08 21 | 09 15 | |
| | 19 | 105 50.4 | 29.9 | 90 34.9 | 8.2 | 22 21.0 | 0.3 | 56.7 | S 10 | 05 20 | 05 46 | 06 08 | 06 48 | 07 43 | 08 37 | 09 29 | |
| | 20 | 120 50.3 | 30.4 | 105 02.1 | 8.1 | 22 21.3 | 0.2 | 56.7 | 20 | 05 34 | 06 01 | 06 24 | 07 06 | 08 01 | 08 54 | 09 44 | |
| | 21 | 135 50.3 | 30.8 | 119 29.2 | 8.2 | 22 21.5 | 0.1 | 56.7 | 30 | 05 48 | 06 17 | 06 43 | 07 28 | 08 22 | 09 14 | 10 02 | |
| | 22 | 150 50.2 | 31.3 | 133 56.4 | 8.1 | 22 21.6 | 0.0 | 56.7 | 35 | 05 55 | 06 26 | 06 53 | 07 40 | 08 35 | 09 26 | 10 12 | |
| 23 | 165 50.2 | 31.8 | 148 23.5 | 8.1 | 22 21.6 | 0.2 | 56.8 | 40 | 06 02 | 06 36 | 07 05 | 07 54 | 08 49 | 09 39 | 10 23 | | |
| 23 00 | 180 50.1 | N20 32.3 | 162 50.6 | 8.0 | N22 21.4 | 0.3 | 56.8 | 45 | 06 11 | 06 47 | 07 20 | 08 11 | 09 06 | 09 55 | 10 36 | | |
| 01 | 195 50.1 | 32.8 | 177 17.6 | 8.1 | 22 21.1 | 0.4 | 56.8 | S 50 | 06 20 | 07 00 | 07 37 | 08 32 | 09 27 | 10 14 | 10 53 | | |
| 02 | 210 50.0 | 33.2 | 191 44.7 | 8.0 | 22 20.7 | 0.6 | 56.8 | 52 | 06 24 | 07 06 | 07 45 | 08 42 | 09 37 | 10 23 | 11 00 | | |
| 03 | 225 50.0 | 33.7 | 206 11.7 | 8.0 | 22 20.1 | 0.6 | 56.8 | 54 | 06 29 | 07 13 | 07 54 | 08 53 | 09 48 | 10 33 | 11 09 | | |
| 04 | 240 49.9 | 34.2 | 220 38.7 | 8.0 | 22 19.5 | 0.9 | 56.9 | 56 | 06 33 | 07 20 | 08 05 | 09 06 | 10 01 | 10 45 | 11 18 | | |
| 05 | 255 49.8 | 34.7 | 235 05.7 | 7.9 | 22 18.6 | 0.9 | 56.9 | 58 | 06 39 | 07 29 | 08 16 | 09 21 | 10 16 | 10 58 | 11 29 | | |
| 06 | 270 49.8 | N20 35.2 | 249 32.6 | 8.0 | N22 17.7 | 1.1 | 56.9 | S 60 | 06 44 | 07 38 | 08 30 | 09 39 | 10 33 | 11 13 | 11 41 | | |
| 07 | 285 49.7 | 35.6 | 263 59.6 | 7.9 | 22 16.6 | 1.2 | 56.9 | | | | | | | | | | |
| 08 | 300 49.7 | 36.1 | 278 26.5 | 7.9 | 22 15.4 | 1.3 | 56.9 | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | | | | | | |
| 09 | 315 49.6 | 36.6 | 292 53.4 | 7.9 | 22 14.1 | 1.5 | 57.0 | | | | 22 | 23 | 24 | 25 | | | |
| 10 | 330 49.6 | 37.1 | 307 20.3 | 7.9 | 22 12.6 | 1.5 | 57.0 | | | | | | | | | | |
| 11 | 345 49.5 | 37.5 | 321 47.2 | 7.9 | 22 11.1 | 1.8 | 57.0 | | | | | | | | | | |
| 12 | 0 49.5 | N20 38.0 | 336 14.1 | 7.9 | N22 09.3 | 1.8 | 57.0 | N 72 | □ | □ | □ | □ | □ | □ | □ | □ | |
| 13 | 15 49.4 | 38.5 | 350 41.0 | 7.9 | 22 07.5 | 2.0 | 57.1 | N 70 | □ | □ | □ | □ | □ | □ | □ | 01 58 | |
| 14 | 30 49.4 | 39.0 | 5 07.9 | 7.8 | 22 05.5 | 2.1 | 57.1 | 68 | 23 08 | /// | /// | □ | □ | 01 10 | 01 00 | | |
| 15 | 45 49.3 | 39.4 | 19 34.7 | 7.8 | 22 03.4 | 2.3 | 57.1 | 66 | 22 07 | /// | /// | 23 34 | 24 11 | 00 11 | 00 26 | | |
| 16 | 60 49.3 | 39.9 | 34 01.6 | 7.8 | 22 01.1 | 2.3 | 57.1 | 64 | 21 33 | /// | /// | 22 54 | 23 37 | 24 01 | 00 01 | | |
| 17 | 75 49.2 | 40.4 | 48 28.4 | 7.9 | 21 58.8 | 2.5 | 57.1 | 62 | 21 09 | 22 44 | /// | 22 26 | 23 12 | 23 42 | 24 01 | | |
| 18 | 90 49.1 | N20 40.8 | 62 55.3 | 7.8 | N21 56.3 | 2.7 | 57.2 | 60 | 20 50 | 22 03 | /// | 22 05 | 22 52 | 23 26 | 23 49 | | |
| 19 | 105 49.1 | 41.3 | 77 22.1 | 7.9 | 21 53.6 | 2.7 | 57.2 | N 58 | 20 34 | 21 35 | /// | 21 47 | 22 36 | 23 12 | 23 39 | | |
| 20 | 120 49.0 | 41.8 | 91 49.0 | 7.8 | 21 50.9 | 2.9 | 57.2 | 56 | 20 21 | 21 15 | 22 50 | 21 32 | 22 22 | 23 00 | 23 30 | | |
| 21 | 135 49.0 | 42.2 | 106 15.8 | 7.8 | 21 48.0 | 3.0 | 57.2 | 54 | 20 09 | 20 58 | 22 13 | 21 20 | 22 10 | 22 50 | 23 22 | | |
| 22 | 150 48.9 | 42.7 | 120 42.6 | 7.9 | 21 45.0 | 3.2 | 57.2 | 52 | 19 59 | 20 44 | 21 47 | 21 08 | 21 59 | 22 40 | 23 14 | | |
| 23 | 165 48.9 | 43.2 | 135 09.5 | 7.8 | 21 41.8 | 3.2 | 57.3 | 50 | 19 50 | 20 31 | 21 28 | 20 58 | 21 49 | 22 32 | 23 08 | | |
| 24 00 | 180 48.8 | N20 43.6 | 149 36.3 | 7.9 | N21 38.6 | 3.4 | 57.3 | 45 | 19 31 | 20 06 | 20 52 | 20 38 | 21 29 | 22 14 | 22 53 | | |
| 01 | 195 48.8 | 44.1 | 164 03.2 | 7.8 | 21 35.2 | 3.6 | 57.3 | N 40 | 19 16 | 19 47 | 20 26 | 20 21 | 21 13 | 22 00 | 22 41 | | |
| 02 | 210 48.7 | 44.6 | 178 30.0 | 7.9 | 21 31.6 | 3.6 | 57.3 | 35 | 19 03 | 19 31 | 20 06 | 20 06 | 20 59 | 21 48 | 22 31 | | |
| 03 | 225 48.6 | 45.0 | 192 56.9 | 7.9 | 21 28.0 | 3.8 | 57.3 | 30 | 18 51 | 19 18 | 19 50 | 19 54 | 20 47 | 21 37 | 22 22 | | |
| 04 | 240 48.6 | 45.5 | 207 23.8 | 7.8 | 21 24.2 | 4.0 | 57.4 | 20 | 18 32 | 18 56 | 19 25 | 19 33 | 20 27 | 21 18 | 22 07 | | |
| 05 | 255 48.5 | 46.0 | 221 50.6 | 7.9 | 21 20.2 | 4.0 | 57.4 | N 10 | 18 16 | 18 38 | 19 05 | 19 14 | 20 09 | 21 02 | 21 53 | | |
| 06 | 270 48.5 | N20 46.4 | 236 17.5 | 7.9 | N21 16.2 | 4.2 | 57.4 | 0 | 18 00 | 18 22 | 18 48 | 18 57 | 19 52 | 20 47 | 21 41 | | |
| 07 | 285 48.4 | 46.9 | 250 44.4 | 7.9 | 21 12.0 | 4.3 | 57.4 | S 10 | 17 45 | 18 07 | 18 33 | 18 40 | 19 35 | 20 31 | 21 28 | | |
| 08 | 300 48.4 | 47.4 | 265 11.3 | 8.0 | 21 07.7 | 4.4 | 57.4 | 20 | 17 29 | 17 52 | 18 19 | 18 21 | 19 17 | 20 15 | 21 14 | | |
| 09 | 315 48.3 | 47.8 | 279 38.3 | 7.9 | 21 03.3 | 4.5 | 57.5 | 30 | 17 11 | 17 35 | 18 06 | 18 00 | 18 56 | 19 56 | 20 58 | | |
| 10 | 330 48.2 | 48.3 | 294 05.2 | 7.9 | 20 58.8 | 4.7 | 57.5 | 35 | 17 00 | 17 27 | 17 58 | 17 47 | 18 44 | 19 45 | 20 49 | | |
| 11 | 345 48.2 | 48.7 | 308 32.1 | 8.0 | 20 54.1 | 4.8 | 57.5 | 40 | 16 48 | 17 17 | 17 51 | 17 33 | 18 30 | 19 32 | 20 38 | | |
| 12 | 0 48.1 | N20 49.2 | 322 59.1 | 8.0 | N20 49.3 | 5.0 | 57.5 | 45 | 16 33 | 17 06 | 17 42 | 17 16 | 18 13 | 19 17 | 20 26 | | |
| 13 | 15 48.1 | 49.7 | 337 26.1 | 8.0 | 20 44.3 | 5.0 | 57.5 | S 50 | 16 16 | 16 53 | 17 33 | 16 55 | 17 52 | 18 58 | 20 11 | | |
| 14 | 30 48.0 | 50.1 | 351 53.1 | 8.0 | 20 39.3 | 5.2 | 57.6 | 52 | 16 08 | 16 47 | 17 29 | 16 45 | 17 42 | 18 50 | 20 03 | | |
| 15 | 45 47.9 | 50.6 | 6 20.1 | 8.0 | 20 34.1 | 5.3 | 57.6 | 54 | 15 59 | 16 40 | 17 24 | 16 34 | 17 31 | 18 40 | 19 55 | | |
| 16 | 60 47.9 | 51.0 | 20 47.1 | 8.1 | 20 28.8 | 5.4 | 57.6 | 56 | 15 48 | 16 32 | 17 19 | 16 21 | 17 19 | 18 28 | 19 46 | | |
| 17 | 75 47.8 | 51.5 | 35 14.2 | 8.1 | 20 23.4 | 5.5 | 57.6 | 58 | 15 37 | 16 24 | 17 14 | 16 06 | 17 04 | 18 16 | 19 36 | | |
| 18 | 90 47.8 | N20 51.9 | 49 41.3 | 8.1 | N20 17.9 | 5.7 | 57.6 | S 60 | 15 23 | 16 15 | 17 08 | 15 48 | 16 4 | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.4 | | MARTE +1.3 | | JUPITER -2.2 | | SATURNO +0.8 | | ESTRELLAS | | | |
|----------------|----------|----------|------------|----------|------------|----------|--------------|----------|--------------|-------------|-----------|----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| 25 00 | 242 35.4 | 224 16.8 | N 6 06.7 | 105 57.4 | N18 13.1 | 57 34.5 | S 0 34.8 | 269 55.9 | S12 38.0 | Acamar | 315 30.1 | S40 19.8 | | |
| 01 | 257 37.9 | 239 17.4 | 07.3 | 120 58.5 | 12.7 | 72 37.0 | 34.7 | 284 58.3 | 38.0 | Achernar | 335 38.3 | S57 16.0 | | |
| 02 | 272 40.4 | 254 17.9 | 07.8 | 135 59.6 | 12.2 | 87 39.6 | 34.7 | 300 00.7 | 37.9 | Acrux | 173 25.8 | S63 04.1 | | |
| 03 | 287 42.8 | 269 18.4 | 08.4 | 151 00.8 | 11.8 | 102 42.1 | 34.7 | 315 03.1 | 37.9 | Adhara | 255 24.6 | S28 58.0 | | |
| 04 | 302 45.3 | 284 18.9 | 08.9 | 166 01.9 | 11.4 | 117 44.6 | 34.7 | 330 05.5 | 37.9 | Aldebaran | 291 06.9 | N16 29.7 | | |
| 05 | 317 47.8 | 299 19.4 | 09.5 | 181 03.0 | 11.0 | 132 47.1 | 34.7 | 345 07.9 | 37.9 | | | | | |
| 06 | 332 50.2 | 314 19.9 | N 6 10.0 | 196 04.1 | N18 10.6 | 147 49.6 | S 0 34.7 | 0 10.3 | S12 37.9 | Alioth | 166 33.4 | N55 59.8 | | |
| 07 | 347 52.7 | 329 20.4 | 10.6 | 211 05.3 | 10.1 | 162 52.1 | 34.7 | 15 12.7 | 37.9 | Alkaid | 153 10.3 | N49 20.8 | | |
| 08 | 2 55.2 | 344 20.9 | 11.1 | 226 06.4 | 09.7 | 177 54.7 | 34.7 | 30 15.1 | 37.8 | Al Na'ir | 28 02.4 | S46 59.3 | | |
| M 09 | 17 57.6 | 359 21.4 | 11.7 | 241 07.5 | 09.3 | 192 57.2 | 34.7 | 45 17.5 | 37.8 | Alnilam | 276 01.9 | S 1 12.4 | | |
| A 10 | 33 00.1 | 14 21.9 | 12.2 | 256 08.7 | 08.9 | 207 59.7 | 34.6 | 60 19.9 | 37.8 | Alphard | 218 10.9 | S 8 38.0 | | |
| R 11 | 48 02.5 | 29 22.4 | 12.8 | 271 09.8 | 08.4 | 223 02.2 | 34.6 | 75 22.3 | 37.8 | | | | | |
| T 12 | 63 05.0 | 44 22.9 | N 6 13.3 | 286 10.9 | N18 08.0 | 238 04.7 | S 0 34.6 | 90 24.7 | S12 37.8 | Alphecca | 126 23.3 | N26 44.2 | | |
| E 13 | 78 07.5 | 59 23.4 | 13.9 | 301 12.0 | 07.6 | 253 07.2 | 34.6 | 105 27.1 | 37.8 | Alpheratz | 357 59.2 | N29 03.1 | | |
| S 14 | 93 09.9 | 74 23.9 | 14.4 | 316 13.2 | 07.2 | 268 09.7 | 34.6 | 120 29.5 | 37.8 | Altair | 62 22.6 | N 8 51.0 | | |
| 15 | 108 12.4 | 89 24.4 | 15.0 | 331 14.3 | 06.7 | 283 12.3 | 34.6 | 135 31.9 | 37.7 | Ankaa | 353 30.6 | S42 20.3 | | |
| 16 | 123 14.9 | 104 24.9 | 15.5 | 346 15.4 | 06.3 | 298 14.8 | 34.6 | 150 34.3 | 37.7 | Antares | 112 44.3 | S26 25.1 | | |
| 17 | 138 17.3 | 119 25.4 | 16.1 | 1 16.6 | 05.9 | 313 17.3 | 34.6 | 165 36.7 | 37.7 | | | | | |
| 18 | 153 19.8 | 134 25.9 | N 6 16.7 | 16 17.7 | N18 05.5 | 328 19.8 | S 0 34.6 | 180 39.1 | S12 37.7 | Arcturus | 146 09.1 | N19 12.9 | | |
| 19 | 168 22.3 | 149 26.3 | 17.2 | 31 18.8 | 05.0 | 343 22.3 | 34.6 | 195 41.5 | 37.7 | Atria | 107 59.1 | S69 01.0 | | |
| 20 | 183 24.7 | 164 26.8 | 17.8 | 46 20.0 | 04.6 | 358 24.8 | 34.6 | 210 43.9 | 37.7 | Avior | 234 24.5 | S59 29.7 | | |
| 21 | 198 27.2 | 179 27.3 | 18.3 | 61 21.1 | 04.2 | 13 27.3 | 34.5 | 225 46.3 | 37.7 | Bellatrix | 278 48.4 | N 6 20.6 | | |
| 22 | 213 29.6 | 194 27.8 | 18.9 | 76 22.2 | 03.8 | 28 29.8 | 34.5 | 240 48.7 | 37.6 | Betelgeuse | 271 17.8 | N 7 24.3 | | |
| 23 | 228 32.1 | 209 28.3 | 19.5 | 91 23.3 | 03.3 | 43 32.3 | 34.5 | 255 51.1 | 37.6 | | | | | |
| 26 00 | 243 34.6 | 224 28.8 | N 6 20.0 | 106 24.5 | N18 02.9 | 58 34.9 | S 0 34.5 | 270 53.5 | S12 37.6 | Canopus | 264 03.3 | S52 41.7 | | |
| 01 | 258 37.0 | 239 29.3 | 20.6 | 121 25.6 | 02.5 | 73 37.4 | 34.5 | 285 55.9 | 37.6 | Capella | 280 57.1 | N45 59.5 | | |
| 02 | 273 39.5 | 254 29.7 | 21.1 | 136 26.7 | 02.1 | 88 39.9 | 34.5 | 300 58.3 | 37.6 | Deneb | 49 41.5 | N45 15.2 | | |
| 03 | 288 42.0 | 269 30.2 | 21.7 | 151 27.9 | 01.6 | 103 42.4 | 34.5 | 316 00.7 | 37.6 | Denebola | 182 48.8 | N14 36.5 | | |
| 04 | 303 44.4 | 284 30.7 | 22.3 | 166 29.0 | 01.2 | 118 44.9 | 34.5 | 331 03.1 | 37.6 | Diphda | 349 11.1 | S18 01.2 | | |
| 05 | 318 46.9 | 299 31.2 | 22.8 | 181 30.1 | 00.8 | 133 47.4 | 34.5 | 346 05.5 | 37.5 | | | | | |
| 06 | 333 49.4 | 314 31.7 | N 6 23.4 | 196 31.2 | N18 00.4 | 148 49.9 | S 0 34.5 | 1 07.9 | S12 37.5 | Dubhe | 194 09.8 | N61 47.3 | | |
| 07 | 348 51.8 | 329 32.1 | 24.0 | 211 32.4 | 17 59.9 | 163 52.4 | 34.5 | 16 10.3 | 37.5 | Elnath | 278 31.9 | N28 36.1 | | |
| M 08 | 3 54.3 | 344 32.6 | 24.5 | 226 33.5 | 59.5 | 178 54.9 | 34.4 | 31 12.7 | 37.5 | Eltanin | 90 52.6 | N51 29.3 | | |
| 09 | 18 56.8 | 359 33.1 | 25.1 | 241 34.6 | 59.1 | 193 57.4 | 34.4 | 46 15.1 | 37.5 | Enif | 34 01.8 | N 9 50.7 | | |
| 10 | 33 59.2 | 14 33.6 | 25.7 | 256 35.7 | 58.7 | 208 59.9 | 34.4 | 61 17.5 | 37.5 | Fomalhaut | 15 40.5 | S29 39.2 | | |
| 11 | 49 01.7 | 29 34.0 | 26.2 | 271 36.9 | 58.2 | 224 02.5 | 34.4 | 76 19.9 | 37.5 | | | | | |
| 12 | 64 04.1 | 44 34.5 | N 6 26.8 | 286 38.0 | N17 57.8 | 239 05.0 | S 0 34.4 | 91 22.3 | S12 37.5 | Gacrux | 172 17.4 | S57 04.9 | | |
| 13 | 79 06.6 | 59 35.0 | 27.4 | 301 39.1 | 57.4 | 254 07.5 | 34.4 | 106 24.7 | 37.4 | Giannah | 176 07.6 | S17 30.6 | | |
| 14 | 94 09.1 | 74 35.4 | 27.9 | 316 40.3 | 56.9 | 269 10.0 | 34.4 | 121 27.1 | 37.4 | Hadar | 149 08.7 | S60 20.7 | | |
| 15 | 109 11.5 | 89 35.9 | 28.5 | 331 41.4 | 56.5 | 284 12.5 | 34.4 | 136 29.5 | 37.4 | Hamal | 328 18.0 | N23 25.8 | | |
| 16 | 124 14.0 | 104 36.4 | 29.1 | 346 42.5 | 56.1 | 299 15.0 | 34.4 | 151 31.9 | 37.4 | Kaus Aust. | 84 03.3 | S34 23.2 | | |
| 17 | 139 16.5 | 119 36.8 | 29.7 | 1 43.6 | 55.7 | 314 17.5 | 34.4 | 166 34.4 | 37.4 | | | | | |
| 18 | 154 18.9 | 134 37.3 | N 6 30.2 | 16 44.8 | N17 55.2 | 329 20.0 | S 0 34.4 | 181 36.8 | S12 37.4 | Kochab | 137 18.2 | N74 11.0 | | |
| 19 | 169 21.4 | 149 37.8 | 30.8 | 31 45.9 | 54.8 | 344 22.5 | 34.4 | 196 39.2 | 37.4 | Markab | 13 53.3 | N15 10.2 | | |
| 20 | 184 23.9 | 164 38.2 | 31.4 | 46 47.0 | 54.4 | 359 25.0 | 34.4 | 211 41.6 | 37.3 | Menkar | 314 31.1 | N 4 03.8 | | |
| 21 | 199 26.3 | 179 38.7 | 32.0 | 61 48.1 | 53.9 | 14 27.5 | 34.4 | 226 44.0 | 37.3 | Menkent | 148 25.0 | S36 20.5 | | |
| 22 | 214 28.8 | 194 39.2 | 32.5 | 76 49.3 | 53.5 | 29 30.0 | 34.4 | 241 46.4 | 37.3 | Miaplacidus | 221 43.2 | S69 41.8 | | |
| 23 | 229 31.3 | 209 39.6 | 33.1 | 91 50.4 | 53.1 | 44 32.5 | 34.3 | 256 48.8 | 37.3 | | | | | |
| 27 00 | 244 33.7 | 224 40.1 | N 6 33.7 | 106 51.5 | N17 52.6 | 59 35.0 | S 0 34.3 | 271 51.2 | S12 37.3 | Mirfak | 309 02.4 | N49 50.2 | | |
| 01 | 259 36.2 | 239 40.5 | 34.3 | 121 52.7 | 52.2 | 74 37.5 | 34.3 | 286 53.6 | 37.3 | Nunki | 76 16.6 | S26 18.2 | | |
| 02 | 274 38.6 | 254 41.0 | 34.8 | 136 53.8 | 51.8 | 89 40.0 | 34.3 | 301 56.0 | 37.3 | Peacock | 53 42.4 | S56 45.1 | | |
| 03 | 289 41.1 | 269 41.5 | 35.4 | 151 54.9 | 51.4 | 104 42.5 | 34.3 | 316 58.4 | 37.3 | Pollux | 243 46.3 | N28 02.5 | | |
| 04 | 304 43.6 | 284 41.9 | 36.0 | 166 56.0 | 50.9 | 119 45.0 | 34.3 | 332 00.8 | 37.2 | Procyon | 245 15.6 | N 5 14.4 | | |
| 05 | 319 46.0 | 299 42.4 | 36.6 | 181 57.2 | 50.5 | 134 47.5 | 34.3 | 347 03.2 | 37.2 | | | | | |
| 06 | 334 48.5 | 314 42.8 | N 6 37.2 | 196 58.3 | N17 50.1 | 149 50.0 | S 0 34.3 | 2 05.6 | S12 37.2 | Rasalhague | 96 20.0 | N12 33.8 | | |
| 07 | 349 51.0 | 329 43.3 | 37.8 | 211 59.4 | 49.6 | 164 52.5 | 34.3 | 17 08.0 | 37.2 | Regulus | 207 59.5 | N11 59.9 | | |
| 08 | 4 53.4 | 344 43.7 | 38.3 | 227 00.5 | 49.2 | 179 55.0 | 34.3 | 32 10.4 | 37.2 | Rigel | 281 26.8 | S 8 12.6 | | |
| J 09 | 19 55.9 | 359 44.2 | 38.9 | 242 01.7 | 48.8 | 194 57.5 | 34.3 | 47 12.8 | 37.2 | Rigil Kent. | 140 11.6 | S60 48.7 | | |
| 10 | 34 58.4 | 14 44.6 | 39.5 | 257 02.8 | 48.3 | 210 00.0 | 34.3 | 62 15.2 | 37.2 | Sabik | 102 29.4 | S15 43.0 | | |
| 11 | 50 00.8 | 29 45.1 | 40.1 | 272 03.9 | 47.9 | 225 02.5 | 34.3 | 77 17.7 | 37.2 | | | | | |
| 12 | 65 03.3 | 44 45.5 | N 6 40.7 | 287 05.0 | N17 47.5 | 240 05.0 | S 0 34.3 | 92 20.1 | S12 37.1 | Schedar | 349 58.0 | N56 29.9 | | |
| 13 | 80 05.7 | 59 46.0 | 41.3 | 302 06.2 | 47.0 | 255 07.5 | 34.3 | 107 22.5 | 37.1 | Shaula | 96 41.9 | S37 05.9 | | |
| 14 | 95 08.2 | 74 46.4 | 41.8 | 317 07.3 | 46.6 | 270 10.0 | 34.3 | 122 24.9 | 37.1 | Sirius | 258 47.2 | S16 42.6 | | |
| 15 | 110 10.7 | 89 46.8 | 42.4 | 332 08.4 | 46.2 | 285 12.5 | 34.3 | 137 27.3 | 37.1 | Spica | 158 46.8 | S11 07.8 | | |
| 16 | 125 13.1 | 104 47.3 | 43.0 | 347 09.5 | 45.7 | 300 15.0 | 34.3 | 152 29.7 | 37.1 | Suhail | 223 03.6 | S43 24.7 | | |
| 17 | 140 15.6 | 119 47.7 | 43.6 | 2 10.7 | 45.3 | 315 17.5 | 34.3 | 167 32.1 | 37.1 | | | | | |
| 18 | 155 18.1 | 134 48.2 | N 6 44.2 | 17 11.8 | N17 44.9 | 330 20.0 | S 0 34.3 | 182 34.5 | S12 37.1 | Vega | 80 48.7 | N38 46.5 | | |
| 19 | 170 20.5 | 149 48.6 | 44.8 | 32 12.9 | 44.4 | 345 22.5 | 34.3 | 197 36.9 | 37.1 | Zuben'ubi | 137 21.7 | S16 01.0 | | |
| 20 | 185 23.0 | 164 49.0 | 45.4 | 47 14.0 | 44.0 | 0 25.0 | 34.3 | 212 39.3 | 37.1 | | | | | |
| 21 | 200 25.5 | 179 49.5 | 46.0 | 62 15.2 | 43.6 | 15 27.5 | 34.3 | 227 41.7 | 37.0 | | | | | |
| 22 | 215 27.9 | 194 49.9 | 46.5 | 77 16.3 | 43.1 | 30 30.0 | 34.3 | 242 44.1 | 37.0 | | | | | |
| 23 | 230 30.4 | 209 50.3 | 47.1 | 92 17.4 | 42.7 | 45 32.5 | 34.2 | 257 46.6 | 37.0 | | | | | |
| | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|-----|------|------------|-------|----------|-----------|------------|-------|-------|------------|-----|-----|-----|-----|-----|-----|----|----|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | P.H. | Naut. | | Civil | 25 | | 26 | | 27 | | 28 | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | h | m | h | m | h | m | h | m | h | m | h | m |
| M A R T E S | 25 00 | 180 | 47.4 | N20 | 54.7 | 136 | 24.2 | 8.2 | N19 | 42.1 | 6.4 | 57.8 | N 72 | □ | □ | □ | □ | 06 | 03 | 08 | 30 | 10 | 40 | | |
| | 01 | 195 | 47.3 | | 55.1 | 150 | 51.4 | 8.3 | 19 | 35.7 | 6.5 | 57.8 | N 70 | □ | □ | □ | 04 | 15 | 06 | 43 | 08 | 49 | 10 | 48 | |
| | 02 | 210 | 47.3 | | 55.6 | 165 | 18.7 | 8.3 | 19 | 29.2 | 6.7 | 57.8 | 68 | /// | /// | 00 | 17 | 05 | 12 | 07 | 10 | 09 | 04 | 10 | 55 |
| | 03 | 225 | 47.2 | | 56.0 | 179 | 46.0 | 8.3 | 19 | 22.5 | 6.7 | 57.8 | 66 | /// | /// | 01 | 38 | 05 | 46 | 07 | 30 | 09 | 16 | 11 | 00 |
| | 04 | 240 | 47.1 | | 56.5 | 194 | 13.3 | 8.3 | 19 | 15.8 | 6.8 | 57.8 | 64 | /// | /// | 02 | 14 | 06 | 10 | 07 | 47 | 09 | 26 | 11 | 05 |
| | 05 | 255 | 47.1 | | 56.9 | 208 | 40.6 | 8.4 | 19 | 09.0 | 7.0 | 57.9 | 62 | /// | 00 58 | 02 | 39 | 06 | 29 | 08 | 00 | 09 | 34 | 11 | 09 |
| | 06 | 270 | 47.0 | N20 | 57.4 | 223 | 08.0 | 8.4 | N19 | 02.0 | 7.1 | 57.9 | 60 | /// | 01 44 | 02 | 59 | 06 | 45 | 08 | 11 | 09 | 41 | 11 | 12 |
| | 07 | 285 | 47.0 | | 57.8 | 237 | 35.4 | 8.5 | 18 | 54.9 | 7.2 | 57.9 | N 58 | /// | 02 13 | 03 | 16 | 06 | 58 | 08 | 21 | 09 | 48 | 11 | 15 |
| | 08 | 300 | 46.9 | | 58.3 | 252 | 02.9 | 8.4 | 18 | 47.7 | 7.3 | 57.9 | 56 | 00 53 | 02 35 | 03 | 29 | 07 | 09 | 08 | 30 | 09 | 53 | 11 | 18 |
| | 09 | 315 | 46.8 | | 58.7 | 266 | 30.3 | 8.5 | 18 | 40.4 | 7.4 | 57.9 | 54 | 01 35 | 02 52 | 03 | 41 | 07 | 19 | 08 | 37 | 09 | 58 | 11 | 20 |
| | 10 | 330 | 46.8 | | 59.1 | 280 | 57.8 | 8.5 | 18 | 33.0 | 7.6 | 57.9 | 52 | 02 01 | 03 07 | 03 | 52 | 07 | 28 | 08 | 44 | 10 | 03 | 11 | 22 |
| | 11 | 345 | 46.7 | 20 | 59.6 | 295 | 25.3 | 8.6 | 18 | 25.4 | 7.6 | 58.0 | 50 | 02 22 | 03 19 | 04 | 01 | 07 | 36 | 08 | 50 | 10 | 07 | 11 | 24 |
| | 12 | 0 | 46.6 | N21 | 00.0 | 309 | 52.9 | 8.6 | N18 | 17.8 | 7.8 | 58.0 | 45 | 02 59 | 03 45 | 04 | 21 | 07 | 53 | 09 | 03 | 10 | 16 | 11 | 29 |
| | 13 | 15 | 46.6 | | 00.5 | 324 | 20.5 | 8.6 | 18 | 10.0 | 7.8 | 58.0 | N 40 | 03 25 | 04 05 | 04 | 36 | 08 | 07 | 09 | 14 | 10 | 23 | 11 | 32 |
| | 14 | 30 | 46.5 | | 00.9 | 338 | 48.1 | 8.7 | 18 | 02.2 | 8.0 | 58.0 | 35 | 03 46 | 04 21 | 04 | 50 | 08 | 18 | 09 | 23 | 10 | 29 | 11 | 35 |
| | 15 | 45 | 46.4 | | 01.4 | 353 | 15.8 | 8.7 | 17 | 54.2 | 8.1 | 58.0 | 30 | 04 02 | 04 34 | 05 | 01 | 08 | 28 | 09 | 31 | 10 | 35 | 11 | 38 |
| | 16 | 60 | 46.4 | | 01.8 | 7 | 43.5 | 8.7 | 17 | 46.1 | 8.2 | 58.1 | 20 | 04 28 | 04 57 | 05 | 21 | 08 | 46 | 09 | 45 | 10 | 44 | 11 | 43 |
| | 17 | 75 | 46.3 | | 02.2 | 22 | 11.2 | 8.7 | 17 | 37.9 | 8.2 | 58.1 | N 10 | 04 48 | 05 15 | 05 | 38 | 09 | 01 | 09 | 57 | 10 | 52 | 11 | 47 |
| | 18 | 90 | 46.2 | N21 | 02.7 | 36 | 38.9 | 8.8 | N17 | 29.7 | 8.4 | 58.1 | 0 | 05 05 | 05 31 | 05 | 53 | 09 | 15 | 10 | 08 | 11 | 00 | 11 | 51 |
| | 19 | 105 | 46.2 | | 03.1 | 51 | 06.7 | 8.8 | 17 | 21.3 | 8.5 | 58.1 | S 10 | 05 21 | 05 47 | 06 | 09 | 09 | 29 | 10 | 20 | 11 | 08 | 11 | 55 |
| | 20 | 120 | 46.1 | | 03.6 | 65 | 34.5 | 8.9 | 17 | 12.8 | 8.6 | 58.1 | 20 | 05 35 | 06 02 | 06 | 25 | 09 | 44 | 10 | 32 | 11 | 16 | 11 | 59 |
| | 21 | 135 | 46.0 | | 04.0 | 80 | 02.4 | 8.9 | 17 | 04.2 | 8.8 | 58.2 | 30 | 05 49 | 06 18 | 06 | 44 | 10 | 02 | 10 | 45 | 11 | 26 | 12 | 04 |
| | 22 | 150 | 46.0 | | 04.4 | 94 | 30.3 | 8.9 | 16 | 55.4 | 8.8 | 58.2 | 35 | 05 57 | 06 28 | 06 | 55 | 10 | 12 | 10 | 53 | 11 | 31 | 12 | 06 |
| 23 | 165 | 45.9 | | 04.9 | 108 | 58.2 | 9.0 | 16 | 46.6 | 8.9 | 58.2 | 40 | 06 05 | 06 38 | 07 | 08 | 10 | 23 | 11 | 02 | 11 | 37 | 12 | 09 | |
| 26 00 | 180 | 45.8 | N21 | 05.3 | 123 | 26.2 | 9.0 | N16 | 37.7 | 9.0 | 58.2 | 45 | 06 13 | 06 50 | 07 | 23 | 10 | 36 | 11 | 12 | 11 | 44 | 12 | 13 | |
| 01 | 195 | 45.8 | | 05.8 | 137 | 54.2 | 9.0 | 16 | 28.7 | 9.1 | 58.2 | S 50 | 06 23 | 07 04 | 07 | 41 | 10 | 53 | 11 | 25 | 11 | 52 | 12 | 17 | |
| 02 | 210 | 45.7 | | 06.2 | 152 | 22.2 | 9.1 | 16 | 19.6 | 9.2 | 58.2 | 52 | 06 27 | 07 10 | 07 | 49 | 11 | 00 | 11 | 31 | 11 | 56 | 12 | 19 | |
| 03 | 225 | 45.6 | | 06.6 | 166 | 50.3 | 9.1 | 16 | 10.4 | 9.3 | 58.3 | 54 | 06 32 | 07 17 | 07 | 59 | 11 | 09 | 11 | 37 | 12 | 01 | 12 | 21 | |
| 04 | 240 | 45.6 | | 07.1 | 181 | 18.4 | 9.1 | 16 | 01.1 | 9.4 | 58.3 | 56 | 06 37 | 07 25 | 08 | 09 | 11 | 18 | 11 | 44 | 12 | 05 | 12 | 23 | |
| 05 | 255 | 45.5 | | 07.5 | 195 | 46.5 | 9.2 | 15 | 51.7 | 9.5 | 58.3 | 58 | 06 43 | 07 33 | 08 | 22 | 11 | 29 | 11 | 52 | 12 | 11 | 12 | 26 | |
| 06 | 270 | 45.4 | N21 | 07.9 | 210 | 14.7 | 9.2 | N15 | 42.2 | 9.6 | 58.3 | S 60 | 06 49 | 07 43 | 08 | 36 | 11 | 41 | 12 | 01 | 12 | 16 | 12 | 29 | |
| 07 | 285 | 45.4 | | 08.4 | 224 | 42.9 | 9.2 | 15 | 32.6 | 9.6 | 58.3 | | | | | | | | | | | | | | |
| 08 | 300 | 45.3 | | 08.8 | 239 | 11.1 | 9.3 | 15 | 23.0 | 9.8 | 58.3 | Lat. | Ocaso Sol | Crepúsculo | | | Ocaso Luna | | | | | | | | |
| 09 | 315 | 45.2 | | 09.2 | 253 | 39.4 | 9.3 | 15 | 13.2 | 9.9 | 58.4 | | | Civil | Naut. | 25 | 26 | 27 | 28 | | | | | | |
| 10 | 330 | 45.2 | | 09.6 | 268 | 07.7 | 9.4 | 15 | 03.3 | 9.9 | 58.4 | | | | | h m | h m | h m | h m | h m | h m | h m | h m | | |
| 11 | 345 | 45.1 | | 10.1 | 282 | 36.1 | 9.4 | 14 | 53.4 | 10.1 | 58.4 | N 72 | □ | □ | □ | □ | 02 | 04 | 01 | 26 | 01 | 26 | 01 | 04 | |
| 12 | 0 | 45.0 | N21 | 10.5 | 297 | 04.5 | 9.4 | N14 | 43.3 | 10.1 | 58.4 | N 70 | □ | □ | □ | 01 | 58 | 01 | 23 | 01 | 06 | 00 | 53 | | |
| 13 | 15 | 45.0 | | 10.9 | 311 | 32.9 | 9.5 | 14 | 33.2 | 10.2 | 58.4 | 68 | □ | □ | □ | 01 | 00 | 00 | 54 | 00 | 49 | 00 | 44 | | |
| 14 | 30 | 44.9 | | 11.4 | 326 | 01.4 | 9.4 | 14 | 23.0 | 10.3 | 58.4 | 66 | 22 | 20 | /// | /// | 00 | 26 | 00 | 33 | 00 | 36 | 00 | 37 | |
| 15 | 45 | 44.8 | | 11.8 | 340 | 29.8 | 9.6 | 14 | 12.7 | 10.4 | 58.5 | 64 | 21 | 43 | /// | /// | 00 | 01 | 00 | 16 | 00 | 25 | 00 | 31 | |
| 16 | 60 | 44.8 | | 12.2 | 354 | 58.4 | 9.5 | 14 | 02.3 | 10.5 | 58.5 | 62 | 21 | 16 | 23 01 | /// | 24 | 01 | 00 | 01 | 00 | 15 | 00 | 25 | |
| 17 | 75 | 44.7 | | 12.6 | 9 | 26.9 | 9.6 | 13 | 51.8 | 10.6 | 58.5 | 60 | 20 | 56 | 22 13 | /// | 23 | 49 | 24 | 07 | 00 | 07 | 00 | 20 | |
| 18 | 90 | 44.6 | N21 | 13.1 | 23 | 55.5 | 9.7 | N13 | 41.2 | 10.6 | 58.5 | N 58 | 20 | 40 | 21 43 | /// | 23 | 39 | 23 | 59 | 24 | 16 | 00 | 16 | |
| 19 | 105 | 44.5 | | 13.5 | 38 | 24.2 | 9.6 | 13 | 30.6 | 10.7 | 58.5 | 56 | 20 | 26 | 21 21 | 23 06 | 23 | 30 | 23 | 53 | 24 | 12 | 00 | 12 | |
| 20 | 120 | 44.5 | | 13.9 | 52 | 52.8 | 9.7 | 13 | 19.9 | 10.8 | 58.5 | 54 | 20 | 14 | 21 03 | 22 22 | 23 | 22 | 23 | 47 | 24 | 09 | 00 | 09 | |
| 21 | 135 | 44.4 | | 14.3 | 67 | 21.5 | 9.7 | 13 | 09.1 | 10.9 | 58.6 | 52 | 20 | 03 | 20 48 | 21 54 | 23 | 14 | 23 | 42 | 24 | 06 | 00 | 06 | |
| 22 | 150 | 44.3 | | 14.8 | 81 | 50.2 | 9.8 | 12 | 58.2 | 10.9 | 58.6 | 50 | 19 | 54 | 20 35 | 21 34 | 23 | 08 | 23 | 37 | 24 | 03 | 00 | 03 | |
| 23 | 165 | 44.3 | | 15.2 | 96 | 19.0 | 9.8 | 12 | 47.3 | 11.1 | 58.6 | 45 | 19 | 34 | 20 10 | 20 56 | 22 | 53 | 23 | 27 | 23 | 57 | 24 | 25 | |
| 27 00 | 180 | 44.2 | N21 | 15.6 | 110 | 47.8 | 9.8 | N12 | 36.2 | 11.1 | 58.6 | N 40 | 19 | 18 | 19 50 | 20 29 | 22 | 41 | 23 | 18 | 23 | 52 | 24 | 23 | |
| 01 | 195 | 44.1 | | 16.0 | 125 | 16.6 | 9.9 | 12 | 25.1 | 11.2 | 58.6 | 35 | 19 | 05 | 19 34 | 20 09 | 22 | 31 | 23 | 11 | 23 | 47 | 24 | 22 | |
| 02 | 210 | 44.0 | | 16.4 | 139 | 45.5 | 9.9 | 12 | 13.9 | 11.2 | 58.6 | 30 | 18 | 53 | 19 20 | 19 52 | 22 | 22 | 23 | 04 | 23 | 43 | 24 | 21 | |
| 03 | 225 | 44.0 | | 16.9 | 154 | 14.4 | 9.9 | 12 | 02.7 | 11.3 | 58.7 | 20 | 18 | 33 | 18 57 | 19 26 | 22 | 07 | 22 | 53 | 23 | 36 | 24 | 19 | |
| 04 | 240 | 43.9 | | 17.3 | 168 | 43.3 | 9.9 | 11 | 51.4 | 11.4 | 58.7 | N 10 | 18 | 16 | 18 39 | 19 06 | 21 | 53 | 22 | 43 | 23 | 30 | 24 | 17 | |
| 05 | 255 | 43.8 | | 17.7 | 183 | 12.2 | 10.0 | 11 | 40.0 | 11.5 | 58.7 | 0 | 18 | 01 | 18 23 | 18 49 | 21 | 41 | 22 | 33 | 23 | 24 | 24 | 15 | |
| 06 | 270 | 43.8 | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.4 | MARTE +1.3 | JUPITER -2.2 | SATURNO +0.8 | ESTRELLAS | | |
|-------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|-------------|-------------------|
| d h | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre | A. H. S. Dec. |
| 28 00 | 245 32.9 | 224 50.8 N 6 47.7 | 107 18.5 N17 42.3 | 60 35.0 S 0 34.2 | 272 49.0 S12 37.0 | | Acamar | 315 30.1 S40 19.8 |
| 01 | 260 35.3 | 239 51.2 48.3 | 122 19.7 41.8 | 75 37.5 34.2 | 287 51.4 37.0 | | Achernar | 335 38.3 S57 16.0 |
| 02 | 275 37.8 | 254 51.6 48.9 | 137 20.8 41.4 | 90 40.0 34.2 | 302 53.8 37.0 | | AcruX | 173 25.8 S63 04.1 |
| 03 | 290 40.2 | 269 52.1 .. 49.5 | 152 21.9 .. 41.0 | 105 42.5 .. 34.2 | 317 56.2 .. 37.0 | | Adhara | 255 24.6 S28 58.0 |
| 04 | 305 42.7 | 284 52.5 50.1 | 167 23.0 40.5 | 120 45.0 34.2 | 332 58.6 37.0 | | Aldebaran | 291 06.9 N16 29.7 |
| 05 | 320 45.2 | 299 52.9 50.7 | 182 24.2 40.1 | 135 47.5 34.2 | 348 01.0 37.0 | | | |
| 06 | 335 47.6 | 314 53.4 N 6 51.3 | 197 25.3 N17 39.7 | 150 50.0 S 0 34.2 | 3 03.4 S12 36.9 | | Alioth | 166 33.4 N55 59.8 |
| 07 | 350 50.1 | 329 53.8 51.9 | 212 26.4 39.2 | 165 52.5 34.2 | 18 05.8 36.9 | | Alkaid | 153 10.3 N49 20.8 |
| 08 | 5 52.6 | 344 54.2 52.5 | 227 27.5 38.8 | 180 55.0 34.2 | 33 08.2 36.9 | | Al Na'ir | 28 02.4 S46 59.3 |
| 09 | 20 55.0 | 359 54.6 .. 53.1 | 242 28.7 .. 38.4 | 195 57.5 .. 34.2 | 48 10.6 .. 36.9 | | Alnilam | 276 01.9 S 1 12.4 |
| 10 | 35 57.5 | 14 55.1 53.7 | 257 29.8 37.9 | 211 00.0 34.2 | 63 13.1 36.9 | | Alphard | 218 10.9 S 8 38.0 |
| 11 | 51 00.0 | 29 55.5 54.3 | 272 30.9 37.5 | 226 02.5 34.2 | 78 15.5 36.9 | | | |
| 12 | 66 02.4 | 44 55.9 N 6 54.9 | 287 32.0 N17 37.0 | 241 05.0 S 0 34.2 | 93 17.9 S12 36.9 | | Alphecca | 126 23.3 N26 44.2 |
| 13 | 81 04.9 | 59 56.3 55.5 | 302 33.2 36.6 | 256 07.4 34.2 | 108 20.3 36.9 | | Alpheratz | 357 59.2 N29 03.2 |
| 14 | 96 07.4 | 74 56.7 56.1 | 317 34.3 36.2 | 271 09.9 34.2 | 123 22.7 36.9 | | Altair | 62 22.6 N 8 51.0 |
| 15 | 111 09.8 | 89 57.2 .. 56.7 | 332 35.4 .. 35.7 | 286 12.4 .. 34.2 | 138 25.1 .. 36.8 | | Ankaa | 353 30.6 S42 20.2 |
| 16 | 126 12.3 | 104 57.6 57.3 | 347 36.5 35.3 | 301 14.9 34.2 | 153 27.5 36.8 | | Antares | 112 44.3 S26 25.1 |
| 17 | 141 14.7 | 119 58.0 57.9 | 2 37.7 34.9 | 316 17.4 34.2 | 168 29.9 36.8 | | | |
| 18 | 156 17.2 | 134 58.4 N 6 58.5 | 17 38.8 N17 34.4 | 331 19.9 S 0 34.2 | 183 32.4 S12 36.8 | | Arcturus | 146 09.1 N19 13.0 |
| 19 | 171 19.7 | 149 58.8 59.1 | 32 39.9 34.0 | 346 22.4 34.2 | 198 34.8 36.8 | | Atria | 107 59.1 S69 01.0 |
| 20 | 186 22.1 | 164 59.2 6 59.7 | 47 41.0 33.6 | 1 24.9 34.2 | 213 37.2 36.8 | | Avior | 234 24.5 S59 29.7 |
| 21 | 201 24.6 | 179 59.6 7 00.3 | 62 42.1 .. 33.1 | 16 27.4 .. 34.2 | 228 39.6 .. 36.8 | | Bellatrix | 278 48.4 N 6 20.6 |
| 22 | 216 27.1 | 195 00.1 00.9 | 77 43.3 32.7 | 31 29.9 34.2 | 243 42.0 36.8 | | Betelgeuse | 271 17.8 N 7 24.3 |
| 23 | 231 29.5 | 210 00.5 01.5 | 92 44.4 32.2 | 46 32.4 34.2 | 258 44.4 36.8 | | | |
| 29 00 | 246 32.0 | 225 00.9 N 7 02.1 | 107 45.5 N17 31.8 | 61 34.8 S 0 34.2 | 273 46.8 S12 36.8 | | Canopus | 264 03.3 S52 41.7 |
| 01 | 261 34.5 | 240 01.3 02.7 | 122 46.6 31.4 | 76 37.3 34.2 | 288 49.2 36.7 | | Capella | 280 57.1 N45 59.5 |
| 02 | 276 36.9 | 255 01.7 03.3 | 137 47.8 30.9 | 91 39.8 34.2 | 303 51.7 36.7 | | Deneb | 49 41.5 N45 15.3 |
| 03 | 291 39.4 | 270 02.1 .. 03.9 | 152 48.9 .. 30.5 | 106 42.3 .. 34.2 | 318 54.1 .. 36.7 | | Denebola | 182 48.8 N14 36.5 |
| 04 | 306 41.8 | 285 02.5 04.5 | 167 50.0 30.0 | 121 44.8 34.2 | 333 56.5 36.7 | | Diphda | 349 11.1 S18 01.2 |
| 05 | 321 44.3 | 300 02.9 05.2 | 182 51.1 29.6 | 136 47.3 34.2 | 348 58.9 36.7 | | | |
| 06 | 336 46.8 | 315 03.3 N 7 05.8 | 197 52.3 N17 29.2 | 151 49.8 S 0 34.2 | 4 01.3 S12 36.7 | | Dubhe | 194 09.8 N61 47.4 |
| 07 | 351 49.2 | 330 03.7 06.4 | 212 53.4 28.7 | 166 52.3 34.2 | 19 03.7 36.7 | | Elnath | 278 31.9 N28 36.1 |
| 08 | 6 51.7 | 345 04.1 07.0 | 227 54.5 28.3 | 181 54.8 34.2 | 34 06.1 36.7 | | Eltanin | 90 52.6 N51 29.3 |
| S 09 | 21 54.2 | 0 04.5 .. 07.6 | 242 55.6 .. 27.8 | 196 57.2 .. 34.2 | 49 08.5 .. 36.7 | | Enif | 34 01.7 N 9 50.7 |
| A 10 | 36 56.6 | 15 04.9 08.2 | 257 56.7 27.4 | 211 59.7 34.2 | 64 11.0 36.7 | | Fomalhaut | 15 40.5 S29 39.2 |
| B 11 | 51 59.1 | 30 05.3 08.8 | 272 57.9 27.0 | 227 02.2 34.2 | 79 13.4 36.6 | | | |
| A 12 | 67 01.6 | 45 05.7 N 7 09.4 | 287 59.0 N17 26.5 | 242 04.7 S 0 34.2 | 94 15.8 S12 36.6 | | Gacrux | 172 17.4 S57 05.0 |
| D 13 | 82 04.0 | 60 06.1 10.0 | 303 00.1 26.1 | 257 07.2 34.2 | 109 18.2 36.6 | | Giennah | 176 07.6 S17 30.6 |
| O 14 | 97 06.5 | 75 06.5 10.7 | 318 01.2 25.6 | 272 09.7 34.2 | 124 20.6 36.6 | | Hadar | 149 08.7 S60 20.8 |
| 15 | 112 09.0 | 90 06.9 .. 11.3 | 333 02.4 .. 25.2 | 287 12.2 .. 34.2 | 139 23.0 .. 36.6 | | Hamal | 328 18.0 N23 25.8 |
| 16 | 127 11.4 | 105 07.3 11.9 | 348 03.5 24.8 | 302 14.6 34.2 | 154 25.5 36.6 | | Kaus Aust. | 84 03.3 S34 23.2 |
| 17 | 142 13.9 | 120 07.7 12.5 | 3 04.6 24.3 | 317 17.1 34.2 | 169 27.9 36.6 | | | |
| 18 | 157 16.3 | 135 08.1 N 7 13.1 | 18 05.7 N17 23.9 | 332 19.6 S 0 34.2 | 184 30.3 S12 36.6 | | Kochab | 137 18.3 N74 11.0 |
| 19 | 172 18.8 | 150 08.5 13.7 | 33 06.8 23.4 | 347 22.1 34.3 | 199 32.7 36.6 | | Markab | 13 53.3 N15 10.2 |
| 20 | 187 21.3 | 165 08.9 14.4 | 48 08.0 23.0 | 2 24.6 34.3 | 214 35.1 36.6 | | Menkar | 314 31.0 N 4 03.8 |
| 21 | 202 23.7 | 180 09.2 .. 15.0 | 63 09.1 .. 22.5 | 17 27.1 .. 34.3 | 229 37.5 .. 36.6 | | Menkent | 148 25.0 S36 20.5 |
| 22 | 217 26.2 | 195 09.6 15.6 | 78 10.2 22.1 | 32 29.5 34.3 | 244 40.0 36.6 | | Miaplacidus | 221 43.2 S69 41.8 |
| 23 | 232 28.7 | 210 10.0 16.2 | 93 11.3 21.7 | 47 32.0 34.3 | 259 42.4 36.5 | | | |
| 30 00 | 247 31.1 | 225 10.4 N 7 16.8 | 108 12.4 N17 21.2 | 62 34.5 S 0 34.3 | 274 44.8 S12 36.5 | | Mirfak | 309 02.4 N49 50.2 |
| 01 | 262 33.6 | 240 10.8 17.4 | 123 13.6 20.8 | 77 37.0 34.3 | 289 47.2 36.5 | | Nunki | 76 16.6 S26 18.2 |
| 02 | 277 36.1 | 255 11.2 18.1 | 138 14.7 20.3 | 92 39.5 34.3 | 304 49.6 36.5 | | Peacock | 53 42.4 S56 45.1 |
| 03 | 292 38.5 | 270 11.5 .. 18.7 | 153 15.8 .. 19.9 | 107 42.0 .. 34.3 | 319 52.0 .. 36.5 | | Pollux | 243 46.3 N28 02.5 |
| 04 | 307 41.0 | 285 11.9 19.3 | 168 16.9 19.4 | 122 44.4 34.3 | 334 54.5 36.5 | | Procyon | 245 15.6 N 5 14.4 |
| 05 | 322 43.5 | 300 12.3 19.9 | 183 18.1 19.0 | 137 46.9 34.3 | 349 56.9 36.5 | | | |
| 06 | 337 45.9 | 315 12.7 N 7 20.5 | 198 19.2 N17 18.6 | 152 49.4 S 0 34.3 | 4 59.3 S12 36.5 | | Rasalhague | 96 20.0 N12 33.8 |
| 07 | 352 48.4 | 330 13.1 21.2 | 213 20.3 18.1 | 167 51.9 34.3 | 20 01.7 36.5 | | Regulus | 207 59.5 N11 59.9 |
| 08 | 7 50.8 | 345 13.4 21.8 | 228 21.4 17.7 | 182 54.4 34.3 | 35 04.1 36.5 | | Rigel | 281 26.8 S 8 12.6 |
| O 09 | 22 53.3 | 0 13.8 .. 22.4 | 243 22.5 .. 17.2 | 197 56.8 .. 34.3 | 50 06.5 .. 36.5 | | Rigel Kent. | 140 11.6 S60 48.7 |
| M 10 | 37 55.8 | 15 14.2 23.0 | 258 23.7 16.8 | 212 59.3 34.3 | 65 09.0 36.5 | | Sabik | 102 29.4 S15 43.0 |
| I 11 | 52 58.2 | 30 14.6 23.7 | 273 24.8 16.3 | 228 01.8 34.3 | 80 11.4 36.4 | | | |
| N 12 | 68 00.7 | 45 14.9 N 7 24.3 | 288 25.9 N17 15.9 | 243 04.3 S 0 34.3 | 95 13.8 S12 36.4 | | Schedar | 349 58.0 N56 29.9 |
| G 13 | 83 03.2 | 60 15.3 24.9 | 303 27.0 15.4 | 258 06.8 34.3 | 110 16.2 36.4 | | Shaula | 96 41.9 S37 05.9 |
| O 14 | 98 05.6 | 75 15.7 25.5 | 318 28.1 15.0 | 273 09.2 34.3 | 125 18.6 36.4 | | Sirius | 258 47.2 S16 42.6 |
| 15 | 113 08.1 | 90 16.1 .. 26.2 | 333 29.3 .. 14.5 | 288 11.7 .. 34.3 | 140 21.1 .. 36.4 | | Spica | 158 46.8 S11 07.8 |
| 16 | 128 10.6 | 105 16.4 26.8 | 348 30.4 14.1 | 303 14.2 34.3 | 155 23.5 36.4 | | Suhail | 223 03.7 S43 24.7 |
| 17 | 143 13.0 | 120 16.8 27.4 | 3 31.5 13.7 | 318 16.7 34.3 | 170 25.9 36.4 | | | |
| 18 | 158 15.5 | 135 17.2 N 7 28.1 | 18 32.6 N17 13.2 | 333 19.2 S 0 34.4 | 185 28.3 S12 36.4 | | Vega | 80 48.7 N38 46.6 |
| 19 | 173 17.9 | 150 17.5 28.7 | 33 33.7 12.8 | 348 21.6 34.4 | 200 30.7 36.4 | | Zuben'ubi | 137 21.7 S16 01.0 |
| 20 | 188 20.4 | 165 17.9 29.3 | 48 34.9 12.3 | 3 24.1 34.4 | 215 33.2 36.4 | | | |
| 21 | 203 22.9 | 180 18.3 .. 29.9 | 63 36.0 .. 11.9 | 18 26.6 .. 34.4 | 230 35.6 .. 36.4 | | | |
| 22 | 218 25.3 | 195 18.6 30.6 | 78 37.1 11.4 | 33 29.1 34.4 | 245 38.0 36.4 | | | |
| 23 | 233 27.8 | 210 19.0 31.2 | 93 38.2 11.0 | 48 31.5 34.4 | 260 40.4 36.4 | | | |
| Pas. Mer. 7 | h m 32.6 | v 0.4 d 0.6 | v 1.1 d 0.4 | v 2.5 d 0.0 | v 2.4 d 0.0 | | | |
| | | | | | | | Venus | 338 28.9 9 00 |
| | | | | | | | Marte | 221 13.5 16 48 |
| | | | | | | | Júpiter | 175 02.9 19 50 |
| | | | | | | | Saturno | 27 14.8 5 44 |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|---------------------------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-------|-----------|------------------|-------|------------|-------|-------|---------|--|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 28 | 29 | 30 | 31 | | | | | | |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | | | | | | | |
| V I E R N E S | 00 | 180 | 42.4 | N21 | 25.5 | 98 | 27.3 | 10.5 | N | 7 | 51.3 | 12.6 | 59.0 | N 72 | □ | □ | □ | 10 40 | 12 45 | 14 53 | 17 08 | |
| | 01 | 195 | 42.3 | | 25.9 | 112 | 56.8 | 10.4 | | 7 | 38.7 | 12.6 | 59.0 | N 70 | □ | □ | □ | 10 48 | 12 45 | 14 43 | 16 47 | |
| | 02 | 210 | 42.3 | | 26.3 | 127 | 26.2 | 10.5 | | 7 | 26.1 | 12.7 | 59.0 | 68 | □ | □ | □ | 10 55 | 12 44 | 14 36 | 16 30 | |
| | 03 | 225 | 42.2 | | 26.7 | 141 | 55.7 | 10.5 | | 7 | 13.4 | 12.7 | 59.0 | 66 | /// | /// | 01 25 | 11 00 | 12 44 | 14 29 | 16 17 | |
| | 04 | 240 | 42.1 | | 27.1 | 156 | 25.2 | 10.5 | | 7 | 00.7 | 12.8 | 59.0 | 64 | /// | /// | 02 06 | 11 05 | 12 44 | 14 24 | 16 06 | |
| | 05 | 255 | 42.0 | | 27.5 | 170 | 54.7 | 10.5 | | 6 | 47.9 | 12.8 | 59.0 | 62 | /// | 00 39 | 02 33 | 11 09 | 12 44 | 14 19 | 15 57 | |
| | 06 | 270 | 42.0 | N21 | 28.0 | 185 | 24.2 | 10.6 | N | 6 | 35.1 | 12.9 | 59.0 | 60 | /// | 01 35 | 02 54 | 11 12 | 12 43 | 14 16 | 15 49 | |
| | 07 | 285 | 41.9 | | 28.4 | 199 | 53.8 | 10.5 | | 6 | 22.2 | 12.9 | 59.1 | N 58 | /// | 02 06 | 03 11 | 11 15 | 12 43 | 14 12 | 15 42 | |
| | 08 | 300 | 41.8 | | 28.8 | 214 | 23.3 | 10.6 | | 6 | 09.3 | 12.9 | 59.1 | 56 | 00 35 | 02 29 | 03 25 | 11 18 | 12 43 | 14 09 | 15 36 | |
| | 09 | 315 | 41.7 | | 29.2 | 228 | 52.9 | 10.5 | | 5 | 56.4 | 13.0 | 59.1 | 54 | 01 27 | 02 48 | 03 38 | 11 20 | 12 43 | 14 06 | 15 31 | |
| | 10 | 330 | 41.6 | | 29.6 | 243 | 22.4 | 10.6 | | 5 | 43.4 | 13.0 | 59.1 | 52 | 01 56 | 03 03 | 03 49 | 11 22 | 12 43 | 14 04 | 15 26 | |
| | 11 | 345 | 41.6 | | 30.0 | 257 | 52.0 | 10.6 | | 5 | 30.4 | 13.0 | 59.1 | 50 | 02 17 | 03 16 | 03 58 | 11 24 | 12 43 | 14 02 | 15 21 | |
| | 12 | 0 | 41.5 | N21 | 30.4 | 272 | 21.6 | 10.6 | N | 5 | 17.4 | 13.1 | 59.1 | 45 | 02 56 | 03 42 | 04 18 | 11 29 | 12 42 | 13 57 | 15 12 | |
| | 13 | 15 | 41.4 | | 30.7 | 286 | 51.2 | 10.7 | | 5 | 04.3 | 13.1 | 59.1 | N 40 | 03 23 | 04 03 | 04 35 | 11 32 | 12 42 | 13 53 | 15 04 | |
| | 14 | 30 | 41.3 | | 31.1 | 301 | 20.9 | 10.6 | | 4 | 51.2 | 13.2 | 59.1 | 35 | 03 44 | 04 19 | 04 48 | 11 35 | 12 42 | 13 49 | 14 57 | |
| | 15 | 45 | 41.3 | | 31.5 | 315 | 50.5 | 10.6 | | 4 | 38.0 | 13.1 | 59.2 | 30 | 04 01 | 04 33 | 05 00 | 11 38 | 12 42 | 13 46 | 14 51 | |
| | 16 | 60 | 41.2 | | 31.9 | 330 | 20.1 | 10.7 | | 4 | 24.9 | 13.2 | 59.2 | 20 | 04 27 | 04 56 | 05 20 | 11 43 | 12 41 | 13 41 | 14 41 | |
| | 17 | 75 | 41.1 | | 32.3 | 344 | 49.8 | 10.6 | | 4 | 11.7 | 13.3 | 59.2 | N 10 | 04 48 | 05 15 | 05 38 | 11 47 | 12 41 | 13 36 | 14 32 | |
| | 18 | 90 | 41.0 | N21 | 32.7 | 359 | 19.4 | 10.6 | N | 3 | 58.4 | 13.2 | 59.2 | 0 | 05 06 | 05 32 | 05 54 | 11 51 | 12 41 | 13 32 | 14 24 | |
| | 19 | 105 | 40.9 | | 33.1 | 13 | 49.0 | 10.7 | | 3 | 45.2 | 13.3 | 59.2 | S 10 | 05 21 | 05 47 | 06 10 | 11 55 | 12 41 | 13 28 | 14 16 | |
| | 20 | 120 | 40.9 | | 33.5 | 28 | 18.7 | 10.6 | | 3 | 31.9 | 13.3 | 59.2 | 20 | 05 36 | 06 03 | 06 27 | 11 59 | 12 41 | 13 23 | 14 07 | |
| | 21 | 135 | 40.8 | | 33.9 | 42 | 48.3 | 10.7 | | 3 | 18.6 | 13.3 | 59.2 | 30 | 05 51 | 06 20 | 06 46 | 12 04 | 12 41 | 13 18 | 13 58 | |
| | 22 | 150 | 40.7 | | 34.3 | 57 | 18.0 | 10.7 | | 3 | 05.3 | 13.4 | 59.2 | 35 | 05 58 | 06 30 | 06 57 | 12 06 | 12 41 | 13 15 | 13 52 | |
| 23 | 165 | 40.6 | | 34.7 | 71 | 47.7 | 10.6 | | 2 | 51.9 | 13.4 | 59.3 | 40 | 06 07 | 06 40 | 07 10 | 12 09 | 12 41 | 13 12 | 13 46 | | |
| S A B A D O | 00 | 180 | 40.5 | N21 | 35.1 | 86 | 17.3 | 10.7 | N | 2 | 38.5 | 13.4 | 59.3 | 45 | 06 16 | 06 52 | 07 25 | 12 13 | 12 41 | 13 09 | 13 38 | |
| | 01 | 195 | 40.5 | | 35.5 | 100 | 47.0 | 10.6 | | 2 | 25.1 | 13.4 | 59.3 | S 50 | 06 26 | 07 07 | 07 44 | 12 17 | 12 40 | 13 04 | 13 30 | |
| | 02 | 210 | 40.4 | | 35.9 | 115 | 16.6 | 10.7 | | 2 | 11.7 | 13.4 | 59.3 | 52 | 06 30 | 07 13 | 07 53 | 12 19 | 12 40 | 13 02 | 13 26 | |
| | 03 | 225 | 40.3 | | 36.2 | 129 | 46.3 | 10.6 | | 1 | 58.3 | 13.5 | 59.3 | 54 | 06 35 | 07 20 | 08 02 | 12 21 | 12 40 | 13 00 | 13 21 | |
| | 04 | 240 | 40.2 | | 36.6 | 144 | 15.9 | 10.7 | | 1 | 44.8 | 13.4 | 59.3 | 56 | 06 41 | 07 28 | 08 14 | 12 23 | 12 40 | 12 58 | 13 17 | |
| | 05 | 255 | 40.1 | | 37.0 | 158 | 45.6 | 10.6 | | 1 | 31.4 | 13.5 | 59.3 | 58 | 06 46 | 07 37 | 08 26 | 12 26 | 12 40 | 12 55 | 13 11 | |
| | 06 | 270 | 40.0 | N21 | 37.4 | 173 | 15.2 | 10.6 | N | 1 | 17.9 | 13.5 | 59.3 | S 60 | 06 53 | 07 47 | 08 41 | 12 29 | 12 40 | 12 52 | 13 05 | |
| | 07 | 285 | 40.0 | | 37.8 | 187 | 44.8 | 10.7 | | 1 | 04.4 | 13.5 | 59.3 | | | | | | | | | |
| | 08 | 300 | 39.9 | | 38.2 | 202 | 14.5 | 10.6 | | 0 | 50.9 | 13.5 | 59.3 | Lat. | Ocaso Sol | Crepúsculo Civil | | Ocaso Luna | | | | |
| | 09 | 315 | 39.8 | | 38.6 | 216 | 44.1 | 10.6 | | 0 | 37.4 | 13.5 | 59.4 | 28 | | | | 28 | 29 | 30 | 31 | |
| | 10 | 330 | 39.7 | | 38.9 | 231 | 13.7 | 10.6 | | 0 | 23.9 | 13.5 | 59.4 | | | | | | | | | |
| D O M I N G O | 11 | 345 | 39.6 | | 39.3 | 245 | 43.3 | 10.6 | N | 0 | 10.4 | 13.5 | 59.4 | N 72 | □ | □ | □ | 01 04 | 00 45 | 00 27 | {00 08} | |
| | 12 | 0 | 39.5 | N21 | 39.7 | 260 | 12.9 | 10.6 | S | 0 | 03.1 | 13.6 | 59.4 | N 70 | □ | □ | □ | 00 53 | 00 42 | 00 31 | 00 20 | |
| | 13 | 15 | 39.5 | | 40.1 | 274 | 42.5 | 10.5 | | 0 | 16.7 | 13.5 | 59.4 | 68 | □ | □ | □ | 00 44 | 00 39 | 00 34 | 00 29 | |
| | 14 | 30 | 39.4 | | 40.5 | 289 | 12.0 | 10.6 | | 0 | 30.2 | 13.5 | 59.4 | 66 | 22 33 | /// | /// | 00 37 | 00 37 | 00 37 | 00 37 | |
| | 15 | 45 | 39.3 | | 40.9 | 303 | 41.6 | 10.5 | | 0 | 43.7 | 13.6 | 59.4 | 64 | 21 51 | /// | /// | 00 31 | 00 35 | 00 40 | 00 44 | |
| | 16 | 60 | 39.2 | | 41.2 | 318 | 11.1 | 10.6 | | 0 | 57.3 | 13.5 | 59.4 | 62 | 21 23 | 23 24 | /// | 00 25 | 00 34 | 00 42 | 00 50 | |
| | 17 | 75 | 39.1 | | 41.6 | 332 | 40.7 | 10.5 | | 1 | 10.8 | 13.5 | 59.4 | 60 | 21 02 | 22 22 | /// | 00 20 | 00 32 | 00 44 | 00 56 | |
| | 18 | 90 | 39.0 | N21 | 42.0 | 347 | 10.2 | 10.5 | S | 1 | 24.3 | 13.6 | 59.4 | N 58 | 20 45 | 21 50 | /// | 00 16 | 00 31 | 00 45 | 01 00 | |
| | 19 | 105 | 39.0 | | 42.4 | 1 | 39.7 | 10.4 | | 1 | 37.9 | 13.5 | 59.4 | 56 | 20 30 | 21 27 | 23 27 | 00 12 | 00 30 | 00 47 | 01 04 | |
| | 20 | 120 | 38.9 | | 42.8 | 16 | 09.1 | 10.5 | | 1 | 51.4 | 13.5 | 59.5 | 54 | 20 18 | 21 08 | 22 31 | 00 09 | 00 29 | 00 48 | 01 08 | |
| | 21 | 135 | 38.8 | | 43.1 | 30 | 38.6 | 10.4 | | 2 | 04.9 | 13.5 | 59.5 | 52 | 20 07 | 20 53 | 22 01 | 00 06 | 00 28 | 00 49 | 01 11 | |
| 22 | 150 | 38.7 | | 43.5 | 45 | 08.0 | 10.4 | | 2 | 18.4 | 13.5 | 59.5 | 50 | 19 57 | 20 39 | 21 39 | 00 03 | 00 27 | 00 50 | 01 15 | | |
| 23 | 165 | 38.6 | | 43.9 | 59 | 37.4 | 10.4 | | 2 | 31.9 | 13.5 | 59.5 | 45 | 19 37 | 20 13 | 21 00 | 24 25 | 00 25 | 00 53 | 01 21 | | |
| S D. | 00 | 180 | 38.5 | N21 | 44.3 | 74 | 06.8 | 10.4 | S | 2 | 45.4 | 13.5 | 59.5 | N 40 | 19 20 | 19 52 | 20 33 | 24 23 | 00 23 | 00 55 | 01 27 | |
| | 01 | 195 | 38.5 | | 44.6 | 88 | 36.2 | 10.4 | | 2 | 58.9 | 13.4 | 59.5 | 35 | 19 07 | 19 36 | 20 11 | 24 22 | 00 22 | 00 56 | 01 32 | |
| | 02 | 210 | 38.4 | | 45.0 | 103 | 05.6 | 10.3 | | 3 | 12.3 | 13.5 | 59.5 | 30 | 18 55 | 19 22 | 19 54 | 24 21 | 00 21 | 00 58 | 01 36 | |
| | 03 | 225 | 38.3 | | 45.4 | 117 | 34.9 | 10.3 | | 3 | 25.8 | 13.4 | 59.5 | 20 | 18 35 | 18 59 | 19 27 | 24 19 | 00 19 | 01 01 | 01 44 | |
| | 04 | 240 | 38.2 | | 45.8 | 132 | 04.2 | 10.3 | | 3 | 39.2 | 13.5 | 59.5 | N 10 | 18 17 | 18 40 | 19 07 | 24 17 | 00 17 | 01 03 | 01 50 | |
| | 05 | 255 | 38.1 | | 46.1 | 146 | 33.5 | 10.2 | | 3 | 52.7 | 13.4 | 59.5 | 0 | 18 01 | 18 23 | 18 49 | 24 15 | 00 15 | 01 05 | 01 57 | |
| | 06 | 270 | 38.0 | N21 | 46.5 | 161 | 02.7 | 10.2 | S | 4 | 06.1 | 13.3 | 59.5 | S 10 | 17 45 | 18 07 | 18 34 | 24 13 | 00 13 | 01 07 | 02 03 | |
| | 07 | 285 | 37.9 | | 46.9 | 175 | 31.9 | 10.2 | | 4 | 19.4 | 13.4 | 59.5 | 20 | 17 28 | 17 52 | 18 19 | 24 11 | 00 11 | 01 10 | 02 09 | |
| | 08 | 300 | 37.9 | | 47.2 | 190 | 01.1 | 10.2 | | 4 | 32.8 | 13.3 | 59.5 | 30 | 17 09 | 17 34 | 18 04 | 24 08 | 00 08 | 01 12 | 02 17 | |
| | 09 | 315 | 37.8 | | 47.6 | 204 | 30.3 | 10.1 | | 4 | 46.1 | 13.4 | 59.5 | 35 | 16 57 | 17 25 | 17 56 | 24 07 | 00 07 | 01 14 | 02 21 | |
| | 10 | 330 | 37.7 | | 48.0 | 218 | 59.4 | 10.1 | | 4 | 59.5 | 13.2 | 59.6 | 40 | 16 44 | 17 14 | 17 48 | 24 05 | 00 05 | 01 16 | 02 26 | |
| 11 | 345 | 37.6 | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|----------------|--------|------|------|------|--------|------|--------|-----|------|------------|-------|----------|-----------|-------|-------|-----------|------------------|--|--|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. | | | Naut. | Civil | | 31 | 1 | 2 | 3 | | | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | h | m | h | m | h | m |
| LUNES | 00 | 180 | 36.4 | N21 | 53.1 | 61 | 43.8 | 9.6 | S | 8 | 02.6 | 12.8 | 59.6 | N 72 | □ | □ | □ | 17 08 | 19 52 | ■ | ■ | |
| | 01 | 195 | 36.4 | | 53.4 | 76 | 12.4 | 9.6 | | | 8 | 15.4 | 12.8 | 59.6 | N 70 | □ | □ | □ | 16 47 | 19 02 | ■ | ■ |
| | 02 | 210 | 36.3 | | 53.8 | 90 | 41.0 | 9.5 | | | 8 | 28.2 | 12.7 | 59.6 | 68 | □ | □ | □ | 16 30 | 18 31 | 20 39 | ■ |
| | 03 | 225 | 36.2 | | 54.1 | 105 | 09.5 | 9.5 | | | 8 | 40.9 | 12.6 | 59.6 | 66 | /// | /// | 01 12 | 16 17 | 18 08 | 19 59 | 21 42 |
| | 04 | 240 | 36.1 | | 54.5 | 119 | 38.0 | 9.4 | | | 8 | 53.5 | 12.7 | 59.6 | 64 | /// | /// | 01 58 | 16 06 | 17 50 | 19 32 | 21 03 |
| | 05 | 255 | 36.0 | | 54.8 | 134 | 06.4 | 9.4 | | | 9 | 06.2 | 12.5 | 59.6 | 62 | /// | /// | 02 27 | 15 57 | 17 35 | 19 11 | 20 36 |
| | 06 | 270 | 35.9 | N21 | 55.2 | 148 | 34.8 | 9.4 | S | 9 | 18.7 | 12.5 | 59.6 | 60 | /// | 01 26 | 02 49 | 15 49 | 17 23 | 18 54 | 20 15 | |
| | 07 | 285 | 35.8 | | 55.6 | 163 | 03.2 | 9.3 | | | 9 | 31.2 | 12.5 | 59.6 | N 58 | /// | 02 00 | 03 07 | 15 42 | 17 12 | 18 39 | 19 58 |
| | 08 | 300 | 35.7 | | 55.9 | 177 | 31.5 | 9.2 | | | 9 | 43.7 | 12.4 | 59.6 | 56 | /// | 02 25 | 03 22 | 15 36 | 17 03 | 18 27 | 19 44 |
| | 09 | 315 | 35.6 | | 56.3 | 191 | 59.7 | 9.2 | | | 9 | 56.1 | 12.3 | 59.6 | 54 | 01 18 | 02 44 | 03 35 | 15 31 | 16 55 | 18 16 | 19 31 |
| | 10 | 330 | 35.5 | | 56.6 | 206 | 27.9 | 9.2 | | | 10 | 08.4 | 12.3 | 59.6 | 52 | 01 50 | 03 00 | 03 46 | 15 26 | 16 48 | 18 07 | 19 20 |
| | 11 | 345 | 35.5 | | 57.0 | 220 | 56.1 | 9.1 | | | 10 | 20.7 | 12.2 | 59.6 | 50 | 02 13 | 03 13 | 03 56 | 15 21 | 16 41 | 17 59 | 19 11 |
| | 12 | 0 | 35.4 | N21 | 57.3 | 235 | 24.2 | 9.1 | S10 | 32.9 | 12.1 | 59.6 | 45 | 02 53 | 03 40 | 04 17 | 15 12 | 16 27 | 17 41 | 18 50 | | |
| | 13 | 15 | 35.3 | | 57.7 | 249 | 52.3 | 9.0 | | | 10 | 45.0 | 12.1 | 59.6 | N 40 | 03 21 | 04 01 | 04 33 | 15 04 | 16 16 | 17 26 | 18 34 |
| | 14 | 30 | 35.2 | | 58.0 | 264 | 20.3 | 9.0 | | | 10 | 57.1 | 12.1 | 59.6 | 35 | 03 42 | 04 18 | 04 47 | 14 57 | 16 06 | 17 14 | 18 20 |
| | 15 | 45 | 35.1 | | 58.4 | 278 | 48.3 | 8.9 | | | 11 | 09.2 | 11.9 | 59.6 | 30 | 04 00 | 04 32 | 04 59 | 14 51 | 15 57 | 17 03 | 18 08 |
| | 16 | 60 | 35.0 | | 58.7 | 293 | 16.2 | 8.9 | | | 11 | 21.1 | 11.9 | 59.6 | 20 | 04 27 | 04 56 | 05 20 | 14 41 | 15 43 | 16 45 | 17 47 |
| | 17 | 75 | 34.9 | | 59.1 | 307 | 44.1 | 8.8 | | | 11 | 33.0 | 11.9 | 59.6 | N 10 | 04 48 | 05 15 | 05 38 | 14 32 | 15 30 | 16 29 | 17 29 |
| | 18 | 90 | 34.8 | N21 | 59.4 | 322 | 11.9 | 8.8 | S11 | 44.9 | 11.7 | 59.6 | 0 | 05 06 | 05 32 | 05 54 | 14 24 | 15 18 | 16 15 | 17 13 | | |
| | 19 | 105 | 34.7 | 21 | 59.8 | 336 | 39.7 | 8.7 | | | 11 | 56.6 | 11.7 | 59.6 | S 10 | 05 22 | 05 48 | 06 10 | 14 16 | 15 07 | 16 00 | 16 56 |
| | 20 | 120 | 34.6 | 22 | 00.1 | 351 | 07.4 | 8.6 | | | 12 | 08.3 | 11.6 | 59.6 | 20 | 05 37 | 06 04 | 06 28 | 14 07 | 14 54 | 15 45 | 16 38 |
| | 21 | 135 | 34.5 | | 00.4 | 5 | 35.0 | 8.7 | | | 12 | 19.9 | 11.6 | 59.6 | 30 | 05 52 | 06 22 | 06 48 | 13 58 | 14 40 | 15 27 | 16 18 |
| | 22 | 150 | 34.4 | | 00.8 | 20 | 02.7 | 8.5 | | | 12 | 31.5 | 11.4 | 59.6 | 35 | 06 00 | 06 31 | 06 59 | 13 52 | 14 32 | 15 17 | 16 06 |
| 23 | 165 | 34.3 | | 01.1 | 34 | 30.2 | 8.6 | | | 12 | 42.9 | 11.4 | 59.6 | 40 | 06 09 | 06 42 | 07 12 | 13 46 | 14 23 | 15 05 | 15 53 | |
| MARTES | 00 | 180 | 34.3 | N22 | 01.5 | 48 | 57.8 | 8.4 | S12 | 54.3 | 11.3 | 59.6 | S 50 | 06 29 | 07 09 | 07 47 | 13 30 | 13 59 | 14 34 | 15 17 | | |
| | 01 | 195 | 34.2 | | 01.8 | 63 | 25.2 | 8.4 | | 13 | 05.6 | 11.3 | 59.6 | 52 | 06 33 | 07 16 | 07 56 | 13 26 | 13 53 | 14 26 | 15 08 | |
| | 02 | 210 | 34.1 | | 02.2 | 77 | 52.6 | 8.4 | | 13 | 16.9 | 11.1 | 59.6 | 54 | 06 38 | 07 24 | 08 06 | 13 21 | 13 47 | 14 18 | 14 58 | |
| | 03 | 225 | 34.0 | | 02.5 | 92 | 20.0 | 8.3 | | 13 | 28.0 | 11.1 | 59.6 | 56 | 06 44 | 07 32 | 08 18 | 13 17 | 13 39 | 14 08 | 14 46 | |
| | 04 | 240 | 33.9 | | 02.8 | 106 | 47.3 | 8.3 | | 13 | 39.1 | 11.0 | 59.6 | 58 | 06 50 | 07 41 | 08 31 | 13 11 | 13 31 | 13 57 | 14 32 | |
| | 05 | 255 | 33.8 | | 03.2 | 121 | 14.6 | 8.2 | | 13 | 50.1 | 10.9 | 59.6 | S 60 | 06 56 | 07 52 | 08 46 | 13 05 | 13 22 | 13 44 | 14 17 | |
| | 06 | 270 | 33.7 | N22 | 03.5 | 135 | 41.8 | 8.1 | S14 | 01.0 | 10.8 | 59.6 | | | | | | | | | | |
| | 07 | 285 | 33.6 | | 03.9 | 150 | 08.9 | 8.2 | | | 14 | 11.8 | 10.8 | 59.6 | | | | | | | | |
| | 08 | 300 | 33.5 | | 04.2 | 164 | 36.1 | 8.0 | | | 14 | 22.6 | 10.6 | 59.6 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | |
| | 09 | 315 | 33.4 | | 04.5 | 179 | 03.1 | 8.0 | | | 14 | 33.2 | 10.5 | 59.6 | | | | | 31 | 1 | 2 | 3 |
| | 10 | 330 | 33.3 | | 04.9 | 193 | 30.1 | 7.9 | | | 14 | 43.7 | 10.5 | 59.6 | | | | | h m | h m | h m | h m |
| | 11 | 345 | 33.2 | | 05.2 | 207 | 57.0 | 7.9 | | | 14 | 54.2 | 10.4 | 59.6 | N 72 | □ | □ | □ | { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ 08 ₄₂ } | 22 54 | ■ | ■ |
| | 12 | 0 | 33.1 | N22 | 05.5 | 222 | 23.9 | 7.9 | S15 | 04.6 | 10.2 | 59.5 | N 70 | □ | □ | □ | 00 20 | { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ 06 ₄₅ } | ■ | ■ | | |
| | 13 | 15 | 33.0 | | 05.9 | 236 | 50.8 | 7.8 | | | 15 | 14.8 | 10.2 | 59.5 | 68 | □ | □ | □ | 00 29 | 00 24 | 00 17 | 00 08 |
| | 14 | 30 | 32.9 | | 06.2 | 251 | 17.6 | 7.7 | | | 15 | 25.0 | 10.1 | 59.5 | 66 | 22 47 | /// | /// | 00 37 | 00 38 | 00 41 | 00 49 |
| | 15 | 45 | 32.8 | | 06.5 | 265 | 44.3 | 7.7 | | | 15 | 35.1 | 10.0 | 59.5 | 64 | 22 00 | /// | /// | 00 44 | 00 51 | 01 00 | 01 16 |
| | 16 | 60 | 32.7 | | 06.9 | 280 | 11.0 | 7.6 | | | 15 | 45.1 | 9.9 | 59.5 | 62 | 21 30 | /// | /// | 00 50 | 01 01 | 01 16 | 01 38 |
| | 17 | 75 | 32.6 | | 07.2 | 294 | 37.6 | 7.6 | | | 15 | 55.0 | 9.8 | 59.5 | 60 | 21 07 | 22 32 | /// | 00 56 | 01 10 | 01 29 | 01 56 |
| | 18 | 90 | 32.5 | N22 | 07.5 | 309 | 04.2 | 7.5 | S16 | 04.8 | 9.6 | 59.5 | N 58 | 20 49 | 21 57 | /// | 01 00 | 01 18 | 01 40 | 02 10 | | |
| | 19 | 105 | 32.4 | | 07.9 | 323 | 30.7 | 7.5 | | | 16 | 14.4 | 9.6 | 59.5 | 56 | 20 34 | 21 32 | /// | 01 04 | 01 25 | 01 50 | 02 23 |
| | 20 | 120 | 32.4 | | 08.2 | 337 | 57.2 | 7.4 | | | 16 | 24.0 | 9.5 | 59.5 | 54 | 20 22 | 21 13 | 22 40 | 01 08 | 01 31 | 01 59 | 02 34 |
| | 21 | 135 | 32.3 | | 08.5 | 352 | 23.6 | 7.4 | | | 16 | 33.5 | 9.4 | 59.5 | 52 | 20 10 | 20 57 | 22 07 | 01 11 | 01 37 | 02 07 | 02 44 |
| | 22 | 150 | 32.2 | | 08.9 | 6 | 50.0 | 7.3 | | | 16 | 42.9 | 9.2 | 59.5 | 50 | 20 00 | 20 43 | 21 44 | 01 15 | 01 42 | 02 14 | 02 52 |
| 23 | 165 | 32.1 | | 09.2 | 21 | 16.3 | 7.3 | | | 16 | 52.1 | 9.2 | 59.5 | 45 | 19 39 | 20 16 | 21 04 | 01 21 | 01 53 | 02 29 | 03 11 | |
| MIÉRCOLES | 00 | 180 | 32.0 | N22 | 09.5 | 35 | 42.6 | 7.3 | S17 | 01.3 | 9.0 | 59.4 | N 40 | 19 23 | 19 55 | 20 35 | 01 27 | 02 02 | 02 41 | 03 26 | | |
| | 01 | 195 | 31.9 | | 09.8 | 50 | 08.9 | 7.1 | | 17 | 10.3 | 9.0 | 59.4 | 35 | 19 09 | 19 38 | 20 14 | 01 32 | 02 10 | 02 52 | 03 39 | |
| | 02 | 210 | 31.8 | | 10.2 | 64 | 35.0 | 7.2 | | 17 | 19.3 | 8.8 | 59.4 | 30 | 18 56 | 19 23 | 19 56 | 01 36 | 02 17 | 03 01 | 03 50 | |
| | 03 | 225 | 31.7 | | 10.5 | 79 | 01.2 | 7.1 | | 17 | 28.1 | 8.7 | 59.4 | 20 | 18 36 | 19 00 | 19 29 | 01 44 | 02 29 | 03 18 | 04 10 | |
| | 04 | 240 | 31.6 | | 10.8 | 93 | 27.3 | 7.0 | | 17 | 36.8 | 8.6 | 59.4 | N 10 | 18 18 | 18 41 | 19 08 | 01 50 | 02 40 | 03 32 | 04 27 | |
| | 05 | 255 | 31.5 | | 11.1 | 107 | 53.3 | 7.0 | | 17 | 45.4 | 8.5 | 59.4 | 0 | 18 01 | 18 24 | 18 50 | 01 57 | 02 50 | 03 45 | 04 42 | |
| | 06 | 270 | 31.4 | N22 | 11.5 | 122 | 19.3 | 6.9 | S17 | 53.9 | 8.3 | 59.4 | S 10 | 17 45 | 18 08 | 18 34 | 02 03 | 03 00 | 03 58 | 04 58 | | |
| | 07 | 285 | 31.3 | | 11.8 | 136 | 45.2 | 6.9 | | | 18 | 02.2 | 8.3 | 59.4 | 20 | 17 28 | 17 51 | 18 19 | 02 09 | 03 10 | 04 13 | 05 15 |
| | 08 | 300 | 31.2 | | 12.1 | 151 | 11.1 | 6.9 | | | 18 | 10.5 | 8.1 | 59.4 | 30 | 17 08 | 17 34 | 18 03 | 02 17 | 03 23 | 04 29 | 05 34 |
| | 09 | 315 | 31.1 | | 12.4 | 165 | 37.0 | 6.8 | | | 18 | 18.6 | 8.0 | 59.3 | 35 | 16 56 | 17 24 | 17 55 | 02 21 | 03 30 | 04 38 | 05 46 |
| | 10 | 330 | 31.0 | | 12.8 | 180 | 02.8 | 6.8 | | | 18 | 26. | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.3 | | | MARTE +1.4 | | | JUPITER -2.2 | | | SATURNO +0.8 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|--------------|------|--------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 3 00 | 251 27.7 | 225 43.0 N 8 | 18.5 | 109 59.8 N16 | 37.9 | 66 31.5 S 0 | 35.2 | 278 37.6 S12 | 36.0 | Acamar | 315 30.1 S40 | 19.7 | | | | | | |
| 01 | 266 30.1 | 240 43.3 | 19.2 | 125 01.0 | 37.4 | 81 34.0 | 35.2 | 293 40.0 | 36.0 | Achernar | 335 38.2 S57 | 15.9 | | | | | | |
| 02 | 281 32.6 | 255 43.5 | 19.8 | 140 02.1 | 36.9 | 96 36.4 | 35.2 | 308 42.4 | 36.0 | Acrux | 173 25.8 S63 | 04.2 | | | | | | |
| 03 | 296 35.1 | 270 43.8 | 20.5 | 155 03.2 | 36.5 | 111 38.9 | 35.2 | 323 44.9 | 36.0 | Adhara | 255 24.6 S28 | 58.0 | | | | | | |
| 04 | 311 37.5 | 285 44.1 | 21.2 | 170 04.3 | 36.0 | 126 41.3 | 35.2 | 338 47.3 | 36.0 | Aldebaran | 291 06.9 N16 | 29.7 | | | | | | |
| 05 | 326 40.0 | 300 44.4 | 21.8 | 185 05.4 | 35.6 | 141 43.8 | 35.3 | 353 49.7 | 36.0 | | | | | | | | | |
| 06 | 341 42.5 | 315 44.7 N 8 | 22.5 | 200 06.5 N16 | 35.1 | 156 46.2 S 0 | 35.3 | 8 52.2 S12 | 36.0 | Alioth | 166 33.5 N55 | 59.9 | | | | | | |
| 07 | 356 44.9 | 330 45.0 | 23.2 | 215 07.6 | 34.6 | 171 48.7 | 35.3 | 23 54.6 | 36.0 | Alkaid | 153 10.3 N49 | 20.9 | | | | | | |
| 08 | 11 47.4 | 345 45.3 | 23.8 | 230 08.8 | 34.2 | 186 51.2 | 35.3 | 38 57.0 | 36.0 | Al Na'ir | 28 02.3 S46 | 59.3 | | | | | | |
| J 09 | 26 49.9 | 0 45.6 | 24.5 | 245 09.9 | 33.7 | 201 53.6 | 35.3 | 53 59.5 | 36.0 | Alnilam | 276 01.9 S 1 | 12.4 | | | | | | |
| U 10 | 41 52.3 | 15 45.9 | 25.2 | 260 11.0 | 33.3 | 216 56.1 | 35.3 | 69 01.9 | 36.0 | Alphard | 218 10.9 S 8 | 38.0 | | | | | | |
| E 11 | 56 54.8 | 30 46.1 | 25.8 | 275 12.1 | 32.8 | 231 58.5 | 35.4 | 84 04.3 | 36.0 | | | | | | | | | |
| V 12 | 71 57.3 | 45 46.4 N 8 | 26.5 | 290 13.2 N16 | 32.3 | 247 01.0 S 0 | 35.4 | 99 06.8 S12 | 36.0 | Alphecca | 126 23.3 N26 | 44.2 | | | | | | |
| E 13 | 86 59.7 | 60 46.7 | 27.2 | 305 14.3 | 31.9 | 262 03.4 | 35.4 | 114 09.2 | 36.0 | Alpheratz | 357 59.1 N29 | 03.2 | | | | | | |
| S 14 | 102 02.2 | 75 47.0 | 27.8 | 320 15.5 | 31.4 | 277 05.9 | 35.4 | 129 11.6 | 36.0 | Altair | 62 22.6 N 8 | 51.1 | | | | | | |
| 15 | 117 04.6 | 90 47.3 | 28.5 | 335 16.6 | 30.9 | 292 08.3 | 35.4 | 144 14.1 | 36.0 | Ankaa | 353 30.6 S42 | 20.2 | | | | | | |
| 16 | 132 07.1 | 105 47.6 | 29.2 | 350 17.7 | 30.5 | 307 10.8 | 35.4 | 159 16.5 | 36.0 | Antares | 112 44.3 S26 | 25.1 | | | | | | |
| 17 | 147 09.6 | 120 47.8 | 29.9 | 5 18.8 | 30.0 | 322 13.2 | 35.5 | 174 18.9 | 36.0 | | | | | | | | | |
| 18 | 162 12.0 | 135 48.1 N 8 | 30.5 | 20 19.9 N16 | 29.6 | 337 15.7 S 0 | 35.5 | 189 21.4 S12 | 36.0 | Arcturus | 146 09.1 N19 | 13.0 | | | | | | |
| 19 | 177 14.5 | 150 48.4 | 31.2 | 35 21.0 | 29.1 | 352 18.1 | 35.5 | 204 23.8 | 36.0 | Atria | 107 59.0 S69 | 01.0 | | | | | | |
| 20 | 192 17.0 | 165 48.7 | 31.9 | 50 22.1 | 28.6 | 7 20.6 | 35.5 | 219 26.2 | 36.0 | Avior | 234 24.6 S59 | 29.6 | | | | | | |
| 21 | 207 19.4 | 180 48.9 | 32.5 | 65 23.3 | 28.2 | 22 23.0 | 35.5 | 234 28.7 | 36.0 | Bellatrix | 278 48.4 N 6 | 20.6 | | | | | | |
| 22 | 222 21.9 | 195 49.2 | 33.2 | 80 24.4 | 27.7 | 37 25.5 | 35.6 | 249 31.1 | 36.0 | Betelgeuse | 271 17.8 N 7 | 24.3 | | | | | | |
| 23 | 237 24.4 | 210 49.5 | 33.9 | 95 25.5 | 27.2 | 52 27.9 | 35.6 | 264 33.6 | 36.0 | | | | | | | | | |
| 4 00 | 252 26.8 | 225 49.8 N 8 | 34.6 | 110 26.6 N16 | 26.8 | 67 30.4 S 0 | 35.6 | 279 36.0 S12 | 36.0 | Canopus | 264 03.3 S52 | 41.7 | | | | | | |
| 01 | 267 29.3 | 240 50.0 | 35.2 | 125 27.7 | 26.3 | 82 32.8 | 35.6 | 294 38.4 | 36.0 | Capella | 280 57.1 N45 | 59.5 | | | | | | |
| 02 | 282 31.8 | 255 50.3 | 35.9 | 140 28.8 | 25.8 | 97 35.3 | 35.6 | 309 40.9 | 36.0 | Deneb | 49 41.4 N45 | 15.3 | | | | | | |
| 03 | 297 34.2 | 270 50.6 | 36.6 | 155 30.0 | 25.4 | 112 37.7 | 35.6 | 324 43.3 | 36.0 | Denebola | 182 48.8 N14 | 36.5 | | | | | | |
| 04 | 312 36.7 | 285 50.9 | 37.3 | 170 31.1 | 24.9 | 127 40.1 | 35.7 | 339 45.7 | 36.0 | Diphda | 349 11.0 S18 | 01.2 | | | | | | |
| 05 | 327 39.1 | 300 51.1 | 37.9 | 185 32.2 | 24.4 | 142 42.6 | 35.7 | 354 48.2 | 36.0 | | | | | | | | | |
| 06 | 342 41.6 | 315 51.4 N 8 | 38.6 | 200 33.3 N16 | 24.0 | 157 45.0 S 0 | 35.7 | 9 50.6 S12 | 36.0 | Dubhe | 194 09.9 N61 | 47.4 | | | | | | |
| 07 | 357 44.1 | 330 51.7 | 39.3 | 215 34.4 | 23.5 | 172 47.5 | 35.7 | 24 53.1 | 36.0 | Elnath | 278 31.9 N28 | 36.1 | | | | | | |
| 08 | 12 46.5 | 345 51.9 | 40.0 | 230 35.5 | 23.1 | 187 49.9 | 35.7 | 39 55.5 | 36.0 | Eltanin | 90 52.6 N51 | 29.3 | | | | | | |
| V 09 | 27 49.0 | 0 52.2 | 40.6 | 245 36.6 | 22.6 | 202 52.4 | 35.8 | 54 57.9 | 36.0 | Enif | 34 01.7 N 9 | 50.7 | | | | | | |
| U 10 | 42 51.5 | 15 52.5 | 41.3 | 260 37.8 | 22.1 | 217 54.8 | 35.8 | 70 00.4 | 36.0 | Fomalhaut | 15 40.4 S29 | 39.2 | | | | | | |
| E 11 | 57 53.9 | 30 52.7 | 42.0 | 275 38.9 | 21.7 | 232 57.3 | 35.8 | 85 02.8 | 36.0 | | | | | | | | | |
| R 12 | 72 56.4 | 45 53.0 N 8 | 42.7 | 290 40.0 N16 | 21.2 | 247 59.7 S 0 | 35.8 | 100 05.2 S12 | 36.0 | Gacrux | 172 17.4 S57 | 05.0 | | | | | | |
| N 13 | 87 58.9 | 60 53.3 | 43.3 | 305 41.1 | 20.7 | 263 02.2 | 35.8 | 115 07.7 | 36.0 | Gienah | 176 07.6 S17 | 30.6 | | | | | | |
| E 14 | 103 01.3 | 75 53.5 | 44.0 | 320 42.2 | 20.3 | 278 04.6 | 35.9 | 130 10.1 | 36.0 | Hadar | 149 08.8 S60 | 20.8 | | | | | | |
| S 15 | 118 03.8 | 90 53.8 | 44.7 | 335 43.3 | 19.8 | 293 07.0 | 35.9 | 145 12.6 | 36.0 | Hamal | 328 18.0 N23 | 25.8 | | | | | | |
| 16 | 133 06.2 | 105 54.0 | 45.4 | 350 44.4 | 19.3 | 308 09.5 | 35.9 | 160 15.0 | 36.0 | Kaus Aust. | 84 03.3 S34 | 23.2 | | | | | | |
| 17 | 148 08.7 | 120 54.3 | 46.1 | 5 45.6 | 18.9 | 323 11.9 | 35.9 | 175 17.4 | 36.0 | | | | | | | | | |
| 18 | 163 11.2 | 135 54.5 N 8 | 46.7 | 20 46.7 N16 | 18.4 | 338 14.4 S 0 | 35.9 | 190 19.9 S12 | 35.9 | Kochab | 137 18.3 N74 | 11.1 | | | | | | |
| 19 | 178 13.6 | 150 54.8 | 47.4 | 35 47.8 | 17.9 | 353 16.8 | 36.0 | 205 22.3 | 35.9 | Markab | 13 53.3 N15 | 10.2 | | | | | | |
| 20 | 193 16.1 | 165 55.1 | 48.1 | 50 48.9 | 17.5 | 8 19.3 | 36.0 | 220 24.8 | 35.9 | Menkar | 314 31.0 N 4 | 03.8 | | | | | | |
| 21 | 208 18.6 | 180 55.3 | 48.8 | 65 50.0 | 17.0 | 23 21.7 | 36.0 | 235 27.2 | 35.9 | Menkent | 148 25.0 S36 | 20.5 | | | | | | |
| 22 | 223 21.0 | 195 55.6 | 49.5 | 80 51.1 | 16.5 | 38 24.1 | 36.0 | 250 29.6 | 36.0 | Miaplacidus | 221 43.3 S69 | 41.8 | | | | | | |
| 23 | 238 23.5 | 210 55.8 | 50.1 | 95 52.2 | 16.0 | 53 26.6 | 36.1 | 265 32.1 | 36.0 | | | | | | | | | |
| 5 00 | 253 26.0 | 225 56.1 N 8 | 50.8 | 110 53.3 N16 | 15.6 | 68 29.0 S 0 | 36.1 | 280 34.5 S12 | 36.0 | Mirfak | 309 02.3 N49 | 50.2 | | | | | | |
| 01 | 268 28.4 | 240 56.3 | 51.5 | 125 54.5 | 15.1 | 83 31.5 | 36.1 | 295 37.0 | 36.0 | Nunki | 76 16.5 S26 | 18.2 | | | | | | |
| 02 | 283 30.9 | 255 56.6 | 52.2 | 140 55.6 | 14.6 | 98 33.9 | 36.1 | 310 39.4 | 36.0 | Peacock | 53 42.3 S56 | 45.1 | | | | | | |
| 03 | 298 33.4 | 270 56.8 | 52.9 | 155 56.7 | 14.2 | 113 36.4 | 36.1 | 325 41.8 | 36.0 | Pollux | 243 46.3 N28 | 02.5 | | | | | | |
| 04 | 313 35.8 | 285 57.1 | 53.5 | 170 57.8 | 13.7 | 128 38.8 | 36.2 | 340 44.3 | 36.0 | Procyon | 245 15.6 N 5 | 14.4 | | | | | | |
| 05 | 328 38.3 | 300 57.3 | 54.2 | 185 58.9 | 13.2 | 143 41.2 | 36.2 | 355 46.7 | 36.0 | | | | | | | | | |
| 06 | 343 40.7 | 315 57.6 N 8 | 54.9 | 201 00.0 N16 | 12.8 | 158 43.7 S 0 | 36.2 | 10 49.2 S12 | 36.0 | Rasalhague | 96 20.0 N12 | 33.9 | | | | | | |
| 07 | 358 43.2 | 330 57.8 | 55.6 | 216 01.1 | 12.3 | 173 46.1 | 36.2 | 25 51.6 | 36.0 | Regulus | 207 59.5 N11 | 59.9 | | | | | | |
| 08 | 13 45.7 | 345 58.1 | 56.3 | 231 02.3 | 11.8 | 188 48.6 | 36.2 | 40 54.0 | 36.0 | Rigel | 281 26.8 S 8 | 12.6 | | | | | | |
| S 09 | 28 48.1 | 0 58.3 | 57.0 | 246 03.4 | 11.4 | 203 51.0 | 36.3 | 55 56.5 | 36.0 | Rigil Kent. | 140 11.6 S60 | 48.7 | | | | | | |
| A 10 | 43 50.6 | 15 58.6 | 57.6 | 261 04.5 | 10.9 | 218 53.4 | 36.3 | 70 58.9 | 36.0 | Sabik | 102 29.4 S15 | 43.0 | | | | | | |
| B 11 | 58 53.1 | 30 58.8 | 58.3 | 276 05.6 | 10.4 | 233 55.9 | 36.3 | 86 01.4 | 36.0 | | | | | | | | | |
| A 12 | 73 55.5 | 45 59.0 N 8 | 59.0 | 291 06.7 N16 | 09.9 | 248 58.3 S 0 | 36.3 | 101 03.8 S12 | 36.0 | Schedar | 349 57.9 N56 | 29.9 | | | | | | |
| D 13 | 88 58.0 | 60 59.3 | 59.7 | 306 07.8 | 09.5 | 264 00.7 | 36.4 | 116 06.3 | 36.0 | Shaula | 96 41.8 S37 | 05.9 | | | | | | |
| O 14 | 104 00.5 | 75 59.5 | 60.4 | 321 08.9 | 09.0 | 279 03.2 | 36.4 | 131 08.7 | 36.0 | Sirius | 258 47.2 S16 | 42.6 | | | | | | |
| 15 | 119 02.9 | 90 59.8 | 61.1 | 336 10.0 | 08.5 | 294 05.6 | 36.4 | 146 11.1 | 36.0 | Spica | 158 46.8 S11 | 07.8 | | | | | | |
| 16 | 134 05.4 | 106 00.0 | 61.8 | 351 11.2 | 08.1 | 309 08.1 | 36.4 | 161 13.6 | 36.0 | Suhail | 223 03.7 S43 | 24.7 | | | | | | |
| 17 | 149 07.9 | 121 00.2 | 62.4 | 6 12.3 | 07.6 | 324 10.5 | 36.5 | 176 16.0 | 36.0 | | | | | | | | | |
| 18 | 164 10.3 | 136 00.5 N 9 | 63.1 | 21 13.4 N16 | 07.1 | 339 12.9 S 0 | 36.5 | 191 18.5 S12 | 36.0 | Vega | 80 48.7 N38 | 46.6 | | | | | | |
| 19 | 179 12.8 | 151 00.7 | 63.8 | 36 14.5 | 06.7 | 354 15.4 | 36.5 | 206 20.9 | 36.0 | Zuben'ubi | 137 21.7 S16 | 01.0 | | | | | | |
| 20 | 194 15.2 | 166 00.9 | 64.5 | 51 15.6 | 06.2 | 9 17.8 | 36.5 | 221 23.4 | 36.0 | | | | | | | | | |
| 21 | 209 17.7 | 181 01.2 | 65.2 | 66 16.7 | 05.7 | 24 20.2 | 36.6 | 236 25.8 | 36.0 | | | | | | | | | |
| 22 | 224 20.2 | 196 01.4 | 65.9 | 81 17.8 | 05.2 | 39 22.7 | 36.6 | 251 28.2 | 36.0 | Venus | 333 22.9 | 8 57 | | | | | | |
| 23 | 239 22.6 | 211 01.7 | 66.6 | 96 19.0 | 04.8 | 54 25.1 | 36.6 | 266 30.7 | 36.0 | Marte | 217 59.8 | 16 37 | | | | | | |
| | | | | | | | | | | Júpiter | 175 03.5 | 19 27 | | | | | | |
| | | | | | | | | | | Saturno | 27 09.2 | 5 21 | | | | | | |

| Pas. Mer. | h | m | v | d | v | d | v | d | v | d |
|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 7 09.0 | 0.3 | 0.7 | 1.1 | 0.5 | 2.4 | 0.0 | 2.4 | 0.0 | 2.4 | 0.0 |

| T.M.G. (TU) | ARIES | | | VENUS -4.3 | | | MARTE +1.4 | | | JUPITER -2.1 | | | SATURNO +0.8 | | | ESTRELLAS | | |
|----------------|----------|---------------|-------------------|-------------------|-------------------|-------------------|----------------|-------------------|------|--------------|------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| DOMINGO | 6 00 | 254 25.1 | 226 01.9 N 9 07.3 | 111 20.1 N16 04.3 | 69 27.5 S 0 36.6 | 281 33.1 S12 36.0 | Acamar | 315 30.0 S40 19.7 | | | | | | | | | | |
| | 01 | 269 27.6 | 241 02.1 08.0 | 126 21.2 03.8 | 84 30.0 36.6 | 296 35.6 36.0 | Achernar | 335 38.2 S57 15.9 | | | | | | | | | | |
| | 02 | 284 30.0 | 256 02.3 08.6 | 141 22.3 03.3 | 99 32.4 36.7 | 311 38.0 36.0 | Acrux | 173 25.9 S63 04.2 | | | | | | | | | | |
| | 03 | 299 32.5 | 271 02.6 ·· 09.3 | 156 23.4 ·· 02.9 | 114 34.8 ·· 36.7 | 326 40.5 ·· 36.0 | Adhara | 255 24.6 S28 58.0 | | | | | | | | | | |
| | 04 | 314 35.0 | 286 02.8 10.0 | 171 24.5 02.4 | 129 37.3 36.7 | 341 42.9 36.0 | Aldebaran | 291 06.9 N16 29.7 | | | | | | | | | | |
| | 05 | 329 37.4 | 301 03.0 10.7 | 186 25.6 01.9 | 144 39.7 36.7 | 356 45.4 36.0 | | | | | | | | | | | | |
| | 06 | 344 39.9 | 316 03.3 N 9 11.4 | 201 26.7 N16 01.5 | 159 42.1 S 0 36.8 | 11 47.8 S12 36.0 | Alioth | 166 33.5 N55 59.9 | | | | | | | | | | |
| | 07 | 359 42.3 | 331 03.5 12.1 | 216 27.9 01.0 | 174 44.6 36.8 | 26 50.2 36.0 | Alkaid | 153 10.3 N49 20.9 | | | | | | | | | | |
| | 08 | 14 44.8 | 346 03.7 12.8 | 231 29.0 00.5 | 189 47.0 36.8 | 41 52.7 36.0 | Al Na'ir | 28 02.3 S46 59.2 | | | | | | | | | | |
| | 09 | 29 47.3 | 1 03.9 ·· 13.5 | 246 30.1 16 00.0 | 204 49.4 ·· 36.8 | 56 55.1 ·· 36.0 | Alnilam | 276 01.9 S 1 12.4 | | | | | | | | | | |
| | 10 | 44 49.7 | 16 04.2 14.2 | 261 31.2 15 59.6 | 219 51.9 36.9 | 71 57.6 36.0 | Alphard | 218 10.9 S 8 38.0 | | | | | | | | | | |
| | 11 | 59 52.2 | 31 04.4 14.9 | 276 32.3 59.1 | 234 54.3 36.9 | 87 00.0 36.0 | | | | | | | | | | | | |
| | 12 | 74 54.7 | 46 04.6 N 9 15.6 | 291 33.4 N15 58.6 | 249 56.7 S 0 36.9 | 102 02.5 S12 36.0 | Alphecca | 126 23.3 N26 44.2 | | | | | | | | | | |
| | 13 | 89 57.1 | 61 04.8 16.3 | 306 34.5 58.1 | 264 59.2 37.0 | 117 04.9 36.0 | Alpheratz | 357 59.1 N29 03.2 | | | | | | | | | | |
| | 14 | 104 59.6 | 76 05.0 16.9 | 321 35.6 57.7 | 280 01.6 37.0 | 132 07.4 36.0 | Altair | 62 22.6 N 8 51.1 | | | | | | | | | | |
| | 15 | 120 02.1 | 91 05.3 ·· 17.6 | 336 36.7 ·· 57.2 | 295 04.0 ·· 37.0 | 147 09.8 ·· 36.0 | Ankaa | 353 30.5 S42 20.2 | | | | | | | | | | |
| | 16 | 135 04.5 | 106 05.5 18.3 | 351 37.9 56.7 | 310 06.5 37.0 | 162 12.3 36.0 | Antares | 112 44.3 S26 25.1 | | | | | | | | | | |
| | 17 | 150 07.0 | 121 05.7 19.0 | 6 39.0 56.2 | 325 08.9 37.1 | 177 14.7 36.0 | | | | | | | | | | | | |
| | 18 | 165 09.5 | 136 05.9 N 9 19.7 | 21 40.1 N15 55.8 | 340 11.3 S 0 37.1 | 192 17.2 S12 36.0 | Arcturus | 146 09.1 N19 13.0 | | | | | | | | | | |
| | 19 | 180 11.9 | 151 06.1 20.4 | 36 41.2 55.3 | 355 13.7 37.1 | 207 19.6 36.0 | Atria | 107 59.0 S69 01.0 | | | | | | | | | | |
| | 20 | 195 14.4 | 166 06.3 21.1 | 51 42.3 54.8 | 10 16.2 37.1 | 222 22.1 36.0 | Avior | 234 24.6 S59 29.6 | | | | | | | | | | |
| | 21 | 210 16.8 | 181 06.6 ·· 21.8 | 66 43.4 ·· 54.3 | 25 18.6 ·· 37.2 | 237 24.5 ·· 36.0 | Bellatrix | 278 48.4 N 6 20.6 | | | | | | | | | | |
| | 22 | 225 19.3 | 196 06.8 22.5 | 81 44.5 53.9 | 40 21.0 37.2 | 252 26.9 36.0 | Betelgeuse | 271 17.8 N 7 24.3 | | | | | | | | | | |
| 23 | 240 21.8 | 211 07.0 23.2 | 96 45.6 53.4 | 55 23.5 37.2 | 267 29.4 36.0 | | | | | | | | | | | | | |
| LUNES | 7 00 | 255 24.2 | 226 07.2 N 9 23.9 | 111 46.8 N15 52.9 | 70 25.9 S 0 37.2 | 282 31.8 S12 36.0 | Canopus | 264 03.3 S52 41.7 | | | | | | | | | | |
| | 01 | 270 26.7 | 241 07.4 24.6 | 126 47.9 52.4 | 85 28.3 37.3 | 297 34.3 36.0 | Capella | 280 57.1 N45 59.5 | | | | | | | | | | |
| | 02 | 285 29.2 | 256 07.6 25.3 | 141 49.0 51.9 | 100 30.7 37.3 | 312 36.7 36.0 | Deneb | 49 41.4 N45 15.3 | | | | | | | | | | |
| | 03 | 300 31.6 | 271 07.8 ·· 26.0 | 156 50.1 ·· 51.5 | 115 33.2 ·· 37.3 | 327 39.2 ·· 36.0 | Denebola | 182 48.8 N14 36.5 | | | | | | | | | | |
| | 04 | 315 34.1 | 286 08.0 26.7 | 171 51.2 51.0 | 130 35.6 37.4 | 342 41.6 36.0 | Diphda | 349 11.0 S18 01.2 | | | | | | | | | | |
| | 05 | 330 36.6 | 301 08.2 27.4 | 186 52.3 50.5 | 145 38.0 37.4 | 357 44.1 36.0 | | | | | | | | | | | | |
| | 06 | 345 39.0 | 316 08.4 N 9 28.1 | 201 53.4 N15 50.0 | 160 40.4 S 0 37.4 | 12 46.5 S12 36.1 | Dubhe | 194 09.9 N61 47.4 | | | | | | | | | | |
| | 07 | 0 41.5 | 331 08.7 28.8 | 216 54.5 49.6 | 175 42.9 37.4 | 27 49.0 36.1 | Elnath | 278 31.9 N28 36.1 | | | | | | | | | | |
| | 08 | 15 44.0 | 346 08.9 29.5 | 231 55.6 49.1 | 190 45.3 37.5 | 42 51.4 36.1 | Eltanin | 90 52.6 N51 29.4 | | | | | | | | | | |
| | 09 | 30 46.4 | 1 09.1 ·· 30.2 | 246 56.8 ·· 48.6 | 205 47.7 ·· 37.5 | 57 53.9 ·· 36.1 | Enif | 34 01.7 N 9 50.7 | | | | | | | | | | |
| | 10 | 45 48.9 | 16 09.3 30.9 | 261 57.9 48.1 | 220 50.1 37.5 | 72 56.3 36.1 | Fomalhaut | 15 40.4 S29 39.2 | | | | | | | | | | |
| | 11 | 60 51.3 | 31 09.5 31.6 | 276 59.0 47.7 | 235 52.6 37.6 | 87 58.8 36.1 | | | | | | | | | | | | |
| | 12 | 75 53.8 | 46 09.7 N 9 32.3 | 292 00.1 N15 47.2 | 250 55.0 S 0 37.6 | 103 01.2 S12 36.1 | Gacrux | 172 17.4 S57 05.0 | | | | | | | | | | |
| | 13 | 90 56.3 | 61 09.9 33.0 | 307 01.2 46.7 | 265 57.4 37.6 | 118 03.7 36.1 | Gienah | 176 07.6 S17 30.6 | | | | | | | | | | |
| | 14 | 105 58.7 | 76 10.1 33.7 | 322 02.3 46.2 | 280 59.8 37.6 | 133 06.1 36.1 | Hadar | 149 08.8 S60 20.8 | | | | | | | | | | |
| | 15 | 121 01.2 | 91 10.3 ·· 34.4 | 337 03.4 ·· 45.7 | 296 02.3 ·· 37.7 | 148 08.6 ·· 36.1 | Hamal | 328 17.9 N23 25.8 | | | | | | | | | | |
| | 16 | 136 03.7 | 106 10.5 35.1 | 352 04.5 45.3 | 311 04.7 37.7 | 163 11.0 36.1 | Kaus Aust. | 84 03.2 S34 23.2 | | | | | | | | | | |
| | 17 | 151 06.1 | 121 10.7 35.8 | 7 05.6 44.8 | 326 07.1 37.7 | 178 13.5 36.1 | | | | | | | | | | | | |
| | 18 | 166 08.6 | 136 10.9 N 9 36.5 | 22 06.8 N15 44.3 | 341 09.5 S 0 37.8 | 193 15.9 S12 36.1 | Kochab | 137 18.4 N74 11.1 | | | | | | | | | | |
| | 19 | 181 11.1 | 151 11.1 37.2 | 37 07.9 43.8 | 356 12.0 37.8 | 208 18.4 36.1 | Markab | 13 53.2 N15 10.2 | | | | | | | | | | |
| | 20 | 196 13.5 | 166 11.3 37.9 | 52 09.0 43.3 | 11 14.4 37.8 | 223 20.8 36.1 | Menkar | 314 31.0 N 4 03.8 | | | | | | | | | | |
| | 21 | 211 16.0 | 181 11.4 ·· 38.6 | 67 10.1 ·· 42.9 | 26 16.8 ·· 37.8 | 238 23.3 ·· 36.1 | Menkent | 148 25.0 S36 20.5 | | | | | | | | | | |
| | 22 | 226 18.5 | 196 11.6 39.3 | 82 11.2 42.4 | 41 19.2 37.9 | 253 25.7 36.1 | Miaplacidus | 221 43.3 S69 41.8 | | | | | | | | | | |
| 23 | 241 20.9 | 211 11.8 40.0 | 97 12.3 41.9 | 56 21.6 37.9 | 268 28.2 36.1 | | | | | | | | | | | | | |
| MARTES | 8 00 | 256 23.4 | 226 12.0 N 9 40.7 | 112 13.4 N15 41.4 | 71 24.1 S 0 37.9 | 283 30.7 S12 36.1 | Mirfak | 309 02.3 N49 50.2 | | | | | | | | | | |
| | 01 | 271 25.8 | 241 12.2 41.4 | 127 14.5 40.9 | 86 26.5 38.0 | 298 33.1 36.1 | Nunki | 76 16.5 S26 18.2 | | | | | | | | | | |
| | 02 | 286 28.3 | 256 12.4 42.1 | 142 15.6 40.5 | 101 28.9 38.0 | 313 35.6 36.1 | Peacock | 53 42.3 S56 45.1 | | | | | | | | | | |
| | 03 | 301 30.8 | 271 12.6 ·· 42.8 | 157 16.7 ·· 40.0 | 116 31.3 ·· 38.0 | 328 38.0 ·· 36.1 | Pollux | 243 46.3 N28 02.5 | | | | | | | | | | |
| | 04 | 316 33.2 | 286 12.8 43.5 | 172 17.9 39.5 | 131 33.7 38.1 | 343 40.5 36.1 | Procyon | 245 15.6 N 5 14.4 | | | | | | | | | | |
| | 05 | 331 35.7 | 301 13.0 44.2 | 187 19.0 39.0 | 146 36.2 38.1 | 358 42.9 36.2 | | | | | | | | | | | | |
| | 06 | 346 38.2 | 316 13.2 N 9 44.9 | 202 20.1 N15 38.5 | 161 38.6 S 0 38.1 | 13 45.4 S12 36.2 | Rasalhague | 96 20.0 N12 33.9 | | | | | | | | | | |
| | 07 | 1 40.6 | 331 13.3 45.6 | 217 21.2 38.0 | 176 41.0 38.2 | 28 47.8 36.2 | Regulus | 207 59.5 N11 59.9 | | | | | | | | | | |
| | 08 | 16 43.1 | 346 13.5 46.3 | 232 22.3 37.6 | 191 43.4 38.2 | 43 50.3 36.2 | Rigel | 281 26.8 S 8 12.6 | | | | | | | | | | |
| | 09 | 31 45.6 | 1 13.7 ·· 47.0 | 247 23.4 ·· 37.1 | 206 45.8 ·· 38.2 | 58 52.7 ·· 36.2 | Rigel Kent. | 140 11.6 S60 48.7 | | | | | | | | | | |
| | 10 | 46 48.0 | 16 13.9 47.7 | 262 24.5 36.6 | 221 48.3 38.2 | 73 55.2 36.2 | Sabik | 102 29.4 S15 43.0 | | | | | | | | | | |
| | 11 | 61 50.5 | 31 14.1 48.4 | 277 25.6 36.1 | 236 50.7 38.3 | 88 57.6 36.2 | | | | | | | | | | | | |
| | 12 | 76 52.9 | 46 14.3 N 9 49.1 | 292 26.7 N15 35.6 | 251 53.1 S 0 38.3 | 104 00.1 S12 36.2 | Schedar | 349 57.9 N56 29.9 | | | | | | | | | | |
| | 13 | 91 55.4 | 61 14.4 49.8 | 307 27.8 35.2 | 266 55.5 38.3 | 119 02.5 36.2 | Shaula | 96 41.8 S37 05.9 | | | | | | | | | | |
| | 14 | 106 57.9 | 76 14.6 50.5 | 322 29.0 34.7 | 281 57.9 38.4 | 134 05.0 36.2 | Sirius | 258 47.2 S16 42.5 | | | | | | | | | | |
| | 15 | 122 00.3 | 91 14.8 ·· 51.3 | 337 30.1 ·· 34.2 | 297 00.3 ·· 38.4 | 149 07.5 ·· 36.2 | Spica | 158 46.8 S11 07.8 | | | | | | | | | | |
| | 16 | 137 02.8 | 106 15.0 52.0 | 352 31.2 33.7 | 312 02.8 38.4 | 164 09.9 36.2 | Suhail | 223 03.7 S43 24.7 | | | | | | | | | | |
| | 17 | 152 05.3 | 121 15.2 52.7 | 7 32.3 33.2 | 327 05.2 38.5 | 179 12.4 36.2 | | | | | | | | | | | | |
| | 18 | 167 07.7 | 136 15.3 N 9 53.4 | 22 33.4 N15 32.7 | 342 07.6 S 0 38.5 | 194 14.8 S12 36.2 | Vega | 80 48.7 N38 46.6 | | | | | | | | | | |
| | 19 | 182 10.2 | 151 15.5 54.1 | 37 34.5 32.3 | 357 10.0 38.5 | 209 17.3 36.2 | Zuben'ubi | 137 21.7 S16 01.0 | | | | | | | | | | |
| | 20 | 197 12.7 | 166 15.7 54.8 | 52 35.6 31.8 | 12 12.4 38.6 | 224 19.7 36.2 | | | | | | | | | | | | |
| | 21 | 212 15.1 | 181 15.9 ·· 55.5 | 67 36.7 ·· 31.3 | 27 14.8 ·· 38.6 | 239 22.2 ·· 36.2 | | | | | | | | | | | | |
| | 22 | 227 17.6 | 196 16.0 56.2 | 82 37.8 30.8 | 42 17.3 38.6 | 254 24.6 36.2 | Venus | 330 43.0 8 55 | | | | | | | | | | |
| 23 | 242 20.1 | 211 16.2 56.9 | 97 38.9 30.3 | 57 19.7 38.7 | 269 27.1 36.2 | Marte | 216 22.5 16 32 | | | | | | | | | | | |
| | | | | | | Júpiter | 175 01.6 19 15 | | | | | | | | | | | |
| | | | | | | Saturno | 27 07.6 5 09 | | | | | | | | | | | |

| Pas. Mer. | h m | v | d | v | d | v | d | v | d |
|-----------|------|-----|-----|-----|-----|-----|-----|-----|-----|
| 6 | 57.2 | 0.2 | 0.7 | 1.1 | 0.5 | 2.4 | 0.0 | 2.5 | 0.0 |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|----------|----------|----------|---------|----------|------|------------|-------|-----------|------------|-------|------------|-------|-------|------------------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 6 | 7 | 8 | 9 | |
| | | | | | | | | | | | | h m | h m | h m | h m | |
| DOMINGO | 00 | 180 21.9 | N22 37.8 | 340 29.5 | 7.8 | S21 27.1 | 3.8 | 57.4 | N 72 | □ | □ | □ | ■ | ■ | 01 19 | 00 41 |
| | 01 | 195 21.8 | 38.0 | 354 56.3 | 7.9 | 21 23.3 | 4.0 | 57.4 | N 70 | □ | □ | □ | ■ | 01 13 | 00 36 | 00 19 |
| | 02 | 210 21.7 | 38.3 | 9 23.2 | 8.0 | 21 19.3 | 4.1 | 57.3 | 68 | □ | □ | □ | 00 30 | 00 15 | 00 07 | {00 01 23 56} |
| | 03 | 225 21.6 | 38.6 | 23 50.2 | 8.0 | 21 15.2 | 4.2 | 57.3 | 66 | /// | /// | 00 45 | 23 41 | 23 46 | 23 47 | 23 48 |
| | 04 | 240 21.5 | 38.8 | 38 17.2 | 8.1 | 21 11.0 | 4.3 | 57.3 | 64 | /// | /// | 01 45 | 23 16 | 23 28 | 23 35 | 23 40 |
| | 05 | 255 21.4 | 39.1 | 52 44.3 | 8.2 | 21 06.7 | 4.4 | 57.2 | 62 | /// | /// | 02 18 | 22 56 | 23 14 | 23 25 | 23 34 |
| | 06 | 270 21.2 | N22 39.3 | 67 11.5 | 8.3 | S21 02.3 | 4.5 | 57.2 | 60 | /// | 01 10 | 02 42 | 22 40 | 23 01 | 23 17 | 23 28 |
| | 07 | 285 21.1 | 39.6 | 81 38.8 | 8.3 | 20 57.8 | 4.7 | 57.2 | N 58 | /// | 01 50 | 03 01 | 22 26 | 22 51 | 23 09 | 23 23 |
| | 08 | 300 21.0 | 39.8 | 96 06.1 | 8.4 | 20 53.1 | 4.7 | 57.2 | 56 | /// | 02 17 | 03 17 | 22 14 | 22 42 | 23 02 | 23 19 |
| | 09 | 315 20.9 | 40.1 | 110 33.5 | 8.5 | 20 48.4 | 4.9 | 57.1 | 54 | 01 04 | 02 37 | 03 30 | 22 04 | 22 33 | 22 56 | 23 15 |
| | 10 | 330 20.8 | 40.4 | 125 01.0 | 8.6 | 20 43.5 | 5.0 | 57.1 | 52 | 01 41 | 02 54 | 03 42 | 21 55 | 22 26 | 22 51 | 23 12 |
| | 11 | 345 20.7 | 40.6 | 139 28.6 | 8.6 | 20 38.5 | 5.1 | 57.1 | 50 | 02 06 | 03 09 | 03 52 | 21 47 | 22 19 | 22 46 | 23 08 |
| | 12 | 0 20.6 | N22 40.9 | 153 56.2 | 8.7 | S20 33.4 | 5.2 | 57.0 | 45 | 02 48 | 03 37 | 04 14 | 21 29 | 22 05 | 22 35 | 23 01 |
| | 13 | 15 20.4 | 41.1 | 168 23.9 | 8.8 | 20 28.2 | 5.4 | 57.0 | N 40 | 03 18 | 03 59 | 04 31 | 21 15 | 21 53 | 22 26 | 22 55 |
| | 14 | 30 20.3 | 41.4 | 182 51.7 | 8.9 | 20 22.8 | 5.4 | 57.0 | 35 | 03 40 | 04 16 | 04 46 | 21 02 | 21 43 | 22 19 | 22 50 |
| | 15 | 45 20.2 | 41.6 | 197 19.6 | 9.0 | 20 17.4 | 5.5 | 56.9 | 30 | 03 58 | 04 31 | 04 58 | 20 52 | 21 34 | 22 12 | 22 46 |
| | 16 | 60 20.1 | 41.9 | 211 47.6 | 9.0 | 20 11.9 | 5.7 | 56.9 | 20 | 04 26 | 04 55 | 05 20 | 20 33 | 21 19 | 22 00 | 22 38 |
| | 17 | 75 20.0 | 42.1 | 226 15.6 | 9.1 | 20 06.2 | 5.7 | 56.9 | N 10 | 04 48 | 05 15 | 05 38 | 20 17 | 21 05 | 21 50 | 22 31 |
| | 18 | 90 19.9 | N22 42.4 | 240 43.7 | 9.2 | S20 00.5 | 5.9 | 56.9 | 0 | 05 07 | 05 33 | 05 55 | 20 02 | 20 53 | 21 40 | 22 24 |
| | 19 | 105 19.8 | 42.6 | 255 11.9 | 9.3 | 19 54.6 | 5.9 | 56.8 | S 10 | 05 23 | 05 49 | 06 12 | 19 47 | 20 40 | 21 30 | 22 18 |
| | 20 | 120 19.7 | 42.9 | 269 40.2 | 9.3 | 19 48.7 | 6.1 | 56.8 | 20 | 05 39 | 06 06 | 06 30 | 19 31 | 20 26 | 21 20 | 22 11 |
| | 21 | 135 19.5 | 43.1 | 284 08.5 | 9.5 | 19 42.6 | 6.2 | 56.8 | 30 | 05 55 | 06 24 | 06 51 | 19 12 | 20 11 | 21 08 | 22 03 |
| | 22 | 150 19.4 | 43.4 | 298 37.0 | 9.5 | 19 36.4 | 6.2 | 56.7 | 35 | 06 03 | 06 35 | 07 02 | 19 01 | 20 02 | 21 01 | 21 58 |
| 23 | 165 19.3 | 43.6 | 313 05.5 | 9.6 | 19 30.2 | 6.4 | 56.7 | 40 | 06 12 | 06 46 | 07 16 | 18 49 | 19 51 | 20 53 | 21 53 | |
| LUNES | 00 | 180 19.2 | N22 43.9 | 327 34.1 | 9.7 | S19 23.8 | 6.4 | 56.7 | 45 | 06 22 | 06 59 | 07 32 | 18 34 | 19 39 | 20 44 | 21 47 |
| | 01 | 195 19.1 | 44.1 | 342 02.8 | 9.7 | 19 17.4 | 6.6 | 56.6 | S 50 | 06 33 | 07 14 | 07 52 | 18 16 | 19 24 | 20 33 | 21 40 |
| | 02 | 210 19.0 | 44.3 | 356 31.5 | 9.9 | 19 10.8 | 6.6 | 56.6 | 52 | 06 38 | 07 21 | 08 02 | 18 07 | 19 17 | 20 28 | 21 36 |
| | 03 | 225 18.8 | 44.6 | 11 00.4 | 9.9 | 19 04.2 | 6.7 | 56.6 | 54 | 06 43 | 07 29 | 08 12 | 17 58 | 19 10 | 20 22 | 21 33 |
| | 04 | 240 18.7 | 44.8 | 25 29.3 | 10.0 | 18 57.5 | 6.9 | 56.6 | 56 | 06 49 | 07 38 | 08 25 | 17 47 | 19 01 | 20 15 | 21 28 |
| | 05 | 255 18.6 | 45.1 | 39 58.3 | 10.1 | 18 50.6 | 6.9 | 56.5 | 58 | 06 56 | 07 48 | 08 38 | 17 34 | 18 51 | 20 08 | 21 24 |
| | 06 | 270 18.5 | N22 45.3 | 54 27.4 | 10.2 | S18 43.7 | 7.0 | 56.5 | S 60 | 07 03 | 07 59 | 08 55 | 17 20 | 18 40 | 20 00 | 21 19 |
| | 07 | 285 18.4 | 45.5 | 68 56.6 | 10.2 | 18 36.7 | 7.1 | 56.5 | | | | | | | | |
| | 08 | 300 18.3 | 45.8 | 83 25.8 | 10.4 | 18 29.6 | 7.2 | 56.4 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| | 09 | 315 18.2 | 46.0 | 97 55.2 | 10.4 | 18 22.4 | 7.3 | 56.4 | | | Civil | Naut. | 6 | 7 | 8 | 9 |
| | 10 | 330 18.0 | 46.3 | 112 24.6 | 10.5 | 18 15.1 | 7.3 | 56.4 | | | | | h m | h m | h m | h m |
| | 11 | 345 17.9 | 46.5 | 126 54.1 | 10.6 | 18 07.8 | 7.5 | 56.4 | N 72 | □ | □ | □ | ■ | ■ | 05 06 | 07 20 |
| | 12 | 0 17.8 | N22 46.7 | 141 23.7 | 10.7 | S18 00.3 | 7.5 | 56.3 | N 70 | □ | □ | □ | ■ | 03 27 | 05 47 | 07 41 |
| | 13 | 15 17.7 | 47.0 | 155 53.4 | 10.7 | 17 52.8 | 7.6 | 56.3 | 68 | □ | □ | □ | 02 18 | 04 24 | 06 15 | 07 57 |
| | 14 | 30 17.6 | 47.2 | 170 23.1 | 10.9 | 17 45.2 | 7.7 | 56.3 | 66 | 23 18 | /// | /// | 03 20 | 04 58 | 06 36 | 08 10 |
| | 15 | 45 17.5 | 47.4 | 184 53.0 | 10.9 | 17 37.5 | 7.8 | 56.2 | 64 | 22 15 | /// | /// | 03 54 | 05 22 | 06 53 | 08 21 |
| | 16 | 60 17.3 | 47.7 | 199 22.9 | 11.0 | 17 29.7 | 7.9 | 56.2 | 62 | 21 41 | /// | /// | 04 19 | 05 41 | 07 06 | 08 30 |
| | 17 | 75 17.2 | 47.9 | 213 52.9 | 11.1 | 17 21.8 | 7.9 | 56.2 | 60 | 21 17 | 22 50 | /// | 04 39 | 05 57 | 07 18 | 08 38 |
| | 18 | 90 17.1 | N22 48.1 | 228 23.0 | 11.2 | S17 13.9 | 8.0 | 56.2 | N 58 | 20 58 | 22 09 | /// | 04 55 | 06 10 | 07 28 | 08 44 |
| | 19 | 105 17.0 | 48.4 | 242 53.2 | 11.2 | 17 05.9 | 8.1 | 56.1 | 56 | 20 42 | 21 42 | /// | 05 09 | 06 21 | 07 36 | 08 50 |
| | 20 | 120 16.9 | 48.6 | 257 23.4 | 11.3 | 16 57.8 | 8.1 | 56.1 | 54 | 20 28 | 21 21 | 22 56 | 05 20 | 06 31 | 07 44 | 08 56 |
| | 21 | 135 16.8 | 48.8 | 271 53.7 | 11.4 | 16 49.7 | 8.3 | 56.1 | 52 | 20 16 | 21 04 | 22 18 | 05 31 | 06 40 | 07 51 | 09 01 |
| | 22 | 150 16.6 | 49.1 | 286 24.1 | 11.5 | 16 41.4 | 8.3 | 56.0 | 50 | 20 06 | 20 50 | 21 53 | 05 40 | 06 48 | 07 57 | 09 05 |
| 23 | 165 16.5 | 49.3 | 300 54.6 | 11.6 | 16 33.1 | 8.4 | 56.0 | 45 | 19 44 | 20 21 | 21 10 | 06 00 | 07 05 | 08 10 | 09 14 | |
| MARTES | 00 | 180 16.4 | N22 49.5 | 315 25.2 | 11.7 | S16 24.7 | 8.4 | 56.0 | N 40 | 19 27 | 19 59 | 20 40 | 06 16 | 07 19 | 08 21 | 09 22 |
| | 01 | 195 16.3 | 49.8 | 329 55.9 | 11.7 | 16 16.3 | 8.6 | 56.0 | 35 | 19 12 | 19 41 | 20 18 | 06 29 | 07 30 | 08 30 | 09 29 |
| | 02 | 210 16.2 | 50.0 | 344 26.6 | 11.8 | 16 07.7 | 8.5 | 55.9 | 30 | 18 59 | 19 27 | 20 00 | 06 41 | 07 40 | 08 39 | 09 35 |
| | 03 | 225 16.0 | 50.2 | 358 57.4 | 11.9 | 15 59.2 | 8.7 | 55.9 | 20 | 18 38 | 19 02 | 19 31 | 07 01 | 07 58 | 08 52 | 09 45 |
| | 04 | 240 15.9 | 50.4 | 13 28.3 | 12.0 | 15 50.5 | 8.7 | 55.9 | N 10 | 18 20 | 18 43 | 19 09 | 07 18 | 08 13 | 09 05 | 09 54 |
| | 05 | 255 15.8 | 50.7 | 27 59.3 | 12.0 | 15 41.8 | 8.8 | 55.8 | 0 | 18 02 | 18 25 | 18 51 | 07 34 | 08 27 | 09 16 | 10 02 |
| | 06 | 270 15.7 | N22 50.9 | 42 30.3 | 12.1 | S15 33.0 | 8.9 | 55.8 | S 10 | 17 46 | 18 08 | 18 35 | 07 50 | 08 41 | 09 27 | 10 10 |
| | 07 | 285 15.6 | 51.1 | 57 01.4 | 12.2 | 15 24.1 | 8.9 | 55.8 | 20 | 17 28 | 17 51 | 18 19 | 08 07 | 08 55 | 09 39 | 10 18 |
| | 08 | 300 15.5 | 51.3 | 71 32.6 | 12.3 | 15 15.2 | 9.0 | 55.8 | 30 | 17 07 | 17 33 | 18 03 | 08 27 | 09 12 | 09 52 | 10 28 |
| | 09 | 315 15.3 | 51.6 | 86 03.9 | 12.4 | 15 06.2 | 9.0 | 55.7 | 35 | 16 55 | 17 23 | 17 54 | 08 38 | 09 22 | 10 00 | 10 34 |
| | 10 | 330 15.2 | 51.8 | 100 35.3 | 12.4 | 14 57.2 | 9.1 | 55.7 | 40 | 16 41 | 17 12 | 17 45 | 08 51 | 09 33 | 10 09 | 10 40 |
| | 11 | 345 15.1 | 52.0 | 115 06.7 | 12.5 | 14 48.1 | 9.2 | 55.7 | 45 | 16 25 | 16 55 | 17 36 | 09 06 | 09 46 | 10 19 | 10 47 |
| | 12 | 0 15.0 | N22 52.2 | 129 38.2 | 12.6 | S14 38.9 | 9.2 | 55.7 | S 50 | 16 05 | 16 43 | 17 24 | 09 25 | 10 02 | 10 32 | 10 56 |
| | 13 | 15 14.9 | 52.4 | 144 09.8 | 12.6 | 14 29.7 | 9.3 | 55.6 | 52 | 15 56 | 16 36 | 17 19 | 09 34 | 10 10 | 10 37 | 11 00 |
| | 14 | 30 14.7 | 52.7 | 158 41.4 | 12.8 | 14 20.4 | 9.3 | 55.6 | 54 | 15 45 | 16 28 | 17 14 | 09 44 | 10 18 | 10 44 | 11 05 |
| | 15 | 45 14.6 | 52.9 | 173 13.2 | 12.8 | 14 11.1 | 9.4 | 55.6 | 56 | 15 33 | 16 19 | 17 08 | 09 55 | 10 27 | 10 51 | 11 10 |
| | 16 | 60 14.5 | 53.1 | 187 45.0 | 12.8 | 14 01.7 | 9.5 | 55.6 | 58 | 15 19 | 16 10 | 17 02 | 10 08 | 10 37 | 10 59 | 11 15 |
| | 17 | 75 14.4 | 53.3 | 202 16.8 | 13.0 | 13 52.2 | 9.5 | 55.5 | S 60 | 15 02 | 15 59 | 16 55 | 10 23 | 10 49 | 11 08 | 11 21 |
| | 18 | 90 14.3 | N22 53.5 | 216 48.8 | 13.0 | S13 42.7 | 9.6 | 55.5 | | | | | | | | |
| | 19 | 105 14.1 | 53.7 | 231 20.8 | 13.1 | 13 33.1 | 9.6 | 55.5 | | | | | | | | |
| | 20 | 120 14.0 | 54.0 | 245 52.9 | 13.1 | 13 23.5 | 9.6 | 55.5 | Día | SOL | | LUNA | | | | |
| | 2 | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|---|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-------|-------|-------|---|---|---|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 9 | 10 | 11 | 12 | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | | | | |
| M I E R C O L E S | 9 00 | 180 | 13.5 | N22 | 54.8 | 304 | 01.9 | 13.4 | S12 | 44.6 | 9.8 | 55.4 | N 72 | □ | □ | □ | 00 41 | 00 19 | { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ 23 30 | |
| | 01 | 195 | 13.4 | | 55.0 | 318 | 34.3 | 13.5 | 12 | 34.8 | 9.9 | 55.3 | N 70 | □ | □ | □ | 00 19 | { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ 23 37 | | |
| | 02 | 210 | 13.3 | | 55.2 | 333 | 06.8 | 13.6 | 12 | 24.9 | 10.0 | 55.3 | 68 | □ | □ | □ | { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ { ⁰⁰ ₂₃ 23 42 | | | |
| | 03 | 225 | 13.2 | | 55.4 | 347 | 39.4 | 13.6 | 12 | 14.9 | 10.0 | 55.3 | 66 | /// | /// | 00 28 | 23 48 | 23 47 | 23 47 | 23 46 |
| | 04 | 240 | 13.1 | | 55.6 | 2 | 12.0 | 13.7 | 12 | 04.9 | 10.0 | 55.3 | 64 | /// | /// | 01 39 | 23 40 | 23 44 | 23 47 | 23 50 |
| | 05 | 255 | 12.9 | | 55.9 | 16 | 44.7 | 13.7 | 11 | 54.9 | 10.1 | 55.2 | 62 | /// | /// | 02 14 | 23 34 | 23 41 | 23 47 | 23 53 |
| | 06 | 270 | 12.8 | N22 | 56.1 | 31 | 17.4 | 13.8 | S11 | 44.8 | 10.1 | 55.2 | 60 | /// | 01 02 | 02 39 | 23 28 | 23 38 | 23 47 | 23 56 |
| | 07 | 285 | 12.7 | | 56.3 | 45 | 50.2 | 13.9 | 11 | 34.7 | 10.2 | 55.2 | N 58 | /// | 01 46 | 02 59 | 23 23 | 23 36 | 23 47 | 23 58 |
| | 08 | 300 | 12.6 | | 56.5 | 60 | 23.1 | 14.0 | 11 | 24.5 | 10.2 | 55.2 | 56 | /// | 02 14 | 03 15 | 23 19 | 23 34 | 23 47 | 24 00 |
| | 09 | 315 | 12.4 | | 56.7 | 74 | 56.1 | 14.0 | 11 | 14.3 | 10.2 | 55.2 | 54 | 00 57 | 02 35 | 03 29 | 23 15 | 23 32 | 23 47 | 24 03 |
| | 10 | 330 | 12.3 | | 56.9 | 89 | 29.1 | 14.0 | 11 | 04.1 | 10.3 | 55.1 | 52 | 01 37 | 02 52 | 03 41 | 23 12 | 23 30 | 23 47 | 24 04 |
| | 11 | 345 | 12.2 | | 57.1 | 104 | 02.1 | 14.1 | 10 | 53.8 | 10.3 | 55.1 | 50 | 02 03 | 03 07 | 03 51 | 23 08 | 23 28 | 23 47 | 24 06 |
| | 12 | 0 | 12.1 | N22 | 57.3 | 118 | 35.2 | 14.2 | S10 | 43.5 | 10.4 | 55.1 | 45 | 02 47 | 03 36 | 04 13 | 23 01 | 23 25 | 23 47 | 24 10 |
| | 13 | 15 | 12.0 | | 57.5 | 133 | 08.4 | 14.2 | 10 | 33.1 | 10.4 | 55.1 | N 40 | 03 17 | 03 58 | 04 31 | 22 55 | 23 22 | 23 47 | 24 13 |
| | 14 | 30 | 11.8 | | 57.7 | 147 | 41.6 | 14.3 | 10 | 22.7 | 10.4 | 55.0 | 35 | 03 39 | 04 16 | 04 45 | 22 50 | 23 20 | 23 48 | 24 16 |
| | 15 | 45 | 11.7 | | 57.9 | 162 | 14.9 | 14.4 | 10 | 12.3 | 10.4 | 55.0 | 30 | 03 58 | 04 31 | 04 58 | 22 46 | 23 17 | 23 48 | 24 18 |
| | 16 | 60 | 11.6 | | 58.1 | 176 | 48.3 | 14.4 | 10 | 01.9 | 10.5 | 55.0 | 20 | 04 26 | 04 55 | 05 20 | 22 38 | 23 13 | 23 48 | 24 22 |
| | 17 | 75 | 11.5 | | 58.3 | 191 | 21.7 | 14.4 | 9 | 51.4 | 10.6 | 55.0 | N 10 | 04 48 | 05 15 | 05 38 | 22 31 | 23 10 | 23 48 | 24 26 |
| | 18 | 90 | 11.3 | N22 | 58.5 | 205 | 55.1 | 14.5 | S 9 | 40.8 | 10.5 | 55.0 | 0 | 05 07 | 05 33 | 05 56 | 22 24 | 23 07 | 23 48 | 24 29 |
| | 19 | 105 | 11.2 | | 58.7 | 220 | 28.6 | 14.6 | 9 | 30.3 | 10.6 | 54.9 | S 10 | 05 24 | 05 50 | 06 13 | 22 18 | 23 04 | 23 48 | 24 33 |
| | 20 | 120 | 11.1 | | 58.9 | 235 | 02.2 | 14.6 | 9 | 19.7 | 10.6 | 54.9 | 20 | 05 40 | 06 07 | 06 31 | 22 11 | 23 00 | 23 49 | 24 37 |
| | 21 | 135 | 11.0 | | 59.1 | 249 | 35.8 | 14.7 | 9 | 09.1 | 10.7 | 54.9 | 30 | 05 56 | 06 26 | 06 52 | 22 03 | 22 56 | 23 49 | 24 41 |
| | 22 | 150 | 10.9 | | 59.3 | 264 | 09.5 | 14.7 | 8 | 58.4 | 10.7 | 54.9 | 35 | 06 04 | 06 36 | 07 04 | 21 58 | 22 54 | 23 49 | 24 44 |
| 23 | 165 | 10.7 | | 59.5 | 278 | 43.2 | 14.7 | 8 | 47.7 | 10.7 | 54.9 | 40 | 06 13 | 06 47 | 07 18 | 21 53 | 22 52 | 23 49 | 24 46 | |
| J U E V E S | 10 00 | 180 | 10.6 | N22 | 59.7 | 293 | 16.9 | 14.8 | S 8 | 37.0 | 10.7 | 54.9 | 45 | 06 24 | 07 01 | 07 34 | 21 47 | 22 49 | 23 49 | 24 50 |
| | 01 | 195 | 10.5 | | 59.9 | 307 | 50.7 | 14.9 | 8 | 26.3 | 10.8 | 54.8 | S 50 | 06 35 | 07 16 | 07 55 | 21 40 | 22 45 | 23 50 | 24 54 |
| | 02 | 210 | 10.4 | | 00.1 | 322 | 24.6 | 14.9 | 8 | 15.5 | 10.7 | 54.8 | 52 | 06 40 | 07 24 | 08 04 | 21 36 | 22 44 | 23 50 | 24 56 |
| | 03 | 225 | 10.2 | | 00.3 | 336 | 58.5 | 14.9 | 8 | 04.8 | 10.9 | 54.8 | 54 | 06 46 | 07 32 | 08 15 | 21 33 | 22 42 | 23 50 | 24 58 |
| | 04 | 240 | 10.1 | | 00.5 | 351 | 32.4 | 15.0 | 7 | 53.9 | 10.8 | 54.8 | 56 | 06 52 | 07 40 | 08 27 | 21 28 | 22 40 | 23 50 | 25 00 |
| | 05 | 255 | 10.0 | | 00.6 | 6 | 06.4 | 15.1 | 7 | 43.1 | 10.9 | 54.8 | 58 | 06 58 | 07 50 | 08 42 | 21 24 | 22 38 | 23 50 | 25 02 |
| | 06 | 270 | 09.9 | N23 | 00.8 | 20 | 40.5 | 15.1 | S 7 | 32.2 | 10.8 | 54.7 | S 60 | 07 05 | 08 02 | 08 59 | 21 19 | 22 35 | 23 50 | 25 05 |
| | 07 | 285 | 09.7 | | 01.0 | 35 | 14.6 | 15.1 | 7 | 21.4 | 11.0 | 54.7 | | | | | | | | |
| | 08 | 300 | 09.6 | | 01.2 | 49 | 48.7 | 15.1 | 7 | 10.4 | 10.9 | 54.7 | | | | | | | | |
| | 09 | 315 | 09.5 | | 01.4 | 64 | 22.8 | 15.2 | 6 | 59.5 | 10.9 | 54.7 | | | | | | | | |
| | 10 | 330 | 09.4 | | 01.6 | 78 | 57.0 | 15.3 | 6 | 48.6 | 11.0 | 54.7 | | | | | | | | |
| | 11 | 345 | 09.2 | | 01.8 | 93 | 31.3 | 15.3 | 6 | 37.6 | 11.0 | 54.7 | | | | | | | | |
| | 12 | 0 | 09.1 | N23 | 02.0 | 108 | 05.6 | 15.3 | S 6 | 26.6 | 11.0 | 54.7 | | | | | | | | |
| | 13 | 15 | 09.0 | | 02.2 | 122 | 39.9 | 15.3 | 6 | 15.6 | 11.0 | 54.6 | | | | | | | | |
| | 14 | 30 | 08.9 | | 02.3 | 137 | 14.2 | 15.4 | 6 | 04.6 | 11.1 | 54.6 | N 72 | □ | □ | □ | 07 20 | 09 13 | 10 58 | 12 41 |
| | 15 | 45 | 08.7 | | 02.5 | 151 | 48.6 | 15.4 | 5 | 53.5 | 11.0 | 54.6 | N 70 | □ | □ | □ | 07 41 | 09 24 | 11 02 | 12 37 |
| | 16 | 60 | 08.6 | | 02.7 | 166 | 23.0 | 15.5 | 5 | 42.5 | 11.1 | 54.6 | 68 | □ | □ | □ | 07 57 | 09 33 | 11 04 | 12 34 |
| | 17 | 75 | 08.5 | | 02.9 | 180 | 57.5 | 15.5 | 5 | 31.4 | 11.1 | 54.6 | 66 | 23 38 | /// | /// | 08 10 | 09 40 | 11 06 | 12 32 |
| | 18 | 90 | 08.4 | N23 | 03.1 | 195 | 32.0 | 15.5 | S 5 | 20.3 | 11.1 | 54.6 | 64 | 22 21 | /// | /// | 08 21 | 09 46 | 11 08 | 12 30 |
| | 19 | 105 | 08.2 | | 03.3 | 210 | 06.5 | 15.6 | 5 | 09.2 | 11.1 | 54.5 | 62 | 21 46 | /// | /// | 08 30 | 09 51 | 11 10 | 12 28 |
| | 20 | 120 | 08.1 | | 03.4 | 224 | 41.1 | 15.6 | 4 | 58.1 | 11.2 | 54.5 | 60 | 21 21 | 22 58 | /// | 08 38 | 09 55 | 11 11 | 12 26 |
| | 21 | 135 | 08.0 | | 03.6 | 239 | 15.7 | 15.6 | 4 | 46.9 | 11.1 | 54.5 | N 58 | 21 01 | 22 14 | /// | 08 44 | 09 59 | 11 13 | 12 25 |
| | 22 | 150 | 07.9 | | 03.8 | 253 | 50.3 | 15.6 | 4 | 35.8 | 11.2 | 54.5 | 56 | 20 44 | 21 46 | /// | 08 50 | 10 03 | 11 14 | 12 24 |
| 23 | 165 | 07.7 | | 04.0 | 268 | 24.9 | 15.7 | 4 | 24.6 | 11.2 | 54.5 | 54 | 20 31 | 21 34 | 23 04 | 08 56 | 10 06 | 11 15 | 12 22 | |
| V I E R N E S | 11 00 | 180 | 07.6 | N23 | 04.2 | 282 | 59.6 | 15.7 | S 4 | 13.4 | 11.2 | 54.5 | 52 | 20 19 | 21 07 | 22 23 | 09 01 | 10 09 | 11 15 | 12 21 |
| | 01 | 195 | 07.5 | | 04.3 | 297 | 34.3 | 15.7 | 4 | 02.2 | 11.1 | 54.5 | 50 | 20 08 | 20 52 | 21 56 | 09 05 | 10 11 | 11 16 | 12 20 |
| | 02 | 210 | 07.4 | | 04.5 | 312 | 09.0 | 15.8 | 3 | 51.1 | 11.3 | 54.5 | 45 | 19 46 | 20 23 | 21 12 | 09 14 | 10 17 | 11 18 | 12 18 |
| | 03 | 225 | 07.2 | | 04.7 | 326 | 43.8 | 15.7 | 3 | 39.8 | 11.2 | 54.5 | N 40 | 19 28 | 20 01 | 20 42 | 09 22 | 10 22 | 11 19 | 12 17 |
| | 04 | 240 | 07.1 | | 04.9 | 341 | 18.5 | 15.8 | 3 | 28.6 | 11.2 | 54.4 | 35 | 19 13 | 19 43 | 20 20 | 09 29 | 10 25 | 11 21 | 12 15 |
| | 05 | 255 | 07.0 | | 05.0 | 355 | 53.3 | 15.8 | 3 | 17.4 | 11.2 | 54.4 | 30 | 19 01 | 19 28 | 20 01 | 09 35 | 10 29 | 11 22 | 12 14 |
| | 06 | 270 | 06.9 | N23 | 05.2 | 10 | 28.1 | 15.9 | S 3 | 06.2 | 11.3 | 54.4 | 20 | 18 39 | 19 03 | 19 33 | 09 45 | 10 35 | 11 24 | 12 12 |
| | 07 | 285 | 06.7 | | 05.4 | 25 | 03.0 | 15.8 | 2 | 54.9 | 11.2 | 54.4 | N 10 | 18 20 | 18 43 | 19 10 | 09 54 | 10 40 | 11 25 | 12 10 |
| | 08 | 300 | 06.6 | | 05.6 | 39 | 37.8 | 15.9 | 2 | 43.7 | 11.3 | 54.4 | 0 | 18 03 | 18 26 | 18 52 | 10 02 | 10 45 | 11 27 | 12 08 |
| | 09 | 315 | 06.5 | | 05.7 | 54 | 12.7 | 15.9 | 2 | 32.4 | 11.2 | 54.4 | S 10 | 17 46 | 18 09 | 18 35 | 10 10 | 10 50 | 11 28 | 12 06 |
| | 10 | 330 | 06.4 | | 05.9 | 68 | 47.6 | 15.9 | 2 | 21.2 | 11.3 | 54.4 | 20 | 17 28 | 17 52 | 18 19 | 10 18 | 10 55 | 11 30 | 12 04 |
| | 11 | 345 | 06.2 | | 06.1 | 83 | 22.5 | 16.0 | 2 | 09.9 | 11.3 | 54.4 | 30 | 17 07 | 17 33 | 18 03 | 10 28 | 11 01 | 11 32 | 12 02 |
| | 12 | 0 | 06.1 | N23 | 06.2 | 97 | 57.5 | 15.9 | S 1 | 58.6 | 11.2 | 54.4 | 35 | 16 55 | 17 23 | 17 54 | 10 34 | 11 04 | 11 33</ | |

| T.M.G. (TU) | ARIES | | VENUS -4.3 | | MARTE +1.5 | | JUPITER -2.1 | | SATURNO +0.8 | | ESTRELLAS | | | |
|----------------|----------|----------|------------|----------|------------|----------|--------------|----------|--------------|-------------|------------------|----------|-----------|-----|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 12 00 | 260 19.9 | 226 26.7 | N10 49.1 | 113 59.8 | N14 54.5 | 75 15.2 | S 0 41.4 | 287 26.8 | S12 36.8 | Acamar | 315 30.0 | S40 19.7 | | |
| 01 | 275 22.4 | 241 26.8 | 49.8 | 129 00.9 | 54.0 | 90 17.6 | 41.4 | 302 29.3 | 36.9 | Achernar | 335 38.1 | S57 15.9 | | |
| 02 | 290 24.9 | 256 26.9 | 50.5 | 144 02.0 | 53.5 | 105 19.9 | 41.5 | 317 31.8 | 36.9 | Acrux | 173 25.9 | S63 04.2 | | |
| 03 | 305 27.3 | 271 27.0 | 51.2 | 159 03.1 | 53.0 | 120 22.3 | 41.5 | 332 34.2 | 36.9 | Adhara | 255 24.6 | S28 57.9 | | |
| 04 | 320 29.8 | 286 27.1 | 52.0 | 174 04.2 | 52.5 | 135 24.7 | 41.6 | 347 36.7 | 36.9 | Aldebaran | 291 06.9 | N16 29.7 | | |
| 05 | 335 32.3 | 301 27.2 | 52.7 | 189 05.4 | 52.0 | 150 27.1 | 41.6 | 2 39.2 | 36.9 | | | | | |
| 06 | 350 34.7 | 316 27.3 | N10 53.4 | 204 06.5 | N14 51.5 | 165 29.5 | S 0 41.7 | 17 41.6 | S12 36.9 | Alioth | 166 33.5 | N55 59.9 | | |
| 07 | 5 37.2 | 331 27.4 | 54.1 | 219 07.6 | 51.0 | 180 31.9 | 41.7 | 32 44.1 | 36.9 | Alkaid | 153 10.3 | N49 20.9 | | |
| 08 | 20 39.6 | 346 27.6 | 54.8 | 234 08.7 | 50.5 | 195 34.3 | 41.7 | 47 46.6 | 36.9 | Al Na'ir | 28 02.2 | S46 59.2 | | |
| S 09 | 35 42.1 | 1 27.7 | 55.6 | 249 09.8 | 50.0 | 210 36.7 | 41.8 | 62 49.0 | 36.9 | Alnilam | 276 01.9 | S 1 12.4 | | |
| A 10 | 50 44.6 | 16 27.8 | 56.3 | 264 10.9 | 49.5 | 225 39.1 | 41.8 | 77 51.5 | 37.0 | Alphard | 218 11.0 | S 8 38.0 | | |
| B 11 | 65 47.0 | 31 27.9 | 57.0 | 279 12.0 | 49.0 | 240 41.5 | 41.9 | 92 54.0 | 37.0 | | | | | |
| A 12 | 80 49.5 | 46 28.0 | N10 57.7 | 294 13.1 | N14 48.5 | 255 43.9 | S 0 41.9 | 107 56.5 | S12 37.0 | Alphecca | 126 23.3 | N26 44.2 | | |
| D 13 | 95 52.0 | 61 28.1 | 58.5 | 309 14.2 | 48.0 | 270 46.3 | 42.0 | 122 58.9 | 37.0 | Alpheratz | 357 59.1 | N29 03.2 | | |
| O 14 | 110 54.4 | 76 28.2 | 59.2 | 324 15.3 | 47.5 | 285 48.6 | 42.0 | 138 01.4 | 37.0 | Altair | 62 22.5 | N 8 51.1 | | |
| 15 | 125 56.9 | 91 28.3 | 10 59.9 | 339 16.4 | 47.0 | 300 51.0 | 42.0 | 153 03.9 | 37.0 | Ankaa | 353 30.5 | S42 20.2 | | |
| 16 | 140 59.4 | 106 28.4 | 11 00.6 | 354 17.5 | 46.6 | 315 53.4 | 42.1 | 168 06.3 | 37.0 | Antares | 112 44.3 | S26 25.1 | | |
| 17 | 156 01.8 | 121 28.5 | 01.3 | 9 18.6 | 46.1 | 330 55.8 | 42.1 | 183 08.8 | 37.0 | | | | | |
| 18 | 171 04.3 | 136 28.6 | N11 02.1 | 24 19.7 | N14 45.6 | 345 58.2 | S 0 42.2 | 198 11.3 | S12 37.0 | Arcturus | 146 09.1 | N19 13.0 | | |
| 19 | 186 06.8 | 151 28.7 | 02.8 | 39 20.8 | 45.1 | 1 00.6 | 42.2 | 213 13.7 | 37.1 | Atria | 107 59.0 | S69 01.0 | | |
| 20 | 201 09.2 | 166 28.8 | 03.5 | 54 21.9 | 44.6 | 16 03.0 | 42.3 | 228 16.2 | 37.1 | Avior | 234 24.6 | S59 29.6 | | |
| 21 | 216 11.7 | 181 28.9 | 04.2 | 69 23.0 | 44.1 | 31 05.4 | 42.3 | 243 18.7 | 37.1 | Bellatrix | 278 48.4 | N 6 20.6 | | |
| 22 | 231 14.1 | 196 29.0 | 05.0 | 84 24.2 | 43.6 | 46 07.8 | 42.4 | 258 21.2 | 37.1 | Betelgeuse | 271 17.8 | N 7 24.3 | | |
| 23 | 246 16.6 | 211 29.1 | 05.7 | 99 25.3 | 43.1 | 61 10.1 | 42.4 | 273 23.6 | 37.1 | | | | | |
| 13 00 | 261 19.1 | 226 29.2 | N11 06.4 | 114 26.4 | N14 42.6 | 76 12.5 | S 0 42.4 | 288 26.1 | S12 37.1 | Canopus | 264 03.3 | S52 41.7 | | |
| 01 | 276 21.5 | 241 29.3 | 07.1 | 129 27.5 | 42.1 | 91 14.9 | 42.5 | 303 28.6 | 37.1 | Capella | 280 57.1 | N45 59.5 | | |
| 02 | 291 24.0 | 256 29.4 | 07.8 | 144 28.6 | 41.6 | 106 17.3 | 42.5 | 318 31.0 | 37.1 | Deneb | 49 41.3 | N45 15.3 | | |
| 03 | 306 26.5 | 271 29.5 | 08.6 | 159 29.7 | 41.1 | 121 19.7 | 42.6 | 333 33.5 | 37.2 | Denebola | 182 48.9 | N14 36.5 | | |
| 04 | 321 28.9 | 286 29.6 | 09.3 | 174 30.8 | 40.5 | 136 22.1 | 42.6 | 348 36.0 | 37.2 | Diphda | 349 11.0 | S18 01.2 | | |
| 05 | 336 31.4 | 301 29.7 | 10.0 | 189 31.9 | 40.0 | 151 24.5 | 42.7 | 3 38.5 | 37.2 | | | | | |
| 06 | 351 33.9 | 316 29.8 | N11 10.7 | 204 33.0 | N14 39.5 | 166 26.9 | S 0 42.7 | 18 40.9 | S12 37.2 | Dubhe | 194 10.0 | N61 47.4 | | |
| 07 | 6 36.3 | 331 29.8 | 11.5 | 219 34.1 | 39.0 | 181 29.2 | 42.8 | 33 43.4 | 37.2 | Elnath | 278 31.9 | N28 36.1 | | |
| 08 | 21 38.8 | 346 29.9 | 12.2 | 234 35.2 | 38.5 | 196 31.6 | 42.8 | 48 45.9 | 37.2 | Eltanin | 90 52.5 | N51 29.4 | | |
| 09 | 36 41.2 | 1 30.0 | 12.9 | 249 36.3 | 38.0 | 211 34.0 | 42.9 | 63 48.4 | 37.2 | Enif | 34 01.6 | N 9 50.7 | | |
| 10 | 51 43.7 | 16 30.1 | 13.6 | 264 37.4 | 37.5 | 226 36.4 | 42.9 | 78 50.8 | 37.2 | Fomalhaut | 15 40.4 | S29 39.2 | | |
| 11 | 66 46.2 | 31 30.2 | 14.4 | 279 38.5 | 37.0 | 241 38.8 | 42.9 | 93 53.3 | 37.2 | | | | | |
| 12 | 81 48.6 | 46 30.3 | N11 15.1 | 294 39.6 | N14 36.5 | 256 41.2 | S 0 43.0 | 108 55.8 | S12 37.3 | Gacrux | 172 17.5 | S57 05.0 | | |
| 13 | 96 51.1 | 61 30.4 | 15.8 | 309 40.7 | 36.0 | 271 43.5 | 43.0 | 123 58.3 | 37.3 | Gienah | 176 07.6 | S17 30.6 | | |
| 14 | 111 53.6 | 76 30.5 | 16.5 | 324 41.8 | 35.5 | 286 45.9 | 43.1 | 139 00.7 | 37.3 | Hadar | 149 08.8 | S60 20.8 | | |
| 15 | 126 56.0 | 91 30.6 | 17.3 | 339 42.9 | 35.0 | 301 48.3 | 43.1 | 154 03.2 | 37.3 | Hamal | 328 17.9 | N23 25.8 | | |
| 16 | 141 58.5 | 106 30.6 | 18.0 | 354 44.0 | 34.5 | 316 50.7 | 43.2 | 169 05.7 | 37.3 | Kaus Aust. | 84 03.2 | S34 23.2 | | |
| 17 | 157 01.0 | 121 30.7 | 18.7 | 9 45.1 | 34.0 | 331 53.1 | 43.2 | 184 08.2 | 37.3 | | | | | |
| 18 | 172 03.4 | 136 30.8 | N11 19.4 | 24 46.3 | N14 33.5 | 346 55.5 | S 0 43.3 | 199 10.6 | S12 37.3 | Kochab | 137 18.4 | N74 11.1 | | |
| 19 | 187 05.9 | 151 30.9 | 20.1 | 39 47.4 | 33.0 | 1 57.8 | 43.3 | 214 13.1 | 37.4 | Markab | 13 53.2 | N15 10.2 | | |
| 20 | 202 08.4 | 166 31.0 | 20.9 | 54 48.5 | 32.5 | 17 00.2 | 43.4 | 229 15.6 | 37.4 | Menkar | 314 31.0 | N 4 03.9 | | |
| 21 | 217 10.8 | 181 31.0 | 21.6 | 69 49.6 | 32.0 | 32 02.6 | 43.4 | 244 18.1 | 37.4 | Menkent | 148 25.0 | S36 20.5 | | |
| 22 | 232 13.3 | 196 31.1 | 22.3 | 84 50.7 | 31.5 | 47 05.0 | 43.5 | 259 20.5 | 37.4 | Miaplacidus | 221 43.4 | S69 41.8 | | |
| 23 | 247 15.7 | 211 31.2 | 23.0 | 99 51.8 | 31.0 | 62 07.4 | 43.5 | 274 23.0 | 37.4 | | | | | |
| 14 00 | 262 18.2 | 226 31.3 | N11 23.8 | 114 52.9 | N14 30.5 | 77 09.7 | S 0 43.6 | 289 25.5 | S12 37.4 | Mirfak | 309 02.3 | N49 50.2 | | |
| 01 | 277 20.7 | 241 31.4 | 24.5 | 129 54.0 | 30.0 | 92 12.1 | 43.6 | 304 28.0 | 37.4 | Nunki | 76 16.5 | S26 18.2 | | |
| 02 | 292 23.1 | 256 31.4 | 25.2 | 144 55.1 | 29.5 | 107 14.5 | 43.6 | 319 30.4 | 37.4 | Peacock | 53 42.2 | S56 45.1 | | |
| 03 | 307 25.6 | 271 31.5 | 25.9 | 159 56.2 | 29.0 | 122 16.9 | 43.7 | 334 32.9 | 37.5 | Pollux | 243 46.3 | N28 02.5 | | |
| 04 | 322 28.1 | 286 31.6 | 26.7 | 174 57.3 | 28.5 | 137 19.3 | 43.7 | 349 35.4 | 37.5 | Procyon | 245 15.6 | N 5 14.4 | | |
| 05 | 337 30.5 | 301 31.7 | 27.4 | 189 58.4 | 28.0 | 152 21.6 | 43.8 | 4 37.9 | 37.5 | | | | | |
| 06 | 352 33.0 | 316 31.7 | N11 28.1 | 204 59.5 | N14 27.5 | 167 24.0 | S 0 43.8 | 19 40.3 | S12 37.5 | Rasalhague | 96 20.0 | N12 33.9 | | |
| 07 | 7 35.5 | 331 31.8 | 28.8 | 220 00.6 | 27.0 | 182 26.4 | 43.9 | 34 42.8 | 37.5 | Regulus | 207 59.5 | N11 59.9 | | |
| 08 | 22 37.9 | 346 31.9 | 29.6 | 235 01.7 | 26.5 | 197 28.8 | 43.9 | 49 45.3 | 37.5 | Rigel | 281 26.8 | S 8 12.6 | | |
| 09 | 37 40.4 | 1 32.0 | 30.3 | 250 02.8 | 26.0 | 212 31.2 | 44.0 | 64 47.8 | 37.5 | Rigil Kent. | 140 11.7 | S60 48.7 | | |
| 10 | 52 42.9 | 16 32.0 | 31.0 | 265 03.9 | 25.4 | 227 33.5 | 44.0 | 79 50.2 | 37.6 | Sabik | 102 29.3 | S15 43.0 | | |
| 11 | 67 45.3 | 31 32.1 | 31.7 | 280 05.0 | 24.9 | 242 35.9 | 44.1 | 94 52.7 | 37.6 | | | | | |
| 12 | 82 47.8 | 46 32.2 | N11 32.5 | 295 06.1 | N14 24.4 | 257 38.3 | S 0 44.1 | 109 55.2 | S12 37.6 | Schedar | 349 57.8 | N56 29.9 | | |
| 13 | 97 50.2 | 61 32.2 | 33.2 | 310 07.2 | 23.9 | 272 40.7 | 44.2 | 124 57.7 | 37.6 | Shaula | 96 41.8 | S37 05.9 | | |
| 14 | 112 52.7 | 76 32.3 | 33.9 | 325 08.3 | 23.4 | 287 43.0 | 44.2 | 140 00.2 | 37.6 | Sirius | 258 47.2 | S16 42.5 | | |
| 15 | 127 55.2 | 91 32.4 | 34.7 | 340 09.4 | 22.9 | 302 45.4 | 44.3 | 155 02.6 | 37.6 | Spica | 158 46.9 | S11 07.8 | | |
| 16 | 142 57.6 | 106 32.4 | 35.4 | 355 10.5 | 22.4 | 317 47.8 | 44.3 | 170 05.1 | 37.6 | Suhail | 223 03.7 | S43 24.7 | | |
| 17 | 158 00.1 | 121 32.5 | 36.1 | 10 11.6 | 21.9 | 332 50.2 | 44.4 | 185 07.6 | 37.7 | | | | | |
| 18 | 173 02.6 | 136 32.6 | N11 36.8 | 25 12.7 | N14 21.4 | 347 52.6 | S 0 44.4 | 200 10.1 | S12 37.7 | Vega | 80 48.7 | N38 46.6 | | |
| 19 | 188 05.0 | 151 32.6 | 37.6 | 40 13.9 | 20.9 | 2 54.9 | 44.5 | 215 12.6 | 37.7 | Zuben'ubi | 137 21.7 | S16 01.0 | | |
| 20 | 203 07.5 | 166 32.7 | 38.3 | 55 15.0 | 20.4 | 17 57.3 | 44.5 | 230 15.0 | 37.7 | | | | | |
| 21 | 218 10.0 | 181 32.8 | 39.0 | 70 16.1 | 19.9 | 32 59.7 | 44.6 | 245 17.5 | 37.7 | | | | | |
| 22 | 233 12.4 | 196 32.8 | 39.7 | 85 17.2 | 19.4 | 48 02.1 | 44.6 | 260 20.0 | 37.7 | | | | | |
| 23 | 248 14.9 | 211 32.9 | 40.5 | 100 18.3 | 18.9 | 63 04.4 | 44.7 | 275 22.5 | 37.7 | | | | | |
| | | | | | | | | | | | A. H. S. | | Pas. Mer. | |
| | | | | | | | | | | | o | / | h | m |
| | | | | | | | | | | | Venus | 325 10.1 | 8 54 | |
| | | | | | | | | | | | Marte | 213 07.3 | 16 21 | |
| | | | | | | | | | | | Júpiter | 174 53.5 | 18 52 | |
| | | | | | | | | | | | Saturno | 27 07.0 | 4 45 | |
| | | | | | | | | | | | Pas. Mer. 6 33.7 | | | |
| | | | | | | | | | | | v | 0.1 | d | 0.7 |
| | | | | | | | | | | | v | 1.1 | d | 0.5 |
| | | | | | | | | | | | v | 2.4 | d | 0.0 |
| | | | | | | | | | | | v | 2.5 | d | 0.0 |

| T.M.G. (TU) | ARIES | | VENUS -4.3 | | MARTE +1.5 | | JUPITER -2.1 | | SATURNO +0.7 | | ESTRELLAS | | | | | | | | | | | | | | | | |
|---|----------|---------------|-------------------|-------------------|-------------------|-------------------|--------------|-------------------|--------------|--|-----------|--|--|----------|-----------|-------|----------|------|-------|----------|-------|---------|----------|-------|---------|---------|------|
| | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre | A. H. S | Dec. | | | | | | | | | | | | | | | | |
| M A R T E S | 15 00 | 263 17.3 | 226 32.9 N11 41.2 | 115 19.4 N14 18.4 | 78 06.8 S 0 44.7 | 290 24.9 S12 37.8 | Acamar | 315 30.0 S40 19.7 | | | | | | | | | | | | | | | | | | | |
| | 01 | 278 19.8 | 241 33.0 41.9 | 130 20.5 17.8 | 93 09.2 44.8 | 305 27.4 37.8 | Achernar | 335 38.1 S57 15.9 | | | | | | | | | | | | | | | | | | | |
| | 02 | 293 22.3 | 256 33.1 42.6 | 145 21.6 17.3 | 108 11.5 44.8 | 320 29.9 37.8 | Acrux | 173 25.9 S63 04.2 | | | | | | | | | | | | | | | | | | | |
| | 03 | 308 24.7 | 271 33.1 43.4 | 160 22.7 16.8 | 123 13.9 44.9 | 335 32.4 37.8 | Adhara | 255 24.6 S28 57.9 | | | | | | | | | | | | | | | | | | | |
| | 04 | 323 27.2 | 286 33.2 44.1 | 175 23.8 16.3 | 138 16.3 44.9 | 350 34.9 37.8 | Aldebaran | 291 06.9 N16 29.7 | | | | | | | | | | | | | | | | | | | |
| | 05 | 338 29.7 | 301 33.2 44.8 | 190 24.9 15.8 | 153 18.7 45.0 | 5 37.3 37.8 | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 353 32.1 | 316 33.3 N11 45.5 | 205 26.0 N14 15.3 | 168 21.0 S 0 45.0 | 20 39.8 S12 37.8 | Alioth | 166 33.5 N55 59.9 | | | | | | | | | | | | | | | | | | | |
| | 07 | 8 34.6 | 331 33.3 46.3 | 220 27.1 14.8 | 183 23.4 45.1 | 35 42.3 37.9 | Alkaid | 153 10.4 N49 20.9 | | | | | | | | | | | | | | | | | | | |
| | 08 | 23 37.1 | 346 33.4 47.0 | 235 28.2 14.3 | 198 25.8 45.1 | 50 44.8 37.9 | Al Na'ir | 28 02.2 S46 59.2 | | | | | | | | | | | | | | | | | | | |
| | 09 | 38 39.5 | 1 33.5 47.7 | 250 29.3 13.8 | 213 28.2 45.2 | 65 47.3 37.9 | Alnilam | 276 01.9 S 1 12.4 | | | | | | | | | | | | | | | | | | | |
| | 10 | 53 42.0 | 16 33.5 48.4 | 265 30.4 13.3 | 228 30.5 45.2 | 80 49.8 37.9 | Alphard | 218 11.0 S 8 38.0 | | | | | | | | | | | | | | | | | | | |
| | 11 | 68 44.5 | 31 33.6 49.2 | 280 31.5 12.8 | 243 32.9 45.3 | 95 52.2 37.9 | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 83 46.9 | 46 33.6 N11 49.9 | 295 32.6 N14 12.2 | 258 35.3 S 0 45.3 | 110 54.7 S12 37.9 | Alphecca | 126 23.3 N26 44.2 | | | | | | | | | | | | | | | | | | | |
| | 13 | 98 49.4 | 61 33.7 50.6 | 310 33.7 11.7 | 273 37.6 45.4 | 125 57.2 37.9 | Alpheratz | 357 59.0 N29 03.2 | | | | | | | | | | | | | | | | | | | |
| | 14 | 113 51.8 | 76 33.7 51.4 | 325 34.8 11.2 | 288 40.0 45.4 | 140 59.7 38.0 | Altair | 62 22.5 N 8 51.1 | | | | | | | | | | | | | | | | | | | |
| | 15 | 128 54.3 | 91 33.8 52.1 | 340 35.9 10.7 | 303 42.4 45.5 | 156 02.2 38.0 | Ankaa | 353 30.5 S42 20.2 | | | | | | | | | | | | | | | | | | | |
| | 16 | 143 56.8 | 106 33.8 52.8 | 355 37.0 10.2 | 318 44.8 45.5 | 171 04.6 38.0 | Antares | 112 44.3 S26 25.1 | | | | | | | | | | | | | | | | | | | |
| | 17 | 158 59.2 | 121 33.9 53.5 | 10 38.1 09.7 | 333 47.1 45.6 | 186 07.1 38.0 | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 174 01.7 | 136 33.9 N11 54.3 | 25 39.2 N14 09.2 | 348 49.5 S 0 45.7 | 201 09.6 S12 38.0 | Arcturus | 146 09.1 N19 13.0 | | | | | | | | | | | | | | | | | | | |
| | 19 | 189 04.2 | 151 34.0 55.0 | 40 40.3 08.7 | 3 51.9 45.7 | 216 12.1 38.0 | Atria | 107 59.0 S69 01.0 | | | | | | | | | | | | | | | | | | | |
| | 20 | 204 06.6 | 166 34.0 55.7 | 55 41.4 08.2 | 18 54.2 45.8 | 231 14.6 38.1 | Avior | 234 24.6 S59 29.6 | | | | | | | | | | | | | | | | | | | |
| | 21 | 219 09.1 | 181 34.0 56.4 | 70 42.5 07.6 | 33 56.6 45.8 | 246 17.1 38.1 | Bellatrix | 278 48.4 N 6 20.6 | | | | | | | | | | | | | | | | | | | |
| | 22 | 234 11.6 | 196 34.1 57.2 | 85 43.6 07.1 | 48 59.0 45.9 | 261 19.5 38.1 | Betelgeuse | 271 17.8 N 7 24.3 | | | | | | | | | | | | | | | | | | | |
| 23 | 249 14.0 | 211 34.1 57.9 | 100 44.7 06.6 | 64 01.3 45.9 | 276 22.0 38.1 | | | | | | | | | | | | | | | | | | | | | | |
| M I E R C O L E S | 16 00 | 264 16.5 | 226 34.2 N11 58.6 | 115 45.8 N14 06.1 | 79 03.7 S 0 46.0 | 291 24.5 S12 38.1 | Canopus | 264 03.3 S52 41.6 | | | | | | | | | | | | | | | | | | | |
| | 01 | 279 19.0 | 241 34.2 11 59.3 | 130 46.9 05.6 | 94 06.1 46.0 | 306 27.0 38.1 | Capella | 280 57.0 N45 59.4 | | | | | | | | | | | | | | | | | | | |
| | 02 | 294 21.4 | 256 34.3 12 00.1 | 145 48.0 05.1 | 109 08.4 46.1 | 321 29.5 38.2 | Deneb | 49 41.3 N45 15.3 | | | | | | | | | | | | | | | | | | | |
| | 03 | 309 23.9 | 271 34.3 00.8 | 160 49.1 04.6 | 124 10.8 46.1 | 336 32.0 38.2 | Denebola | 182 48.9 N14 36.5 | | | | | | | | | | | | | | | | | | | |
| | 04 | 324 26.3 | 286 34.3 01.5 | 175 50.2 04.1 | 139 13.2 46.2 | 351 34.4 38.2 | Diphda | 349 11.0 S18 01.2 | | | | | | | | | | | | | | | | | | | |
| | 05 | 339 28.8 | 301 34.4 02.3 | 190 51.3 03.6 | 154 15.5 46.2 | 6 36.9 38.2 | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 354 31.3 | 316 34.4 N12 03.0 | 205 52.4 N14 03.0 | 169 17.9 S 0 46.3 | 21 39.4 S12 38.2 | Dubhe | 194 10.0 N61 47.4 | | | | | | | | | | | | | | | | | | | |
| | 07 | 9 33.7 | 331 34.5 03.7 | 220 53.6 02.5 | 184 20.3 46.3 | 36 41.9 38.2 | Elnath | 278 31.9 N28 36.1 | | | | | | | | | | | | | | | | | | | |
| | 08 | 24 36.2 | 346 34.5 04.4 | 235 54.7 02.0 | 199 22.6 46.4 | 51 44.4 38.3 | Eltanin | 90 52.5 N51 29.4 | | | | | | | | | | | | | | | | | | | |
| | 09 | 39 38.7 | 1 34.5 05.2 | 250 55.8 01.5 | 214 25.0 46.5 | 66 46.9 38.3 | Enif | 34 01.6 N 9 50.7 | | | | | | | | | | | | | | | | | | | |
| | 10 | 54 41.1 | 16 34.6 05.9 | 265 56.9 01.0 | 229 27.4 46.5 | 81 49.4 38.3 | Fomalhaut | 15 40.3 S29 39.2 | | | | | | | | | | | | | | | | | | | |
| | 11 | 69 43.6 | 31 34.6 06.6 | 280 58.0 00.5 | 244 29.7 46.6 | 96 51.8 38.3 | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 84 46.1 | 46 34.6 N12 07.3 | 295 59.1 N14 00.0 | 259 32.1 S 0 46.6 | 111 54.3 S12 38.3 | Gacrux | 172 17.5 S57 05.0 | | | | | | | | | | | | | | | | | | | |
| | 13 | 99 48.5 | 61 34.7 08.1 | 311 00.2 13 59.4 | 274 34.5 46.7 | 126 56.8 38.3 | Gienah | 176 07.7 S17 30.6 | | | | | | | | | | | | | | | | | | | |
| | 14 | 114 51.0 | 76 34.7 08.8 | 326 01.3 58.9 | 289 36.8 46.7 | 141 59.3 38.4 | Hadar | 149 08.8 S60 20.8 | | | | | | | | | | | | | | | | | | | |
| | 15 | 129 53.4 | 91 34.7 09.5 | 341 02.4 58.4 | 304 39.2 46.8 | 157 01.8 38.4 | Hamal | 328 17.9 N23 25.8 | | | | | | | | | | | | | | | | | | | |
| | 16 | 144 55.9 | 106 34.8 10.2 | 356 03.5 57.9 | 319 41.5 46.8 | 172 04.3 38.4 | Kaus Aust. | 84 03.2 S34 23.2 | | | | | | | | | | | | | | | | | | | |
| | 17 | 159 58.4 | 121 34.8 11.0 | 11 04.6 57.4 | 334 43.9 46.9 | 187 06.8 38.4 | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 175 00.8 | 136 34.8 N12 11.7 | 26 05.7 N13 56.9 | 349 46.3 S 0 46.9 | 202 09.2 S12 38.4 | Kochab | 137 18.5 N74 11.1 | | | | | | | | | | | | | | | | | | | |
| | 19 | 190 03.3 | 151 34.9 12.4 | 41 06.8 56.4 | 4 48.6 47.0 | 217 11.7 38.4 | Markab | 13 53.2 N15 10.2 | | | | | | | | | | | | | | | | | | | |
| | 20 | 205 05.8 | 166 34.9 13.2 | 56 07.9 55.8 | 19 51.0 47.1 | 232 14.2 38.5 | Menkar | 314 31.0 N 4 03.9 | | | | | | | | | | | | | | | | | | | |
| | 21 | 220 08.2 | 181 34.9 13.9 | 71 09.0 55.3 | 34 53.4 47.1 | 247 16.7 38.5 | Menkent | 148 25.0 S36 20.5 | | | | | | | | | | | | | | | | | | | |
| | 22 | 235 10.7 | 196 34.9 14.6 | 86 10.1 54.8 | 49 55.7 47.2 | 262 19.2 38.5 | Miaplacidus | 221 43.4 S69 41.8 | | | | | | | | | | | | | | | | | | | |
| 23 | 250 13.2 | 211 35.0 15.3 | 101 11.2 54.3 | 64 58.1 47.2 | 277 21.7 38.5 | | | | | | | | | | | | | | | | | | | | | | |
| J U N I O | 17 00 | 265 15.6 | 226 35.0 N12 16.1 | 116 12.3 N13 53.8 | 80 00.4 S 0 47.3 | 292 24.2 S12 38.5 | Mirfak | 309 02.2 N49 50.2 | | | | | | | | | | | | | | | | | | | |
| | 01 | 280 18.1 | 241 35.0 16.8 | 131 13.4 53.3 | 95 02.8 47.3 | 307 26.7 38.5 | Nunki | 76 16.5 S26 18.2 | | | | | | | | | | | | | | | | | | | |
| | 02 | 295 20.6 | 256 35.0 17.5 | 146 14.5 52.8 | 110 05.2 47.4 | 322 29.1 38.6 | Peacock | 53 42.2 S56 45.1 | | | | | | | | | | | | | | | | | | | |
| | 03 | 310 23.0 | 271 35.1 18.2 | 161 15.6 52.2 | 125 07.5 47.4 | 337 31.6 38.6 | Pollux | 243 46.3 N28 02.5 | | | | | | | | | | | | | | | | | | | |
| | 04 | 325 25.5 | 286 35.1 19.0 | 176 16.7 51.7 | 140 09.9 47.5 | 352 34.1 38.6 | Procyon | 245 15.6 N 5 14.4 | | | | | | | | | | | | | | | | | | | |
| | 05 | 340 27.9 | 301 35.1 19.7 | 191 17.8 51.2 | 155 12.2 47.6 | 7 36.6 38.6 | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 355 30.4 | 316 35.1 N12 20.4 | 206 18.9 N13 50.7 | 170 14.6 S 0 47.6 | 22 39.1 S12 38.6 | Rasalhague | 96 20.0 N12 33.9 | | | | | | | | | | | | | | | | | | | |
| | 07 | 10 32.9 | 331 35.1 21.1 | 221 20.0 50.2 | 185 17.0 47.7 | 37 41.6 38.7 | Regulus | 207 59.5 N11 59.9 | | | | | | | | | | | | | | | | | | | |
| | 08 | 25 35.3 | 346 35.2 21.9 | 236 21.1 49.7 | 200 19.3 47.7 | 52 44.1 38.7 | Rigel | 281 26.8 S 8 12.6 | | | | | | | | | | | | | | | | | | | |
| | 09 | 40 37.8 | 1 35.2 22.6 | 251 22.2 49.1 | 215 21.7 47.8 | 67 46.6 38.7 | Rigil Kent. | 140 11.7 S60 48.7 | | | | | | | | | | | | | | | | | | | |
| | 10 | 55 40.3 | 16 35.2 23.3 | 266 23.3 48.6 | 230 24.0 47.8 | 82 49.0 38.7 | Sabik | 102 29.3 S15 43.0 | | | | | | | | | | | | | | | | | | | |
| | 11 | 70 42.7 | 31 35.2 24.0 | 281 24.4 48.1 | 245 26.4 47.9 | 97 51.5 38.7 | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 85 45.2 | 46 35.2 N12 24.8 | 296 25.5 N13 47.6 | 260 28.8 S 0 48.0 | 112 54.0 S12 38.7 | Schedar | 349 57.8 N56 29.9 | | | | | | | | | | | | | | | | | | | |
| | 13 | 100 47.7 | 61 35.3 25.5 | 311 26.6 47.1 | 275 31.1 48.0 | 127 56.5 38.8 | Shaula | 96 41.8 S37 05.9 | | | | | | | | | | | | | | | | | | | |
| | 14 | 115 50.1 | 76 35.3 26.2 | 326 27.7 46.6 | 290 33.5 48.1 | 142 59.0 38.8 | Sirius | 258 47.2 S16 42.5 | | | | | | | | | | | | | | | | | | | |
| | 15 | 130 52.6 | 91 35.3 27.0 | 341 28.8 46.0 | 305 35.8 48.1 | 158 01.5 38.8 | Spica | 158 46.9 S11 07.8 | | | | | | | | | | | | | | | | | | | |
| | 16 | 145 55.1 | 106 35.3 27.7 | 356 29.9 45.5 | 320 38.2 48.2 | 173 04.0 38.8 | Suhail | 223 03.7 S43 24.7 | | | | | | | | | | | | | | | | | | | |
| | 17 | 160 57.5 | 121 35.3 28.4 | 11 31.0 45.0 | 335 40.5 48.2 | 188 06.5 38.8 | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 176 00.0 | 136 35.3 N12 29.1 | 26 32.1 N13 44.5 | 350 42.9 S 0 48.3 | 203 09.0 S12 38.9 | Vega | 80 48.7 N38 46.7 | | | | | | | | | | | | | | | | | | | |
| | 19 | 191 02.4 | 151 35.3 29.9 | 41 33.2 44.0 | 5 45.2 48.4 | 218 11.5 38.9 | Zuben'ubi | 137 21.7 S16 01.0 | | | | | | | | | | | | | | | | | | | |
| | 20 | 206 04.9 | 166 35.4 30.6 | 56 34.3 43.4 | 20 47.6 48.4 | 233 13.9 38.9 | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 221 07.4 | 181 35.4 31.3 | 71 35.4 42.9 | 35 50.0 48.5 | 248 16.4 38.9 | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 236 09.8 | 196 35.4 32.0 | 86 36.5 42.4 | 50 52.3 48.5 | 263 18.9 38.9 | | | | | | | | | | | | | | | | | | | | | |
| 23 | 251 12.3 | 211 35.4 32.8 | 101 37.6 41.9 | 65 54.7 48.6 | 278 21.4 38.9 | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. 6 21.9 | | v 0.0 d 0.7 | | v 1.1 d 0.5 | | v 2.4 d 0.1 | | v 2.5 d 0.0 | | <table border="0"> <tr> <td></td> <td>A. H. S.</td> <td>Pas. Mer.</td> </tr> <tr> <td>Venus</td> <td>322 17.7</td> <td>8 54</td> </tr> <tr> <td>Marte</td> <td>211 29.3</td> <td>16 16</td> </tr> <tr> <td>Júpiter</td> <td>174 47.2</td> <td>18 41</td> </tr> <tr> <td>Saturno</td> <td>27 08.0</td> <td>4 34</td> </tr> </table> | | | | A. H. S. | Pas. Mer. | Venus | 322 17.7 | 8 54 | Marte | 211 29.3 | 16 16 | Júpiter | 174 47.2 | 18 41 | Saturno | 27 08.0 | 4 34 |
| | A. H. S. | Pas. Mer. | | | | | | | | | | | | | | | | | | | | | | | | | |
| Venus | 322 17.7 | 8 54 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marte | 211 29.3 | 16 16 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Júpiter | 174 47.2 | 18 41 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saturno | 27 08.0 | 4 34 | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|------------------|-------|------------|-----|-----|-----|-----|-----|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | P.H. | Náut. | | Civil | 15 | | 16 | | 17 | | 18 | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | h | m | h | m | h | m | h | m | h | m |
| M A R T E S | 15 00 | 179 | 55.1 | N23 | 18.0 | 242 | 16.6 | 14.0 | N13 | 03.4 | 9.4 | 54.7 | N 72 | □ | □ | h m | 22 | 17 | □ | □ | □ | □ | |
| | 01 | 194 | 55.0 | | 18.1 | 256 | 49.6 | 14.0 | 13 | 12.8 | 9.4 | 54.7 | N 70 | □ | □ | h m | 22 | 59 | 22 | 28 | □ | □ | |
| | 02 | 209 | 54.9 | | 18.2 | 271 | 22.6 | 13.9 | 13 | 22.2 | 9.4 | 54.7 | 68 | □ | □ | h m | 23 | 27 | 23 | 21 | 23 | 13 | □ |
| | 03 | 224 | 54.7 | .. | 18.3 | 285 | 55.5 | 13.9 | 13 | 31.6 | 9.3 | 54.7 | 66 | □ | □ | h m | 23 | 49 | 23 | 54 | 24 | 07 | 00 07 |
| | 04 | 239 | 54.6 | | 18.4 | 300 | 28.4 | 13.8 | 13 | 40.9 | 9.2 | 54.8 | 64 | /// | /// | h m | 01 | 32 | 24 | 06 | 00 | 06 | 00 18 |
| | 05 | 254 | 54.5 | | 18.5 | 315 | 01.2 | 13.8 | 13 | 50.1 | 9.2 | 54.8 | 62 | /// | /// | h m | 02 | 10 | 00 | 08 | 00 | 20 | 00 38 |
| | 06 | 269 | 54.3 | N23 | 18.6 | 329 | 34.0 | 13.6 | N13 | 59.3 | 9.2 | 54.8 | 60 | /// | 00 52 | h m | 02 | 36 | 00 | 17 | 00 | 32 | 00 53 |
| | 07 | 284 | 54.2 | | 18.7 | 344 | 06.6 | 13.7 | 14 | 08.5 | 9.0 | 54.8 | N 58 | /// | 01 41 | h m | 02 | 56 | 00 | 25 | 00 | 43 | 01 07 |
| | 08 | 299 | 54.1 | | 18.8 | 358 | 39.3 | 13.5 | 14 | 17.5 | 9.1 | 54.8 | 56 | /// | 02 11 | h m | 03 | 13 | 00 | 32 | 00 | 52 | 01 18 |
| | 09 | 314 | 53.9 | .. | 18.9 | 13 | 11.8 | 13.5 | 14 | 26.6 | 8.9 | 54.8 | 54 | 00 47 | 02 33 | h m | 03 | 27 | 00 | 38 | 01 | 00 | 01 29 |
| | 10 | 329 | 53.8 | | 19.0 | 27 | 44.3 | 13.5 | 14 | 35.5 | 9.0 | 54.9 | 52 | 01 33 | 02 51 | h m | 03 | 39 | 00 | 43 | 01 | 08 | 01 38 |
| | 11 | 344 | 53.7 | | 19.1 | 42 | 16.8 | 13.4 | 14 | 44.5 | 8.8 | 54.9 | 50 | 02 00 | 03 06 | h m | 03 | 50 | 00 | 48 | 01 | 14 | 01 46 |
| | 12 | 359 | 53.5 | N23 | 19.2 | 56 | 49.2 | 13.3 | N14 | 53.3 | 8.8 | 54.9 | 45 | 02 46 | 03 35 | h m | 04 | 13 | 00 | 59 | 01 | 28 | 02 03 |
| | 13 | 14 | 53.4 | | 19.3 | 71 | 21.5 | 13.2 | 15 | 02.1 | 8.8 | 54.9 | N 40 | 03 16 | 03 58 | h m | 04 | 31 | 01 | 08 | 01 | 40 | 02 17 |
| | 14 | 29 | 53.3 | | 19.4 | 85 | 53.7 | 13.2 | 15 | 10.9 | 8.6 | 54.9 | 35 | 03 39 | 04 16 | h m | 04 | 46 | 01 | 16 | 01 | 50 | 02 30 |
| | 15 | 44 | 53.1 | .. | 19.5 | 100 | 25.9 | 13.1 | 15 | 19.5 | 8.7 | 55.0 | 30 | 03 58 | 04 31 | h m | 04 | 59 | 01 | 23 | 01 | 59 | 02 40 |
| | 16 | 59 | 53.0 | | 19.6 | 114 | 58.0 | 13.1 | 15 | 28.2 | 8.5 | 55.0 | 20 | 04 27 | 04 56 | h m | 05 | 21 | 01 | 34 | 02 | 15 | 02 59 |
| | 17 | 74 | 52.9 | | 19.7 | 129 | 30.1 | 13.0 | 15 | 36.7 | 8.5 | 55.0 | N 10 | 04 49 | 05 16 | h m | 05 | 39 | 01 | 45 | 02 | 28 | 03 15 |
| | 18 | 89 | 52.7 | N23 | 19.8 | 144 | 02.1 | 12.9 | N15 | 45.2 | 8.4 | 55.0 | 0 | 05 08 | 05 34 | h m | 05 | 57 | 01 | 55 | 02 | 41 | 03 30 |
| | 19 | 104 | 52.6 | | 19.9 | 158 | 34.0 | 12.9 | 15 | 53.6 | 8.4 | 55.0 | S 10 | 05 25 | 05 52 | h m | 06 | 14 | 02 | 05 | 02 | 53 | 03 45 |
| | 20 | 119 | 52.4 | | 20.0 | 173 | 05.9 | 12.8 | 16 | 02.0 | 8.3 | 55.0 | 20 | 05 41 | 06 09 | h m | 06 | 33 | 02 | 15 | 03 | 07 | 04 01 |
| | 21 | 134 | 52.3 | .. | 20.1 | 187 | 37.7 | 12.7 | 16 | 10.3 | 8.2 | 55.1 | 30 | 05 58 | 06 28 | h m | 06 | 54 | 02 | 28 | 03 | 23 | 04 20 |
| | 22 | 149 | 52.2 | | 20.2 | 202 | 09.4 | 12.6 | 16 | 18.5 | 8.2 | 55.1 | 35 | 06 07 | 06 38 | h m | 07 | 06 | 02 | 35 | 03 | 32 | 04 30 |
| 23 | 164 | 52.0 | | 20.3 | 216 | 41.0 | 12.6 | 16 | 26.7 | 8.1 | 55.1 | 40 | 06 16 | 06 50 | h m | 07 | 20 | 02 | 43 | 03 | 43 | 04 43 | |
| 16 00 | 179 | 51.9 | N23 | 20.4 | 231 | 12.6 | 12.5 | N16 | 34.8 | 8.0 | 55.1 | 45 | 06 26 | 07 03 | h m | 07 | 37 | 02 | 52 | 03 | 55 | 04 58 | |
| 01 | 194 | 51.8 | | 20.5 | 245 | 44.1 | 12.5 | 16 | 42.8 | 8.0 | 55.1 | S 50 | 06 38 | 07 19 | h m | 07 | 58 | 03 | 04 | 04 | 10 | 05 16 | |
| 02 | 209 | 51.6 | | 20.6 | 260 | 15.6 | 12.4 | 16 | 50.8 | 7.9 | 55.2 | 52 | 06 43 | 07 27 | h m | 08 | 08 | 03 | 09 | 04 | 17 | 05 25 | |
| 03 | 224 | 51.5 | .. | 20.7 | 274 | 47.0 | 12.3 | 16 | 58.7 | 7.8 | 55.2 | 54 | 06 49 | 07 35 | h m | 08 | 19 | 03 | 15 | 04 | 25 | 05 34 | |
| 04 | 239 | 51.4 | | 20.7 | 289 | 18.3 | 12.2 | 17 | 06.5 | 7.7 | 55.2 | 56 | 06 55 | 07 44 | h m | 08 | 31 | 03 | 22 | 04 | 34 | 05 45 | |
| 05 | 254 | 51.2 | | 20.8 | 303 | 49.5 | 12.2 | 17 | 14.2 | 7.7 | 55.2 | 58 | 07 02 | 07 54 | h m | 08 | 46 | 03 | 29 | 04 | 44 | 05 58 | |
| 06 | 269 | 51.1 | N23 | 20.9 | 318 | 20.7 | 12.1 | N17 | 21.9 | 7.6 | 55.3 | S 60 | 07 09 | 08 06 | h m | 09 | 04 | 03 | 38 | 04 | 56 | 06 13 | |
| 07 | 284 | 51.0 | | 21.0 | 332 | 51.8 | 12.0 | 17 | 29.5 | 7.5 | 55.3 | | | | h m | | | | | | | | |
| 08 | 299 | 50.8 | | 21.1 | 347 | 22.8 | 11.9 | 17 | 37.0 | 7.5 | 55.3 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | 15 | 16 | 17 | 18 |
| 09 | 314 | 50.7 | .. | 21.2 | 1 | 53.7 | 11.9 | 17 | 44.5 | 7.3 | 55.3 | N 72 | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | |
| 10 | 329 | 50.6 | | 21.3 | 16 | 24.6 | 11.8 | 17 | 51.8 | 7.3 | 55.3 | N 70 | □ | □ | h m | 18 | 24 | □ | □ | □ | □ | □ | |
| 11 | 344 | 50.4 | | 21.4 | 30 | 55.4 | 11.8 | 17 | 59.1 | 7.2 | 55.4 | 68 | □ | □ | h m | 17 | 17 | 19 | 02 | 20 | 57 | □ | |
| 12 | 359 | 50.3 | N23 | 21.4 | 45 | 26.2 | 11.6 | N18 | 06.3 | 7.1 | 55.4 | 66 | □ | □ | h m | 16 | 56 | 18 | 30 | 20 | 02 | 21 23 | |
| 13 | 14 | 50.2 | | 21.5 | 59 | 56.8 | 11.6 | 18 | 13.4 | 7.1 | 55.4 | 64 | 22 30 | /// | h m | 16 | 39 | 18 | 06 | 19 | 30 | 20 43 | |
| 14 | 29 | 50.0 | | 21.6 | 74 | 27.4 | 11.5 | 18 | 20.5 | 7.0 | 55.4 | 62 | 21 52 | /// | h m | 16 | 26 | 17 | 47 | 19 | 06 | 20 15 | |
| 15 | 44 | 49.9 | .. | 21.7 | 88 | 57.9 | 11.5 | 18 | 27.5 | 6.8 | 55.5 | 60 | 21 26 | 23 11 | h m | 16 | 14 | 17 | 32 | 18 | 47 | 19 54 | |
| 16 | 59 | 49.7 | | 21.8 | 103 | 28.4 | 11.4 | 18 | 34.3 | 6.8 | 55.5 | N 58 | 21 05 | 22 21 | h m | 16 | 05 | 17 | 19 | 18 | 31 | 19 36 | |
| 17 | 74 | 49.6 | | 21.9 | 117 | 58.8 | 11.3 | 18 | 41.1 | 6.7 | 55.5 | 56 | 20 49 | 21 51 | h m | 15 | 56 | 17 | 08 | 18 | 18 | 19 22 | |
| 18 | 89 | 49.5 | N23 | 21.9 | 132 | 29.1 | 11.2 | N18 | 47.8 | 6.7 | 55.5 | 54 | 20 34 | 21 29 | h m | 23 | 15 | 15 | 48 | 16 | 58 | 18 06 | |
| 19 | 104 | 49.3 | | 22.0 | 146 | 59.3 | 11.2 | 18 | 54.5 | 6.5 | 55.6 | 52 | 20 22 | 21 11 | h m | 22 | 29 | 15 | 42 | 16 | 49 | 17 56 | |
| 20 | 119 | 49.2 | | 22.1 | 161 | 29.5 | 11.0 | 19 | 01.0 | 6.5 | 55.6 | 50 | 20 11 | 20 56 | h m | 22 | 01 | 15 | 35 | 16 | 42 | 17 47 | |
| 21 | 134 | 49.1 | .. | 22.2 | 175 | 59.5 | 11.1 | 19 | 07.5 | 6.3 | 55.6 | 45 | 19 49 | 20 26 | h m | 21 | 16 | 15 | 22 | 16 | 25 | 17 27 | |
| 22 | 149 | 48.9 | | 22.2 | 190 | 29.6 | 10.9 | 19 | 13.8 | 6.3 | 55.6 | N 40 | 19 31 | 20 04 | h m | 20 | 45 | 15 | 11 | 16 | 11 | 17 12 | |
| 23 | 164 | 48.8 | | 22.3 | 204 | 59.5 | 10.9 | 19 | 20.1 | 6.2 | 55.7 | 35 | 19 16 | 19 46 | h m | 20 | 22 | 15 | 02 | 16 | 00 | 16 58 | |
| 17 00 | 179 | 48.7 | N23 | 22.4 | 219 | 29.4 | 10.8 | N19 | 26.3 | 6.1 | 55.7 | 30 | 19 03 | 19 30 | h m | 20 | 04 | 14 | 54 | 15 | 50 | 16 47 | |
| 01 | 194 | 48.5 | | 22.5 | 233 | 59.2 | 10.7 | 19 | 32.4 | 6.0 | 55.7 | 20 | 18 41 | 19 05 | h m | 19 | 35 | 14 | 40 | 15 | 33 | 16 27 | |
| 02 | 209 | 48.4 | | 22.5 | 248 | 28.9 | 10.6 | 19 | 38.4 | 5.9 | 55.7 | N 10 | 18 22 | 18 45 | h m | 19 | 12 | 14 | 28 | 15 | 18 | 16 10 | |
| 03 | 224 | 48.2 | .. | 22.6 | 262 | 58.5 | 10.6 | 19 | 44.3 | 5.8 | 55.8 | 0 | 18 04 | 18 27 | h m | 18 | 53 | 14 | 17 | 15 | 04 | 15 54 | |
| 04 | 239 | 48.1 | | 22.7 | 277 | 28.1 | 10.5 | 19 | 50.1 | 5.7 | 55.8 | S 10 | 17 47 | 18 10 | h m | 18 | 36 | 14 | 05 | 14 | 50 | 15 38 | |
| 05 | 254 | 48.0 | | 22.8 | 291 | 57.6 | 10.5 | 19 | 55.8 | 5.6 | 55.8 | 20 | 17 28 | 17 52 | h m | 18 | 20 | 13 | 53 | 14 | 35 | 15 21 | |
| 06 | 269 | 47.8 | N23 | 22.8 | 306 | 27.1 | 10.3 | N20 | 01.4 | 5.6 | 55.8 | 30 | 17 07 | 17 34 | h m | 18 | 03 | 13 | 39 | 14 | 18 | 15 02 | |
| 07 | 284 | 47.7 | | 22.9 | 320 | 56.4 | 10.3 | 20 | 07.0 | 5.4 | 55.9 | 35 | 16 55 | 17 23 | h m | 17 | 55 | 13 | 31 | 14 | 08 | 14 50 | |
| 08 | 299 | 47.6 | | 23.0 | 335 | 25.7 | 10.2 | 20 | 12.4 | 5.3 | 55.9 | 40 | 16 41 | 17 11 | h m | 17 | 45 | 13 | 22 | 13 | 57 | 14 37 | |
| 09 | 314 | 47.4 | .. | 23.0 | 349 | 54.9 | 10.2 | 20 | 17.7 | 5.3 | 55.9 | 45 | 16 24 | 16 58 | h m | 17 | 35 | 13 | 12 | 13 | 44 | 14 22 | |
| 10 | 329 | 47.3 | | 23.1 | 4 | 24.1 | 10.1 | 20 | 23.0 | 5.1 | 55.9 | S 50 | 16 03 | 16 42 | h m | 17 | 23 | 12 | 59 | 13 | 28 | 14 03 | |
| 11 | 344 | 47.2 | | 23.2 | 18 | 53.2 | 10.0 | 20 | 28.1 | 5.0 | 56.0 | 52 | 15 53 | 16 34 | h m | 17 | 18 | 12 | 53 | 13 | 20 | 13 54 | |
| 12 | 359 | 47.0 | N23 | 23.2 | 33 | 22.2 | 9.9 | N20 | 33.1 | 4.9 | 56.0 | 54 | 15 42 | 16 26 | h m | 17 | 12 | 12 | 47 | 13 | 12 | 13 44 | |
| 13 | 14 | 46.9 | | 23.3 | 47 | 51.1 | 9.9 | 20 | 38.0 | 4.9 | 56.0 | 56 | 15 30 | 16 17 | h m | 17 | 06 | 12 | 40 | 13 | 02 | 13 33 | |
| 14 | 29 | 46.8 | | 23.4 | 62 | 20.0 | 9.8 | 20 | 42.9 | 4.7 | 56.0 | 58 | 15 15 | 16 07 | h m | 16 | 59 | 12 | 32 | 12 | 52 | 13 20 | |
| 15 | 44 | 46.6 | .. | 23.4 | 76 | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +1.5 | | | JUPITER -2.1 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|----------------|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 18 00 | 266 14.8 | 226 35.4 | N12 33.5 | 116 38.7 | N13 41.4 | 80 57.0 | S 0 48.7 | 293 23.9 | S12 39.0 | Acamar | 315 30.0 | S40 19.7 | | | | | | |
| 01 | 281 17.2 | 241 35.4 | 34.2 | 131 39.8 | 40.9 | 95 59.4 | 48.7 | 308 26.4 | 39.0 | Achernar | 335 38.1 | S57 15.9 | | | | | | |
| 02 | 296 19.7 | 256 35.4 | 34.9 | 146 40.9 | 40.3 | 111 01.7 | 48.8 | 323 28.9 | 39.0 | Acruz | 173 26.0 | S63 04.2 | | | | | | |
| 03 | 311 22.2 | 271 35.4 | · · 35.7 | 161 42.0 | · · 39.8 | 126 04.1 | · · 48.8 | 338 31.4 | · · 39.0 | Adhara | 255 24.6 | S28 57.9 | | | | | | |
| 04 | 326 24.6 | 286 35.4 | 36.4 | 176 43.1 | 39.3 | 141 06.4 | 48.9 | 353 33.9 | 39.0 | Aldebaran | 291 06.9 | N16 29.7 | | | | | | |
| 05 | 341 27.1 | 301 35.4 | 37.1 | 191 44.2 | 38.8 | 156 08.8 | 48.9 | 8 36.4 | 39.1 | | | | | | | | | |
| 06 | 356 29.5 | 316 35.4 | N12 37.8 | 206 45.3 | N13 38.3 | 171 11.1 | S 0 49.0 | 23 38.9 | S12 39.1 | Alioth | 166 33.6 | N55 59.9 | | | | | | |
| 07 | 11 32.0 | 331 35.4 | 38.6 | 221 46.4 | 37.7 | 186 13.5 | 49.1 | 38 41.4 | 39.1 | Alkaid | 153 10.4 | N49 20.9 | | | | | | |
| 08 | 26 34.5 | 346 35.4 | 39.3 | 236 47.5 | 37.2 | 201 15.9 | 49.1 | 53 43.9 | 39.1 | Al Na'ir | 28 02.2 | S46 59.2 | | | | | | |
| V 09 | 41 36.9 | 1 35.4 | · · 40.0 | 251 48.6 | · · 36.7 | 216 18.2 | · · 49.2 | 68 46.3 | · · 39.1 | Alnilam | 276 01.9 | S 1 12.4 | | | | | | |
| I 10 | 56 39.4 | 16 35.4 | 40.7 | 266 49.7 | 36.2 | 231 20.6 | 49.2 | 83 48.8 | 39.2 | Alphard | 218 11.0 | S 8 38.0 | | | | | | |
| E 11 | 71 41.9 | 31 35.4 | 41.5 | 281 50.8 | 35.6 | 246 22.9 | 49.3 | 98 51.3 | 39.2 | | | | | | | | | |
| R 12 | 86 44.3 | 46 35.4 | N12 42.2 | 296 51.9 | N13 35.1 | 261 25.3 | S 0 49.4 | 113 53.8 | S12 39.2 | Alphecca | 126 23.3 | N26 44.3 | | | | | | |
| N 13 | 101 46.8 | 61 35.4 | 42.9 | 311 53.0 | 34.6 | 276 27.6 | 49.4 | 128 56.3 | 39.2 | Alpheratz | 357 59.0 | N29 03.2 | | | | | | |
| E 14 | 116 49.3 | 76 35.4 | 43.6 | 326 54.1 | 34.1 | 291 30.0 | 49.5 | 143 58.8 | 39.2 | Altair | 62 22.5 | N 8 51.1 | | | | | | |
| S 15 | 131 51.7 | 91 35.4 | · · 44.4 | 341 55.2 | · · 33.6 | 306 32.3 | · · 49.5 | 159 01.3 | · · 39.3 | Ankaa | 353 30.4 | S42 20.2 | | | | | | |
| 16 | 146 54.2 | 106 35.4 | 45.1 | 356 56.3 | 33.0 | 321 34.7 | 49.6 | 174 03.8 | 39.3 | Antares | 112 44.2 | S26 25.1 | | | | | | |
| 17 | 161 56.7 | 121 35.4 | 45.8 | 11 57.4 | 32.5 | 336 37.0 | 49.7 | 189 06.3 | 39.3 | | | | | | | | | |
| 18 | 176 59.1 | 136 35.4 | N12 46.5 | 26 58.5 | N13 32.0 | 351 39.4 | S 0 49.7 | 204 08.8 | S12 39.3 | Arcturus | 146 09.1 | N19 13.0 | | | | | | |
| 19 | 192 01.6 | 151 35.4 | 47.3 | 41 59.6 | 31.5 | 6 41.7 | 49.8 | 219 11.3 | 39.3 | Atria | 107 59.0 | S69 01.1 | | | | | | |
| 20 | 207 04.0 | 166 35.4 | 48.0 | 57 00.7 | 31.0 | 21 44.1 | 49.8 | 234 13.8 | 39.4 | Avior | 234 24.7 | S59 29.6 | | | | | | |
| 21 | 222 06.5 | 181 35.4 | · · 48.7 | 72 01.8 | · · 30.4 | 36 46.4 | · · 49.9 | 249 16.3 | · · 39.4 | Bellatrix | 278 48.4 | N 6 20.6 | | | | | | |
| 22 | 237 09.0 | 196 35.4 | 49.4 | 87 02.9 | 29.9 | 51 48.8 | 50.0 | 264 18.8 | 39.4 | Betelgeuse | 271 17.8 | N 7 24.3 | | | | | | |
| 23 | 252 11.4 | 211 35.4 | 50.2 | 102 04.0 | 29.4 | 66 51.1 | 50.0 | 279 21.3 | 39.4 | | | | | | | | | |
| 19 00 | 267 13.9 | 226 35.4 | N12 50.9 | 117 05.1 | N13 28.9 | 81 53.5 | S 0 50.1 | 294 23.8 | S12 39.4 | Canopus | 264 03.3 | S52 41.6 | | | | | | |
| 01 | 282 16.4 | 241 35.4 | 51.6 | 132 06.2 | 28.3 | 96 55.8 | 50.2 | 309 26.3 | 39.5 | Capella | 280 57.0 | N45 59.4 | | | | | | |
| 02 | 297 18.8 | 256 35.3 | 52.3 | 147 07.3 | 27.8 | 111 58.2 | 50.2 | 324 28.7 | 39.5 | Deneb | 49 41.3 | N45 15.4 | | | | | | |
| 03 | 312 21.3 | 271 35.3 | · · 53.1 | 162 08.4 | · · 27.3 | 127 00.5 | · · 50.3 | 339 31.2 | · · 39.5 | Denebola | 182 48.9 | N14 36.5 | | | | | | |
| 04 | 327 23.8 | 286 35.3 | 53.8 | 177 09.5 | 26.8 | 142 02.8 | 50.3 | 354 33.7 | 39.5 | Diphda | 349 10.9 | S18 01.2 | | | | | | |
| 05 | 342 26.2 | 301 35.3 | 54.5 | 192 10.6 | 26.2 | 157 05.2 | 50.4 | 9 36.2 | 39.5 | | | | | | | | | |
| 06 | 357 28.7 | 316 35.3 | N12 55.2 | 207 11.7 | N13 25.7 | 172 07.5 | S 0 50.5 | 24 38.7 | S12 39.6 | Dubhe | 194 10.0 | N61 47.3 | | | | | | |
| 07 | 12 31.2 | 331 35.3 | 56.0 | 222 12.8 | 25.2 | 187 09.9 | 50.5 | 39 41.2 | 39.6 | Elnath | 278 31.9 | N28 36.1 | | | | | | |
| 08 | 27 33.6 | 346 35.3 | 56.7 | 237 13.9 | 24.7 | 202 12.2 | 50.6 | 54 43.7 | 39.6 | Eltanin | 90 52.5 | N51 29.4 | | | | | | |
| S 09 | 42 36.1 | 1 35.3 | · · 57.4 | 252 15.0 | · · 24.2 | 217 14.6 | · · 50.7 | 69 46.2 | · · 39.6 | Enif | 34 01.6 | N 9 50.8 | | | | | | |
| A 10 | 57 38.5 | 16 35.2 | 58.1 | 267 16.1 | 23.6 | 232 16.9 | 50.7 | 84 48.7 | 39.6 | Fomalhaut | 15 40.3 | S29 39.1 | | | | | | |
| B 11 | 72 41.0 | 31 35.2 | 58.9 | 282 17.2 | 23.1 | 247 19.3 | 50.8 | 99 51.2 | 39.7 | | | | | | | | | |
| A 12 | 87 43.5 | 46 35.2 | N12 59.6 | 297 18.3 | N13 22.6 | 262 21.6 | S 0 50.8 | 114 53.7 | S12 39.7 | Gacrux | 172 17.5 | S57 05.0 | | | | | | |
| D 13 | 102 45.9 | 61 35.2 | 13 00.3 | 312 19.4 | 22.1 | 277 24.0 | 50.9 | 129 56.2 | 39.7 | Gienah | 176 07.7 | S17 30.6 | | | | | | |
| O 14 | 117 48.4 | 76 35.2 | 01.0 | 327 20.5 | 21.5 | 292 26.3 | 51.0 | 144 58.7 | 39.7 | Hadar | 149 08.8 | S60 20.8 | | | | | | |
| 15 | 132 50.9 | 91 35.2 | · · 01.8 | 342 21.6 | · · 21.0 | 307 28.6 | · · 51.0 | 160 01.2 | · · 39.8 | Hamal | 328 17.8 | N23 25.9 | | | | | | |
| 16 | 147 53.3 | 106 35.1 | 02.5 | 357 22.7 | 20.5 | 322 31.0 | 51.1 | 175 03.7 | 39.8 | Kaus Aust. | 84 03.2 | S34 23.2 | | | | | | |
| 17 | 162 55.8 | 121 35.1 | 03.2 | 12 23.8 | 20.0 | 337 33.3 | 51.2 | 190 06.2 | 39.8 | | | | | | | | | |
| 18 | 177 58.3 | 136 35.1 | N13 03.9 | 27 24.9 | N13 19.4 | 352 35.7 | S 0 51.2 | 205 08.7 | S12 39.8 | Kochab | 137 18.5 | N74 11.1 | | | | | | |
| 19 | 193 00.7 | 151 35.1 | 04.6 | 42 26.0 | 18.9 | 7 38.0 | 51.3 | 220 11.2 | 39.8 | Markab | 13 53.1 | N15 10.2 | | | | | | |
| 20 | 208 03.2 | 166 35.0 | 05.4 | 57 27.1 | 18.4 | 22 40.4 | 51.3 | 235 13.7 | 39.9 | Menkar | 314 30.9 | N 4 03.9 | | | | | | |
| 21 | 223 05.6 | 181 35.0 | · · 06.1 | 72 28.2 | · · 17.8 | 37 42.7 | · · 51.4 | 250 16.2 | · · 39.9 | Menkent | 148 25.0 | S36 20.5 | | | | | | |
| 22 | 238 08.1 | 196 35.0 | 06.8 | 87 29.3 | 17.3 | 52 45.0 | 51.5 | 265 18.7 | 39.9 | Miaplacidus | 221 43.5 | S69 41.8 | | | | | | |
| 23 | 253 10.6 | 211 35.0 | 07.5 | 102 30.4 | 16.8 | 67 47.4 | 51.5 | 280 21.2 | 39.9 | | | | | | | | | |
| 20 00 | 268 13.0 | 226 34.9 | N13 08.3 | 117 31.5 | N13 16.3 | 82 49.7 | S 0 51.6 | 295 23.7 | S12 39.9 | Mirfak | 309 02.2 | N49 50.2 | | | | | | |
| 01 | 283 15.5 | 241 34.9 | 09.0 | 132 32.6 | 15.7 | 97 52.1 | 51.7 | 310 26.2 | 40.0 | Nunki | 76 16.4 | S26 18.2 | | | | | | |
| 02 | 298 18.0 | 256 34.9 | 09.7 | 147 33.7 | 15.2 | 112 54.4 | 51.7 | 325 28.7 | 40.0 | Peacock | 53 42.2 | S56 45.1 | | | | | | |
| 03 | 313 20.4 | 271 34.9 | · · 10.4 | 162 34.8 | · · 14.7 | 127 56.8 | · · 51.8 | 340 31.2 | · · 40.0 | Pollux | 243 46.3 | N28 02.5 | | | | | | |
| 04 | 328 22.9 | 286 34.8 | 11.1 | 177 35.9 | 14.2 | 142 59.1 | 51.9 | 355 33.7 | 40.0 | Procyon | 245 15.6 | N 5 14.4 | | | | | | |
| 05 | 343 25.4 | 301 34.8 | 11.9 | 192 36.9 | 13.6 | 158 01.4 | 51.9 | 10 36.2 | 40.1 | | | | | | | | | |
| 06 | 358 27.8 | 316 34.8 | N13 12.6 | 207 38.0 | N13 13.1 | 173 03.8 | S 0 52.0 | 25 38.7 | S12 40.1 | Rasalhague | 96 20.0 | N12 33.9 | | | | | | |
| 07 | 13 30.3 | 331 34.7 | 13.3 | 222 39.1 | 12.6 | 188 06.1 | 52.1 | 40 41.2 | 40.1 | Regulus | 207 59.5 | N11 59.9 | | | | | | |
| D 08 | 28 32.8 | 346 34.7 | 14.0 | 237 40.2 | 12.1 | 203 08.5 | 52.1 | 55 43.7 | 40.1 | Rigel | 281 26.8 | S 8 12.6 | | | | | | |
| O 09 | 43 35.2 | 1 34.7 | · · 14.8 | 252 41.3 | · · 11.5 | 218 10.8 | · · 52.2 | 70 46.2 | · · 40.1 | Rigil Kent. | 140 11.7 | S60 48.7 | | | | | | |
| M 10 | 58 37.7 | 16 34.6 | 15.5 | 267 42.4 | 11.0 | 233 13.1 | 52.2 | 85 48.7 | 40.2 | Sabik | 102 29.3 | S15 43.0 | | | | | | |
| I 11 | 73 40.1 | 31 34.6 | 16.2 | 282 43.5 | 10.5 | 248 15.5 | 52.3 | 100 51.2 | 40.2 | | | | | | | | | |
| N 12 | 88 42.6 | 46 34.6 | N13 16.9 | 297 44.6 | N13 09.9 | 263 17.8 | S 0 52.4 | 115 53.7 | S12 40.2 | Schedar | 349 57.8 | N56 29.9 | | | | | | |
| G 13 | 103 45.1 | 61 34.5 | 17.6 | 312 45.7 | 09.4 | 278 20.2 | 52.4 | 130 56.2 | 40.2 | Shaula | 96 41.8 | S37 05.9 | | | | | | |
| O 14 | 118 47.5 | 76 34.5 | 18.4 | 327 46.8 | 08.9 | 293 22.5 | 52.5 | 145 58.7 | 40.3 | Sirius | 258 47.2 | S16 42.5 | | | | | | |
| 15 | 133 50.0 | 91 34.5 | · · 19.1 | 342 47.9 | · · 08.4 | 308 24.8 | · · 52.6 | 161 01.2 | · · 40.3 | Spica | 158 46.9 | S11 07.8 | | | | | | |
| 16 | 148 52.5 | 106 34.4 | 19.8 | 357 49.0 | 07.8 | 323 27.2 | 52.6 | 176 03.7 | 40.3 | Suhail | 223 03.7 | S43 24.7 | | | | | | |
| 17 | 163 54.9 | 121 34.4 | 20.5 | 12 50.1 | 07.3 | 338 29.5 | 52.7 | 191 06.2 | 40.3 | | | | | | | | | |
| 18 | 178 57.4 | 136 34.4 | N13 21.2 | 27 51.2 | N13 06.8 | 353 31.8 | S 0 52.8 | 206 08.7 | S12 40.4 | Vega | 80 48.6 | N38 46.7 | | | | | | |
| 19 | 193 59.9 | 151 34.3 | 22.0 | 42 52.3 | 06.2 | 8 34.2 | 52.8 | 221 11.2 | 40.4 | Zuben'ubi | 137 21.7 | S16 01.0 | | | | | | |
| 20 | 209 02.3 | 166 34.3 | 22.7 | 57 53.4 | 05.7 | 23 36.5 | 52.9 | 236 13.7 | 40.4 | | | | | | | | | |
| 21 | 224 04.8 | 181 34.2 | · · 23.4 | 72 54.5 | · · 05.2 | 38 38.8 | · · 53.0 | 251 16.2 | · · 40.4 | | | | | | | | | |
| 22 | 239 07.3 | 196 34.2 | 24.1 | 87 55.6 | 04.7 | 53 41.2 | 53.0 | 266 18.7 | 40.4 | | | | | | | | | |
| 23 | 254 09.7 | 211 34.2 | 24.8 | 102 56.7 | 04.1 | 68 43.5 | 53.1 | 281 21.2 | 40.5 | | | | | | | | | |
| Pas. Mer. | 6 10.1 | v 0.0 | d 0.7 | v 1.1 | d 0.5 | v 2.3 | d 0.1 | v 2.5 | d 0.0 | | | | | | | | | |
| | | | | | | | | | | Venus | 319 21.5 | 8 54 | | | | | | |
| | | | | | | | | | | Marte | 209 51.2 | 16 10 | | | | | | |
| | | | | | | | | | | Júpiter | 174 39.6 | 18 30 | | | | | | |
| | | | | | | | | | | Saturno | 27 09.9 | 4 22 | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | |
|----------------|----------|----------|----------|-----|----------|-----|------|------------|-----------|------------------|-----------|------------|-------|-------|-------|-------|-------|----|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 18 | | 19 | | 20 | | 21 | |
| | | | | | | | | | | | | h | m | h | m | h | m | h | m |
| 18 00 | 179 45.4 | N23 24.0 | 207 05.0 | 9.1 | N21 25.2 | 3.7 | 56.3 | N 72 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| 01 | 194 45.2 | 24.1 | 221 33.1 | 9.1 | 21 28.9 | 3.5 | 56.3 | N 70 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| 02 | 209 45.1 | 24.1 | 236 01.2 | 9.0 | 21 32.4 | 3.4 | 56.3 | 68 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| 03 | 224 45.0 | 24.2 | 250 29.2 | 9.0 | 21 35.8 | 3.3 | 56.4 | 66 | □ | □ | □ | □ | □ | □ | □ | □ | □ | □ | |
| 04 | 239 44.8 | 24.2 | 264 57.2 | 8.9 | 21 39.1 | 3.2 | 56.4 | 64 | //// | //// | 01 31 | 00 40 | 01 19 | 02 23 | 03 48 | 02 40 | 03 20 | | |
| 05 | 254 44.7 | 24.3 | 279 25.1 | 8.8 | 21 42.3 | 3.0 | 56.4 | 62 | //// | //// | 02 09 | 01 05 | 01 47 | 02 49 | 04 09 | 04 09 | 04 09 | | |
| 06 | 269 44.6 | N23 24.3 | 293 52.9 | 8.8 | N21 45.3 | 3.0 | 56.5 | 60 | //// | 00 49 | 02 35 | 01 24 | 02 08 | 03 10 | 04 27 | 04 27 | 04 27 | | |
| 07 | 284 44.4 | 24.4 | 308 20.7 | 8.7 | 21 48.3 | 2.8 | 56.5 | N 58 | //// | 01 40 | 02 56 | 01 40 | 02 26 | 03 27 | 04 41 | 04 41 | 04 41 | | |
| 08 | 299 44.3 | 24.4 | 322 48.4 | 8.7 | 21 51.1 | 2.7 | 56.5 | 56 | //// | 02 10 | 03 13 | 01 54 | 02 41 | 03 41 | 04 53 | 04 53 | 04 53 | | |
| 09 | 314 44.2 | 24.5 | 337 16.1 | 8.6 | 21 53.8 | 2.6 | 56.5 | 54 | 00 45 | 02 32 | 03 27 | 02 05 | 02 53 | 03 53 | 05 04 | 05 04 | 05 04 | | |
| V 10 | 329 44.0 | 24.5 | 351 43.7 | 8.5 | 21 56.4 | 2.4 | 56.6 | 52 | 01 32 | 02 50 | 03 39 | 02 16 | 03 04 | 04 04 | 05 14 | 05 14 | 05 14 | | |
| I 11 | 344 43.9 | 24.6 | 6 11.2 | 8.5 | 21 58.8 | 2.4 | 56.6 | 50 | 02 00 | 03 06 | 03 50 | 02 25 | 03 14 | 04 14 | 05 22 | 05 22 | 05 22 | | |
| R 12 | 359 43.7 | N23 24.6 | 20 38.7 | 8.4 | N22 01.2 | 2.2 | 56.6 | 45 | 02 46 | 03 35 | 04 13 | 02 45 | 03 35 | 04 34 | 05 40 | 05 40 | 05 40 | | |
| N 13 | 14 43.6 | 24.7 | 35 06.1 | 8.4 | 22 03.4 | 2.1 | 56.6 | N 40 | 03 16 | 03 58 | 04 31 | 03 01 | 03 52 | 04 51 | 05 55 | 05 55 | 05 55 | | |
| S 14 | 29 43.5 | 24.7 | 49 33.5 | 8.4 | 22 05.5 | 2.0 | 56.7 | 35 | 03 39 | 04 16 | 04 46 | 03 15 | 04 06 | 05 04 | 06 07 | 06 07 | 06 07 | | |
| 15 | 44 43.3 | 24.8 | 64 00.9 | 8.3 | 22 07.5 | 1.9 | 56.7 | 30 | 03 58 | 04 31 | 04 59 | 03 27 | 04 19 | 05 17 | 06 18 | 06 18 | 06 18 | | |
| 16 | 59 43.2 | 24.8 | 78 28.2 | 8.2 | 22 09.4 | 1.7 | 56.7 | 20 | 04 27 | 04 56 | 05 21 | 03 47 | 04 40 | 05 37 | 06 37 | 06 37 | 06 37 | | |
| 17 | 74 43.1 | 24.9 | 92 55.4 | 8.2 | 22 11.1 | 1.6 | 56.8 | N 10 | 04 50 | 05 17 | 05 40 | 04 05 | 04 59 | 05 55 | 06 53 | 06 53 | 06 53 | | |
| 18 | 89 42.9 | N23 24.9 | 107 22.6 | 8.1 | N22 12.7 | 1.5 | 56.8 | 0 | 05 09 | 05 35 | 05 58 | 04 21 | 05 16 | 06 12 | 07 08 | 07 08 | 07 08 | | |
| 19 | 104 42.8 | 25.0 | 121 49.7 | 8.1 | 22 14.2 | 1.3 | 56.8 | S 10 | 05 26 | 05 52 | 06 15 | 04 38 | 05 33 | 06 29 | 07 23 | 07 23 | 07 23 | | |
| 20 | 119 42.6 | 25.0 | 136 16.8 | 8.0 | 22 15.5 | 1.3 | 56.8 | 20 | 05 42 | 06 10 | 06 34 | 04 56 | 05 52 | 06 46 | 07 39 | 07 39 | 07 39 | | |
| 21 | 134 42.5 | 25.1 | 150 43.8 | 8.0 | 22 16.8 | 1.1 | 56.9 | 30 | 05 59 | 06 28 | 06 55 | 05 17 | 06 13 | 07 07 | 07 57 | 07 57 | 07 57 | | |
| 22 | 149 42.4 | 25.1 | 165 10.8 | 8.0 | 22 17.9 | 0.9 | 56.9 | 35 | 06 07 | 06 39 | 07 07 | 05 29 | 06 26 | 07 19 | 08 08 | 08 08 | 08 08 | | |
| 23 | 164 42.2 | 25.1 | 179 37.8 | 7.9 | 22 18.8 | 0.9 | 56.9 | 40 | 06 17 | 06 51 | 07 21 | 05 43 | 06 40 | 07 33 | 08 20 | 08 20 | 08 20 | | |
| 19 00 | 179 42.1 | N23 25.2 | 194 04.7 | 7.9 | N22 19.7 | 0.7 | 56.9 | 45 | 06 27 | 07 04 | 07 38 | 05 59 | 06 57 | 07 49 | 08 35 | 08 35 | 08 35 | | |
| 01 | 194 42.0 | 25.2 | 208 31.6 | 7.8 | 22 20.4 | 0.6 | 57.0 | S 50 | 06 39 | 07 21 | 07 59 | 06 20 | 07 18 | 08 09 | 08 52 | 08 52 | 08 52 | | |
| 02 | 209 41.8 | 25.3 | 222 58.4 | 7.8 | 22 21.0 | 0.4 | 57.0 | 52 | 06 44 | 07 28 | 08 09 | 06 30 | 07 28 | 08 19 | 09 00 | 09 00 | 09 00 | | |
| 03 | 224 41.7 | 25.3 | 237 25.2 | 7.8 | 22 21.4 | 0.4 | 57.0 | 54 | 06 50 | 07 36 | 08 20 | 06 40 | 07 40 | 08 30 | 09 09 | 09 09 | 09 09 | | |
| 04 | 239 41.5 | 25.3 | 251 52.0 | 7.7 | 22 21.8 | 0.2 | 57.0 | 56 | 06 56 | 07 45 | 08 33 | 06 53 | 07 53 | 08 42 | 09 20 | 09 20 | 09 20 | | |
| 05 | 254 41.4 | 25.4 | 266 18.7 | 7.7 | 22 22.0 | 0.0 | 57.1 | 58 | 07 03 | 07 56 | 08 48 | 07 07 | 08 08 | 08 56 | 09 31 | 09 31 | 09 31 | | |
| 06 | 269 41.3 | N23 25.4 | 280 45.4 | 7.6 | N22 22.0 | 0.0 | 57.1 | S 60 | 07 10 | 08 07 | 09 05 | 07 25 | 08 26 | 09 12 | 09 45 | 09 45 | 09 45 | | |
| 07 | 284 41.1 | 25.5 | 295 12.0 | 7.6 | 22 22.0 | 0.2 | 57.1 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | | | | | |
| 08 | 299 41.0 | 25.5 | 309 38.6 | 7.6 | 22 21.8 | 0.3 | 57.2 | N 72 | □ | □ | □ | □ | □ | □ | □ | □ | □ | | |
| S 09 | 314 40.9 | 25.5 | 324 05.2 | 7.6 | 22 21.5 | 0.5 | 57.2 | N 70 | □ | □ | □ | □ | □ | □ | □ | □ | □ | | |
| A 10 | 329 40.7 | 25.6 | 338 31.8 | 7.5 | 22 21.0 | 0.6 | 57.2 | 68 | □ | □ | □ | □ | □ | □ | □ | □ | □ | | |
| B 11 | 344 40.6 | 25.6 | 352 58.3 | 7.5 | 22 20.4 | 0.7 | 57.2 | 66 | □ | □ | □ | □ | □ | □ | □ | □ | □ | | |
| A 12 | 359 40.5 | N23 25.6 | 7 24.8 | 7.4 | N22 19.7 | 0.9 | 57.3 | 64 | 22 32 | //// | //// | 21 23 | 22 13 | 23 16 | 23 09 | 23 09 | 23 09 | | |
| D 13 | 14 40.3 | 25.7 | 21 51.2 | 7.5 | 22 18.8 | 1.0 | 57.3 | 62 | 21 54 | //// | //// | 20 43 | 21 35 | 22 35 | 22 44 | 22 44 | 22 44 | | |
| O 14 | 29 40.2 | 25.7 | 36 17.7 | 7.4 | 22 17.8 | 1.1 | 57.3 | 60 | 21 27 | 23 14 | //// | 19 54 | 20 48 | 21 27 | 21 55 | 21 55 | 21 55 | | |
| 15 | 44 40.0 | 25.7 | 50 44.1 | 7.4 | 22 16.7 | 1.2 | 57.3 | N 58 | 21 07 | 22 23 | //// | 19 36 | 20 30 | 21 12 | 21 43 | 21 43 | 21 43 | | |
| 16 | 59 39.9 | 25.7 | 65 10.5 | 7.4 | 22 15.5 | 1.4 | 57.4 | 56 | 20 50 | 21 53 | //// | 19 22 | 20 16 | 20 59 | 21 33 | 21 33 | 21 33 | | |
| 17 | 74 39.8 | 25.8 | 79 36.9 | 7.3 | 22 14.1 | 1.5 | 57.4 | 54 | 20 36 | 21 30 | 23 18 | 19 09 | 20 04 | 20 48 | 21 24 | 21 24 | 21 24 | | |
| 18 | 89 39.6 | N23 25.8 | 94 03.2 | 7.4 | N22 12.6 | 1.7 | 57.4 | 52 | 20 23 | 21 12 | 22 31 | 18 58 | 19 53 | 20 38 | 21 16 | 21 16 | 21 16 | | |
| 19 | 104 39.5 | 25.8 | 108 29.6 | 7.3 | 22 10.9 | 1.8 | 57.4 | 50 | 20 12 | 20 57 | 22 03 | 18 48 | 19 43 | 20 30 | 21 08 | 21 08 | 21 08 | | |
| 20 | 119 39.4 | 25.9 | 122 55.9 | 7.3 | 22 09.1 | 1.9 | 57.5 | 45 | 19 50 | 20 27 | 21 17 | 18 27 | 19 22 | 20 11 | 20 53 | 20 53 | 20 53 | | |
| 21 | 134 39.2 | 25.9 | 137 22.2 | 7.3 | 22 07.2 | 2.1 | 57.5 | N 40 | 19 32 | 20 05 | 20 46 | 18 10 | 19 05 | 19 56 | 20 40 | 20 40 | 20 40 | | |
| 22 | 149 39.1 | 25.9 | 151 48.5 | 7.2 | 22 05.1 | 2.2 | 57.5 | 35 | 19 17 | 19 46 | 20 23 | 17 56 | 18 51 | 19 43 | 20 29 | 20 29 | 20 29 | | |
| 23 | 164 38.9 | 25.9 | 166 14.7 | 7.3 | 22 02.9 | 2.3 | 57.5 | 30 | 19 04 | 19 31 | 20 05 | 17 44 | 18 39 | 19 31 | 20 19 | 20 19 | 20 19 | | |
| 20 00 | 179 38.8 | N23 26.0 | 180 41.0 | 7.2 | N22 00.6 | 2.5 | 57.6 | 20 | 18 42 | 19 06 | 19 35 | 17 23 | 18 18 | 19 12 | 20 03 | 20 03 | 20 03 | | |
| 01 | 194 38.7 | 26.0 | 195 07.2 | 7.3 | 21 58.1 | 2.6 | 57.6 | N 10 | 18 23 | 18 46 | 19 13 | 17 04 | 18 00 | 18 55 | 19 48 | 19 48 | 19 48 | | |
| 02 | 209 38.5 | 26.0 | 209 33.5 | 7.2 | 21 55.5 | 2.7 | 57.6 | 0 | 18 05 | 18 28 | 18 54 | 16 47 | 17 43 | 18 39 | 19 34 | 19 34 | 19 34 | | |
| 03 | 224 38.4 | 26.0 | 223 59.7 | 7.2 | 21 52.8 | 2.9 | 57.6 | S 10 | 17 48 | 18 10 | 18 37 | 16 30 | 17 25 | 18 23 | 19 20 | 19 20 | 19 20 | | |
| 04 | 239 38.3 | 26.0 | 238 25.9 | 7.2 | 21 49.9 | 3.0 | 57.7 | 20 | 17 29 | 17 53 | 18 20 | 16 12 | 17 07 | 18 05 | 19 06 | 19 06 | 19 06 | | |
| 05 | 254 38.1 | 26.1 | 252 52.1 | 7.2 | 21 46.9 | 3.1 | 57.7 | 30 | 17 08 | 17 34 | 18 04 | 15 51 | 16 46 | 17 45 | 18 48 | 18 48 | 18 48 | | |
| 06 | 269 38.0 | N23 26.1 | 267 18.3 | 7.2 | N21 43.8 | 3.3 | 57.7 | 35 | 16 55 | 17 24 | 17 55 | 15 38 | 16 33 | 17 34 | 18 38 | 18 38 | 18 38 | | |
| 07 | 284 37.8 | 26.1 | 281 44.5 | 7.2 | 21 40.5 | 3.4 | 57.7 | 40 | 16 41 | 17 12 | 17 46 | 15 24 | 16 19 | 17 20 | 18 27 | 18 27 | 18 27 | | |
| 08 | 299 37.7 | 26.1 | 296 10.7 | 7.3 | 21 37.1 | 3.5 | 57.8 | 45 | 16 24 | 16 58 | 17 35 | 15 07 | 16 02 | 17 05 | 18 13 | 18 13 | 18 13 | | |
| 09 | 314 37.6 | 26.1 | 310 37.0 | 7.2 | 21 33.6 | 3.7 | 57.8 | S 50 | 16 04 | 16 42 | 17 24 | 14 47 | 15 41 | 16 45 | 17 57 | 17 57 | 17 57 | | |
| 10 | 329 37.4 | 26.2 | 325 03.2 | 7.2 | 21 29.9 | 3.8 | 57.8 | 52 | 15 54 | 16 35 | 17 18 | 14 37 | 15 31 | 16 36 | 17 49 | 17 49 | 17 49 | | |
| 11 | 344 37.3 | 26.2 | 339 29.4 | 7.2 | 21 26.1 | 3.9 | 57.8 | 54 | 15 42 | 16 26 | 17 13 | 14 26 | 15 19 | 16 25 | 17 40 | 17 40 | 17 40 | | |
| 12 | 359 37.2 | N23 26.2 | 353 55.6 | 7.2 | N21 22.2 | 4.1 | 57.9 | 56 | 15 30 | 16 17 | 17 06 | 14 13 | 15 06 | 16 13 | 17 30 | 17 30 | 1 | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +1.5 | | | JUPITER -2.0 | | | SATURNO +0.7 | | | ESTRELLAS | | |
|---|----------|----------|--------------|------------|--------------|---------|------------|----------|--------------|--------------|-------------|----------|--------------|----------|------|-----------|------|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | A. H. S. | Dec. | |
| L U N E S | 21 00 | 269 12.2 | 226 34.1 N13 | 25.6 | 117 57.8 N13 | 03.6 | 83 45.9 S | 0 53.2 | 296 23.7 S12 | 40.5 | Acamar | 315 29.9 | S40 | 19.6 | | | | |
| | 01 | 284 14.6 | 241 34.1 | 26.3 | 132 58.9 | 03.1 | 98 48.2 | 53.2 | 311 26.2 | 40.5 | Achernar | 335 38.0 | S57 | 15.8 | | | | |
| | 02 | 299 17.1 | 256 34.0 | 27.0 | 148 00.0 | 02.5 | 113 50.5 | 53.3 | 326 28.7 | 40.5 | Acrux | 173 26.0 | S63 | 04.2 | | | | |
| | 03 | 314 19.6 | 271 34.0 | 27.7 | 163 01.1 | 02.0 | 128 52.9 | 53.4 | 341 31.2 | 40.6 | Adhara | 255 24.6 | S28 | 57.9 | | | | |
| | 04 | 329 22.0 | 286 33.9 | 28.4 | 178 02.2 | 01.5 | 143 55.2 | 53.4 | 356 33.7 | 40.6 | Aldebaran | 291 06.8 | N16 | 29.7 | | | | |
| | 05 | 344 24.5 | 301 33.9 | 29.2 | 193 03.3 | 00.9 | 158 57.5 | 53.5 | 11 36.2 | 40.6 | | | | | | | | |
| | 06 | 359 27.0 | 316 33.8 N13 | 29.9 | 208 04.4 N13 | 00.4 | 173 59.9 S | 0 53.6 | 26 38.7 S12 | 40.6 | Alioth | 166 33.6 | N55 | 59.9 | | | | |
| | 07 | 14 29.4 | 331 33.8 | 30.6 | 223 05.5 | 12 59.9 | 189 02.2 | 53.6 | 41 41.2 | 40.7 | Alkaid | 153 10.4 | N49 | 20.9 | | | | |
| | 08 | 29 31.9 | 346 33.7 | 31.3 | 238 06.6 | 59.3 | 204 04.5 | 53.7 | 56 43.7 | 40.7 | Al Na'ir | 28 02.1 | S46 | 59.2 | | | | |
| | 09 | 44 34.4 | 1 33.7 | 32.0 | 253 07.7 | 58.8 | 219 06.9 | 53.8 | 71 46.3 | 40.7 | Alnilam | 276 01.9 | S 1 | 12.4 | | | | |
| | 10 | 59 36.8 | 16 33.6 | 32.8 | 268 08.8 | 58.3 | 234 09.2 | 53.8 | 86 48.8 | 40.7 | Alphard | 218 11.0 | S 8 | 38.0 | | | | |
| | 11 | 74 39.3 | 31 33.6 | 33.5 | 283 09.9 | 57.8 | 249 11.5 | 53.9 | 101 51.3 | 40.8 | | | | | | | | |
| | 12 | 89 41.7 | 46 33.5 N13 | 34.2 | 298 11.0 N12 | 57.2 | 264 13.9 S | 0 54.0 | 116 53.8 S12 | 40.8 | Alphecca | 126 23.3 | N26 | 44.3 | | | | |
| | 13 | 104 44.2 | 61 33.5 | 34.9 | 313 12.1 | 56.7 | 279 16.2 | 54.0 | 131 56.3 | 40.8 | Alpheratz | 357 59.0 | N29 | 03.2 | | | | |
| | 14 | 119 46.7 | 76 33.4 | 35.6 | 328 13.2 | 56.2 | 294 18.5 | 54.1 | 146 58.8 | 40.8 | Altair | 62 22.5 | N 8 | 51.1 | | | | |
| | 15 | 134 49.1 | 91 33.4 | 36.4 | 343 14.3 | 55.6 | 309 20.9 | 54.2 | 162 01.3 | 40.8 | Ankaa | 353 30.4 | S42 | 20.2 | | | | |
| | 16 | 149 51.6 | 106 33.3 | 37.1 | 358 15.4 | 55.1 | 324 23.2 | 54.3 | 177 03.8 | 40.9 | Antares | 112 44.2 | S26 | 25.1 | | | | |
| | 17 | 164 54.1 | 121 33.3 | 37.8 | 13 16.5 | 54.6 | 339 25.5 | 54.3 | 192 06.3 | 40.9 | | | | | | | | |
| | 18 | 179 56.5 | 136 33.2 N13 | 38.5 | 28 17.5 N12 | 54.0 | 354 27.8 S | 0 54.4 | 207 08.8 S12 | 40.9 | Arcturus | 146 09.1 | N19 | 13.0 | | | | |
| | 19 | 194 59.0 | 151 33.2 | 39.2 | 43 18.6 | 53.5 | 9 30.2 | 54.5 | 222 11.3 | 40.9 | Atria | 107 59.0 | S69 | 01.1 | | | | |
| | 20 | 210 01.5 | 166 33.1 | 39.9 | 58 19.7 | 53.0 | 24 32.5 | 54.5 | 237 13.8 | 41.0 | Avior | 234 24.7 | S59 | 29.6 | | | | |
| | 21 | 225 03.9 | 181 33.1 | 40.7 | 73 20.8 | 52.4 | 39 34.8 | 54.6 | 252 16.3 | 41.0 | Bellatrix | 278 48.4 | N 6 | 20.6 | | | | |
| | 22 | 240 06.4 | 196 33.0 | 41.4 | 88 21.9 | 51.9 | 54 37.2 | 54.7 | 267 18.8 | 41.0 | Betelgeuse | 271 17.8 | N 7 | 24.3 | | | | |
| 23 | 255 08.9 | 211 32.9 | 42.1 | 103 23.0 | 51.4 | 69 39.5 | 54.7 | 282 21.3 | 41.0 | | | | | | | | | |
| M A R T E S | 22 00 | 270 11.3 | 226 32.9 N13 | 42.8 | 118 24.1 N12 | 50.8 | 84 41.8 S | 0 54.8 | 297 23.8 S12 | 41.1 | Canopus | 264 03.3 | S52 | 41.6 | | | | |
| | 01 | 285 13.8 | 241 32.8 | 43.5 | 133 25.2 | 50.3 | 99 44.2 | 54.9 | 312 26.3 | 41.1 | Capella | 280 57.0 | N45 | 59.4 | | | | |
| | 02 | 300 16.2 | 256 32.8 | 44.2 | 148 26.3 | 49.8 | 114 46.5 | 54.9 | 327 28.9 | 41.1 | Deneb | 49 41.3 | N45 | 15.4 | | | | |
| | 03 | 315 18.7 | 271 32.7 | 45.0 | 163 27.4 | 49.2 | 129 48.8 | 55.0 | 342 31.4 | 41.1 | Denebola | 182 48.9 | N14 | 36.5 | | | | |
| | 04 | 330 21.2 | 286 32.6 | 45.7 | 178 28.5 | 48.7 | 144 51.1 | 55.1 | 357 33.9 | 41.2 | Diphda | 349 10.9 | S18 | 01.1 | | | | |
| | 05 | 345 23.6 | 301 32.6 | 46.4 | 193 29.6 | 48.2 | 159 53.5 | 55.2 | 12 36.4 | 41.2 | | | | | | | | |
| | 06 | 0 26.1 | 316 32.5 N13 | 47.1 | 208 30.7 N12 | 47.6 | 174 55.8 S | 0 55.2 | 27 38.9 S12 | 41.2 | Dubhe | 194 10.0 | N61 | 47.3 | | | | |
| | 07 | 15 28.6 | 331 32.4 | 47.8 | 223 31.8 | 47.1 | 189 58.1 | 55.3 | 42 41.4 | 41.2 | Elnath | 278 31.9 | N28 | 36.1 | | | | |
| | 08 | 30 31.0 | 346 32.4 | 48.5 | 238 32.9 | 46.6 | 205 00.5 | 55.4 | 57 43.9 | 41.3 | Eltanin | 90 52.5 | N51 | 29.4 | | | | |
| | 09 | 45 33.5 | 1 32.3 | 49.3 | 253 34.0 | 46.0 | 220 02.8 | 55.4 | 72 46.4 | 41.3 | Enif | 34 01.6 | N 9 | 50.8 | | | | |
| | 10 | 60 36.0 | 16 32.2 | 50.0 | 268 35.1 | 45.5 | 235 05.1 | 55.5 | 87 48.9 | 41.3 | Fomalhaut | 15 40.3 | S29 | 39.1 | | | | |
| | 11 | 75 38.4 | 31 32.2 | 50.7 | 283 36.2 | 44.9 | 250 07.4 | 55.6 | 102 51.4 | 41.3 | | | | | | | | |
| | 12 | 90 40.9 | 46 32.1 N13 | 51.4 | 298 37.3 N12 | 44.4 | 265 09.8 S | 0 55.6 | 117 53.9 S12 | 41.4 | Gacrux | 172 17.5 | S57 | 05.0 | | | | |
| | 13 | 105 43.4 | 61 32.0 | 52.1 | 313 38.4 | 43.9 | 280 12.1 | 55.7 | 132 56.4 | 41.4 | Gienah | 176 07.7 | S17 | 30.6 | | | | |
| | 14 | 120 45.8 | 76 32.0 | 52.8 | 328 39.5 | 43.3 | 295 14.4 | 55.8 | 147 59.0 | 41.4 | Hadar | 149 08.8 | S60 | 20.8 | | | | |
| | 15 | 135 48.3 | 91 31.9 | 53.5 | 343 40.6 | 42.8 | 310 16.7 | 55.9 | 163 01.5 | 41.4 | Hamal | 328 17.8 | N23 | 25.9 | | | | |
| | 16 | 150 50.7 | 106 31.8 | 54.3 | 358 41.7 | 42.3 | 325 19.1 | 55.9 | 178 04.0 | 41.5 | Kaus Aust. | 84 03.2 | S34 | 23.2 | | | | |
| | 17 | 165 53.2 | 121 31.8 | 55.0 | 13 42.8 | 41.7 | 340 21.4 | 56.0 | 193 06.5 | 41.5 | | | | | | | | |
| | 18 | 180 55.7 | 136 31.7 N13 | 55.7 | 28 43.9 N12 | 41.2 | 355 23.7 S | 0 56.1 | 208 09.0 S12 | 41.5 | Kochab | 137 18.5 | N74 | 11.1 | | | | |
| | 19 | 195 58.1 | 151 31.6 | 56.4 | 43 45.0 | 40.7 | 10 26.0 | 56.1 | 223 11.5 | 41.5 | Markab | 13 53.1 | N15 | 10.2 | | | | |
| | 20 | 211 00.6 | 166 31.5 | 57.1 | 58 46.0 | 40.1 | 25 28.4 | 56.2 | 238 14.0 | 41.6 | Menkar | 314 30.9 | N 4 | 03.9 | | | | |
| | 21 | 226 03.1 | 181 31.5 | 57.8 | 73 47.1 | 39.6 | 40 30.7 | 56.3 | 253 16.5 | 41.6 | Menkent | 148 25.0 | S36 | 20.5 | | | | |
| | 22 | 241 05.5 | 196 31.4 | 58.5 | 88 48.2 | 39.1 | 55 33.0 | 56.4 | 268 19.0 | 41.6 | Miaplacidus | 221 43.5 | S69 | 41.8 | | | | |
| 23 | 256 08.0 | 211 31.3 | 59.3 | 103 49.3 | 38.5 | 70 35.3 | 56.4 | 283 21.5 | 41.7 | | | | | | | | | |
| M I E R C O L E S | 23 00 | 271 10.5 | 226 31.2 N14 | 00.0 | 118 50.4 N12 | 38.0 | 85 37.6 S | 0 56.5 | 298 24.1 S12 | 41.7 | Mirfak | 309 02.2 | N49 | 50.2 | | | | |
| | 01 | 286 12.9 | 241 31.2 | 00.7 | 133 51.5 | 37.4 | 100 40.0 | 56.6 | 313 26.6 | 41.7 | Nunki | 76 16.4 | S26 | 18.2 | | | | |
| | 02 | 301 15.4 | 256 31.1 | 01.4 | 148 52.6 | 36.9 | 115 42.3 | 56.6 | 328 29.1 | 41.7 | Pecock | 53 42.1 | S56 | 45.1 | | | | |
| | 03 | 316 17.9 | 271 31.0 | 02.1 | 163 53.7 | 36.4 | 130 44.6 | 56.7 | 343 31.6 | 41.8 | Pollux | 243 46.3 | N28 | 02.5 | | | | |
| | 04 | 331 20.3 | 286 30.9 | 02.8 | 178 54.8 | 35.8 | 145 46.9 | 56.8 | 358 34.1 | 41.8 | Procyon | 245 15.6 | N 5 | 14.4 | | | | |
| | 05 | 346 22.8 | 301 30.9 | 03.5 | 193 55.9 | 35.3 | 160 49.3 | 56.9 | 13 36.6 | 41.8 | | | | | | | | |
| | 06 | 1 25.2 | 316 30.8 N14 | 04.2 | 208 57.0 N12 | 34.8 | 175 51.6 S | 0 56.9 | 28 39.1 S12 | 41.8 | Rasalhague | 96 20.0 | N12 | 33.9 | | | | |
| | 07 | 16 27.7 | 331 30.7 | 05.0 | 223 58.1 | 34.2 | 190 53.9 | 57.0 | 43 41.6 | 41.9 | Regulus | 207 59.5 | N11 | 59.9 | | | | |
| | 08 | 31 30.2 | 346 30.6 | 05.7 | 238 59.2 | 33.7 | 205 56.2 | 57.1 | 58 44.1 | 41.9 | Rigel | 281 26.7 | S 8 | 12.6 | | | | |
| | 09 | 46 32.6 | 1 30.5 | 06.4 | 254 00.3 | 33.1 | 220 58.5 | 57.2 | 73 46.7 | 41.9 | Rigil Kent. | 140 11.7 | S60 | 48.7 | | | | |
| | 10 | 61 35.1 | 16 30.4 | 07.1 | 269 01.4 | 32.6 | 236 00.9 | 57.2 | 88 49.2 | 41.9 | Sabik | 102 29.3 | S15 | 43.0 | | | | |
| | 11 | 76 37.6 | 31 30.4 | 07.8 | 284 02.5 | 32.1 | 251 03.2 | 57.3 | 103 51.7 | 42.0 | | | | | | | | |
| | 12 | 91 40.0 | 46 30.3 N14 | 08.5 | 299 03.6 N12 | 31.5 | 266 05.5 S | 0 57.4 | 118 54.2 S12 | 42.0 | Schedar | 349 57.7 | N56 | 29.9 | | | | |
| | 13 | 106 42.5 | 61 30.2 | 09.2 | 314 04.7 | 31.0 | 281 07.8 | 57.5 | 133 56.7 | 42.0 | Shaula | 96 41.8 | S37 | 06.0 | | | | |
| | 14 | 121 45.0 | 76 30.1 | 09.9 | 329 05.8 | 30.4 | 296 10.1 | 57.5 | 148 59.2 | 42.0 | Sirius | 258 47.2 | S16 | 42.5 | | | | |
| | 15 | 136 47.4 | 91 30.0 | 10.6 | 344 06.9 | 29.9 | 311 12.5 | 57.6 | 164 01.7 | 42.1 | Spica | 158 46.9 | S11 | 07.8 | | | | |
| | 16 | 151 49.9 | 106 29.9 | 11.4 | 359 08.0 | 29.4 | 326 14.8 | 57.7 | 179 04.2 | 42.1 | Suhail | 223 03.8 | S43 | 24.6 | | | | |
| | 17 | 166 52.3 | 121 29.8 | 12.1 | 14 09.0 | 28.8 | 341 17.1 | 57.7 | 194 06.8 | 42.1 | | | | | | | | |
| | 18 | 181 54.8 | 136 29.8 N14 | 12.8 | 29 10.1 N12 | 28.3 | 356 19.4 S | 0 57.8 | 209 09.3 S12 | 42.2 | V | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|----------|----------|----------|---------|-----------|-----------|------------|-----------|------------------|------------|-------|---------------------------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 21 | 22 | 23 | 24 | |
| | | | | | | | | | | | | h m | h m | h m | h m | h m |
| LUNES | 00 | 179 35.5 | N23 26.3 | 167 10.7 | 7.3 | N20 24.7 | 5.7 58.1 | N 72 | □ | □ | □ | □ | 03 11 | 05 58 | 08 13 | |
| | 01 | 194 35.4 | 26.3 | 181 37.0 | 7.4 | 20 19.0 | 5.8 58.2 | N 70 | □ | □ | □ | □ | 04 09 | 06 22 | 08 24 | |
| | 02 | 209 35.2 | 26.3 | 196 03.4 | 7.4 | 20 13.2 | 5.8 58.2 | 68 | □ | □ | □ | 02 40 | 04 42 | 06 40 | 08 33 | |
| | 03 | 224 35.1 | 26.3 | 210 29.8 | 7.4 | 20 07.4 | 6.1 58.2 | 66 | □ | □ | □ | 03 20 | 05 06 | 06 54 | 08 41 | |
| | 04 | 239 35.0 | 26.3 | 224 56.2 | 7.4 | 20 01.3 | 6.1 58.2 | 64 | /// | /// | 01 31 | 03 48 | 05 25 | 07 06 | 08 47 | |
| | 05 | 254 34.8 | 26.3 | 239 22.6 | 7.4 | 19 55.2 | 6.3 58.2 | 62 | /// | /// | 02 09 | 04 09 | 05 41 | 07 16 | 08 52 | |
| | 06 | 269 34.7 | N23 26.3 | 253 49.0 | 7.5 | N19 48.9 | 6.4 58.3 | 60 | /// | 00 49 | 02 36 | 04 27 | 05 54 | 07 25 | 08 57 | |
| | 07 | 284 34.6 | 26.3 | 268 15.5 | 7.5 | 19 42.5 | 6.5 58.3 | N 58 | /// | 01 41 | 02 56 | 04 41 | 06 04 | 07 32 | 09 01 | |
| | 08 | 299 34.4 | 26.3 | 282 42.0 | 7.5 | 19 36.0 | 6.6 58.3 | 56 | /// | 02 11 | 03 13 | 04 53 | 06 14 | 07 39 | 09 04 | |
| | 09 | 314 34.3 | 26.3 | 297 08.5 | 7.6 | 19 29.4 | 6.8 58.3 | 54 | 00 45 | 02 33 | 03 28 | 05 04 | 06 22 | 07 44 | 09 08 | |
| | 10 | 329 34.1 | 26.3 | 311 35.1 | 7.5 | 19 22.6 | 6.9 58.3 | 52 | 01 32 | 02 51 | 03 40 | 05 14 | 06 30 | 07 50 | 09 10 | |
| | 11 | 344 34.0 | 26.3 | 326 01.6 | 7.6 | 19 15.7 | 7.0 58.4 | 50 | 02 00 | 03 06 | 03 51 | 05 22 | 06 37 | 07 54 | 09 13 | |
| | 12 | 359 33.9 | N23 26.3 | 340 28.2 | 7.7 | N19 08.7 | 7.1 58.4 | 45 | 02 46 | 03 36 | 04 13 | 05 40 | 06 51 | 08 05 | 09 19 | |
| | 13 | 14 33.7 | 26.3 | 354 54.9 | 7.6 | 19 01.6 | 7.2 58.4 | N 40 | 03 17 | 03 59 | 04 31 | 05 55 | 07 03 | 08 13 | 09 24 | |
| | 14 | 29 33.6 | 26.3 | 9 21.5 | 7.7 | 18 54.4 | 7.4 58.4 | 35 | 03 40 | 04 17 | 04 47 | 06 07 | 07 13 | 08 20 | 09 28 | |
| | 15 | 44 33.5 | 26.3 | 23 48.2 | 7.7 | 18 47.0 | 7.5 58.4 | 30 | 03 59 | 04 32 | 05 00 | 06 18 | 07 22 | 08 27 | 09 31 | |
| | 16 | 59 33.3 | 26.3 | 38 14.9 | 7.8 | 18 39.5 | 7.6 58.5 | 20 | 04 28 | 04 57 | 05 22 | 06 37 | 07 37 | 08 38 | 09 38 | |
| | 17 | 74 33.2 | 26.3 | 52 41.7 | 7.8 | 18 31.9 | 7.7 58.5 | N 10 | 04 50 | 05 18 | 05 41 | 06 53 | 07 51 | 08 47 | 09 43 | |
| | 18 | 89 33.0 | N23 26.3 | 67 08.5 | 7.8 | N18 24.2 | 7.8 58.5 | 0 | 05 10 | 05 36 | 05 58 | 07 08 | 08 03 | 08 56 | 09 48 | |
| | 19 | 104 32.9 | 26.3 | 81 35.3 | 7.8 | 18 16.4 | 8.0 58.5 | S 10 | 05 27 | 05 53 | 06 16 | 07 23 | 08 15 | 09 05 | 09 53 | |
| | 20 | 119 32.8 | 26.3 | 96 02.1 | 7.9 | 18 08.4 | 8.0 58.5 | 20 | 05 43 | 06 10 | 06 34 | 07 39 | 08 28 | 09 15 | 09 59 | |
| | 21 | 134 32.6 | 26.3 | 110 29.0 | 7.9 | 18 00.4 | 8.2 58.6 | 30 | 05 59 | 06 29 | 06 56 | 07 57 | 08 43 | 09 26 | 10 05 | |
| | 22 | 149 32.5 | 26.3 | 124 55.9 | 8.0 | 17 52.2 | 8.3 58.6 | 35 | 06 08 | 06 40 | 07 08 | 08 08 | 08 52 | 09 32 | 10 08 | |
| 23 | 164 32.4 | 26.3 | 139 22.9 | 8.0 | 17 43.9 | 8.4 58.6 | 40 | 06 17 | 06 52 | 07 22 | 08 20 | 09 02 | 09 39 | 10 12 | | |
| MARTES | 00 | 179 32.2 | N23 26.3 | 153 49.9 | 8.0 | N17 35.5 | 8.5 58.6 | 45 | 06 28 | 07 05 | 07 39 | 08 35 | 09 13 | 09 47 | 10 17 | |
| | 01 | 194 32.1 | 26.2 | 168 16.9 | 8.0 | 17 27.0 | 8.6 58.6 | S 50 | 06 40 | 07 21 | 08 00 | 08 52 | 09 27 | 09 57 | 10 23 | |
| | 02 | 209 32.0 | 26.2 | 182 43.9 | 8.1 | 17 18.4 | 8.7 58.6 | 52 | 06 45 | 07 29 | 08 10 | 09 00 | 09 34 | 10 01 | 10 25 | |
| | 03 | 224 31.8 | 26.2 | 197 11.0 | 8.2 | 17 09.7 | 8.8 58.7 | 54 | 06 51 | 07 37 | 08 21 | 09 09 | 09 41 | 10 06 | 10 28 | |
| | 04 | 239 31.7 | 26.2 | 211 38.2 | 8.1 | 17 00.9 | 8.9 58.7 | 56 | 06 57 | 07 46 | 08 34 | 09 20 | 09 49 | 10 12 | 10 31 | |
| | 05 | 254 31.5 | 26.2 | 226 05.3 | 8.2 | 16 52.0 | 9.1 58.7 | 58 | 07 04 | 07 56 | 08 48 | 09 31 | 09 58 | 10 18 | 10 34 | |
| | 06 | 269 31.4 | N23 26.2 | 240 32.5 | 8.3 | N16 42.9 | 9.1 58.7 | S 60 | 07 11 | 08 08 | 09 06 | 09 45 | 10 08 | 10 25 | 10 38 | |
| | 07 | 284 31.3 | 26.2 | 254 59.8 | 8.3 | 16 33.8 | 9.3 58.7 | Lat. | Ocaso Sol | Crepúsculo Civil | Ocaso Luna | | | | | |
| | 08 | 299 31.1 | 26.1 | 269 27.1 | 8.3 | 16 24.5 | 9.3 58.7 | Naut. | 21 | 22 | 23 | 24 | | | | |
| | 09 | 314 31.0 | 26.1 | 283 54.4 | 8.4 | 16 15.2 | 9.5 58.8 | N 72 | □ | □ | □ | □ | { ⁰⁰ ₄₂ } | 23 23 | 23 04 | |
| | 10 | 329 30.9 | 26.1 | 298 21.8 | 8.4 | 16 05.7 | 9.5 58.8 | N 70 | □ | □ | □ | □ | 23 44 | 23 23 | 23 10 | 22 58 |
| | 11 | 344 30.7 | 26.1 | 312 49.2 | 8.4 | 15 56.2 | 9.6 58.8 | 68 | □ | □ | □ | □ | 23 09 | 23 04 | 22 59 | 22 54 |
| | 12 | 359 30.6 | N23 26.1 | 327 16.6 | 8.5 | N15 46.6 | 9.8 58.8 | 66 | □ | □ | □ | □ | 22 44 | 22 48 | 22 50 | 22 50 |
| | 13 | 14 30.5 | 26.1 | 341 44.1 | 8.5 | 15 36.8 | 9.8 58.8 | 64 | 22 33 | /// | /// | /// | 22 24 | 22 35 | 22 42 | 22 47 |
| | 14 | 29 30.3 | 26.0 | 356 11.6 | 8.6 | 15 27.0 | 10.0 58.8 | 62 | 21 54 | /// | /// | /// | 22 08 | 22 24 | 22 35 | 22 44 |
| | 15 | 44 30.2 | 26.0 | 10 39.2 | 8.6 | 15 17.0 | 10.0 58.9 | 60 | 21 28 | 23 14 | /// | /// | 21 55 | 22 14 | 22 29 | 22 42 |
| | 16 | 59 30.0 | 26.0 | 25 06.8 | 8.7 | 14 56.9 | 10.2 58.9 | N 58 | 21 07 | 22 23 | /// | /// | 21 43 | 22 06 | 22 24 | 22 40 |
| | 17 | 74 29.9 | 26.0 | 39 34.4 | 8.7 | 14 46.7 | 10.3 58.9 | 56 | 20 51 | 21 53 | /// | /// | 21 33 | 21 59 | 22 20 | 22 38 |
| | 18 | 89 29.8 | N23 25.9 | 54 02.1 | 8.7 | N14 46.7 | 10.4 58.9 | 54 | 20 36 | 21 31 | 23 18 | 21 24 | 21 52 | 22 15 | 22 36 | |
| | 19 | 104 29.6 | 25.9 | 68 29.8 | 8.8 | 14 36.4 | 10.4 58.9 | 52 | 20 24 | 21 13 | 22 31 | 21 16 | 21 46 | 22 12 | 22 34 | |
| | 20 | 119 29.5 | 25.9 | 82 57.6 | 8.8 | 14 26.0 | 10.5 58.9 | 50 | 20 13 | 20 58 | 22 03 | 21 08 | 21 41 | 22 08 | 22 33 | |
| | 21 | 134 29.4 | 25.9 | 97 25.4 | 8.9 | 14 15.5 | 10.6 58.9 | 45 | 19 50 | 20 28 | 21 18 | 20 53 | 21 29 | 22 01 | 22 30 | |
| | 22 | 149 29.2 | 25.8 | 111 53.3 | 8.8 | 14 04.9 | 10.6 58.9 | N 40 | 19 32 | 20 05 | 20 47 | 20 40 | 21 19 | 21 54 | 22 27 | |
| 23 | 164 29.1 | 25.8 | 126 21.1 | 9.0 | 13 54.3 | 10.7 59.0 | 35 | 19 17 | 19 47 | 20 24 | 20 29 | 21 11 | 21 49 | 22 24 | | |
| MIÉRCOLES | 00 | 179 29.0 | N23 25.8 | 140 49.1 | 8.9 | N13 43.6 | 10.9 59.0 | 30 | 19 04 | 19 32 | 20 05 | 20 19 | 21 03 | 21 44 | 22 22 | |
| | 01 | 194 28.8 | 25.8 | 155 17.0 | 9.1 | 13 32.7 | 10.9 59.0 | 20 | 18 42 | 19 07 | 19 36 | 20 03 | 20 51 | 21 36 | 22 19 | |
| | 02 | 209 28.7 | 25.7 | 169 45.1 | 9.0 | 13 21.8 | 11.0 59.0 | N 10 | 18 23 | 18 46 | 19 13 | 19 48 | 20 39 | 21 28 | 22 15 | |
| | 03 | 224 28.5 | 25.7 | 184 13.1 | 9.1 | 13 10.8 | 11.0 59.0 | 0 | 18 06 | 18 28 | 18 54 | 19 34 | 20 29 | 21 21 | 22 12 | |
| | 04 | 239 28.4 | 25.7 | 198 41.2 | 9.1 | 12 59.8 | 11.2 59.0 | S 10 | 17 48 | 18 11 | 18 37 | 19 20 | 20 18 | 21 14 | 22 09 | |
| | 05 | 254 28.3 | 25.6 | 213 09.3 | 9.2 | 12 48.6 | 11.2 59.0 | 20 | 17 30 | 17 54 | 18 21 | 19 06 | 20 06 | 21 06 | 22 06 | |
| | 06 | 269 28.1 | N23 25.6 | 227 37.5 | 9.2 | N12 37.4 | 11.3 59.0 | 30 | 17 08 | 17 35 | 18 05 | 18 48 | 19 53 | 20 58 | 22 02 | |
| | 07 | 284 28.0 | 25.6 | 242 05.7 | 9.3 | 12 26.1 | 11.4 59.1 | 35 | 16 56 | 17 24 | 17 56 | 18 38 | 19 45 | 20 53 | 22 00 | |
| | 08 | 299 27.9 | 25.5 | 256 34.0 | 9.2 | 12 14.7 | 11.4 59.1 | 40 | 16 42 | 17 12 | 17 46 | 18 27 | 19 36 | 20 47 | 21 57 | |
| | 09 | 314 27.7 | 25.5 | 271 02.2 | 9.4 | 12 03.3 | 11.5 59.1 | 45 | 16 25 | 16 59 | 17 36 | 18 13 | 19 26 | 20 40 | 21 54 | |
| | 10 | 329 27.6 | 25.5 | 285 30.6 | 9.3 | 11 51.8 | 11.6 59.1 | S 50 | 16 04 | 16 43 | 17 24 | 17 57 | 19 13 | 20 32 | 21 50 | |
| | 11 | 344 27.5 | 25.4 | 299 58.9 | 9.4 | 11 40.2 | 11.7 59.1 | 52 | 15 54 | 16 35 | 17 19 | 17 49 | 19 07 | 20 28 | 21 49 | |
| | 12 | 359 27.3 | N23 25.4 | 314 27.3 | 9.5 | N11 28.5 | 11.7 59.1 | 54 | 15 43 | 16 27 | 17 13 | 17 40 | 19 01 | 20 24 | 21 47 | |
| | 13 | 14 27.2 | 25.4 | 328 55.8 | 9.5 | 11 16.8 | 11.8 59.1 | 56 | 15 30 | 16 18 | 17 07 | 17 30 | 18 54 | 20 19 | 21 45 | |
| | 14 | 29 27.1 | 25.3 | 343 24.3 | 9.5 | 11 05.0 | 11.9 59.1 | 58 | 15 16 | 16 08 | 17 00 | 17 19 | 18 45 | 20 14 | 21 43 | |
| | 15 | 44 26.9 | 25.3 | 357 52.8 | 9.5 | 10 53.1 | 11.9 59.1 | S 60 | 14 58 | 15 56 | 16 53 | 17 06 | 18 36 | 20 08 | 21 40 | |
| | 16 | 59 26.8 | 25.2 | 12 21.3 | 9.6 | 10 41.2 | 12.0 59.1 | Día | SOL | | LUNA | | | | | |
| | 17 | 74 26.6 | 25.2 | 26 49.9 | 9.6 | 10 29.2 | 12.0 59.2 | E.T. (-) | Pas. Mer. | Pas. Mer. | Mer. Inf. | Edad. | Fase | | | |
| | 18 | 89 26.5 | N23 25.2 | 41 18.5 | 9.7 | N10 17.2 | 12.1 59.2 | 00 h | 12 h | Sup. | Inf. | d | | | | |
| | 19 | 104 26.4 | 25.1 | 55 47.2 | 9.7 | 10 05.1 | 12.2 59.2 | m s | m s | h m | h m | | | | | |
| | 20 | 119 26.2 | 25.1 | 70 15.9 | 9.7 | 9 52.9 | 12.3 59.2 | 01 38 | 01 44 | 12 02 | 13 21 | 00 53 | 01 | | | |
| | 21 | 134 26.1 | 25.0 | 84 44.6 | 9.8 | 9 40.6 | 12.2 59.2 | 01 51 | 01 57 | 12 02 | 14 16 | 01 49 | 02 | | | |
| | 22 | 149 26.0 | 25.0 | 99 13.4 | 9.8 | 9 28.4 | 12.4 59.2 | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.2 | | | MARTE +1.5 | | | JUPITER -2.0 | | | SATURNO +0.7 | | | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|----------|------|-----------|-----|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--|--|----------|-----------|--|--|--|--|--|--|--|--|--|--|--|--|-----|-----|-----|-----|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|-------|----------|-------|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | A.H.G. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24 00 | 272 09.6 | 226 29.2 | N14 17.0 | 119 16.7 | N12 25.0 | 86 33.3 | S 0 58.3 | 299 24.4 | S12 42.3 | Acamar | 315 29.9 | S40 19.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 287 12.1 | 241 29.1 | 17.7 | 134 17.8 | 24.5 | 101 35.6 | 58.3 | 314 26.9 | 42.3 | Achernar | 335 38.0 | S57 15.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | 302 14.5 | 256 29.0 | 18.4 | 149 18.9 | 24.0 | 116 38.0 | 58.4 | 329 29.4 | 42.4 | Acrux | 173 26.0 | S63 04.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | 317 17.0 | 271 28.9 | 19.2 | 164 20.0 | 23.4 | 131 40.3 | 58.5 | 344 31.9 | 42.4 | Adhara | 255 24.6 | S28 57.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | 332 19.5 | 286 28.8 | 19.9 | 179 21.1 | 22.9 | 146 42.6 | 58.6 | 359 34.4 | 42.4 | Aldebaran | 291 06.8 | N16 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 347 21.9 | 301 28.7 | 20.6 | 194 22.2 | 22.3 | 161 44.9 | 58.6 | 14 36.9 | 42.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 2, 24.4 | 316 28.6 | N14 21.3 | 209 23.3 | N12 21.8 | 176 47.2 | S 0 58.7 | 29 39.4 | S12 42.5 | Alioth | 166 33.6 | N55 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | 17 26.8 | 331 28.5 | 22.0 | 224 24.4 | 21.3 | 191 49.5 | 58.8 | 44 42.0 | 42.5 | Alkaid | 153 10.4 | N49 20.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 08 | 32 29.3 | 346 28.4 | 22.7 | 239 25.5 | 20.7 | 206 51.8 | 58.9 | 59 44.5 | 42.5 | Al Na'ir | 28 02.1 | S46 59.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J 09 | 47 31.8 | 1 28.3 | 23.4 | 254 26.6 | 20.2 | 221 54.2 | 58.9 | 74 47.0 | 42.6 | Alnilam | 276 01.8 | S 1 12.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| U 10 | 62 34.2 | 16 28.2 | 24.1 | 269 27.7 | 19.6 | 236 56.5 | 59.0 | 89 49.5 | 42.6 | Alphard | 218 11.0 | S 8 38.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E 11 | 77 36.7 | 31 28.1 | 24.8 | 284 28.8 | 19.1 | 251 58.8 | 59.1 | 104 52.0 | 42.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V 12 | 92 39.2 | 46 28.0 | N14 25.5 | 299 29.8 | N12 18.5 | 267 01.1 | S 0 59.2 | 119 54.5 | S12 42.7 | Alphecca | 126 23.3 | N26 44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S 13 | 107 41.6 | 61 27.9 | 26.2 | 314 30.9 | 18.0 | 282 03.4 | 59.2 | 134 57.1 | 42.7 | Alpheratz | 357 59.0 | N29 03.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | 122 44.1 | 76 27.8 | 26.9 | 329 32.0 | 17.5 | 297 05.7 | 59.3 | 149 59.6 | 42.7 | Altair | 62 22.5 | N 8 51.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 137 46.6 | 91 27.7 | 27.6 | 344 33.1 | 16.9 | 312 08.0 | 59.4 | 165 02.1 | 42.7 | Ankaa | 353 30.4 | S42 20.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 152 49.0 | 106 27.6 | 28.3 | 359 34.2 | 16.4 | 327 10.4 | 59.5 | 180 04.6 | 42.8 | Antares | 112 44.2 | S26 25.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 167 51.5 | 121 27.5 | 29.0 | 14 35.3 | 15.8 | 342 12.7 | 59.6 | 195 07.1 | 42.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 182 54.0 | 136 27.4 | N14 29.8 | 29 36.4 | N12 15.3 | 357 15.0 | S 0 59.6 | 210 09.6 | S12 42.8 | Arcturus | 146 09.1 | N19 13.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 197 56.4 | 151 27.3 | 30.5 | 44 37.5 | 14.7 | 12 17.3 | 59.7 | 225 12.2 | 42.9 | Atria | 107 59.0 | S69 01.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 212 58.9 | 166 27.2 | 31.2 | 59 38.6 | 14.2 | 27 19.6 | 59.8 | 240 14.7 | 42.9 | Avior | 234 24.7 | S59 29.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 228 01.3 | 181 27.1 | 31.9 | 74 39.7 | 13.7 | 42 21.9 | 59.9 | 255 17.2 | 42.9 | Bellatrix | 278 48.3 | S 6 20.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 243 03.8 | 196 27.0 | 32.6 | 89 40.8 | 13.1 | 57 24.2 | 0 59.9 | 270 19.7 | 42.9 | Betelgeuse | 271 17.8 | N 7 24.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 258 06.3 | 211 26.9 | 33.3 | 104 41.9 | 12.6 | 72 26.5 | 1 00.0 | 285 22.2 | 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 00 | 273 08.7 | 226 26.8 | N14 34.0 | 119 43.0 | N12 12.0 | 87 28.8 | S 1 00.1 | 300 24.7 | S12 43.0 | Canopus | 264 03.3 | S52 41.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 288 11.2 | 241 26.7 | 34.7 | 134 44.1 | 11.5 | 102 31.2 | 00.2 | 315 27.3 | 43.0 | Capella | 280 57.0 | N45 59.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | 303 13.7 | 256 26.6 | 35.4 | 149 45.2 | 10.9 | 117 33.5 | 00.2 | 330 29.8 | 43.1 | Deneb | 49 41.3 | N45 15.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | 318 16.1 | 271 26.5 | 36.1 | 164 46.3 | 10.4 | 132 35.8 | 00.3 | 345 32.3 | 43.1 | Denebola | 182 48.9 | N14 36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | 333 18.6 | 286 26.3 | 36.8 | 179 47.4 | 09.8 | 147 38.1 | 00.4 | 0 34.8 | 43.1 | Diphda | 349 10.9 | S18 01.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 348 21.1 | 301 26.2 | 37.5 | 194 48.5 | 09.3 | 162 40.4 | 00.5 | 15 37.3 | 43.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 3 23.5 | 316 26.1 | N14 38.2 | 209 49.5 | N12 08.8 | 177 42.7 | S 1 00.6 | 30 39.9 | S12 43.2 | Dubhe | 194 10.1 | N61 47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | 18 26.0 | 331 26.0 | 38.9 | 224 50.6 | 08.2 | 192 45.0 | 00.6 | 45 42.4 | 43.2 | Elnath | 278 31.9 | N28 36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 08 | 33 28.4 | 346 25.9 | 39.6 | 239 51.7 | 07.7 | 207 47.3 | 00.7 | 60 44.9 | 43.2 | Eltanin | 90 52.5 | N51 29.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V 09 | 48 30.9 | 1 25.8 | 40.3 | 254 52.8 | 07.1 | 222 49.6 | 00.8 | 75 47.4 | 43.3 | Enif | 34 01.6 | N 9 50.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| I 10 | 63 33.4 | 16 25.7 | 41.0 | 269 53.9 | 06.6 | 237 51.9 | 00.9 | 90 49.9 | 43.3 | Fomalhaut | 15 40.2 | S29 39.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| R 11 | 78 35.8 | 31 25.5 | 41.7 | 284 55.0 | 06.0 | 252 54.2 | 00.9 | 105 52.5 | 43.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| N 12 | 93 38.3 | 46 25.4 | N14 42.4 | 299 56.1 | N12 05.5 | 267 56.5 | S 1 01.0 | 120 55.0 | S12 43.3 | Gacrux | 172 17.6 | S57 05.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E 13 | 108 40.8 | 61 25.3 | 43.1 | 314 57.2 | 04.9 | 282 58.9 | 01.1 | 135 57.5 | 43.4 | Gienah | 176 07.7 | S17 30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S 14 | 123 43.2 | 76 25.2 | 43.8 | 329 58.3 | 04.4 | 298 01.2 | 01.2 | 151 00.0 | 43.4 | Hadar | 149 08.8 | S60 20.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 138 45.7 | 91 25.1 | 44.5 | 344 59.4 | 03.8 | 313 03.5 | 01.3 | 166 02.5 | 43.4 | Hamal | 328 17.8 | N23 25.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 153 48.2 | 106 25.0 | 45.2 | 0 00.5 | 03.3 | 328 05.8 | 01.3 | 181 05.1 | 43.5 | Kaus Aust. | 84 03.2 | S34 23.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 168 50.6 | 121 24.8 | 45.9 | 15 01.6 | 02.8 | 343 08.1 | 01.4 | 196 07.6 | 43.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 183 53.1 | 136 24.7 | N14 46.6 | 30 02.7 | N12 02.2 | 358 10.4 | S 1 01.5 | 211 10.1 | S12 43.5 | Kochab | 137 18.6 | N74 11.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 198 55.6 | 151 24.6 | 47.3 | 45 03.8 | 01.7 | 13 12.7 | 01.6 | 226 12.6 | 43.6 | Markab | 13 53.1 | N15 10.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 213 58.0 | 166 24.5 | 48.0 | 60 04.9 | 01.1 | 28 15.0 | 01.7 | 241 15.1 | 43.6 | Menkar | 314 30.9 | N 4 03.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 229 00.5 | 181 24.3 | 48.7 | 75 05.9 | 00.6 | 43 17.3 | 01.7 | 256 17.7 | 43.6 | Menkent | 148 25.0 | S36 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 244 02.9 | 196 24.2 | 49.4 | 90 07.0 | 12 00.0 | 58 19.6 | 01.8 | 271 20.2 | 43.6 | Miaplacidus | 221 43.5 | S69 41.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 259 05.4 | 211 24.1 | 50.1 | 105 08.1 | 11 59.5 | 73 21.9 | 01.9 | 286 22.7 | 43.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 26 00 | 274 07.9 | 226 24.0 | N14 50.8 | 120 09.2 | N11 58.9 | 88 24.2 | S 1 02.0 | 301 25.2 | S12 43.7 | Mirfak | 309 02.2 | N49 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | 289 10.3 | 241 23.8 | 51.5 | 135 10.3 | 58.4 | 103 26.5 | 02.1 | 316 27.8 | 43.7 | Nunki | 76 16.4 | S26 18.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | 304 12.8 | 256 23.7 | 52.2 | 150 11.4 | 57.8 | 118 28.8 | 02.1 | 331 30.3 | 43.8 | Peacock | 53 42.1 | S56 45.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | 319 15.3 | 271 23.6 | 52.9 | 165 12.5 | 57.3 | 133 31.1 | 02.2 | 346 32.8 | 43.8 | Pollux | 243 46.3 | N28 02.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | 334 17.7 | 286 23.5 | 53.6 | 180 13.6 | 56.7 | 148 33.4 | 02.3 | 1 35.3 | 43.8 | Procyon | 245 15.6 | N 5 14.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | 349 20.2 | 301 23.3 | 54.3 | 195 14.7 | 56.2 | 163 35.7 | 02.4 | 16 37.8 | 43.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 06 | 4 22.7 | 316 23.2 | N14 55.0 | 210 15.8 | N11 55.6 | 178 38.0 | S 1 02.5 | 31 40.4 | S12 43.9 | Rasalhague | 96 20.0 | N12 33.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 07 | 19 25.1 | 331 23.1 | 55.7 | 225 16.9 | 55.1 | 193 40.3 | 02.5 | 46 42.9 | 43.9 | Regulus | 207 59.5 | N11 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 08 | 34 27.6 | 346 22.9 | 56.4 | 240 18.0 | 54.5 | 208 42.6 | 02.6 | 61 45.4 | 44.0 | Rigel | 281 26.7 | S 8 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S 09 | 49 30.1 | 1 22.8 | 57.1 | 255 19.1 | 54.0 | 223 44.9 | 02.7 | 76 47.9 | 44.0 | Rigil Kent. | 140 11.7 | S60 48.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 10 | 64 32.5 | 16 22.7 | 57.8 | 270 20.2 | 53.4 | 238 47.2 | 02.8 | 91 50.5 | 44.0 | Sabik | 102 29.3 | S15 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B 11 | 79 35.0 | 31 22.6 | 58.5 | 285 21.3 | 52.9 | 253 49.5 | 02.9 | 106 53.0 | 44.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A 12 | 94 37.4 | 46 22.4 | N14 59.2 | 300 22.3 | N11 52.3 | 268 51.9 | S 1 02.9 | 121 55.5 | S12 44.1 | Schedar | 349 57.7 | N56 29.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D 13 | 109 39.9 | 61 22.3 | 14 59.8 | 315 23.4 | 51.8 | 283 54.2 | 03.0 | 136 58.0 | 44.1 | Shaula | 96 41.8 | S37 06.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| O 14 | 124 42.4 | 76 22.2 | 15 00.5 | 330 24.5 | 51.2 | 298 56.5 | 03.1 | 152 00.6 | 44.1 | Sirius | 258 47.2 | S16 42.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | 139 44.8 | 91 22.0 | 01.2 | 345 25.6 | 50.7 | 313 58.8 | 03.2 | 167 03.1 | 44.2 | Spica | 158 46.9 | S11 07.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 154 47.3 | 106 21.9 | 01.9 | 0 26.7 | 50.1 | 329 01.1 | 03.3 | 182 05.6 | 44.2 | Suhail | 223 03.8 | S43 24.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 169 49.8 | 121 21.7 | 02.6 | 15 27.8 | 49.6 | 344 03.4 | 03.4 | 197 08.1 | 44.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 184 52.2 | 136 21.6 | N15 03.3 | 30 28.9 | N11 49.0 | 359 05.7 | S 1 03.4 | 212 10.7 | S12 44.3 | Vega | 80 48.6 | N38 46.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 199 54.7 | 151 21.5 | 04.0 | 45 30.0 | 48.5 | 14 08.0 | 03.5 | 227 13.2 | 44.3 | Zuben'ubi | 137 21.7 | S16 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20 | 214 57.2 | 166 21.3 | 04.7 | 60 31.1 | 47.9 | 29 10.3 | 03.6 | 242 15.7 | 44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 21 | 229 59.6 | 181 21.2 | 05.4 | 75 32.2 | 47.4 | 44 12.6 | 03.7 | 257 18.2 | 44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | 245 02.1 | 196 21.1 | 06.1 | 90 33.3 | 46.8 | 59 14.8 | 03.8 | 272 20.8 | 44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 260 04.5 | 211 20.9 | 06.8 | 105 34.4 | 46.3 | 74 17.1 | 03.8 | 287 23.3 | 44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">h m</td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td>Pas. Mer.</td> <td>5 46.5</td> <td>v -0.1</td> <td>d 0.7</td> <td>v 1.1</td> <td>d 0.5</td> <td>v 2.3</td> <td>d 0.1</td> <td>v 2.5</td> <td>d 0.0</td> <td colspan="2"></td> <td style="text-align: center;">A. H. S.</td> <td style="text-align: center;">Pas. Mer.</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">o /</td> <td style="text-align: center;">h m</td> <td style="text-align: center;">o /</td> <td style="text-align: center;">h m</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Venus</td> <td>313 18.1</td> <td>8 54</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Marte</td> <td>206 34.2</td> <td>16 00</td> <td></td></tr></table> | | | | | | | | | | | | | | | | | h m | | | | | | | | | | | | | | | Pas. Mer. | 5 46.5 | v -0.1 | d 0.7 | v 1.1 | d 0.5 | v 2.3 | d 0.1 | v 2.5 | d 0.0 | | | A. H. S. | Pas. Mer. | | | | | | | | | | | | | o / | h m | o / | h m | | | | | | | | | | | | | Venus | 313 18.1 | 8 54 | | | | | | | | | | | | | | Marte | 206 34.2 | 16 00 | |
| | h m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. | 5 46.5 | v -0.1 | d 0.7 | v 1.1 | d 0.5 | v 2.3 | d 0.1 | v 2.5 | d 0.0 | | | A. H. S. | Pas. Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | o / | h m | o / | h m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Venus | 313 18.1 | 8 54 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | Marte | 206 34.2 | 16 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|----------------|----------------------------|------|------|------|--------|------|---------------|------|------|------------|-------|----------|-----------|-------|-----------|------------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | v Dec. d P.H. | | | Naut. | Civil | | 24 | 25 | 26 | 27 | | | | | | |
| | o | ' | o | ' | o | ' | o | ' | | o | ' | h | m | h | m | h | m | h | m | | | |
| 24 | 00 | 179 | 25.7 | N27 | 24.9 | 128 | 11.0 | 9.9 | N | 9 | 03.6 | 12.4 | 59.2 | N 72 | □ | □ | □ | 08 13 | 10 20 | 12 26 | 14 36 | |
| | 01 | 194 | 25.6 | | 24.9 | 142 | 39.9 | 9.9 | | 8 | 51.2 | 12.6 | 59.2 | N 70 | □ | □ | □ | 08 24 | 10 22 | 12 19 | 14 19 | |
| | 02 | 209 | 25.4 | | 24.8 | 157 | 08.8 | 9.9 | | 8 | 38.6 | 12.5 | 59.2 | 68 | □ | □ | □ | 08 33 | 10 24 | 12 14 | 14 06 | |
| | 03 | 224 | 25.3 | | 24.8 | 171 | 37.7 | 10.0 | | 8 | 26.1 | 12.6 | 59.2 | 66 | □ | □ | □ | 08 41 | 10 25 | 12 10 | 13 55 | |
| | 04 | 239 | 25.2 | | 24.7 | 186 | 06.7 | 9.9 | | 8 | 13.5 | 12.7 | 59.2 | 64 | //// | //// | 01 33 | 08 47 | 10 27 | 12 06 | 13 46 | |
| | 05 | 254 | 25.0 | | 24.7 | 200 | 35.6 | 10.1 | | 8 | 00.8 | 12.7 | 59.3 | 62 | //// | //// | 02 11 | 08 52 | 10 28 | 12 03 | 13 39 | |
| | 06 | 269 | 24.9 | N23 | 24.6 | 215 | 04.7 | 10.0 | N | 7 | 48.1 | 12.7 | 59.3 | 60 | //// | 00 52 | 02 37 | 08 57 | 10 28 | 12 00 | 13 32 | |
| | 07 | 284 | 24.8 | | 24.6 | 229 | 33.7 | 10.1 | | 7 | 35.4 | 12.8 | 59.3 | N 58 | //// | 01 42 | 02 58 | 09 01 | 10 29 | 11 58 | 13 26 | |
| | 08 | 299 | 24.6 | | 24.5 | 244 | 02.8 | 10.1 | | 7 | 22.6 | 12.8 | 59.3 | 56 | //// | 02 12 | 03 14 | 09 04 | 10 30 | 11 55 | 13 21 | |
| | J U E V E S | 09 | 314 | 24.5 | | 24.5 | 258 | 31.9 | 10.1 | | 7 | 09.8 | 12.9 | 59.3 | 54 | 00 47 | 02 34 | 03 29 | 09 08 | 10 31 | 11 54 | 13 16 |
| | | 10 | 329 | 24.4 | | 24.4 | 273 | 01.0 | 10.2 | | 6 | 56.9 | 12.9 | 59.3 | 52 | 01 34 | 02 52 | 03 41 | 09 10 | 10 31 | 11 52 | 13 12 |
| | | 11 | 344 | 24.2 | | 24.4 | 287 | 30.2 | 10.1 | | 6 | 44.0 | 13.0 | 59.3 | 50 | 02 02 | 03 07 | 03 52 | 09 13 | 10 32 | 11 50 | 13 09 |
| | | 12 | 359 | 24.1 | N23 | 24.3 | 301 | 59.3 | 10.3 | N | 6 | 31.0 | 13.0 | 59.3 | 45 | 02 47 | 03 37 | 04 14 | 09 19 | 10 33 | 11 47 | 13 01 |
| | | 13 | 14 | 24.0 | | 24.3 | 316 | 28.6 | 10.2 | | 6 | 18.0 | 13.0 | 59.3 | N 40 | 03 18 | 03 59 | 04 32 | 09 24 | 10 34 | 11 44 | 12 54 |
| | | 14 | 29 | 23.8 | | 24.2 | 330 | 57.8 | 10.2 | | 6 | 05.0 | 13.1 | 59.3 | 35 | 03 41 | 04 18 | 04 47 | 09 28 | 10 35 | 11 41 | 12 48 |
| | | 15 | 44 | 23.7 | | 24.2 | 345 | 27.0 | 10.3 | | 5 | 51.9 | 13.1 | 59.3 | 30 | 04 00 | 04 33 | 05 00 | 09 31 | 10 35 | 11 39 | 12 43 |
| | | 16 | 59 | 23.6 | | 24.1 | 359 | 56.3 | 10.3 | | 5 | 38.8 | 13.1 | 59.3 | 20 | 04 29 | 04 58 | 05 22 | 09 38 | 10 37 | 11 35 | 12 35 |
| | | 17 | 74 | 23.4 | | 24.0 | 14 | 25.6 | 10.3 | | 5 | 25.7 | 13.2 | 59.3 | N 10 | 04 51 | 05 18 | 05 41 | 09 43 | 10 38 | 11 32 | 12 27 |
| | | 18 | 89 | 23.3 | N23 | 24.0 | 28 | 54.9 | 10.4 | N | 5 | 12.5 | 13.2 | 59.3 | 0 | 05 10 | 05 36 | 05 59 | 09 48 | 10 39 | 11 29 | 12 20 |
| | 19 | 104 | 23.2 | | 23.9 | 43 | 24.3 | 10.3 | | 4 | 59.3 | 13.2 | 59.3 | S 10 | 05 27 | 05 54 | 06 16 | 09 53 | 10 40 | 11 26 | 12 13 | |
| | 20 | 119 | 23.0 | | 23.9 | 57 | 53.6 | 10.4 | | 4 | 46.1 | 13.2 | 59.3 | 20 | 05 43 | 06 11 | 06 35 | 09 59 | 10 41 | 11 23 | 12 06 | |
| | 21 | 134 | 22.9 | | 23.8 | 72 | 23.0 | 10.4 | | 4 | 32.9 | 13.3 | 59.3 | 30 | 06 00 | 06 30 | 06 56 | 10 05 | 10 42 | 11 20 | 11 58 | |
| | 22 | 149 | 22.8 | | 23.7 | 86 | 52.4 | 10.4 | | 4 | 19.6 | 13.3 | 59.3 | 35 | 06 09 | 06 40 | 07 08 | 10 08 | 10 43 | 11 18 | 11 53 | |
| 23 | 164 | 22.6 | | 23.7 | 101 | 21.8 | 10.4 | | 4 | 06.3 | 13.3 | 59.3 | 40 | 06 18 | 06 52 | 07 23 | 10 12 | 10 44 | 11 15 | 11 48 | | |
| 25 | 00 | 179 | 22.5 | N23 | 23.6 | 115 | 51.2 | 10.5 | N | 3 | 53.0 | 13.4 | 59.3 | 45 | 06 28 | 07 06 | 07 39 | 10 17 | 10 45 | 11 13 | 11 42 | |
| | 01 | 194 | 22.3 | | 23.6 | 130 | 20.7 | 10.5 | | 3 | 39.6 | 13.3 | 59.3 | S 50 | 06 40 | 07 22 | 08 00 | 10 23 | 10 46 | 11 10 | 11 34 | |
| | 02 | 209 | 22.2 | | 23.5 | 144 | 50.2 | 10.4 | | 3 | 26.3 | 13.4 | 59.3 | 52 | 06 45 | 07 29 | 08 10 | 10 25 | 10 47 | 11 08 | 11 31 | |
| | 03 | 224 | 22.1 | | 23.4 | 159 | 19.6 | 10.5 | | 3 | 12.9 | 13.4 | 59.3 | 54 | 06 51 | 07 37 | 08 21 | 10 28 | 10 48 | 11 07 | 11 27 | |
| | 04 | 239 | 21.9 | | 23.4 | 173 | 49.1 | 10.5 | | 2 | 59.5 | 13.4 | 59.4 | 56 | 06 57 | 07 46 | 08 34 | 10 31 | 10 48 | 11 05 | 11 23 | |
| | 05 | 254 | 21.8 | | 23.3 | 188 | 18.6 | 10.5 | | 2 | 46.1 | 13.5 | 59.4 | 58 | 07 04 | 07 57 | 08 48 | 10 34 | 10 49 | 11 03 | 11 19 | |
| | 06 | 269 | 21.7 | N23 | 23.2 | 202 | 48.1 | 10.6 | N | 2 | 32.6 | 13.4 | 59.4 | S 60 | 07 11 | 08 08 | 09 06 | 10 38 | 10 50 | 11 01 | 11 14 | |
| | 07 | 284 | 21.6 | | 23.2 | 217 | 17.7 | 10.5 | | 2 | 19.2 | 13.5 | 59.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | 24 | 25 | 26 | 27 |
| | 08 | 299 | 21.4 | | 23.1 | 231 | 47.2 | 10.5 | | 2 | 05.7 | 13.4 | 59.4 | N 72 | □ | □ | □ | 23 04 | 22 46 | 22 27 | 22 05 | |
| | 09 | 314 | 21.3 | | 23.0 | 246 | 16.7 | 10.6 | | 1 | 52.3 | 13.5 | 59.4 | N 70 | □ | □ | □ | 22 58 | 22 47 | 22 36 | 22 24 | |
| | 10 | 329 | 21.2 | | 23.0 | 260 | 46.3 | 10.5 | | 1 | 38.8 | 13.5 | 59.4 | 68 | □ | □ | □ | 22 54 | 22 49 | 22 44 | 22 39 | |
| | 11 | 344 | 21.0 | | 22.9 | 275 | 15.8 | 10.6 | | 1 | 25.3 | 13.5 | 59.4 | 66 | □ | □ | □ | 22 50 | 22 50 | 22 50 | 22 51 | |
| | 12 | 359 | 20.9 | N23 | 22.8 | 289 | 45.4 | 10.6 | N | 1 | 11.8 | 13.5 | 59.4 | 64 | 22 32 | /// | /// | 22 47 | 22 51 | 22 56 | 23 01 | |
| | 13 | 14 | 20.8 | | 22.7 | 304 | 15.0 | 10.6 | | 0 | 58.3 | 13.5 | 59.4 | 62 | 21 54 | /// | /// | 22 44 | 22 52 | 23 01 | 23 10 | |
| | 14 | 29 | 20.6 | | 22.7 | 318 | 44.6 | 10.5 | | 0 | 44.8 | 13.5 | 59.4 | 60 | 21 28 | 23 12 | /// | 22 42 | 22 53 | 23 05 | 23 18 | |
| | 15 | 44 | 20.5 | | 22.6 | 333 | 14.1 | 10.6 | | 0 | 31.3 | 13.6 | 59.4 | N 58 | 21 07 | 22 23 | /// | 22 40 | 22 54 | 23 08 | 23 25 | |
| | 16 | 59 | 20.4 | | 22.5 | 347 | 43.7 | 10.6 | | 0 | 17.7 | 13.5 | 59.4 | 56 | 20 51 | 21 53 | /// | 22 38 | 22 55 | 23 12 | 23 31 | |
| | 17 | 74 | 20.2 | | 22.5 | 2 | 13.3 | 10.6 | N | 0 | 04.2 | 13.5 | 59.4 | 54 | 20 36 | 21 31 | 23 17 | 22 36 | 22 55 | 23 15 | 23 36 | |
| | 18 | 89 | 20.1 | N23 | 22.4 | 16 | 42.9 | 10.6 | S | 0 | 09.3 | 13.5 | 59.4 | 52 | 20 24 | 21 13 | 22 31 | 22 34 | 22 56 | 23 17 | 23 41 | |
| | 19 | 104 | 20.0 | | 22.3 | 31 | 12.5 | 10.6 | | 0 | 22.8 | 13.5 | 59.4 | 50 | 20 13 | 20 58 | 22 03 | 22 33 | 22 56 | 23 20 | 23 45 | |
| | 20 | 119 | 19.8 | | 22.2 | 45 | 42.1 | 10.6 | | 0 | 36.3 | 13.5 | 59.4 | 45 | 19 51 | 20 28 | 21 18 | 22 30 | 22 57 | 23 25 | 23 55 | |
| | 21 | 134 | 19.7 | | 22.1 | 60 | 11.7 | 10.6 | | 0 | 49.8 | 13.5 | 59.4 | N 40 | 19 33 | 20 06 | 20 47 | 22 27 | 22 58 | 23 30 | 24 03 | |
| | 22 | 149 | 19.6 | | 22.1 | 74 | 41.3 | 10.5 | | 1 | 03.3 | 13.5 | 59.4 | 35 | 19 18 | 19 47 | 20 24 | 22 24 | 22 59 | 23 34 | 24 10 | |
| 23 | 164 | 19.4 | | 22.0 | 89 | 10.8 | 10.6 | | 1 | 16.8 | 13.5 | 59.4 | 30 | 19 05 | 19 32 | 20 06 | 22 22 | 23 00 | 23 37 | 24 16 | | |
| 26 | 00 | 179 | 19.3 | N23 | 21.9 | 103 | 40.4 | 10.6 | S | 1 | 30.3 | 13.5 | 59.4 | 20 | 18 43 | 19 07 | 19 37 | 22 19 | 23 01 | 23 43 | 24 27 | |
| | 01 | 194 | 19.2 | | 21.8 | 118 | 10.0 | 10.6 | | 1 | 43.8 | 13.5 | 59.4 | N 10 | 18 24 | 18 47 | 19 14 | 22 15 | 23 02 | 23 48 | 24 36 | |
| | 02 | 209 | 19.0 | | 21.8 | 132 | 39.6 | 10.5 | | 1 | 57.3 | 13.4 | 59.4 | 0 | 18 06 | 18 29 | 18 55 | 22 12 | 23 03 | 23 53 | 24 45 | |
| | 03 | 224 | 18.9 | | 21.7 | 147 | 09.1 | 10.6 | | 2 | 10.7 | 13.5 | 59.4 | S 10 | 17 49 | 18 12 | 18 38 | 22 09 | 23 04 | 23 58 | 24 54 | |
| | 04 | 239 | 18.8 | | 21.6 | 161 | 38.7 | 10.5 | | 2 | 24.2 | 13.4 | 59.4 | 20 | 17 30 | 17 54 | 18 22 | 22 06 | 23 05 | 24 04 | 00 04 | |
| | 05 | 254 | 18.6 | | 21.5 | 176 | 08.2 | 10.6 | | 2 | 37.6 | 13.4 | 59.4 | 30 | 17 09 | 17 36 | 18 05 | 22 02 | 23 06 | 24 10 | 00 10 | |
| | 06 | 269 | 18.5 | N23 | 21.4 | 190 | 37.8 | 10.5 | S | 2 | 51.0 | 13.4 | 59.4 | 35 | 16 57 | 17 25 | 17 57 | 22 00 | 23 06 | 24 13 | 00 13 | |
| | 07 | 284 | 18.4 | | 21.3 | 205 | 07.3 | 10.5 | | 3 | 04.4 | 13.4 | 59.4 | 40 | 16 43 | 17 13 | 17 47 | 21 57 | 23 07 | 24 17 | 00 17 | |
| | 08 | 299 | 18.2 | | 21.3 | 219 | 36.8 | 10.5 | | 3 | 17.8 | 13.4 | 59.3 | 45 | 16 26 | 17 00 | 17 37 | 21 54 | 23 08 | 24 22 | 00 22 | |
| | 09 | 314 | 18.1 | | 21.2 | 234 | 06.3 | 10.5 | | 3 | 31.2 | 13.3 | 59.3 | S 50 | 16 05 | 16 44 | 17 25 | 21 50 | 23 09 | 24 27 | 00 27 | |
| | 10 | 329 | 18.0 | | 21.1 | 248 | 35.8 | 10.5 | | 3 | 44.5 | 13.3 | 59.3 | 52 | 15 55 | 16 36 | 17 20 | 21 49 | 23 09 | 24 30 | 00 30 | |
| | 11 | 344 | 17.9 | | 21.0 | 263 | 05.3 | 10.4 | | 3 | 57.8 | 13.3 | 59.3 | 54 | 15 44 | 16 28 | 17 14 | 21 47 | 23 10 | 24 33 | 00 33 | |
| | 12 | 359 | 17.7 | N23 | 20.9 | 277 | 34.7 | 10.5 | S | 4 | 11.1 | 13.3 | 59.3 | 56 | 15 32 | 16 19 | 17 08 | 21 45 | 23 10 | 24 36 | 00 36 | |
| | 13 | 14 | 17.6 | | 20.8 | 292 | 04.2 | 10.4 | | 4 | 24.4 | 13.2 | 59.3 | 58 | 15 17 | 16 09 | 17 01 | 21 43 | 23 11 | 24 39 | 00 39 | |
| | 14 | 29 | 17.5 | | 20.7 | 306 | 33.6 | 10.5 | | 4 | 37.6 | 13.2 | 59.3 | S 60 | 14 59 | 15 57 | 16 54 | 21 40 | 23 12 | 24 43 | 00 43 | |
| | 15 | 44 | 17.3 | | 20.6 | 321 | 03.1 | 10.4 | | 4 | 50.8 | 13.2 | 59.3 | Día | E.T. (-) | Pas. Mer. | Pas. Mer. | Pas. Mer. | Sup. | Inf. | Edad. | Fase |
| | 16 | 59 | 17.2 | | 20.5 | 335 | 32.5 | 10.3 | | 5 | 04.0 | 13.2 | 59.3 | 24 | 02 | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.2 | | MARTE +1.5 | | JUPITER -2.0 | | SATURNO +0.7 | | ESTRELLAS | | | |
|----------------|----------|----------|------------|----------|------------|----------|--------------|----------|--------------|-------------|-----------|----------|----------|------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| 27 00 | 275 07.0 | 226 20.8 | N15 07.5 | 120 35.5 | N11 45.7 | 89 19.4 | S 1 03.9 | 302 25.8 | S12 44.5 | Acamar | 315 29.9 | S40 19.6 | | |
| 01 | 290 09.5 | 241 20.6 | 08.2 | 135 36.6 | 45.2 | 104 21.7 | 04.0 | 317 28.3 | 44.5 | Achernar | 335 38.0 | S57 15.8 | | |
| 02 | 305 11.9 | 256 20.5 | 08.9 | 150 37.7 | 44.6 | 119 24.0 | 04.1 | 332 30.9 | 44.5 | Acrux | 173 26.0 | S63 04.2 | | |
| 03 | 320 14.4 | 271 20.3 | 09.5 | 165 38.7 | 44.1 | 134 26.3 | 04.2 | 347 33.4 | 44.5 | Adhara | 255 24.6 | S28 57.9 | | |
| 04 | 335 16.9 | 286 20.2 | 10.2 | 180 39.8 | 43.5 | 149 28.6 | 04.3 | 2 35.9 | 44.6 | Aldebaran | 291 06.8 | N16 29.8 | | |
| 05 | 350 19.3 | 301 20.1 | 10.9 | 195 40.9 | 43.0 | 164 30.9 | 04.3 | 17 38.4 | 44.6 | | | | | |
| 06 | 5 21.8 | 316 19.9 | N15 11.6 | 210 42.0 | N11 42.4 | 179 33.2 | S 1 04.4 | 32 41.0 | S12 44.6 | Alioth | 166 33.6 | N55 59.9 | | |
| 07 | 20 24.3 | 331 19.8 | 12.3 | 225 43.1 | 41.9 | 194 35.5 | 04.5 | 47 43.5 | 44.7 | Alkaid | 153 10.4 | N49 20.9 | | |
| 08 | 35 26.7 | 346 19.6 | 13.0 | 240 44.2 | 41.3 | 209 37.8 | 04.6 | 62 46.0 | 44.7 | Al Na'ir | 28 02.1 | S46 59.2 | | |
| 09 | 50 29.2 | 1 19.5 | 13.7 | 255 45.3 | 40.8 | 224 40.1 | 04.7 | 77 48.5 | 44.7 | Alnilam | 276 01.8 | S 1 12.4 | | |
| 10 | 65 31.7 | 16 19.3 | 14.4 | 270 46.4 | 40.2 | 239 42.4 | 04.8 | 92 51.1 | 44.8 | Alphard | 218 11.0 | S 8 38.0 | | |
| 11 | 80 34.1 | 31 19.2 | 15.1 | 285 47.5 | 39.7 | 254 44.7 | 04.8 | 107 53.6 | 44.8 | | | | | |
| 12 | 95 36.6 | 46 19.0 | N15 15.7 | 300 48.6 | N11 39.1 | 269 47.0 | S 1 04.9 | 122 56.1 | S12 44.8 | Alphecca | 126 23.3 | N26 44.3 | | |
| 13 | 110 39.0 | 61 18.9 | 16.4 | 315 49.7 | 38.6 | 284 49.3 | 05.0 | 137 58.7 | 44.9 | Alpheratz | 357 58.9 | N29 03.2 | | |
| 14 | 125 41.5 | 76 18.7 | 17.1 | 330 50.8 | 38.0 | 299 51.6 | 05.1 | 153 01.2 | 44.9 | Altair | 62 22.5 | N 8 51.2 | | |
| 15 | 140 44.0 | 91 18.6 | 17.8 | 345 51.9 | 37.5 | 314 53.9 | 05.2 | 168 03.7 | 44.9 | Ankaa | 353 30.4 | S42 20.1 | | |
| 16 | 155 46.4 | 106 18.4 | 18.5 | 0 52.9 | 36.9 | 329 56.2 | 05.3 | 183 06.2 | 45.0 | Antares | 112 44.2 | S26 25.1 | | |
| 17 | 170 48.9 | 121 18.3 | 19.2 | 15 54.0 | 36.4 | 344 58.5 | 05.3 | 198 08.8 | 45.0 | | | | | |
| 18 | 185 51.4 | 136 18.1 | N15 19.9 | 30 55.1 | N11 35.8 | 0 00.8 | S 1 05.4 | 213 11.3 | S12 45.0 | Arcturus | 146 09.2 | N19 13.0 | | |
| 19 | 200 53.8 | 151 18.0 | 20.6 | 45 56.2 | 35.3 | 15 03.1 | 05.5 | 228 13.8 | 45.1 | Atria | 107 59.0 | S69 01.1 | | |
| 20 | 215 56.3 | 166 17.8 | 21.2 | 60 57.3 | 34.7 | 30 05.4 | 05.6 | 243 16.4 | 45.1 | Avior | 234 24.7 | S59 29.6 | | |
| 21 | 230 58.8 | 181 17.7 | 21.9 | 75 58.4 | 34.1 | 45 07.7 | 05.7 | 258 18.9 | 45.1 | Bellatrix | 278 48.3 | N 6 20.6 | | |
| 22 | 246 01.2 | 196 17.5 | 22.6 | 90 59.5 | 33.6 | 60 09.9 | 05.8 | 273 21.4 | 45.2 | Betelgeuse | 271 17.8 | N 7 24.3 | | |
| 23 | 261 03.7 | 211 17.4 | 23.3 | 106 00.6 | 33.0 | 75 12.2 | 05.9 | 288 23.9 | 45.2 | | | | | |
| 28 00 | 276 06.2 | 226 17.2 | N15 24.0 | 121 01.7 | N11 32.5 | 90 14.5 | S 1 05.9 | 303 26.5 | S12 45.2 | Canopus | 264 03.3 | S52 41.6 | | |
| 01 | 291 08.6 | 241 17.0 | 24.7 | 136 02.8 | 31.9 | 105 16.8 | 06.0 | 318 29.0 | 45.3 | Capella | 280 57.0 | N45 59.4 | | |
| 02 | 306 11.1 | 256 16.9 | 25.3 | 151 03.9 | 31.4 | 120 19.1 | 06.1 | 333 31.5 | 45.3 | Deneb | 49 41.2 | N45 15.4 | | |
| 03 | 321 13.5 | 271 16.7 | 26.0 | 166 05.0 | 30.8 | 135 21.4 | 06.2 | 348 34.1 | 45.3 | Denebola | 182 48.9 | N14 36.5 | | |
| 04 | 336 16.0 | 286 16.6 | 26.7 | 181 06.1 | 30.3 | 150 23.7 | 06.3 | 3 36.6 | 45.4 | Diphda | 349 10.9 | S18 01.1 | | |
| 05 | 351 18.5 | 301 16.4 | 27.4 | 196 07.1 | 29.7 | 165 26.0 | 06.4 | 18 39.1 | 45.4 | | | | | |
| 06 | 6 20.9 | 316 16.2 | N15 28.1 | 211 08.2 | N11 29.2 | 180 28.3 | S 1 06.5 | 33 41.7 | S12 45.4 | Dubhe | 194 10.1 | N61 47.3 | | |
| 07 | 21 23.4 | 331 16.1 | 28.8 | 226 09.3 | 28.6 | 195 30.6 | 06.5 | 48 44.2 | 45.5 | Elnath | 278 31.9 | N28 36.1 | | |
| 08 | 36 25.9 | 346 15.9 | 29.4 | 241 10.4 | 28.0 | 210 32.9 | 06.6 | 63 46.7 | 45.5 | Eltanin | 90 52.5 | N51 29.5 | | |
| 09 | 51 28.3 | 1 15.8 | 30.1 | 256 11.5 | 27.5 | 225 35.1 | 06.7 | 78 49.2 | 45.5 | Enif | 34 01.5 | N 9 50.8 | | |
| 10 | 66 30.8 | 16 15.6 | 30.8 | 271 12.6 | 26.9 | 240 37.4 | 06.8 | 93 51.8 | 45.6 | Fomalhaut | 15 40.2 | S29 39.1 | | |
| 11 | 81 33.3 | 31 15.4 | 31.5 | 286 13.7 | 26.4 | 255 39.7 | 06.9 | 108 54.3 | 45.6 | | | | | |
| 12 | 96 35.7 | 46 15.3 | N15 32.2 | 301 14.8 | N11 25.8 | 270 42.0 | S 1 07.0 | 123 56.8 | S12 45.6 | Gacrux | 172 17.6 | S57 05.0 | | |
| 13 | 111 38.2 | 61 15.1 | 32.9 | 316 15.9 | 25.3 | 285 44.3 | 07.1 | 138 59.4 | 45.7 | Gienah | 176 07.7 | S17 30.5 | | |
| 14 | 126 40.6 | 76 14.9 | 33.5 | 331 17.0 | 24.7 | 300 46.6 | 07.1 | 154 01.9 | 45.7 | Hadar | 149 08.9 | S60 20.8 | | |
| 15 | 141 43.1 | 91 14.8 | 34.2 | 346 18.1 | 24.2 | 315 48.9 | 07.2 | 169 04.4 | 45.7 | Hamal | 328 17.8 | N23 25.9 | | |
| 16 | 156 45.6 | 106 14.6 | 34.9 | 1 19.2 | 23.6 | 330 51.2 | 07.3 | 184 07.0 | 45.8 | Kaus Aust. | 84 03.2 | S34 23.2 | | |
| 17 | 171 48.0 | 121 14.4 | 35.6 | 16 20.2 | 23.0 | 345 53.5 | 07.4 | 199 09.5 | 45.8 | | | | | |
| 18 | 186 50.5 | 136 14.3 | N15 36.3 | 31 21.3 | N11 22.5 | 0 55.7 | S 1 07.5 | 214 12.0 | S12 45.8 | Kochab' | 137 18.6 | N74 11.2 | | |
| 19 | 201 53.0 | 151 14.1 | 36.9 | 46 22.4 | 21.9 | 15 58.0 | 07.6 | 229 14.6 | 45.9 | Markab | 13 53.1 | N15 10.3 | | |
| 20 | 216 55.4 | 166 13.9 | 37.6 | 61 23.5 | 21.4 | 31 00.3 | 07.7 | 244 17.1 | 45.9 | Menkar | 314 30.9 | N 4 03.9 | | |
| 21 | 231 57.9 | 181 13.8 | 38.3 | 76 24.6 | 20.8 | 46 02.6 | 07.8 | 259 19.6 | 45.9 | Menkent | 148 25.0 | S36 20.5 | | |
| 22 | 247 00.4 | 196 13.6 | 39.0 | 91 25.7 | 20.3 | 61 04.9 | 07.8 | 274 22.2 | 46.0 | Miaplacidus | 221 43.5 | S69 41.7 | | |
| 23 | 262 02.8 | 211 13.4 | 39.6 | 106 26.8 | 19.7 | 76 07.2 | 07.9 | 289 24.7 | 46.0 | | | | | |
| 29 00 | 277 05.3 | 226 13.2 | N15 40.3 | 121 27.9 | N11 19.1 | 91 09.5 | S 1 08.0 | 304 27.2 | S12 46.0 | Mirfak | 309 02.1 | N49 50.2 | | |
| 01 | 292 07.8 | 241 13.1 | 41.0 | 136 29.0 | 18.6 | 106 11.8 | 08.1 | 319 29.8 | 46.1 | Nunki | 76 16.4 | S26 18.2 | | |
| 02 | 307 10.2 | 256 12.9 | 41.7 | 151 30.1 | 18.0 | 121 14.0 | 08.2 | 334 32.3 | 46.1 | Peacock | 53 42.1 | S56 45.1 | | |
| 03 | 322 12.7 | 271 12.7 | 42.4 | 166 31.2 | 17.5 | 136 16.3 | 08.3 | 349 34.8 | 46.1 | Pollux | 243 46.3 | N28 02.5 | | |
| 04 | 337 15.1 | 286 12.5 | 43.0 | 181 32.3 | 16.9 | 151 18.6 | 08.4 | 4 37.4 | 46.2 | Procyon | 245 15.6 | N 5 14.5 | | |
| 05 | 352 17.6 | 301 12.4 | 43.7 | 196 33.3 | 16.4 | 166 20.9 | 08.5 | 19 39.9 | 46.2 | | | | | |
| 06 | 7 20.1 | 316 12.2 | N15 44.4 | 211 34.4 | N11 15.8 | 181 23.2 | S 1 08.5 | 34 42.4 | S12 46.2 | Rasalhague | 96 20.0 | N12 33.9 | | |
| 07 | 22 22.5 | 331 12.0 | 45.1 | 226 35.5 | 15.2 | 196 25.5 | 08.6 | 49 45.0 | 46.3 | Regulus | 207 59.6 | N11 59.9 | | |
| 08 | 37 25.0 | 346 11.8 | 45.7 | 241 36.6 | 14.7 | 211 27.7 | 08.7 | 64 47.5 | 46.3 | Rigel | 281 26.7 | S 8 12.5 | | |
| 09 | 52 27.5 | 1 11.7 | 46.4 | 256 37.7 | 14.1 | 226 30.0 | 08.8 | 79 50.0 | 46.4 | Rigel Kent. | 140 11.7 | S60 48.8 | | |
| 10 | 67 29.9 | 16 11.5 | 47.1 | 271 38.8 | 13.6 | 241 32.3 | 08.9 | 94 52.6 | 46.4 | Sabik | 102 29.3 | S15 43.0 | | |
| 11 | 82 32.4 | 31 11.3 | 47.7 | 286 39.9 | 13.0 | 256 34.6 | 09.0 | 109 55.1 | 46.4 | | | | | |
| 12 | 97 34.9 | 46 11.1 | N15 48.4 | 301 41.0 | N11 12.4 | 271 36.9 | S 1 09.1 | 124 57.6 | S12 46.5 | Schedar | 349 57.6 | N56 29.9 | | |
| 13 | 112 37.3 | 61 10.9 | 49.1 | 316 42.1 | 11.9 | 286 39.2 | 09.2 | 140 00.2 | 46.5 | Shaula | 96 41.8 | S37 06.0 | | |
| 14 | 127 39.8 | 76 10.7 | 49.8 | 331 43.2 | 11.3 | 301 41.4 | 09.3 | 155 02.7 | 46.5 | Sirius | 258 47.2 | S16 42.5 | | |
| 15 | 142 42.3 | 91 10.6 | 50.4 | 346 44.3 | 10.8 | 316 43.7 | 09.3 | 170 05.2 | 46.6 | Spica | 158 46.9 | S11 07.8 | | |
| 16 | 157 44.7 | 106 10.4 | 51.1 | 1 45.4 | 10.2 | 331 46.0 | 09.4 | 185 07.8 | 46.6 | Suhail | 223 03.8 | S43 24.6 | | |
| 17 | 172 47.2 | 121 10.2 | 51.8 | 16 46.4 | 09.7 | 346 48.3 | 09.5 | 200 10.3 | 46.6 | | | | | |
| 18 | 187 49.6 | 136 10.0 | N15 52.5 | 31 47.5 | N11 09.1 | 1 50.6 | S 1 09.6 | 215 12.8 | S12 46.7 | Vega | 80 48.6 | N38 46.7 | | |
| 19 | 202 52.1 | 151 09.8 | 53.1 | 46 48.6 | 08.5 | 16 52.9 | 09.7 | 230 15.4 | 46.7 | Zuben'ubi | 137 21.7 | S16 01.0 | | |
| 20 | 217 54.6 | 166 09.6 | 53.8 | 61 49.7 | 08.0 | 31 55.1 | 09.8 | 245 17.9 | 46.7 | | | | | |
| 21 | 232 57.0 | 181 09.5 | 54.5 | 76 50.8 | 07.4 | 46 57.4 | 09.9 | 260 20.5 | 46.8 | | | | | |
| 22 | 247 59.5 | 196 09.3 | 55.1 | 91 51.9 | 06.9 | 61 59.7 | 10.0 | 275 23.0 | 46.8 | Venus | 310 11.0 | 8 55 | | |
| 23 | 263 02.0 | 211 09.1 | 55.8 | 106 53.0 | 06.3 | 77 02.0 | 10.1 | 290 25.5 | 46.8 | Marte | 204 55.5 | 15 55 | | |
| | | | </ | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lot. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|------------|------------|-----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 30 | 1 | 2 | 3 |
| | | | | | | | | | | | | | | | |
| M I E R C O L E S | 30 00 | 179 07.0 | N23 11.0 | 52 54.8 | 7.4 | S19 17.7 | 6.9 58.6 | N 72 | □ | □ | □ | ■ | ■ | ■ | ■ |
| | 01 | 194 06.9 | 10.9 | 67 21.2 | 7.3 | 19 24.6 | 6.7 58.6 | N 70 | □ | □ | □ | ■ | ■ | ■ | ■ |
| | 02 | 209 06.8 | 10.7 | 81 47.5 | 7.3 | 19 31.3 | 6.6 58.6 | 68 | □ | □ | □ | 20 15 | ■ | ■ | ■ |
| | 03 | 224 06.6 | 10.6 | 96 13.8 | 7.3 | 19 37.9 | 6.6 58.6 | 66 | /// | /// | 00 19 | 19 16 | 20 42 | 21 30 | 21 49 |
| | 04 | 239 06.5 | 10.4 | 110 40.1 | 7.2 | 19 44.5 | 6.3 58.6 | 64 | /// | /// | 01 41 | 18 42 | 19 59 | 20 51 | 21 20 |
| | 05 | 254 06.4 | 10.3 | 125 06.3 | 7.3 | 19 50.8 | 6.3 58.5 | 62 | /// | /// | 02 17 | 18 17 | 19 31 | 20 24 | 20 58 |
| | 06 | 269 06.3 | N23 10.1 | 139 32.6 | 7.1 | S19 57.1 | 6.1 58.5 | 60 | /// | 01 03 | 02 42 | 17 58 | 19 09 | 20 03 | 20 40 |
| | 07 | 284 06.1 | 10.0 | 153 58.7 | 7.2 | 20 03.2 | 6.0 58.5 | N 58 | /// | 01 48 | 03 02 | 17 41 | 18 51 | 19 45 | 20 25 |
| | 08 | 299 06.0 | 09.8 | 168 24.9 | 7.1 | 20 09.2 | 5.9 58.5 | 56 | /// | 02 17 | 03 18 | 17 28 | 18 36 | 19 31 | 20 12 |
| | 09 | 314 05.9 | 09.7 | 182 51.0 | 7.1 | 20 15.1 | 5.8 58.5 | 54 | 00 58 | 02 38 | 03 32 | 17 16 | 18 23 | 19 18 | 20 01 |
| | 10 | 329 05.8 | 09.5 | 197 17.1 | 7.1 | 20 20.9 | 5.6 58.5 | 52 | 01 40 | 02 56 | 03 44 | 17 06 | 18 12 | 19 07 | 19 51 |
| | 11 | 344 05.7 | 09.3 | 211 43.2 | 7.0 | 20 26.5 | 5.5 58.5 | 50 | 02 06 | 03 11 | 03 55 | 16 56 | 18 02 | 18 57 | 19 42 |
| | 12 | 359 05.5 | N23 09.2 | 226 09.2 | 7.0 | S20 32.0 | 5.3 58.4 | 45 | 02 51 | 03 40 | 04 17 | 16 37 | 17 40 | 18 36 | 19 23 |
| | 13 | 14 05.4 | 09.0 | 240 35.2 | 7.0 | 20 37.3 | 5.3 58.4 | N 40 | 03 21 | 04 02 | 04 35 | 16 21 | 17 23 | 18 19 | 19 08 |
| | 14 | 29 05.3 | 08.9 | 255 01.2 | 6.9 | 20 42.6 | 5.1 58.4 | 35 | 03 43 | 04 20 | 04 50 | 16 08 | 17 09 | 18 05 | 18 55 |
| | 15 | 44 05.2 | 08.7 | 269 27.1 | 7.0 | 20 47.7 | 5.0 58.4 | 30 | 04 02 | 04 35 | 05 02 | 15 56 | 16 57 | 17 53 | 18 44 |
| | 16 | 59 05.0 | 08.6 | 283 53.1 | 6.9 | 20 52.7 | 4.8 58.4 | 20 | 04 30 | 05 00 | 05 24 | 15 36 | 16 35 | 17 32 | 18 24 |
| | 17 | 74 04.9 | 08.4 | 298 19.0 | 6.9 | 20 57.5 | 4.7 58.4 | N 10 | 04 53 | 05 20 | 05 43 | 15 19 | 16 17 | 17 13 | 18 07 |
| | 18 | 89 04.8 | N23 08.2 | 312 44.9 | 6.8 | S21 02.2 | 4.6 58.3 | 0 | 05 12 | 05 38 | 06 00 | 15 03 | 16 00 | 16 56 | 17 51 |
| | 19 | 104 04.7 | 08.1 | 327 10.7 | 6.9 | 21 06.8 | 4.4 58.3 | S 10 | 05 28 | 05 55 | 06 17 | 14 47 | 15 43 | 16 39 | 17 35 |
| | 20 | 119 04.6 | 07.9 | 341 36.6 | 6.8 | 21 11.2 | 4.3 58.3 | 20 | 05 44 | 06 12 | 06 36 | 14 30 | 15 24 | 16 21 | 17 18 |
| | 21 | 134 04.4 | 07.8 | 356 02.4 | 6.9 | 21 15.5 | 4.2 58.3 | 30 | 06 00 | 06 30 | 06 57 | 14 11 | 15 03 | 16 00 | 16 59 |
| | 22 | 149 04.3 | 07.6 | 10 28.3 | 6.8 | 21 19.7 | 4.1 58.3 | 35 | 06 09 | 06 41 | 07 09 | 13 59 | 14 51 | 15 48 | 16 47 |
| 23 | 164 04.2 | 07.4 | 24 54.1 | 6.8 | 21 23.8 | 3.9 58.3 | 40 | 06 18 | 06 52 | 07 23 | 13 46 | 14 37 | 15 33 | 16 34 | |
| 1 | 179 04.1 | N23 07.3 | 39 19.9 | 6.7 | S21 27.7 | 3.7 58.2 | 45 | 06 28 | 07 05 | 07 39 | 13 31 | 14 20 | 15 17 | 16 18 | |
| 01 | 194 04.0 | 07.1 | 53 45.6 | 6.8 | 21 31.4 | 3.7 58.2 | S 50 | 06 40 | 07 21 | 07 59 | 13 12 | 14 00 | 14 56 | 15 59 | |
| 02 | 209 03.8 | 06.9 | 68 11.4 | 6.7 | 21 35.1 | 3.5 58.2 | 52 | 06 45 | 07 29 | 08 09 | 13 04 | 13 50 | 14 46 | 15 50 | |
| 03 | 224 03.7 | 06.8 | 82 37.1 | 6.8 | 21 38.6 | 3.3 58.2 | 54 | 06 51 | 07 37 | 08 20 | 12 54 | 13 39 | 14 35 | 15 40 | |
| 04 | 239 03.6 | 06.6 | 97 02.9 | 6.7 | 21 41.9 | 3.3 58.2 | 56 | 06 57 | 07 45 | 08 32 | 12 43 | 13 27 | 14 22 | 15 28 | |
| 05 | 254 03.5 | 06.4 | 111 28.6 | 6.8 | 21 45.2 | 3.1 58.1 | 58 | 07 03 | 07 55 | 08 47 | 12 30 | 13 12 | 14 07 | 15 15 | |
| 06 | 269 03.4 | N23 06.3 | 125 54.4 | 6.7 | S21 48.3 | 2.9 58.1 | S 60 | 07 10 | 08 07 | 09 04 | 12 16 | 12 55 | 13 50 | 14 59 | |
| 07 | 284 03.2 | 06.1 | 140 20.1 | 6.7 | 21 51.2 | 2.8 58.1 | | | | | | | | | |
| 08 | 299 03.1 | 05.9 | 154 45.8 | 6.7 | 21 54.0 | 2.7 58.1 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 09 | 314 03.0 | 05.8 | 169 11.5 | 6.7 | 21 56.7 | 2.6 58.1 | | | Civil | Naut. | 30 | 1 | 2 | 3 | |
| 10 | 329 02.9 | 05.6 | 183 37.2 | 6.8 | 21 59.3 | 2.4 58.1 | | | | | | | | | |
| 11 | 344 02.8 | 05.4 | 198 03.0 | 6.7 | 22 01.7 | 2.2 58.0 | | | | | | | | | |
| 12 | 359 02.6 | N23 05.3 | 212 28.7 | 6.7 | S22 03.9 | 2.2 58.0 | | | | | | | | | |
| 13 | 14 02.5 | 05.1 | 226 54.4 | 6.7 | 22 06.1 | 2.0 58.0 | N 72 | h m | h m | h m | h m | h m | h m | h m | |
| 14 | 29 02.4 | 04.9 | 241 20.1 | 6.7 | 22 08.1 | 1.8 58.0 | N 70 | □ | □ | □ | ■ | ■ | ■ | ■ | |
| 15 | 44 02.3 | 04.7 | 255 45.8 | 6.8 | 22 09.9 | 1.7 58.0 | 68 | □ | □ | □ | 22 11 | ■ | ■ | ■ | |
| 16 | 59 02.2 | 04.6 | 270 11.6 | 6.7 | 22 11.6 | 1.6 57.9 | 66 | 23 40 | /// | /// | 23 11 | 23 44 | 24 53 | 00 53 | |
| 17 | 74 02.0 | 04.4 | 284 37.3 | 6.8 | 22 13.2 | 1.5 57.9 | 64 | 22 25 | /// | /// | 23 45 | 24 26 | 00 26 | 01 32 | |
| 18 | 89 01.9 | N23 04.2 | 299 03.1 | 6.7 | S22 14.7 | 1.3 57.9 | 62 | 21 50 | /// | /// | 24 10 | 00 10 | 00 55 | 01 59 | |
| 19 | 104 01.8 | 04.0 | 313 28.8 | 6.8 | 22 16.0 | 1.1 57.9 | 60 | 21 25 | 23 03 | /// | 24 30 | 00 30 | 01 17 | 02 20 | |
| 20 | 119 01.7 | 03.9 | 327 54.6 | 6.8 | 22 17.1 | 1.1 57.9 | N 58 | 21 05 | 22 13 | /// | 00 11 | 00 47 | 01 35 | 02 37 | |
| 21 | 134 01.6 | 03.7 | 342 20.4 | 6.8 | 22 18.2 | 0.8 57.8 | 56 | 20 49 | 21 50 | /// | 00 22 | 01 01 | 01 50 | 02 51 | |
| 22 | 149 01.5 | 03.5 | 356 46.2 | 6.8 | 22 19.0 | 0.8 57.8 | 54 | 20 35 | 21 29 | 23 08 | 00 33 | 01 13 | 02 03 | 03 04 | |
| 23 | 164 01.3 | 03.3 | 11 12.0 | 6.8 | 22 19.8 | 0.6 57.8 | 52 | 20 23 | 21 11 | 22 27 | 00 42 | 01 23 | 02 14 | 03 15 | |
| 2 | 179 01.2 | N23 03.1 | 25 37.8 | 6.9 | S22 20.4 | 0.5 57.8 | 50 | 20 12 | 20 57 | 22 01 | 00 50 | 01 33 | 02 25 | 03 25 | |
| 01 | 194 01.1 | 02.9 | 40 03.7 | 6.9 | 22 20.9 | 0.3 57.8 | 45 | 19 50 | 20 28 | 21 17 | 01 07 | 01 53 | 02 46 | 03 45 | |
| 02 | 209 01.0 | 02.8 | 54 29.6 | 6.9 | 22 21.2 | 0.2 57.7 | N 40 | 19 33 | 20 05 | 20 47 | 01 22 | 02 09 | 03 03 | 04 02 | |
| 03 | 224 00.9 | 02.6 | 68 55.5 | 6.9 | 22 21.4 | 0.1 57.7 | 35 | 19 18 | 19 47 | 20 24 | 01 34 | 02 23 | 03 17 | 04 16 | |
| 04 | 239 00.7 | 02.4 | 83 21.4 | 6.9 | 22 21.5 | 0.1 57.7 | 30 | 19 05 | 19 32 | 20 06 | 01 44 | 02 35 | 03 30 | 04 28 | |
| 05 | 254 00.6 | 02.2 | 97 47.3 | 7.0 | 22 21.4 | 0.2 57.7 | 20 | 18 43 | 19 08 | 19 37 | 02 03 | 02 56 | 03 51 | 04 48 | |
| 06 | 269 00.5 | N23 02.0 | 112 13.3 | 7.0 | S22 21.2 | 0.3 57.7 | N 10 | 18 25 | 18 48 | 19 15 | 02 19 | 03 13 | 04 10 | 05 06 | |
| 07 | 284 00.4 | 01.8 | 126 39.3 | 7.0 | 22 20.9 | 0.5 57.6 | 0 | 18 07 | 18 30 | 18 56 | 02 33 | 03 30 | 04 27 | 05 23 | |
| 08 | 299 00.3 | 01.7 | 141 05.3 | 7.0 | 22 20.4 | 0.6 57.6 | S 10 | 17 50 | 18 13 | 18 39 | 02 48 | 03 47 | 04 44 | 05 40 | |
| 09 | 314 00.2 | 01.5 | 155 31.3 | 7.1 | 22 19.8 | 0.8 57.6 | 20 | 17 32 | 17 56 | 18 23 | 03 04 | 04 05 | 05 03 | 05 57 | |
| 10 | 329 00.0 | 01.3 | 169 57.4 | 7.1 | 22 19.0 | 0.8 57.6 | 30 | 17 11 | 17 38 | 18 07 | 03 23 | 04 25 | 05 24 | 06 18 | |
| 11 | 343 59.9 | 01.1 | 184 23.5 | 7.2 | 22 18.2 | 1.1 57.6 | 35 | 16 59 | 17 27 | 17 59 | 03 34 | 04 37 | 05 36 | 06 30 | |
| 12 | 358 59.8 | N23 00.9 | 198 49.7 | 7.2 | S22 17.1 | 1.1 57.5 | 40 | 16 45 | 17 16 | 17 50 | 03 46 | 04 51 | 05 51 | 06 43 | |
| 13 | 13 59.7 | 00.7 | 213 15.9 | 7.2 | 22 16.0 | 1.3 57.5 | 45 | 16 29 | 17 02 | 17 39 | 04 01 | 05 08 | 06 08 | 06 59 | |
| 14 | 28 59.6 | 00.5 | 227 42.1 | 7.2 | 22 14.7 | 1.4 57.5 | S 50 | 16 08 | 16 47 | 17 28 | 04 18 | 05 28 | 06 29 | 07 19 | |
| 15 | 43 59.5 | 00.3 | 242 08.3 | 7.3 | 22 13.3 | 1.6 57.5 | 52 | 15 59 | 16 39 | 17 23 | 04 27 | 05 37 | 06 38 | 07 28 | |
| 16 | 58 59.3 | 00.1 | 256 34.6 | 7.4 | 22 11.7 | 1.6 57.5 | 54 | 15 48 | 16 31 | 17 17 | 04 36 | 05 48 | 06 50 | 07 39 | |
| 17 | 73 59.2 | 00.0 | 271 01.0 | 7.3 | 22 10.1 | 1.8 57.4 | 56 | 15 35 | 16 22 | 17 11 | 04 47 | 05 48 | 06 50 | 07 39 | |
| 18 | 88 59.1 | N22 59.8 | 285 27.3 | 7.5 | S22 08.3 | 2.0 57.4 | 58 | 15 21 | 16 12 | 17 05 | 04 59 | 06 15 | 07 17 | 08 04 | |
| 19 | 103 59.0 | 59.6 | 299 53.8 | 7.4 | 22 06.3 | 2.1 57.4 | S 60 | 15 04 | 16 01 | 16 57 | 05 14 | 06 32 | 07 35 | 08 20 | |
| 20 | 118 58.9 | 59.4 | 314 20.2 | 7.5 | 22 04.2 | 2.2 57.4 | | | | | | | | | |
| 21 | 133 58.8 | 59.2 | 328 46.7 | 7.6 | 22 02.0 | 2.3 57.3 | Día | SOL | | LUNA | | | | | |
| 22 | 148 58.6 | 59.0 | 343 13.3 | 7.6 | 21 59.7 | 2.4 57.3 | | E.T. (-) | Pas. Mer. | Pas. Mer. | | Edad. | Fase | | |
| 23 | 163 58.5 | 58.8 | 357 39.9 | 7.6 | 21 57.3 | 2.6 57.3 | 30 | 00 h | 12 h | Sup. | Inf. | d | | | |
| | S | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.1 | MARTE +1.6 | JUPITER -2.0 | SATURNO +0.6 | ESTRELLAS |
|------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------------------------|
| d h | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre A. H. S. Dec. |
| 3 00 | 281 01.8 | 225 53.5 N16 43.7 | 123 12.5 N10 25.0 | 94 47.8 S 1 16.9 | 308 31.1 S12 49.6 | Acamar 315 29.9 S40 19.6 |
| 01 | 296 04.3 | 240 53.3 44.4 | 138 13.6 24.5 | 109 50.1 17.0 | 323 33.6 49.6 | Achernar 335 37.9 S57 15.8 |
| 02 | 311 06.8 | 255 53.0 45.0 | 153 14.7 23.9 | 124 52.3 17.1 | 338 36.2 49.6 | Acrux 173 26.1 S63 04.2 |
| 03 | 326 09.2 | 270 52.8 45.7 | 168 15.8 23.3 | 139 54.6 17.2 | 353 38.7 49.7 | Adhara 255 24.6 S28 57.8 |
| 04 | 341 11.7 | 285 52.5 46.3 | 183 16.9 22.8 | 154 56.8 17.3 | 8 41.3 49.7 | Aldebaran 291 06.8 N16 29.8 |
| 05 | 356 14.2 | 300 52.3 46.9 | 198 17.9 22.2 | 169 59.1 17.4 | 23 43.8 49.8 | |
| 06 | 11 16.6 | 315 52.1 N16 47.6 | 213 19.0 N10 21.6 | 185 01.4 S 1 17.5 | 38 46.4 S12 49.8 | Alioth 166 33.7 N55 59.9 |
| 07 | 26 19.1 | 330 51.8 48.2 | 228 20.1 21.0 | 200 03.6 17.6 | 53 48.9 49.8 | Alkaid 153 10.4 N49 20.9 |
| 08 | 41 21.6 | 345 51.6 48.9 | 243 21.2 20.5 | 215 05.9 17.7 | 68 51.5 49.9 | Al Na'ir 28 02.0 S46 59.2 |
| S 09 | 56 24.0 | 0 51.3 49.5 | 258 22.3 19.9 | 230 08.2 17.8 | 83 54.0 49.9 | Alnilam 276 01.8 S 1 12.4 |
| A 10 | 71 26.5 | 15 51.1 50.1 | 273 23.4 19.3 | 245 10.4 17.9 | 98 56.6 49.9 | Alphard 218 11.0 S 8 37.9 |
| B 11 | 86 28.9 | 30 50.8 50.8 | 288 24.5 18.8 | 260 12.7 18.0 | 113 59.1 50.0 | |
| A 12 | 101 31.4 | 45 50.6 N16 51.4 | 303 25.6 N10 18.2 | 275 14.9 S 1 18.1 | 129 01.7 S12 50.0 | Alphecca 126 23.4 N26 44.3 |
| D 13 | 116 33.9 | 60 50.4 52.0 | 318 26.6 17.6 | 290 17.2 18.2 | 144 04.2 50.1 | Alpheratz 357 58.9 N29 03.3 |
| O 14 | 131 36.3 | 75 50.1 52.7 | 333 27.7 17.1 | 305 19.5 18.3 | 159 06.8 50.1 | Altair 62 22.4 N 8 51.2 |
| 15 | 146 38.8 | 90 49.9 53.3 | 348 28.8 16.5 | 320 21.7 18.4 | 174 09.3 50.1 | Ankaa 353 30.3 S42 20.1 |
| 16 | 161 41.3 | 105 49.6 54.0 | 3 29.9 15.9 | 335 24.0 18.5 | 189 11.9 50.2 | Antares 112 44.2 S26 25.1 |
| 17 | 176 43.7 | 120 49.4 54.6 | 18 31.0 15.3 | 350 26.2 18.6 | 204 14.4 50.2 | |
| 18 | 191 46.2 | 135 49.1 N16 55.2 | 33 32.1 N10 14.8 | 5 28.5 S 1 18.7 | 219 17.0 S12 50.3 | Arcturus 146 09.2 N19 13.0 |
| 19 | 206 48.7 | 150 48.9 55.9 | 48 33.2 14.2 | 20 30.8 18.8 | 234 19.5 50.3 | Atria 107 59.0 S69 01.1 |
| 20 | 221 51.1 | 165 48.6 56.5 | 63 34.3 13.6 | 35 33.0 18.9 | 249 22.1 50.3 | Avior 234 24.7 S59 29.5 |
| 21 | 236 53.6 | 180 48.4 57.1 | 78 35.3 13.1 | 50 35.3 19.0 | 264 24.6 50.4 | Bellatrix 278 48.3 N 6 20.6 |
| 22 | 251 56.1 | 195 48.1 57.8 | 93 36.4 12.5 | 65 37.5 19.1 | 279 27.2 50.4 | Betelgeuse 271 17.8 N 7 24.3 |
| 23 | 266 58.5 | 210 47.9 58.4 | 108 37.5 11.9 | 80 39.8 19.2 | 294 29.7 50.5 | |
| 4 00 | 282 01.0 | 225 47.6 N16 59.0 | 123 38.6 N10 11.3 | 95 42.0 S 1 19.3 | 309 32.3 S12 50.5 | Canopus 264 03.3 S52 41.5 |
| 01 | 297 03.4 | 240 47.4 16 59.7 | 138 39.7 10.8 | 110 44.3 19.4 | 324 34.8 50.5 | Capella 280 56.9 N45 59.4 |
| 02 | 312 05.9 | 255 47.1 17 00.3 | 153 40.8 10.2 | 125 46.6 19.5 | 339 37.4 50.6 | Deneb 49 41.2 N45 15.4 |
| 03 | 327 08.4 | 270 46.9 00.9 | 168 41.9 09.6 | 140 48.8 19.6 | 354 39.9 50.6 | Denebola 182 48.9 N14 36.5 |
| 04 | 342 10.8 | 285 46.6 01.6 | 183 43.0 09.0 | 155 51.1 19.7 | 9 42.5 50.7 | Diphda 349 10.8 S18 01.1 |
| 05 | 357 13.3 | 300 46.3 02.2 | 198 44.0 08.5 | 170 53.3 19.8 | 24 45.0 50.7 | |
| 06 | 12 15.8 | 315 46.1 N17 02.8 | 213 45.1 N10 07.9 | 185 55.6 S 1 19.9 | 39 47.6 S12 50.8 | Dubhe 194 10.1 N61 47.3 |
| 07 | 27 18.2 | 330 45.8 03.4 | 228 46.2 07.3 | 200 57.8 20.0 | 54 50.1 50.8 | Elnath 278 31.8 N28 36.1 |
| D 08 | 42 20.7 | 345 45.6 04.1 | 243 47.3 06.7 | 216 00.1 20.1 | 69 52.7 50.8 | Eltanin 90 52.5 N51 29.5 |
| O 09 | 57 23.2 | 0 45.3 04.7 | 258 48.4 06.2 | 231 02.4 20.2 | 84 55.2 50.9 | Enif 34 01.5 N 9 50.8 |
| M 10 | 72 25.6 | 15 45.1 05.3 | 273 49.5 05.6 | 246 04.6 20.3 | 99 57.8 50.9 | Fomalhaut 15 40.2 S29 39.1 |
| I 11 | 87 28.1 | 30 44.8 06.0 | 288 50.6 05.0 | 261 06.9 20.4 | 115 00.3 51.0 | |
| N 12 | 102 30.6 | 45 44.5 N17 06.6 | 303 51.7 N10 04.5 | 276 09.1 S 1 20.5 | 130 02.9 S12 51.0 | Gacrux 172 17.6 S57 05.0 |
| G 13 | 117 33.0 | 60 44.3 07.2 | 318 52.7 03.9 | 291 11.4 20.6 | 145 05.4 51.0 | Gienah 176 07.7 S17 30.5 |
| O 14 | 132 35.5 | 75 44.0 07.8 | 333 53.8 03.3 | 306 13.6 20.7 | 160 08.0 51.1 | Hadar 149 08.9 S60 20.8 |
| 15 | 147 37.9 | 90 43.7 08.5 | 348 54.9 02.7 | 321 15.9 20.8 | 175 10.5 51.1 | Hamal 328 17.7 N23 25.9 |
| 16 | 162 40.4 | 105 43.5 09.1 | 3 56.0 02.2 | 336 18.1 20.9 | 190 13.1 51.2 | Kaus Aust. 84 03.1 S34 23.2 |
| 17 | 177 42.9 | 120 43.2 09.7 | 18 57.1 01.6 | 351 20.4 21.0 | 205 15.7 51.2 | |
| 18 | 192 45.3 | 135 43.0 N17 10.3 | 33 58.2 N10 01.0 | 6 22.6 S 1 21.1 | 220 18.2 S12 51.2 | Kochab 137 18.7 N74 11.2 |
| 19 | 207 47.8 | 150 42.7 11.0 | 48 59.3 10 00.4 | 21 24.9 21.2 | 235 20.8 51.3 | Markab 13 53.0 N15 10.3 |
| 20 | 222 50.3 | 165 42.4 11.6 | 64 00.4 9 59.9 | 36 27.1 21.3 | 250 23.3 51.3 | Menkar 314 30.8 N 4 03.9 |
| 21 | 237 52.7 | 180 42.2 12.2 | 79 01.4 59.3 | 51 29.4 21.4 | 265 25.9 51.4 | Menkent 148 25.0 S36 20.5 |
| 22 | 252 55.2 | 195 41.9 12.8 | 94 02.5 58.7 | 66 31.7 21.5 | 280 28.4 51.4 | Miaplacidus 221 43.6 S69 41.7 |
| 23 | 267 57.7 | 210 41.6 13.4 | 109 03.6 58.1 | 81 33.9 21.6 | 295 31.0 51.4 | |
| 5 00 | 283 00.1 | 225 41.4 N17 14.1 | 124 04.7 N 9 57.6 | 96 36.2 S 1 21.7 | 310 33.5 S12 51.5 | Mirfak 309 02.1 N49 50.2 |
| 01 | 298 02.6 | 240 41.1 14.7 | 139 05.8 57.0 | 111 38.4 21.8 | 325 36.1 51.5 | Nunki 76 16.4 S26 18.2 |
| 02 | 313 05.0 | 255 40.8 15.3 | 154 06.9 56.4 | 126 40.7 21.9 | 340 38.6 51.6 | Peacock 53 42.0 S56 45.1 |
| 03 | 328 07.5 | 270 40.5 15.9 | 169 08.0 55.8 | 141 42.9 22.0 | 355 41.2 51.6 | Pollux 243 46.3 N28 02.5 |
| 04 | 343 10.0 | 285 40.3 16.6 | 184 09.1 55.3 | 156 45.2 22.1 | 10 43.8 51.7 | Procyon 245 15.6 N 5 14.5 |
| 05 | 358 12.4 | 300 40.0 17.2 | 199 10.1 54.7 | 171 47.4 22.2 | 25 46.3 51.7 | |
| 06 | 13 14.9 | 315 39.7 N17 17.8 | 214 11.2 N 9 54.1 | 186 49.7 S 1 22.3 | 40 48.9 S12 51.7 | Rasalhague 96 19.9 N12 34.0 |
| 07 | 28 17.4 | 330 39.5 18.4 | 229 12.3 53.5 | 201 51.9 22.4 | 55 51.4 51.8 | Regulus 207 59.6 N11 59.9 |
| 08 | 43 19.8 | 345 39.2 19.0 | 244 13.4 52.9 | 216 54.2 22.5 | 70 54.0 51.8 | Rigel 281 26.7 S 8 12.5 |
| L 09 | 58 22.3 | 0 38.9 19.6 | 259 14.5 52.4 | 231 56.4 22.6 | 85 56.5 51.9 | Rigel Kent. 140 11.8 S60 48.8 |
| U 10 | 73 24.8 | 15 38.6 20.3 | 274 15.6 51.8 | 246 58.7 22.7 | 100 59.1 51.9 | Sabik 102 29.3 S15 43.0 |
| N 11 | 88 27.2 | 30 38.4 20.9 | 289 16.7 51.2 | 262 00.9 22.8 | 116 01.6 51.9 | |
| E 12 | 103 29.7 | 45 38.1 N17 21.5 | 304 17.7 N 9 50.6 | 277 03.2 S 1 22.9 | 131 04.2 S12 52.0 | Schedar 349 57.6 N56 29.9 |
| S 13 | 118 32.2 | 60 37.8 22.1 | 319 18.8 50.1 | 292 05.4 23.0 | 146 06.8 52.0 | Shaula 96 41.7 S37 06.0 |
| 14 | 133 34.6 | 75 37.5 22.7 | 334 19.9 49.5 | 307 07.7 23.1 | 161 09.3 52.1 | Sirius 258 47.2 S16 42.5 |
| 15 | 148 37.1 | 90 37.3 23.3 | 349 21.0 48.9 | 322 09.9 23.2 | 176 11.9 52.1 | Spica 158 46.9 S11 07.8 |
| 16 | 163 39.5 | 105 37.0 23.9 | 4 22.1 48.3 | 337 12.2 23.3 | 191 14.4 52.2 | Suhail 223 03.8 S43 24.6 |
| 17 | 178 42.0 | 120 36.7 24.6 | 19 23.2 47.8 | 352 14.4 23.4 | 206 17.0 52.2 | |
| 18 | 193 44.5 | 135 36.4 N17 25.2 | 34 24.3 N 9 47.2 | 7 16.6 S 1 23.5 | 221 19.5 S12 52.2 | Vega 80 48.6 N38 46.8 |
| 19 | 208 46.9 | 150 36.1 25.8 | 49 25.4 46.6 | 22 18.9 23.6 | 236 22.1 52.3 | Zuben'ubi 137 21.7 S16 01.0 |
| 20 | 223 49.4 | 165 35.9 26.4 | 64 26.4 46.0 | 37 21.1 23.7 | 251 24.6 52.3 | |
| 21 | 238 51.9 | 180 35.6 27.0 | 79 27.5 45.4 | 52 23.4 23.8 | 266 27.2 52.4 | |
| 22 | 253 54.3 | 195 35.3 27.6 | 94 28.6 44.9 | 67 25.6 23.9 | 281 29.8 52.4 | Venus 303 46.6 h 8 57 |
| 23 | 268 56.8 | 210 35.0 28.2 | 109 29.7 44.3 | 82 27.9 24.0 | 296 32.3 52.5 | Marte 201 37.6 h 15 44 |
| | | | | | | Júpiter 173 41.1 h 17 35 |
| | | | | | | Saturno 27 31.3 h 3 21 |
| Pas. Mer. 5 11.1 | v -0.3 | d 0.6 | v 1.1 d 0.6 | v 2.3 d 0.1 | v 2.6 d 0.0 | |

| T.M.G. (TU) | ARIES | | | VENUS -4.1 | | | MARTE +1.6 | | | JUPITER -2.0 | | | SATURNO +0.6 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|------------|--------|------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 6 00 | 283 59.3 | 225 34.7 N17 | 28.8 | 124 30.8 N | 9 43.7 | 97 30.1 S | 1 24.1 | 311 34.9 S12 | 52.5 | Acamar | 315 29.8 S40 | 19.6 | | | | | | |
| 01 | 299 01.7 | 240 34.4 | 29.5 | 139 31.9 | 43.1 | 112 32.4 | 24.2 | 326 37.4 | 52.5 | Achernar | 335 37.9 S57 | 15.8 | | | | | | |
| 02 | 314 04.2 | 255 34.2 | 30.1 | 154 33.0 | 42.5 | 127 34.6 | 24.4 | 341 40.0 | 52.6 | Acrux | 173 26.1 S63 | 04.2 | | | | | | |
| 03 | 329 06.7 | 270 33.9 | 30.7 | 169 34.0 | 42.0 | 142 36.9 | 24.5 | 356 42.6 | 52.6 | Adhara | 255 24.6 S28 | 57.8 | | | | | | |
| 04 | 344 09.1 | 285 33.6 | 31.3 | 184 35.1 | 41.4 | 157 39.1 | 24.6 | 11 45.1 | 52.7 | Aldebaran | 291 06.8 N16 | 29.8 | | | | | | |
| 05 | 359 11.6 | 300 33.3 | 31.9 | 199 36.2 | 40.8 | 172 41.4 | 24.7 | 26 47.7 | 52.7 | | | | | | | | | |
| 06 | 14 14.0 | 315 33.0 N17 | 32.5 | 214 37.3 N | 9 40.2 | 187 43.6 S | 1 24.8 | 41 50.2 S12 | 52.8 | Alioth | 166 33.7 N55 | 59.9 | | | | | | |
| 07 | 29 16.5 | 330 32.7 | 33.1 | 229 38.4 | 39.6 | 202 45.8 | 24.9 | 56 52.8 | 52.8 | Alkaid | 153 10.5 N49 | 20.9 | | | | | | |
| 08 | 44 19.0 | 345 32.4 | 33.7 | 244 39.5 | 39.1 | 217 48.1 | 25.0 | 71 55.3 | 52.8 | Al Na'ir | 28 02.0 S46 | 59.2 | | | | | | |
| M 09 | 59 21.4 | 0 32.1 | 34.3 | 259 40.6 | 38.5 | 232 50.3 | 25.1 | 86 57.9 | 52.9 | Alnilam | 276 01.8 S | 1 12.4 | | | | | | |
| A 10 | 74 23.9 | 15 31.9 | 34.9 | 274 41.6 | 37.9 | 247 52.6 | 25.2 | 102 00.5 | 52.9 | Alphard | 218 11.0 S | 8 37.9 | | | | | | |
| R 11 | 89 26.4 | 30 31.6 | 35.5 | 289 42.7 | 37.3 | 262 54.8 | 25.3 | 117 03.0 | 53.0 | | | | | | | | | |
| T 12 | 104 28.8 | 45 31.3 N17 | 36.1 | 304 43.8 N | 9 36.8 | 277 57.1 S | 1 25.4 | 132 05.6 S12 | 53.0 | Alphecca | 126 23.4 N26 | 44.3 | | | | | | |
| E 13 | 119 31.3 | 60 31.0 | 36.7 | 319 44.9 | 36.2 | 292 59.3 | 25.5 | 147 08.1 | 53.1 | Alpheratz | 357 58.8 N29 | 03.3 | | | | | | |
| S 14 | 134 33.8 | 75 30.7 | 37.3 | 334 46.0 | 35.6 | 308 01.6 | 25.6 | 162 10.7 | 53.1 | Altair | 62 22.4 N | 8 51.2 | | | | | | |
| 15 | 149 36.2 | 90 30.4 | 37.9 | 349 47.1 | 35.0 | 323 03.8 | 25.7 | 177 13.3 | 53.1 | Ankaa | 353 30.3 S42 | 20.1 | | | | | | |
| 16 | 164 38.7 | 105 30.1 | 38.5 | 4 48.2 | 34.4 | 338 06.0 | 25.8 | 192 15.8 | 53.2 | Antares | 112 44.2 S26 | 25.1 | | | | | | |
| 17 | 179 41.2 | 120 29.8 | 39.1 | 19 49.3 | 33.8 | 353 08.3 | 25.9 | 207 18.4 | 53.2 | | | | | | | | | |
| 18 | 194 43.6 | 135 29.5 N17 | 39.7 | 34 50.3 N | 9 33.3 | 8 10.5 S | 1 26.0 | 222 20.9 S12 | 53.3 | Arcturus | 146 09.2 N19 | 13.0 | | | | | | |
| 19 | 209 46.1 | 150 29.2 | 40.3 | 49 51.4 | 32.7 | 23 12.8 | 26.1 | 237 23.5 | 53.3 | Atria | 107 59.0 S69 | 01.1 | | | | | | |
| 20 | 224 48.5 | 165 28.9 | 40.9 | 64 52.5 | 32.1 | 38 15.0 | 26.2 | 252 26.1 | 53.4 | Avior | 234 24.7 S59 | 29.5 | | | | | | |
| 21 | 239 51.0 | 180 28.6 | 41.5 | 79 53.6 | 31.5 | 53 17.2 | 26.4 | 267 28.6 | 53.4 | Bellatrix | 278 48.3 N | 6 20.6 | | | | | | |
| 22 | 254 53.5 | 195 28.3 | 42.1 | 94 54.7 | 30.9 | 68 19.5 | 26.5 | 282 31.2 | 53.4 | Betelgeuse | 271 17.7 N | 7 24.3 | | | | | | |
| 23 | 269 55.9 | 210 28.0 | 42.7 | 109 55.8 | 30.4 | 83 21.7 | 26.6 | 297 33.7 | 53.5 | | | | | | | | | |
| 7 00 | 284 58.4 | 225 27.7 N17 | 43.3 | 124 56.9 N | 9 29.8 | 98 24.0 S | 1 26.7 | 312 36.3 S12 | 53.5 | Canopus | 264 03.3 S52 | 41.5 | | | | | | |
| 01 | 300 00.9 | 240 27.4 | 43.9 | 139 57.9 | 29.2 | 113 26.2 | 26.8 | 327 38.9 | 53.6 | Capella | 280 56.9 N45 | 59.4 | | | | | | |
| 02 | 315 03.3 | 255 27.1 | 44.5 | 154 59.0 | 28.6 | 128 28.5 | 26.9 | 342 41.4 | 53.6 | Deneb | 49 41.2 N45 | 15.5 | | | | | | |
| 03 | 330 05.8 | 270 26.8 | 45.1 | 170 00.1 | 28.0 | 143 30.7 | 27.0 | 357 44.0 | 53.7 | Denebola | 182 48.9 N14 | 36.5 | | | | | | |
| 04 | 345 08.3 | 285 26.5 | 45.7 | 185 01.2 | 27.5 | 158 32.9 | 27.1 | 12 46.5 | 53.7 | Diphda | 349 10.8 S18 | 01.1 | | | | | | |
| 05 | 0 10.7 | 300 26.2 | 46.3 | 200 02.3 | 26.9 | 173 35.2 | 27.2 | 27 49.1 | 53.8 | | | | | | | | | |
| 06 | 15 13.2 | 315 25.9 N17 | 46.9 | 215 03.4 N | 9 26.3 | 188 37.4 S | 1 27.3 | 42 51.7 S12 | 53.8 | Dubhe | 194 10.1 N61 | 47.3 | | | | | | |
| 07 | 30 15.6 | 330 25.6 | 47.5 | 230 04.4 | 25.7 | 203 39.7 | 27.4 | 57 54.2 | 53.8 | Elnath | 278 31.8 N28 | 36.1 | | | | | | |
| M 08 | 45 18.1 | 345 25.3 | 48.1 | 245 05.5 | 25.1 | 218 41.9 | 27.5 | 72 56.8 | 53.9 | Eltanin | 90 52.5 N51 | 29.5 | | | | | | |
| E 09 | 60 20.6 | 0 25.0 | 48.7 | 260 06.6 | 24.5 | 233 44.1 | 27.6 | 87 59.4 | 53.9 | Enif | 34 01.5 N | 9 50.8 | | | | | | |
| I 10 | 75 23.0 | 15 24.7 | 49.3 | 275 07.7 | 24.0 | 248 46.4 | 27.7 | 103 01.9 | 54.0 | Fomalhaut | 15 40.1 S29 | 39.1 | | | | | | |
| R 11 | 90 25.5 | 30 24.4 | 49.9 | 290 08.8 | 23.4 | 263 48.6 | 27.8 | 118 04.5 | 54.0 | | | | | | | | | |
| C 12 | 105 28.0 | 45 24.1 N17 | 50.5 | 305 09.9 N | 9 22.8 | 278 50.8 S | 1 28.0 | 133 07.0 S12 | 54.1 | Gacrux | 172 17.6 S57 | 05.0 | | | | | | |
| O 13 | 120 30.4 | 60 23.8 | 51.1 | 320 11.0 | 22.2 | 293 53.1 | 28.1 | 148 09.6 | 54.1 | Gienah | 176 07.7 S17 | 30.5 | | | | | | |
| L 14 | 135 32.9 | 75 23.5 | 51.7 | 335 12.0 | 21.6 | 308 55.3 | 28.2 | 163 12.2 | 54.2 | Hadar | 149 08.9 S60 | 20.8 | | | | | | |
| E 15 | 150 35.4 | 90 23.2 | 52.2 | 350 13.1 | 21.0 | 323 57.6 | 28.3 | 178 14.7 | 54.2 | Hamal | 328 17.7 N23 | 25.9 | | | | | | |
| S 16 | 165 37.8 | 105 22.9 | 52.8 | 5 14.2 | 20.5 | 338 59.8 | 28.4 | 193 17.3 | 54.2 | Kaus Aust. | 84 03.1 S34 | 23.2 | | | | | | |
| 17 | 180 40.3 | 120 22.5 | 53.4 | 20 15.3 | 19.9 | 354 02.0 | 28.5 | 208 19.9 | 54.3 | | | | | | | | | |
| 18 | 195 42.8 | 135 22.2 N17 | 54.0 | 35 16.4 N | 9 19.3 | 9 04.3 S | 1 28.6 | 223 22.4 S12 | 54.3 | Kochab | 137 18.8 N74 | 11.2 | | | | | | |
| 19 | 210 45.2 | 150 21.9 | 54.6 | 50 17.5 | 18.7 | 24 06.5 | 28.7 | 238 25.0 | 54.4 | Markab | 13 53.0 N15 | 10.3 | | | | | | |
| 20 | 225 47.7 | 165 21.6 | 55.2 | 65 18.6 | 18.1 | 39 08.7 | 28.8 | 253 27.6 | 54.4 | Menkar | 314 30.8 N | 4 03.9 | | | | | | |
| 21 | 240 50.1 | 180 21.3 | 55.8 | 80 19.6 | 17.5 | 54 11.0 | 28.9 | 268 30.1 | 54.5 | Menkent | 148 25.0 S36 | 20.5 | | | | | | |
| 22 | 255 52.6 | 195 21.0 | 56.4 | 95 20.7 | 17.0 | 69 13.2 | 29.0 | 283 32.7 | 54.5 | Miaplacidus | 221 43.6 S69 | 41.7 | | | | | | |
| 23 | 270 55.1 | 210 20.7 | 57.0 | 110 21.8 | 16.4 | 84 15.4 | 29.1 | 298 35.2 | 54.6 | | | | | | | | | |
| 8 00 | 285 57.5 | 225 20.4 N17 | 57.5 | 125 22.9 N | 9 15.8 | 99 17.7 S | 1 29.3 | 313 37.8 S12 | 54.6 | Mirfak | 309 02.0 N49 | 50.2 | | | | | | |
| 01 | 301 00.0 | 240 20.0 | 58.1 | 140 24.0 | 15.2 | 114 19.9 | 29.4 | 328 40.4 | 54.6 | Nunki | 76 16.4 S26 | 18.2 | | | | | | |
| 02 | 316 02.5 | 255 19.7 | 58.7 | 155 25.1 | 14.6 | 129 22.2 | 29.5 | 343 42.9 | 54.7 | Peacock | 53 42.0 S56 | 45.1 | | | | | | |
| 03 | 331 04.9 | 270 19.4 | 59.3 | 170 26.1 | 14.0 | 144 24.4 | 29.6 | 358 45.5 | 54.7 | Pollux | 243 46.3 N28 | 02.5 | | | | | | |
| 04 | 346 07.4 | 285 19.1 | 59.9 | 185 27.2 | 13.5 | 159 26.6 | 29.7 | 13 48.1 | 54.8 | Procyon | 245 15.6 N | 5 14.5 | | | | | | |
| 05 | 1 09.9 | 300 18.8 | 60.5 | 200 28.3 | 12.9 | 174 28.9 | 29.8 | 28 50.6 | 54.8 | | | | | | | | | |
| 06 | 16 12.3 | 315 18.5 N18 | 61.0 | 215 29.4 N | 9 12.3 | 189 31.1 S | 1 29.9 | 43 53.2 S12 | 54.9 | Rasalhague | 96 19.9 N12 | 34.0 | | | | | | |
| 07 | 31 14.8 | 330 18.1 | 61.6 | 230 30.5 | 11.7 | 204 33.3 | 30.0 | 58 55.8 | 54.9 | Regulus | 207 59.6 N11 | 59.9 | | | | | | |
| 08 | 46 17.3 | 345 17.8 | 62.2 | 245 31.6 | 11.1 | 219 35.6 | 30.1 | 73 58.3 | 55.0 | Rigel | 281 26.7 S | 8 12.5 | | | | | | |
| J 09 | 61 19.7 | 0 17.5 | 62.8 | 260 32.7 | 10.5 | 234 37.8 | 30.2 | 89 00.9 | 55.0 | Rigil Kent. | 140 11.8 S60 | 48.8 | | | | | | |
| U 10 | 76 22.2 | 15 17.2 | 63.4 | 275 33.7 | 9.9 | 249 40.0 | 30.3 | 104 03.5 | 55.1 | Sabik | 102 29.3 S15 | 43.0 | | | | | | |
| E 11 | 91 24.6 | 30 16.8 | 63.9 | 290 34.8 | 9.4 | 264 42.3 | 30.5 | 119 06.0 | 55.1 | | | | | | | | | |
| V 12 | 106 27.1 | 45 16.5 N18 | 64.5 | 305 35.9 N | 9 08.8 | 279 44.5 S | 1 30.6 | 134 08.6 S12 | 55.1 | Schedar | 349 57.5 N56 | 30.0 | | | | | | |
| S 13 | 121 29.6 | 60 16.2 | 65.1 | 320 37.0 | 8.2 | 294 46.7 | 30.7 | 149 11.2 | 55.2 | Shaula | 96 41.7 S37 | 06.0 | | | | | | |
| 14 | 136 32.0 | 75 15.9 | 65.7 | 335 38.1 | 7.6 | 309 49.0 | 30.8 | 164 13.7 | 55.2 | Sirius | 258 47.2 S16 | 42.5 | | | | | | |
| 15 | 151 34.5 | 90 15.6 | 66.3 | 350 39.2 | 7.0 | 324 51.2 | 30.9 | 179 16.3 | 55.3 | Spica | 158 46.9 S11 | 07.8 | | | | | | |
| 16 | 166 37.0 | 105 15.2 | 66.8 | 5 40.2 | 6.4 | 339 53.4 | 31.0 | 194 18.9 | 55.3 | Suhail | 223 03.8 S43 | 24.6 | | | | | | |
| 17 | 181 39.4 | 120 14.9 | 67.4 | 20 41.3 | 5.8 | 354 55.6 | 31.1 | 209 21.4 | 55.4 | | | | | | | | | |
| 18 | 196 41.9 | 135 14.6 N18 | 68.0 | 35 42.4 N | 9 05.3 | 9 57.9 S | 1 31.2 | 224 24.0 S12 | 55.4 | Vega | 80 48.6 N38 | 46.8 | | | | | | |
| 19 | 211 44.4 | 150 14.3 | 68.6 | 50 43.5 | 4.7 | 25 00.1 | 31.3 | 239 | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | |
|----------------------------|--------|------|------|------|--------|------|------|------|------|------------|------|----------|-----------|------------------|-------|------------|-------|-------|-------|-------|-----|-----|-----|-----|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | d | P.H. | | Naut. | Civil | 6 | 7 | 8 | 9 | | | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | | | | | | | | |
| M A R T E S | 6 00 | 178 | 50.5 | N22 | 42.5 | 334 | 56.4 | 12.7 | S14 | 09.8 | 9.4 | 55.6 | N 72 | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m | h m |
| | 01 | 193 | 50.4 | | 42.3 | 349 | 28.1 | 12.7 | 14 | 00.4 | 9.5 | 55.6 | N 70 | □ | □ | □ | 22 41 | 22 22 | 22 06 | 21 50 | | | | |
| | 02 | 208 | 50.3 | | 42.0 | 3 | 59.8 | 12.8 | 13 | 50.9 | 9.6 | 55.6 | 68 | □ | □ | □ | 22 25 | 22 13 | 22 04 | 21 54 | | | | |
| | 03 | 223 | 50.2 | .. | 41.8 | 18 | 31.6 | 12.8 | 13 | 41.3 | 9.6 | 55.5 | 66 | /// | /// | 00 57 | 22 11 | 22 06 | 22 02 | 21 57 | | | | |
| | 04 | 238 | 50.1 | | 41.5 | 33 | 03.4 | 12.9 | 13 | 31.7 | 9.6 | 55.5 | 64 | /// | /// | 01 54 | 22 00 | 22 00 | 22 00 | 21 59 | | | | |
| | 05 | 253 | 50.0 | | 41.3 | 47 | 35.3 | 13.0 | 13 | 22.1 | 9.8 | 55.5 | 62 | /// | /// | 02 26 | 21 51 | 21 55 | 21 59 | 22 02 | | | | |
| | 06 | 268 | 49.9 | N22 | 41.0 | 62 | 07.3 | 13.1 | S13 | 12.3 | 9.7 | 55.5 | 60 | /// | 01 19 | 02 50 | 21 43 | 21 51 | 21 57 | 22 04 | | | | |
| | 07 | 283 | 49.8 | | 40.8 | 76 | 39.4 | 13.1 | 13 | 02.6 | 9.8 | 55.4 | N 58 | /// | 01 58 | 03 08 | 21 36 | 21 47 | 21 56 | 22 05 | | | | |
| | 08 | 298 | 49.7 | | 40.5 | 91 | 11.5 | 13.2 | 12 | 52.8 | 9.9 | 55.4 | 56 | /// | 02 25 | 03 24 | 21 30 | 21 44 | 21 55 | 22 07 | | | | |
| | 09 | 313 | 49.6 | .. | 40.3 | 105 | 43.7 | 13.2 | 12 | 42.9 | 9.9 | 55.4 | 54 | 01 13 | 02 45 | 03 37 | 21 25 | 21 41 | 21 54 | 22 08 | | | | |
| | 10 | 328 | 49.5 | | 40.0 | 120 | 15.9 | 13.4 | 12 | 33.0 | 10.0 | 55.4 | 52 | 01 49 | 03 02 | 03 49 | 21 20 | 21 38 | 21 54 | 22 09 | | | | |
| | 11 | 343 | 49.4 | | 39.8 | 134 | 48.3 | 13.3 | 12 | 23.0 | 10.0 | 55.4 | 50 | 02 14 | 03 16 | 03 59 | 21 20 | 21 35 | 21 53 | 22 10 | | | | |
| | 12 | 358 | 49.3 | N22 | 39.5 | 149 | 20.6 | 13.5 | S12 | 13.0 | 10.0 | 55.3 | 45 | 02 56 | 03 44 | 04 21 | 21 16 | 21 33 | 21 52 | 22 11 | | | | |
| | 13 | 13 | 49.1 | | 39.3 | 163 | 53.1 | 13.5 | 12 | 03.0 | 10.1 | 55.3 | N 40 | 03 25 | 04 06 | 04 38 | 21 12 | 21 33 | 21 52 | 22 13 | | | | |
| | 14 | 28 | 49.0 | | 39.0 | 178 | 25.6 | 13.5 | 11 | 52.9 | 10.1 | 55.3 | 35 | 03 47 | 04 23 | 04 52 | 21 03 | 21 28 | 21 51 | 22 15 | | | | |
| | 15 | 43 | 48.9 | .. | 38.8 | 192 | 58.1 | 13.7 | 11 | 42.8 | 10.2 | 55.3 | 30 | 04 05 | 04 38 | 05 05 | 20 50 | 21 20 | 21 49 | 22 17 | | | | |
| | 16 | 58 | 48.8 | | 38.5 | 207 | 30.8 | 13.6 | 11 | 32.6 | 10.3 | 55.3 | 20 | 04 33 | 05 02 | 05 26 | 20 44 | 21 17 | 21 48 | 22 18 | | | | |
| | 17 | 73 | 48.7 | | 38.2 | 222 | 03.4 | 13.8 | 11 | 22.3 | 10.2 | 55.2 | N 10 | 04 55 | 05 21 | 05 44 | 20 35 | 21 11 | 21 46 | 22 21 | | | | |
| | 18 | 88 | 48.6 | N22 | 38.0 | 236 | 36.2 | 13.8 | S11 | 12.1 | 10.3 | 55.2 | 0 | 05 13 | 05 39 | 06 01 | 20 26 | 21 06 | 21 45 | 22 23 | | | | |
| | 19 | 103 | 48.5 | | 37.7 | 251 | 09.0 | 13.8 | 11 | 01.8 | 10.4 | 55.2 | S 10 | 05 29 | 05 55 | 06 18 | 20 18 | 21 02 | 21 42 | 22 25 | | | | |
| | 20 | 118 | 48.4 | | 37.5 | 265 | 41.8 | 14.0 | 10 | 51.4 | 10.4 | 55.2 | 20 | 05 45 | 06 12 | 06 36 | 20 10 | 20 57 | 21 42 | 22 27 | | | | |
| | 21 | 133 | 48.3 | .. | 37.2 | 280 | 14.8 | 13.9 | 10 | 41.0 | 10.4 | 55.2 | 30 | 06 00 | 06 30 | 06 56 | 20 02 | 20 52 | 21 41 | 22 29 | | | | |
| | 22 | 148 | 48.2 | | 36.9 | 294 | 47.7 | 14.1 | 10 | 30.6 | 10.4 | 55.1 | 35 | 06 09 | 06 40 | 07 08 | 19 52 | 20 46 | 21 40 | 22 32 | | | | |
| 23 | 163 | 48.1 | | 36.7 | 309 | 20.8 | 14.1 | 10 | 20.2 | 10.5 | 55.1 | 58 | 06 17 | 06 51 | 07 22 | 19 46 | 20 43 | 21 39 | 22 33 | | | | | |
| 7 00 | 178 | 48.0 | N22 | 36.4 | 323 | 53.9 | 14.1 | S10 | 09.7 | 10.6 | 55.1 | 40 | 06 27 | 07 04 | 07 38 | 19 40 | 20 40 | 21 38 | 22 35 | | | | | |
| 01 | 193 | 47.9 | | 36.1 | 338 | 27.0 | 14.2 | 9 | 59.1 | 10.5 | 55.1 | 45 | 06 38 | 07 19 | 07 57 | 19 32 | 20 35 | 21 37 | 22 37 | | | | | |
| 02 | 208 | 47.8 | | 35.9 | 353 | 00.2 | 14.2 | 9 | 48.6 | 10.6 | 55.1 | S 50 | 06 38 | 07 19 | 07 57 | 19 23 | 20 30 | 21 35 | 22 40 | | | | | |
| 03 | 223 | 47.7 | .. | 35.6 | 7 | 33.4 | 14.3 | 9 | 38.0 | 10.7 | 55.0 | 52 | 06 43 | 07 26 | 08 07 | 19 19 | 20 28 | 21 35 | 22 41 | | | | | |
| 04 | 238 | 47.6 | | 35.3 | 22 | 06.7 | 14.4 | 9 | 27.3 | 10.6 | 55.0 | 54 | 06 48 | 07 34 | 08 17 | 19 15 | 20 25 | 21 34 | 22 42 | | | | | |
| 05 | 253 | 47.5 | | 35.1 | 36 | 40.1 | 14.4 | 9 | 16.7 | 10.7 | 55.0 | 56 | 06 54 | 07 43 | 08 29 | 19 09 | 20 22 | 21 33 | 22 43 | | | | | |
| 06 | 268 | 47.4 | N22 | 34.8 | 51 | 13.5 | 14.5 | S 9 | 06.0 | 10.7 | 55.0 | 58 | 07 00 | 07 52 | 08 43 | 19 04 | 20 19 | 21 32 | 22 45 | | | | | |
| 07 | 283 | 47.3 | | 34.5 | 65 | 47.0 | 14.5 | 8 | 55.3 | 10.8 | 55.0 | S 60 | 07 07 | 08 03 | 08 59 | 18 57 | 20 15 | 21 31 | 22 46 | | | | | |
| 08 | 298 | 47.2 | | 34.3 | 80 | 20.5 | 14.5 | 8 | 44.5 | 10.8 | 54.9 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | | | | | | |
| 09 | 313 | 47.1 | .. | 34.0 | 94 | 54.0 | 14.6 | 8 | 33.7 | 10.8 | 54.9 | 6 | h m | h m | h m | 6 | 7 | 8 | 9 | | | | | |
| 10 | 328 | 47.0 | | 33.7 | 109 | 27.6 | 14.7 | 8 | 22.9 | 10.8 | 54.9 | N 72 | h m | h m | h m | h m | h m | h m | h m | | | | | |
| 11 | 343 | 46.9 | | 33.5 | 124 | 01.3 | 14.7 | 8 | 12.1 | 10.9 | 54.9 | N 70 | □ | □ | □ | 04 38 | 06 38 | 08 27 | 10 10 | | | | | |
| 12 | 358 | 46.8 | N22 | 33.2 | 138 | 35.0 | 14.7 | S 8 | 01.2 | 10.9 | 54.9 | 68 | □ | □ | □ | 05 05 | 06 53 | 08 33 | 10 10 | | | | | |
| 13 | 13 | 46.7 | | 32.9 | 153 | 08.7 | 14.8 | 7 | 50.3 | 10.9 | 54.9 | 66 | 23 08 | /// | /// | 05 26 | 07 05 | 08 38 | 10 09 | | | | | |
| 14 | 28 | 46.6 | | 32.6 | 167 | 42.5 | 14.8 | 7 | 39.4 | 10.9 | 54.8 | 64 | 22 14 | /// | /// | 05 42 | 07 14 | 08 42 | 10 09 | | | | | |
| 15 | 43 | 46.5 | .. | 32.4 | 182 | 16.3 | 14.9 | 7 | 28.5 | 11.0 | 54.8 | 62 | 21 42 | /// | /// | 05 55 | 07 22 | 08 46 | 10 08 | | | | | |
| 16 | 58 | 46.4 | | 32.1 | 196 | 50.2 | 14.9 | 7 | 17.5 | 10.9 | 54.8 | 60 | 21 19 | 22 48 | /// | 06 06 | 07 29 | 08 49 | 10 08 | | | | | |
| 17 | 73 | 46.3 | | 31.8 | 211 | 24.1 | 15.0 | 7 | 06.6 | 11.0 | 54.8 | N 58 | 21 00 | 22 10 | /// | 06 15 | 07 35 | 08 52 | 10 07 | | | | | |
| 18 | 88 | 46.2 | N22 | 31.5 | 225 | 58.1 | 15.0 | S 6 | 55.6 | 11.1 | 54.8 | 56 | 20 45 | 21 44 | /// | 06 24 | 07 40 | 08 54 | 10 07 | | | | | |
| 19 | 103 | 46.1 | | 31.3 | 240 | 32.1 | 15.0 | 6 | 44.5 | 11.0 | 54.8 | 54 | 20 32 | 21 24 | 22 54 | 06 31 | 07 44 | 08 56 | 10 07 | | | | | |
| 20 | 118 | 46.0 | | 31.0 | 255 | 06.1 | 15.1 | 6 | 33.5 | 11.1 | 54.7 | 52 | 20 20 | 21 07 | 22 19 | 06 37 | 07 49 | 08 58 | 10 07 | | | | | |
| 21 | 133 | 45.9 | .. | 30.7 | 269 | 40.2 | 15.1 | 6 | 22.4 | 11.1 | 54.7 | 50 | 20 10 | 20 53 | 21 55 | 06 43 | 07 52 | 09 00 | 10 06 | | | | | |
| 22 | 148 | 45.8 | | 30.4 | 284 | 14.3 | 15.2 | 6 | 11.3 | 11.1 | 54.7 | 45 | 19 49 | 20 25 | 21 13 | 06 48 | 07 56 | 09 02 | 10 06 | | | | | |
| 23 | 163 | 45.8 | | 30.2 | 298 | 48.5 | 15.2 | 6 | 00.2 | 11.1 | 54.7 | N 40 | 19 31 | 20 04 | 20 45 | 06 59 | 08 03 | 09 05 | 10 06 | | | | | |
| 8 00 | 178 | 45.7 | N22 | 29.9 | 313 | 22.7 | 15.2 | S 5 | 49.1 | 11.1 | 54.7 | 35 | 19 17 | 19 46 | 20 23 | 07 08 | 08 09 | 09 08 | 10 06 | | | | | |
| 01 | 193 | 45.6 | | 29.6 | 327 | 56.9 | 15.3 | 5 | 38.0 | 11.1 | 54.7 | 30 | 19 05 | 19 32 | 20 05 | 07 16 | 08 14 | 09 10 | 10 05 | | | | | |
| 02 | 208 | 45.5 | | 29.3 | 342 | 11.2 | 15.3 | 5 | 26.9 | 11.2 | 54.7 | 20 | 18 44 | 19 08 | 19 37 | 07 23 | 08 18 | 09 12 | 10 05 | | | | | |
| 03 | 223 | 45.4 | .. | 29.0 | 357 | 05.5 | 15.3 | 5 | 15.7 | 11.2 | 54.6 | N 10 | 18 25 | 18 43 | 19 15 | 07 35 | 08 26 | 09 16 | 10 04 | | | | | |
| 04 | 238 | 45.3 | | 28.7 | 11 | 39.8 | 15.4 | 5 | 04.5 | 11.2 | 54.6 | 0 | 18 09 | 18 31 | 18 57 | 07 45 | 08 33 | 09 19 | 10 04 | | | | | |
| 05 | 253 | 45.2 | | 28.5 | 26 | 14.2 | 15.4 | 4 | 53.3 | 11.2 | 54.6 | S 10 | 17 52 | 18 14 | 18 41 | 07 55 | 08 39 | 09 22 | 10 04 | | | | | |
| 06 | 268 | 45.1 | N22 | 28.2 | 40 | 48.6 | 15.4 | S 4 | 42.1 | 11.2 | 54.6 | 20 | 17 34 | 17 58 | 18 25 | 08 04 | 08 46 | 09 25 | 10 03 | | | | | |
| 07 | 283 | 45.0 | | 27.9 | 55 | 23.0 | 15.5 | 4 | 30.9 | 11.2 | 54.6 | 30 | 17 14 | 17 40 | 18 10 | 08 14 | 08 52 | 09 28 | 10 03 | | | | | |
| 08 | 298 | 44.9 | | 27.6 | 69 | 57.5 | 15.5 | 4 | 19.7 | 11.2 | 54.6 | 35 | 17 02 | 17 30 | 18 01 | 08 26 | 09 00 | 09 32 | 10 02 | | | | | |
| 09 | 313 | 44.8 | .. | 27.3 | 84 | 32.0 | 15.5 | 4 | 08.5 | 11.3 | 54.6 | 40 | 16 48 | 17 19 | 17 52 | 08 32 | 09 04 | 09 34 | 10 02 | | | | | |
| 10 | 328 | 44.7 | | 27.0 | 99 | 06.5 | 15.6 | 3 | 57.2 | 11.3 | 54.5 | 45 | 16 32 | 17 06 | 17 43 | 08 40 | 09 09 | 09 36 | 10 02 | | | | | |
| 11 | 343 | 44.6 | | 26.8 | 113 | 41.1 | 15.6 | 3 | 45.9 | 11.2 | 54.5 | S 50 | 16 13 | 16 51 | 17 32 | 08 48 | 09 15 | 09 39 | 10 01 | | | | | |
| 12 | 358 | 44.5 | N22 | 26.5 | 128 | 15.7 | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.1 | | MARTE +1.6 | | JUPITER -1.9 | | SATURNO +0.6 | | ESTRELLAS | | |
|----------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|-------------|--------------|----------|-----------|--|--|
| | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre | A. H. S. | Dec. | | |
| 9 00 | 286 56.7 | 225 12.6 N18 11.4 | 125 48.9 N 9 01.7 | 100 11.3 S 1 31.9 | 314 39.4 S12 55.7 | Acamar | 315 29.8 S40 19.6 | | | | | | |
| 01 | 301 59.1 | 240 12.3 12.0 | 140 50.0 01.1 | 115 13.5 32.0 | 329 42.0 55.7 | Achernar | 335 37.8 S57 15.8 | | | | | | |
| 02 | 317 01.6 | 255 11.9 12.6 | 155 51.1 00.6 | 130 15.7 32.1 | 344 44.5 55.8 | Acrux | 173 26.1 S63 04.2 | | | | | | |
| 03 | 332 04.1 | 270 11.6 13.1 | 170 52.2 9 00.0 | 145 17.9 32.2 | 359 47.1 55.8 | Adhara | 255 24.6 S28 57.8 | | | | | | |
| 04 | 347 06.5 | 285 11.3 13.7 | 185 53.3 8 59.4 | 160 20.2 32.3 | 14 49.7 55.9 | Aldebaran | 291 06.7 N16 29.8 | | | | | | |
| 05 | 2 09.0 | 300 10.9 14.3 | 200 54.3 58.8 | 175 22.4 32.4 | 29 52.2 55.9 | | | | | | | | |
| 06 | 17 11.5 | 315 10.6 N18 14.9 | 215 55.4 N 8 58.2 | 190 24.6 S 1 32.6 | 44 54.8 S12 56.0 | Alioth | 166 33.7 N55 59.9 | | | | | | |
| 07 | 32 13.9 | 330 10.3 15.4 | 230 56.5 57.6 | 205 26.9 32.7 | 59 57.4 56.0 | Alkaid | 153 10.5 N49 20.9 | | | | | | |
| 08 | 47 16.4 | 345 09.9 16.0 | 245 57.6 57.0 | 220 29.1 32.8 | 74 59.9 56.1 | Al Na'ir | 28 02.0 S46 59.2 | | | | | | |
| V 09 | 62 18.9 | 0 09.6 16.6 | 260 58.7 56.4 | 235 31.3 32.9 | 90 02.5 56.1 | Alnilam | 276 01.8 S 1 12.3 | | | | | | |
| I 10 | 77 21.3 | 15 09.3 17.1 | 275 59.8 55.9 | 250 33.5 33.0 | 105 05.1 56.2 | Alphard | 218 11.0 S 8 37.9 | | | | | | |
| E 11 | 92 23.8 | 30 08.9 17.7 | 291 00.8 55.3 | 265 35.8 33.1 | 120 07.6 56.2 | | | | | | | | |
| R 12 | 107 26.2 | 45 08.6 N18 18.3 | 306 01.9 N 8 54.7 | 280 38.0 S 1 33.2 | 135 10.2 S12 56.2 | Alphecca | 126 23.4 N26 44.3 | | | | | | |
| N 13 | 122 28.7 | 60 08.3 18.8 | 321 03.0 54.1 | 295 40.2 33.3 | 150 12.8 56.3 | Alpheratz | 357 58.8 N29 03.3 | | | | | | |
| E 14 | 137 31.2 | 75 07.9 19.4 | 336 04.1 53.5 | 310 42.5 33.4 | 165 15.4 56.3 | Altair | 62 22.4 N 8 51.2 | | | | | | |
| S 15 | 152 33.6 | 90 07.6 20.0 | 351 05.2 52.9 | 325 44.7 33.6 | 180 17.9 56.4 | Ankaa | 353 30.2 S42 20.1 | | | | | | |
| 16 | 167 36.1 | 105 07.2 20.5 | 6 06.3 52.3 | 340 46.9 33.7 | 195 20.5 56.4 | Antares | 112 44.2 S26 25.1 | | | | | | |
| 17 | 182 38.6 | 120 06.9 21.1 | 21 07.3 51.7 | 355 49.1 33.8 | 210 23.1 56.5 | | | | | | | | |
| 18 | 197 41.0 | 135 06.6 N18 21.6 | 36 08.4 N 8 51.1 | 10 51.4 S 1 33.9 | 225 25.6 S12 56.5 | Arcturus | 146 09.2 N19 13.0 | | | | | | |
| 19 | 212 43.5 | 150 06.2 22.2 | 51 09.5 50.6 | 25 53.6 34.0 | 240 28.2 56.6 | Atria | 107 59.0 S69 01.1 | | | | | | |
| 20 | 227 46.0 | 165 05.9 22.8 | 66 10.6 50.0 | 40 55.8 34.1 | 255 30.8 56.6 | Avior | 234 24.7 S59 29.5 | | | | | | |
| 21 | 242 48.4 | 180 05.5 23.3 | 81 11.7 49.4 | 55 58.0 34.2 | 270 33.3 56.7 | Bellatrix | 278 48.3 N 6 20.6 | | | | | | |
| 22 | 257 50.9 | 195 05.2 23.9 | 96 12.8 48.8 | 71 00.3 34.4 | 285 35.9 56.7 | Betelgeuse | 271 17.7 N 7 24.3 | | | | | | |
| 23 | 272 53.4 | 210 04.8 24.5 | 111 13.8 48.2 | 86 02.5 34.5 | 300 38.5 56.8 | | | | | | | | |
| 10 00 | 287 55.8 | 225 04.5 N18 25.0 | 126 14.9 N 8 47.6 | 101 04.7 S 1 34.6 | 315 41.1 S12 56.8 | Canopus | 264 03.3 S52 41.5 | | | | | | |
| 01 | 302 58.3 | 240 04.1 25.6 | 141 16.0 47.0 | 116 06.9 34.7 | 330 43.6 56.9 | Capella | 280 56.9 N45 59.4 | | | | | | |
| 02 | 318 00.7 | 255 03.8 26.1 | 156 17.1 46.4 | 131 09.2 34.8 | 345 46.2 56.9 | Deneb | 49 41.2 N45 15.5 | | | | | | |
| 03 | 333 03.2 | 270 03.5 26.7 | 171 18.2 45.8 | 146 11.4 34.9 | 0 48.8 57.0 | Denebola | 182 48.9 N14 36.5 | | | | | | |
| 04 | 348 05.7 | 285 03.1 27.2 | 186 19.2 45.2 | 161 13.6 35.0 | 15 51.3 57.0 | Diphda | 349 10.8 S18 01.1 | | | | | | |
| 05 | 3 08.1 | 300 02.8 27.8 | 201 20.3 44.7 | 176 15.8 35.1 | 30 53.9 57.0 | | | | | | | | |
| 06 | 18 10.6 | 315 02.4 N18 28.4 | 216 21.4 N 8 44.1 | 191 18.1 S 1 35.3 | 45 56.5 S12 57.1 | Dubhe | 194 10.2 N61 47.3 | | | | | | |
| 07 | 33 13.1 | 330 02.1 28.9 | 231 22.5 43.5 | 206 20.3 35.4 | 60 59.1 57.1 | El Nath | 278 31.8 N28 36.1 | | | | | | |
| 08 | 48 15.5 | 345 01.7 29.5 | 246 23.6 42.9 | 221 22.5 35.5 | 76 01.6 57.2 | Eltanin | 90 52.5 N51 29.5 | | | | | | |
| S 09 | 63 18.0 | 0 01.4 30.0 | 261 24.7 42.3 | 236 24.7 35.6 | 91 04.2 57.2 | Enif | 34 01.5 N 9 50.8 | | | | | | |
| I 10 | 78 20.5 | 15 01.0 30.6 | 276 25.7 41.7 | 251 26.9 35.7 | 106 06.8 57.3 | Fomalhaut | 15 40.1 S29 39.1 | | | | | | |
| E 11 | 93 22.9 | 30 00.7 31.1 | 291 26.8 41.1 | 266 29.2 35.8 | 121 09.3 57.3 | | | | | | | | |
| R 12 | 108 25.4 | 45 00.3 N18 31.7 | 306 27.9 N 8 40.5 | 281 31.4 S 1 35.9 | 136 11.9 S12 57.4 | Gacrux | 172 17.7 S57 05.0 | | | | | | |
| N 13 | 123 27.8 | 59 59.9 32.2 | 321 29.0 39.9 | 296 33.6 36.1 | 151 14.5 57.4 | Giennah | 176 07.7 S17 30.5 | | | | | | |
| E 14 | 138 30.3 | 74 59.6 32.8 | 336 30.1 39.3 | 311 35.8 36.2 | 166 17.1 57.5 | Hadar | 149 08.9 S60 20.8 | | | | | | |
| S 15 | 153 32.8 | 89 59.2 33.3 | 351 31.2 38.7 | 326 38.1 36.3 | 181 19.6 57.5 | Hamal | 328 17.7 N23 25.9 | | | | | | |
| 16 | 168 35.2 | 104 58.9 33.9 | 6 32.2 38.2 | 341 40.3 36.4 | 196 22.2 57.6 | Kaus Aust. | 84 03.1 S34 23.2 | | | | | | |
| 17 | 183 37.7 | 119 58.5 34.4 | 21 33.3 37.6 | 356 42.5 36.5 | 211 24.8 57.6 | | | | | | | | |
| 18 | 198 40.2 | 134 58.2 N18 35.0 | 36 34.4 N 8 37.0 | 11 44.7 S 1 36.6 | 226 27.4 S12 57.7 | Kochab | 137 18.8 N74 11.2 | | | | | | |
| 19 | 213 42.6 | 149 57.8 35.5 | 51 35.5 36.4 | 26 46.9 36.7 | 241 29.9 57.7 | Markab | 13 53.0 N15 10.3 | | | | | | |
| 20 | 228 45.1 | 164 57.5 36.1 | 66 36.6 35.8 | 41 49.2 36.9 | 256 32.5 57.8 | Menkar | 314 30.8 N 4 03.9 | | | | | | |
| 21 | 243 47.6 | 179 57.1 36.6 | 81 37.6 35.2 | 56 51.4 37.0 | 271 35.1 57.8 | Menkent | 148 25.1 S36 20.5 | | | | | | |
| 22 | 258 50.0 | 194 56.7 37.2 | 96 38.7 34.6 | 71 53.6 37.1 | 286 37.6 57.9 | Miaplacidus | 221 43.6 S69 41.7 | | | | | | |
| 23 | 273 52.5 | 209 56.4 37.7 | 111 39.8 34.0 | 86 55.8 37.2 | 301 40.2 57.9 | | | | | | | | |
| 11 00 | 288 55.0 | 224 56.0 N18 38.3 | 126 40.9 N 8 33.4 | 101 58.0 S 1 37.3 | 316 42.8 S12 58.0 | Mirfak | 309 02.0 N49 50.2 | | | | | | |
| 01 | 303 57.4 | 239 55.7 38.8 | 141 42.0 32.8 | 117 00.2 37.4 | 331 45.4 58.0 | Nunki | 76 16.4 S26 18.2 | | | | | | |
| 02 | 318 59.9 | 254 55.3 39.4 | 156 43.1 32.2 | 132 02.5 37.5 | 346 47.9 58.1 | Peacock | 53 42.0 S56 45.1 | | | | | | |
| 03 | 334 02.3 | 269 54.9 39.9 | 171 44.1 31.6 | 147 04.7 37.7 | 1 50.5 58.1 | Pollux | 243 46.3 N28 02.5 | | | | | | |
| 04 | 349 04.8 | 284 54.6 40.4 | 186 45.2 31.0 | 162 06.9 37.8 | 16 53.1 58.1 | Procyon | 245 15.6 N 5 14.5 | | | | | | |
| 05 | 4 07.3 | 299 54.2 41.0 | 201 46.3 30.4 | 177 09.1 37.9 | 31 55.7 58.2 | | | | | | | | |
| 06 | 19 09.7 | 314 53.8 N18 41.5 | 216 47.4 N 8 29.9 | 192 11.3 S 1 38.0 | 46 58.2 S12 58.2 | Rasalhague | 96 19.9 N12 34.0 | | | | | | |
| 07 | 34 12.2 | 329 53.5 42.1 | 231 48.5 29.3 | 207 13.6 38.1 | 62 00.8 58.3 | Regulus | 207 59.6 N11 59.9 | | | | | | |
| 08 | 49 14.7 | 344 53.1 42.6 | 246 49.5 28.7 | 222 15.8 38.2 | 77 03.4 58.3 | Rigel | 281 26.7 S 8 12.5 | | | | | | |
| 09 | 64 17.1 | 359 52.7 43.1 | 261 50.6 28.1 | 237 18.0 38.4 | 92 06.0 58.4 | Rigil Kent. | 140 11.8 S60 48.8 | | | | | | |
| 10 | 79 19.6 | 14 52.4 43.7 | 276 51.7 27.5 | 252 20.2 38.5 | 107 08.5 58.4 | Sabik | 102 29.3 S15 43.0 | | | | | | |
| 11 | 94 22.1 | 29 52.0 44.2 | 291 52.8 26.9 | 267 22.4 38.6 | 122 11.1 58.5 | | | | | | | | |
| N 12 | 109 24.5 | 44 51.6 N18 44.8 | 306 53.9 N 8 26.3 | 282 24.6 S 1 38.7 | 137 13.7 S12 58.5 | Schedar | 349 57.5 N56 30.0 | | | | | | |
| 13 | 124 27.0 | 59 51.3 45.3 | 321 54.9 25.7 | 297 26.9 38.8 | 152 16.3 58.6 | Shaula | 96 41.7 S37 06.0 | | | | | | |
| E 14 | 139 29.5 | 74 50.9 45.8 | 336 56.0 25.1 | 312 29.1 38.9 | 167 18.8 58.6 | Sirius | 258 47.2 S16 42.4 | | | | | | |
| S 15 | 154 31.9 | 89 50.5 46.4 | 351 57.1 24.5 | 327 31.3 39.1 | 182 21.4 58.7 | Spica | 158 46.9 S11 07.8 | | | | | | |
| 16 | 169 34.4 | 104 50.2 46.9 | 6 58.2 23.9 | 342 33.5 39.2 | 197 24.0 58.7 | Suhail | 223 03.8 S43 24.6 | | | | | | |
| 17 | 184 36.8 | 119 49.8 47.4 | 21 59.3 23.3 | 357 35.7 39.3 | 212 26.6 58.8 | | | | | | | | |
| 18 | 199 39.3 | 134 49.4 N18 48.0 | 37 00.4 N 8 22.7 | 12 37.9 S 1 39.4 | 227 29.2 S12 58.8 | Vega | 80 48.6 N38 46.8 | | | | | | |
| 19 | 214 41.8 | 149 49.1 48.5 | 52 01.4 22.1 | 27 40.2 39.5 | 242 31.7 58.9 | Zuben'ubi | 137 21.8 S16 01.0 | | | | | | |
| 20 | 229 44.2 | 164 48.7 49.0 | 67 02.5 21.5 | 42 42.4 39.6 | 257 34.3 58.9 | | | | | | | | |
| 21 | 244 46.7 | 179 48.3 49.6 | 82 03.6 20.9 | 57 44.6 39.8 | 272 36.9 59.0 | | | | | | | | |
| 22 | 259 49.2 | 194 47.9 50.1 | 97 04.7 20.3 | 72 46.8 39.9 | 287 39.5 59.0 | Venus | 297 08.7 9 00 | | | | | | |
| 23 | 274 51.6 | 209 47.6 50.6 | 112 05.8 19.8 | 87 49.0 40.0 | 302 42.0 59.1 | Marte | 198 19.1 15 34 | | | | | | |
| | | | | | | Júpiter | 173 08.9 17 13 | | | | | | |
| | | | | | | Saturno | 27 45.2 2 57 | | | | | | |
| Pas. Mer. 4 | h m 47.5 | v -0.4 d 0.6 | v 1.1 d 0.6 | v 2.2 d 0.1 | v 2.6 d 0.0 | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | |
|----------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-------|-------|----|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 9 | 10 | 11 | 12 |
| | ° | ' | ° | ' | ° | ' | ° | ' | | | | | | | | |
| 9 00 | 178 | 43.4 | N22 | 23.0 | 303 | 12.4 | 15.8 | S 1 | 19.1 | 11.3 | 54.4 | 21 50 | 21 34 | 21 15 | 20 49 | |
| 01 | 193 | 43.3 | | 22.7 | 317 | 47.2 | 15.9 | | 07.8 | 11.3 | 54.4 | 21 54 | 21 44 | 21 33 | 21 20 | |
| 02 | 208 | 43.2 | | 22.4 | 332 | 22.1 | 15.9 | 0 | 56.5 | 11.3 | 54.4 | 21 57 | 21 52 | 21 48 | 21 43 | |
| 03 | 223 | 43.1 | | 22.1 | 346 | 57.0 | 15.9 | 0 | 45.2 | 11.4 | 54.4 | 01 12 | 21 59 | 21 59 | 22 01 | |
| 04 | 238 | 43.0 | | 21.8 | 1 | 31.9 | 15.9 | 0 | 33.8 | 11.3 | 54.4 | 02 01 | 22 02 | 22 05 | 22 16 | |
| 05 | 253 | 42.9 | | 21.5 | 16 | 06.8 | 15.9 | 0 | 22.5 | 11.3 | 54.3 | 02 32 | 22 04 | 22 10 | 22 28 | |
| 06 | 268 | 42.8 | N22 | 21.2 | 30 | 41.7 | 15.9 | S 0 | 11.2 | 11.3 | 54.3 | 02 54 | 22 05 | 22 14 | 22 39 | |
| 07 | 283 | 42.7 | | 20.9 | 45 | 16.6 | 16.0 | N 0 | 00.1 | 11.3 | 54.3 | 03 13 | 22 07 | 22 18 | 22 48 | |
| 08 | 298 | 42.6 | | 20.6 | 59 | 51.6 | 15.9 | 0 | 11.4 | 11.3 | 54.3 | 03 28 | 22 08 | 22 22 | 22 56 | |
| 09 | 313 | 42.5 | | 20.3 | 74 | 26.5 | 16.0 | 0 | 22.7 | 11.3 | 54.3 | 02 04 | 22 09 | 22 25 | 23 03 | |
| 10 | 328 | 42.5 | | 20.0 | 89 | 01.5 | 15.9 | 0 | 34.0 | 11.2 | 54.3 | 03 41 | 22 10 | 22 28 | 23 10 | |
| 11 | 343 | 42.4 | | 19.7 | 103 | 36.4 | 16.0 | 0 | 45.2 | 11.3 | 54.3 | 03 52 | 22 11 | 22 31 | 23 15 | |
| 12 | 358 | 42.3 | N22 | 19.3 | 118 | 11.4 | 16.0 | N 0 | 56.5 | 11.3 | 54.3 | 04 02 | 22 13 | 22 36 | 23 21 | |
| 13 | 13 | 42.2 | | 19.0 | 132 | 46.4 | 16.0 | 1 | 07.8 | 11.3 | 54.3 | 04 23 | 22 15 | 22 41 | 23 39 | |
| 14 | 28 | 42.1 | | 18.7 | 147 | 21.4 | 15.9 | 1 | 19.1 | 11.2 | 54.3 | 04 40 | 22 17 | 22 45 | 23 48 | |
| 15 | 43 | 42.0 | | 18.4 | 161 | 56.3 | 16.0 | 1 | 30.3 | 11.3 | 54.3 | 04 54 | 22 18 | 22 49 | 23 56 | |
| 16 | 58 | 41.9 | | 18.1 | 176 | 31.3 | 16.0 | 1 | 41.6 | 11.2 | 54.3 | 05 06 | 22 21 | 22 55 | 23 31 | |
| 17 | 73 | 41.8 | | 17.8 | 191 | 06.3 | 16.0 | 1 | 52.8 | 11.2 | 54.3 | 05 27 | 22 23 | 23 01 | 24 22 | |
| 18 | 88 | 41.7 | N22 | 17.5 | 205 | 41.3 | 16.0 | N 2 | 04.0 | 11.2 | 54.3 | 05 45 | 22 25 | 23 06 | 24 33 | |
| 19 | 103 | 41.6 | | 17.2 | 220 | 16.3 | 16.0 | 2 | 15.2 | 11.2 | 54.3 | 06 02 | 22 27 | 23 12 | 24 45 | |
| 20 | 118 | 41.5 | | 16.9 | 234 | 51.3 | 16.0 | 2 | 26.4 | 11.2 | 54.3 | 06 18 | 22 29 | 23 18 | 24 07 | |
| 21 | 133 | 41.5 | | 16.6 | 249 | 26.3 | 15.9 | 2 | 37.6 | 11.2 | 54.2 | 06 30 | 22 32 | 23 24 | 24 17 | |
| 22 | 148 | 41.4 | | 16.3 | 264 | 01.2 | 16.0 | 2 | 48.8 | 11.2 | 54.2 | 06 46 | 22 33 | 23 28 | 24 23 | |
| 23 | 163 | 41.3 | | 16.0 | 278 | 36.2 | 16.0 | 3 | 00.0 | 11.1 | 54.2 | 07 07 | 22 35 | 23 33 | 24 30 | |
| 10 00 | 178 | 41.2 | N22 | 15.6 | 293 | 11.2 | 16.0 | N 3 | 11.1 | 11.2 | 54.2 | 07 21 | 22 37 | 23 38 | 24 39 | |
| 01 | 193 | 41.1 | | 15.3 | 307 | 46.2 | 15.9 | 3 | 22.3 | 11.1 | 54.2 | 07 36 | 22 40 | 23 44 | 24 48 | |
| 02 | 208 | 41.0 | | 15.0 | 322 | 21.1 | 16.0 | 3 | 33.4 | 11.1 | 54.2 | 07 52 | 22 41 | 23 47 | 24 53 | |
| 03 | 223 | 40.9 | | 14.7 | 336 | 56.1 | 15.9 | 3 | 44.5 | 11.1 | 54.2 | 08 05 | 22 42 | 23 50 | 24 58 | |
| 04 | 238 | 40.8 | | 14.4 | 351 | 31.0 | 16.0 | 3 | 55.6 | 11.1 | 54.2 | 08 15 | 22 43 | 23 53 | 25 04 | |
| 05 | 253 | 40.7 | | 14.1 | 6 | 06.0 | 15.9 | 4 | 06.7 | 11.0 | 54.2 | 08 26 | 22 45 | 23 57 | 25 10 | |
| 06 | 268 | 40.7 | N22 | 13.8 | 20 | 40.9 | 15.9 | N 4 | 17.7 | 11.1 | 54.2 | 08 40 | 22 46 | 24 01 | 01 17 | |
| 07 | 283 | 40.6 | | 13.4 | 35 | 15.8 | 15.9 | 4 | 28.8 | 11.0 | 54.2 | 08 55 | 22 47 | 24 05 | 01 24 | |
| 08 | 298 | 40.5 | | 13.1 | 49 | 50.7 | 15.9 | 4 | 39.8 | 11.0 | 54.2 | 09 07 | 22 48 | 24 08 | 01 31 | |
| 09 | 313 | 40.4 | | 12.8 | 64 | 25.6 | 15.9 | 4 | 50.8 | 11.0 | 54.2 | 09 19 | 22 49 | 24 11 | 01 38 | |
| 10 | 328 | 40.3 | | 12.5 | 79 | 00.5 | 15.9 | 5 | 01.8 | 10.9 | 54.2 | 09 31 | 22 50 | 24 14 | 01 45 | |
| 11 | 343 | 40.2 | | 12.2 | 93 | 35.4 | 15.8 | 5 | 12.7 | 11.0 | 54.2 | 09 43 | 22 51 | 24 17 | 01 52 | |
| 12 | 358 | 40.1 | N22 | 11.8 | 108 | 10.2 | 15.8 | N 5 | 23.7 | 10.9 | 54.2 | 09 55 | 22 52 | 24 20 | 01 59 | |
| 13 | 13 | 40.0 | | 11.5 | 122 | 45.0 | 15.9 | 5 | 34.6 | 10.9 | 54.2 | 10 07 | 22 53 | 24 23 | 02 06 | |
| 14 | 28 | 40.0 | | 11.2 | 137 | 19.9 | 15.8 | 5 | 45.5 | 10.9 | 54.2 | 10 19 | 22 54 | 24 26 | 02 13 | |
| 15 | 43 | 39.9 | | 10.9 | 151 | 54.7 | 15.8 | 5 | 56.4 | 10.8 | 54.2 | 10 31 | 22 55 | 24 29 | 02 20 | |
| 16 | 58 | 39.8 | | 10.6 | 166 | 29.5 | 15.7 | 6 | 07.2 | 10.9 | 54.2 | 10 43 | 22 56 | 24 32 | 02 27 | |
| 17 | 73 | 39.7 | | 10.2 | 181 | 04.2 | 15.8 | 6 | 18.1 | 10.8 | 54.2 | 10 55 | 22 57 | 24 35 | 02 34 | |
| 18 | 88 | 39.6 | N22 | 09.9 | 195 | 39.0 | 15.7 | N 6 | 28.9 | 10.8 | 54.2 | 11 07 | 22 58 | 24 38 | 02 41 | |
| 19 | 103 | 39.5 | | 09.6 | 210 | 13.7 | 15.7 | 6 | 39.7 | 10.7 | 54.2 | 11 19 | 22 59 | 24 41 | 02 48 | |
| 20 | 118 | 39.4 | | 09.3 | 224 | 48.4 | 15.7 | 6 | 50.4 | 10.7 | 54.2 | 11 31 | 23 00 | 24 44 | 02 55 | |
| 21 | 133 | 39.4 | | 08.9 | 239 | 23.1 | 15.6 | 7 | 01.1 | 10.7 | 54.2 | 11 43 | 23 01 | 24 47 | 03 02 | |
| 22 | 148 | 39.3 | | 08.6 | 253 | 57.7 | 15.7 | 7 | 11.8 | 10.7 | 54.2 | 11 55 | 23 02 | 24 50 | 03 09 | |
| 23 | 163 | 39.2 | | 08.3 | 268 | 32.4 | 15.6 | 7 | 22.5 | 10.7 | 54.2 | 12 07 | 23 03 | 24 53 | 03 16 | |
| 11 00 | 178 | 39.1 | N22 | 07.9 | 283 | 07.0 | 15.6 | N 7 | 33.2 | 10.6 | 54.2 | 12 19 | 23 04 | 24 56 | 03 23 | |
| 01 | 193 | 39.0 | | 07.6 | 297 | 41.6 | 15.5 | 7 | 43.8 | 10.6 | 54.2 | 12 31 | 23 05 | 24 59 | 03 30 | |
| 02 | 208 | 38.9 | | 07.3 | 312 | 16.1 | 15.5 | 7 | 54.4 | 10.6 | 54.3 | 12 43 | 23 06 | 25 02 | 03 37 | |
| 03 | 223 | 38.9 | | 07.0 | 326 | 50.6 | 15.5 | 8 | 05.0 | 10.5 | 54.3 | 12 55 | 23 07 | 25 05 | 03 44 | |
| 04 | 238 | 38.8 | | 06.6 | 341 | 25.1 | 15.5 | 8 | 15.5 | 10.5 | 54.3 | 13 07 | 23 08 | 25 08 | 03 51 | |
| 05 | 253 | 38.7 | | 06.3 | 355 | 59.6 | 15.4 | 8 | 26.0 | 10.5 | 54.3 | 13 19 | 23 09 | 25 11 | 03 58 | |
| 06 | 268 | 38.6 | N22 | 06.0 | 10 | 34.0 | 15.5 | N 8 | 36.5 | 10.4 | 54.3 | 13 31 | 23 10 | 25 14 | 04 05 | |
| 07 | 283 | 38.5 | | 05.6 | 25 | 08.5 | 15.3 | 8 | 46.9 | 10.4 | 54.3 | 13 43 | 23 11 | 25 17 | 04 12 | |
| 08 | 298 | 38.4 | | 05.3 | 39 | 42.8 | 15.4 | 8 | 57.3 | 10.4 | 54.3 | 13 55 | 23 12 | 25 20 | 04 19 | |
| 09 | 313 | 38.3 | | 05.0 | 54 | 17.2 | 15.3 | 9 | 07.7 | 10.3 | 54.3 | 14 07 | 23 13 | 25 23 | 04 26 | |
| 10 | 328 | 38.3 | | 04.6 | 68 | 51.5 | 15.3 | 9 | 18.0 | 10.3 | 54.3 | 14 19 | 23 14 | 25 26 | 04 33 | |
| 11 | 343 | 38.2 | | 04.3 | 83 | 25.8 | 15.2 | 9 | 28.3 | 10.3 | 54.3 | 14 31 | 23 15 | 25 29 | 04 40 | |
| 12 | 358 | 38.1 | N22 | 04.0 | 98 | 00.0 | 15.2 | N 9 | 38.6 | 10.2 | 54.3 | 14 43 | 23 16 | 25 32 | 04 47 | |
| 13 | 13 | 38.0 | | 03.6 | 112 | 34.2 | 15.2 | 9 | 48.8 | 10.2 | 54.3 | 14 55 | 23 17 | 25 35 | 04 54 | |
| 14 | 28 | 37.9 | | 03.3 | 127 | 08.4 | 15.1 | 9 | 59.0 | 10.2 | 54.3 | 15 07 | 23 18 | 25 38 | 05 01 | |
| 15 | 43 | 37.9 | | 02.9 | 141 | 42.5 | 15.1 | 10 | 09.2 | 10.1 | 54.3 | 15 19 | 23 19 | 25 41 | 05 08 | |
| 16 | 58 | 37.8 | | 02.6 | 156 | 16.6 | 15.0 | 10 | 19.3 | 10.1 | 54.3 | 15 31 | 23 20 | 25 44 | 05 15 | |
| 17 | 73 | 37.7 | | 02.3 | 170 | 50.6 | 15.1 | 10 | 29.4 | 10.0 | 54.4 | 15 43 | 23 21 | 25 47 | 05 22 | |
| 18 | 88 | 37.6 | N22 | 01.9 | 185 | 24.7 | 14.9 | N10 | 39.4 | 10.1 | 54.4 | 15 55 | 23 22 | 25 50 | 05 29 | |
| 19 | 103 | 37.5 | | 01.6 | 199 | 58.6 | 15.0 | 10 | 49.5 | 9.9 | 54.4 | 16 07 | 23 23 | 25 53 | 05 36 | |
| 20 | 118 | 37.4 | | 01.2 | 214 | 32.6 | 14.8 | 10 | 59.4 | 9.9 | 54.4 | 16 19 | 23 24 | 25 56 | 05 43 | |
| 21 | 133 | 37.4 | | 00.9 | 229 | 06.4 | 14.9 | 11 | 09.3 | 9.9 | 54.4 | 16 31 | 23 25 | 25 59 | 05 50 | |
| 22 | 148 | 37.3 | | 00.6 | 243 | 40.3 | 14.8 | 11 | 19.2 | 9.9 | 54.4 | 16 43 | 23 26 | 26 02 | 05 57 | |
| 23 | 163 | 37.2 | | 00.2 | 258 | 14.1 | 14.7 | 11 | 29.1 | 9.8 | 54.4 | 16 55 | 23 27 | 26 05 | 06 04 | |
| | S.D. | 15.8 | d | 0.3 | S.D. | 14.8 | 14.8 | 14.8 | | | | | | | | |

| Día | SOL | | LUNA | | | | Edad | Fase |
|-----|----------|-------|-----------|-----------|-------|------|------|------|
| | E.T. (-) | | Pas. Mer. | Pas. Mer. | | Edad | | |
| | 00 h | 12 h | | Sup. | Inf. | | | |
| 19 | 05 31 | 05 35 | h m | h m | h m | d | ☾ | |
| 20 | 05 16 | 05 19 | 12 05 | 03 54 | 16 14 | 19 | | |
| 21 | 05 05 | 05 11 | | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.1 | | MARTE +1.6 | | JUPITER -1.9 | | SATURNO +0.6 | | ESTRELLAS | | |
|-------------|----------|------------|----------|------------|----------|--------------|----------|--------------|----------|-----------|----------|----------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| d h | | | | | | | | | | | | |
| 12 00 | 289 54.1 | 224 47.2 | N18 51.2 | 127 06.8 | N 8 19.2 | 102 51.2 | S 1 40.1 | 317 44.6 | S12 59.1 | Acamar | 315 29.8 | S40 19.6 |
| 01 | 304 56.6 | 239 46.8 | 51.7 | 142 07.9 | 18.6 | 117 53.4 | 40.2 | 332 47.2 | 59.2 | Achernar | 335 37.8 | S57 15.8 |

| T.M.G. (TU) | ARIES | VENUS -4.1 | | MARTE +1.6 | | JUPITER -1.9 | | SATURNO +0.5 | | ESTRELLAS | | |
|-------------|----------|------------|----------|------------|----------|--------------|----------|--------------|----------|-------------|----------|----------|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. |
| d h | | | | | | | | | | | | |
| 15 00 | 292 51.5 | 224 18.6 | N19 27.7 | 128 24.5 | N 7 36.0 | 105 30.1 | S 1 48.8 | 320 50.5 | S13 02.8 | Acamar | 315 29.8 | S40 19.5 |
| 01 | 307 54.0 | 239 18.2 | 28.2 | 143 25.6 | 35.4 | 120 32.3 | 48.9 | 335 53.1 | 02.8 | Achernar | 335 37.8 | S57 15.8 |
| 02 | 322 56.4 | 254 17.8 | 28.7 | 158 26.7 | 34.8 | 135 34.5 | 49.0 | 350 55.7 | 02.9 | Acrux | 173 26.2 | S63 04.2 |
| 03 | 337 58.9 | 269 17.4 | 29.2 | 173 27.7 | 34.2 | 150 36.7 | 49.2 | 5 58.3 | 02.9 | Adhara | 255 24.6 | S28 57.8 |
| 04 | 353 01.4 | 284 16.9 | 29.7 | 188 28.8 | 33.6 | 165 38.9 | 49.3 | 21 00.8 | 03.0 | Aldebaran | 291 06.7 | N16 29.8 |
| 05 | 8 03.8 | 299 16.5 | 30.1 | 203 29.9 | 33.0 | 180 41.0 | 49.4 | 36 03.4 | 03.0 | | | |
| 06 | 23 06.3 | 314 16.1 | N19 30.6 | 218 31.0 | N 7 32.4 | 195 43.2 | S 1 49.5 | 51 06.0 | S13 03.1 | Alioth | 166 33.8 | N55 59.9 |
| 07 | 38 08.8 | 329 15.7 | 31.1 | 233 32.1 | 31.8 | 210 45.4 | 49.7 | 66 08.6 | 03.2 | Alkaid | 153 10.5 | N49 20.9 |
| 08 | 53 11.2 | 344 15.3 | 31.6 | 248 33.1 | 31.2 | 225 47.6 | 49.8 | 81 11.2 | 03.2 | Al Na'ir | 28 01.9 | S46 59.2 |
| J 09 | 68 13.7 | 359 14.8 | 32.1 | 263 34.2 | 30.6 | 240 49.8 | 49.9 | 96 13.8 | 03.3 | Alnilam | 276 01.8 | S 1 12.3 |
| U 10 | 83 16.1 | 14 14.4 | 32.5 | 278 35.3 | 30.0 | 255 52.0 | 50.0 | 111 16.4 | 03.3 | Alphard | 218 11.0 | S 8 37.9 |
| E 11 | 98 18.6 | 29 14.0 | 33.0 | 293 36.4 | 29.4 | 270 54.2 | 50.2 | 126 19.0 | 03.4 | | | |
| V 12 | 113 21.1 | 44 13.6 | N19 33.5 | 308 37.4 | N 7 28.8 | 285 56.4 | S 1 50.3 | 141 21.5 | S13 03.4 | Alphecca | 126 23.4 | N26 44.3 |
| E 13 | 128 23.5 | 59 13.1 | 34.0 | 323 38.5 | 28.2 | 300 58.6 | 50.4 | 156 24.1 | 03.5 | Alpheratz | 357 58.8 | N29 03.3 |
| S 14 | 143 26.0 | 74 12.7 | 34.4 | 338 39.6 | 27.6 | 316 00.8 | 50.5 | 171 26.7 | 03.5 | Altair | 62 22.4 | N 8 51.2 |
| 15 | 158 28.5 | 89 12.3 | 34.9 | 353 40.7 | 27.0 | 331 03.0 | 50.7 | 186 29.3 | 03.6 | Ankaa | 353 30.2 | S42 20.1 |
| 16 | 173 30.9 | 104 11.9 | 35.4 | 8 41.7 | 26.3 | 346 05.2 | 50.8 | 201 31.9 | 03.6 | Antares | 112 44.3 | S26 25.1 |
| 17 | 188 33.4 | 119 11.4 | 35.9 | 23 42.8 | 25.7 | 1 07.4 | 50.9 | 216 34.5 | 03.7 | | | |
| 18 | 203 35.9 | 134 11.0 | N19 36.3 | 38 43.9 | N 7 25.1 | 16 09.6 | S 1 51.0 | 231 37.1 | S13 03.7 | Arcturus | 146 09.2 | N19 13.1 |
| 19 | 218 38.3 | 149 10.6 | 36.8 | 53 45.0 | 24.5 | 31 11.8 | 51.2 | 246 39.7 | 03.8 | Atria | 107 59.0 | S69 01.2 |
| 20 | 233 40.8 | 164 10.1 | 37.3 | 68 46.0 | 23.9 | 46 14.0 | 51.3 | 261 42.3 | 03.8 | Avior | 234 24.7 | S59 29.5 |
| 21 | 248 43.3 | 179 09.7 | 37.8 | 83 47.1 | 23.3 | 61 16.2 | 51.4 | 276 44.8 | 03.9 | Bellatrix | 278 48.3 | N 6 20.6 |
| 22 | 263 45.7 | 194 09.3 | 38.2 | 98 48.2 | 22.7 | 76 18.4 | 51.5 | 291 47.4 | 03.9 | Betelgeuse | 271 17.7 | N 7 24.4 |
| 23 | 278 48.2 | 209 08.9 | 38.7 | 113 49.3 | 22.1 | 91 20.6 | 51.7 | 306 50.0 | 04.0 | | | |
| 16 00 | 293 50.6 | 224 08.4 | N19 39.2 | 128 50.4 | N 7 21.5 | 106 22.8 | S 1 51.8 | 321 52.6 | S13 04.1 | Canopus | 264 03.3 | S52 41.5 |
| 01 | 308 53.1 | 239 08.0 | 39.6 | 143 51.4 | 20.9 | 121 25.0 | 51.9 | 336 55.2 | 04.1 | Capella | 280 56.8 | N45 59.4 |
| 02 | 323 55.6 | 254 07.6 | 40.1 | 158 52.5 | 20.3 | 136 27.1 | 52.0 | 351 57.8 | 04.2 | Deneb | 49 41.2 | N45 15.5 |
| 03 | 338 58.0 | 269 07.1 | 40.6 | 173 53.6 | 19.7 | 151 29.3 | 52.2 | 7 00.4 | 04.2 | Denebola | 182 48.9 | N14 36.5 |
| 04 | 354 00.5 | 284 06.7 | 41.0 | 188 54.7 | 19.1 | 166 31.5 | 52.3 | 22 03.0 | 04.3 | Diphda | 349 10.7 | S18 01.1 |
| 05 | 9 03.0 | 299 06.3 | 41.5 | 203 55.7 | 18.5 | 181 33.7 | 52.4 | 37 05.6 | 04.3 | | | |
| 06 | 24 05.4 | 314 05.8 | N19 42.0 | 218 56.8 | N 7 17.9 | 196 35.9 | S 1 52.5 | 52 08.1 | S13 04.4 | Dubhe | 194 10.2 | N61 47.3 |
| 07 | 39 07.9 | 329 05.4 | 42.4 | 233 57.9 | 17.3 | 211 38.1 | 52.7 | 67 10.7 | 04.4 | Elnath | 278 31.8 | N28 36.1 |
| 08 | 54 10.4 | 344 04.9 | 42.9 | 248 59.0 | 16.7 | 226 40.3 | 52.8 | 82 13.3 | 04.5 | Eltanin | 90 52.6 | N51 29.6 |
| V 09 | 69 12.8 | 359 04.5 | 43.3 | 264 00.0 | 16.1 | 241 42.5 | 52.9 | 97 15.9 | 04.5 | Enif | 34 01.4 | N 9 50.9 |
| I 10 | 84 15.3 | 14 04.1 | 43.8 | 279 01.1 | 15.4 | 256 44.7 | 53.1 | 112 18.5 | 04.6 | Fomalhaut | 15 40.1 | S29 39.1 |
| E 11 | 99 17.8 | 29 03.6 | 44.3 | 294 02.2 | 14.8 | 271 46.9 | 53.2 | 127 21.1 | 04.6 | | | |
| R 12 | 114 20.2 | 44 03.2 | N19 44.7 | 309 03.3 | N 7 14.2 | 286 49.1 | S 1 53.3 | 142 23.7 | S13 04.7 | Gacrux | 172 17.7 | S57 05.0 |
| N 13 | 129 22.7 | 59 02.8 | 45.2 | 324 04.3 | 13.6 | 301 51.3 | 53.4 | 157 26.3 | 04.7 | Gienah | 176 07.7 | S17 30.5 |
| E 14 | 144 25.1 | 74 02.3 | 45.6 | 339 05.4 | 13.0 | 316 53.4 | 53.6 | 172 28.9 | 04.8 | Hadar | 149 09.0 | S60 20.9 |
| S 15 | 159 27.6 | 89 01.9 | 46.1 | 354 06.5 | 12.4 | 331 55.6 | 53.7 | 187 31.5 | 04.9 | Hamal | 328 17.6 | N23 25.9 |
| 16 | 174 30.1 | 104 01.4 | 46.6 | 9 07.6 | 11.8 | 346 57.8 | 53.8 | 202 34.1 | 04.9 | Kaus Aust. | 84 03.1 | S34 23.2 |
| 17 | 189 32.5 | 119 01.0 | 47.0 | 24 08.6 | 11.2 | 2 00.0 | 53.9 | 217 36.6 | 05.0 | | | |
| 18 | 204 35.0 | 134 00.6 | N19 47.5 | 39 09.7 | N 7 10.6 | 17 02.2 | S 1 54.1 | 232 39.2 | S13 05.0 | Kochab, | 137 19.0 | N74 11.2 |
| 19 | 219 37.5 | 149 00.1 | 47.9 | 54 10.8 | 10.0 | 32 04.4 | 54.2 | 247 41.8 | 05.1 | Markab | 13 52.9 | N15 10.3 |
| 20 | 234 39.9 | 163 59.7 | 48.4 | 69 11.9 | 09.4 | 47 06.6 | 54.3 | 262 44.4 | 05.1 | Menkar | 314 30.7 | N 4 03.9 |
| 21 | 249 42.4 | 178 59.2 | 48.8 | 84 12.9 | 08.8 | 62 08.8 | 54.5 | 277 47.0 | 05.2 | Menkent | 148 25.1 | S36 20.5 |
| 22 | 264 44.9 | 193 58.8 | 49.3 | 99 14.0 | 08.2 | 77 11.0 | 54.6 | 292 49.6 | 05.2 | Miaplacidus | 221 43.7 | S69 41.7 |
| 23 | 279 47.3 | 208 58.3 | 49.7 | 114 15.1 | 07.5 | 92 13.2 | 54.7 | 307 52.2 | 05.3 | | | |
| 17 00 | 294 49.8 | 223 57.9 | N19 50.2 | 129 16.2 | N 7 06.9 | 107 15.3 | S 1 54.8 | 322 54.8 | S13 05.3 | Mirfak | 309 02.0 | N49 50.2 |
| 01 | 309 52.2 | 238 57.5 | 50.6 | 144 17.2 | 06.3 | 122 17.5 | 55.0 | 337 57.4 | 05.4 | Nunki | 76 16.3 | S26 18.2 |
| 02 | 324 54.7 | 253 57.0 | 51.1 | 159 18.3 | 05.7 | 137 19.7 | 55.1 | 353 00.0 | 05.5 | Peacock | 53 42.0 | S56 45.2 |
| 03 | 339 57.2 | 268 56.6 | 51.5 | 174 19.4 | 05.1 | 152 21.9 | 55.2 | 8 02.6 | 05.5 | Pollux | 243 46.3 | N28 02.5 |
| 04 | 354 59.6 | 283 56.1 | 52.0 | 189 20.5 | 04.5 | 167 24.1 | 55.3 | 23 05.2 | 05.6 | Procyon | 245 15.6 | N 5 14.5 |
| 05 | 10 02.1 | 298 55.7 | 52.4 | 204 21.5 | 03.9 | 182 26.3 | 55.5 | 38 07.8 | 05.6 | | | |
| 06 | 25 04.6 | 313 55.2 | N19 52.9 | 219 22.6 | N 7 03.3 | 197 28.5 | S 1 55.6 | 53 10.3 | S13 05.7 | Rasalhague | 96 19.9 | N12 34.0 |
| 07 | 40 07.0 | 328 54.8 | 53.3 | 234 23.7 | 02.7 | 212 30.7 | 55.7 | 68 12.9 | 05.7 | Regulus | 207 59.6 | N11 59.9 |
| 08 | 55 09.5 | 343 54.3 | 53.8 | 249 24.8 | 02.1 | 227 32.8 | 55.9 | 83 15.5 | 05.8 | Rigel | 281 26.6 | S 8 12.5 |
| S 09 | 70 12.0 | 358 53.9 | 54.2 | 264 25.8 | 01.5 | 242 35.0 | 56.0 | 98 18.1 | 05.8 | Rigel Kent. | 140 11.9 | S60 48.8 |
| A 10 | 85 14.4 | 13 53.4 | 54.7 | 279 26.9 | 00.9 | 257 37.2 | 56.1 | 113 20.7 | 05.9 | Sabik | 102 29.3 | S15 43.0 |
| B 11 | 100 16.9 | 28 53.0 | 55.1 | 294 28.0 | 7 00.3 | 272 39.4 | 56.2 | 128 23.3 | 05.9 | | | |
| A 12 | 115 19.4 | 43 52.5 | N19 55.5 | 309 29.1 | N 6 59.6 | 287 41.6 | S 1 56.4 | 143 25.9 | S13 06.0 | Schedar | 349 57.4 | N56 30.0 |
| D 13 | 130 21.8 | 58 52.1 | 56.0 | 324 30.1 | 59.0 | 302 43.8 | 56.5 | 158 28.5 | 06.0 | Shaula | 96 41.7 | S37 06.0 |
| O 14 | 145 24.3 | 73 51.6 | 56.4 | 339 31.2 | 58.4 | 317 46.0 | 56.6 | 173 31.1 | 06.1 | Sirius | 258 47.1 | S16 42.4 |
| 15 | 160 26.7 | 88 51.2 | 56.9 | 354 32.3 | 57.8 | 332 48.1 | 56.8 | 188 33.7 | 06.2 | Spica | 158 46.9 | S11 07.8 |
| 16 | 175 29.2 | 103 50.7 | 57.3 | 9 33.4 | 57.2 | 347 50.3 | 56.9 | 203 36.3 | 06.2 | Suhail | 223 03.8 | S43 24.6 |
| 17 | 190 31.7 | 118 50.3 | 57.7 | 24 34.4 | 56.6 | 2 52.5 | 57.0 | 218 38.9 | 06.3 | | | |
| 18 | 205 34.1 | 133 49.8 | N19 58.2 | 39 35.5 | N 6 56.0 | 17 54.7 | S 1 57.2 | 233 41.5 | S13 06.3 | Vega | 80 48.6 | N38 46.8 |
| 19 | 220 36.6 | 148 49.4 | 58.6 | 54 36.6 | 55.4 | 32 56.9 | 57.3 | 248 44.1 | 06.4 | Zuben'ubi | 137 21.8 | S16 01.0 |
| 20 | 235 39.1 | 163 48.9 | 59.1 | 69 37.7 | 54.8 | 47 59.1 | 57.4 | 263 46.7 | 06.4 | | | |
| 21 | 250 41.5 | 178 48.4 | 59.5 | 84 38.7 | 54.2 | 63 01.3 | 57.5 | 278 49.2 | 06.5 | | | |
| 22 | 265 44.0 | 193 48.0 | 19 59.9 | 99 39.8 | 53.5 | 78 03.4 | 57.7 | 293 51.8 | 06.5 | | | |
| 23 | 280 46.5 | 208 47.5 | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.1 | | | MARTE +1.6 | | | JUPITER -1.9 | | | SATURNO +0.5 | | | ESTRELLAS | | |
|--|----------|----------|----------|------------|----------|----------|------------|----------|----------|--------------|----------|----------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 18 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 295 48.9 | 223 47.1 | N20 00.8 | 129 41.9 | N 6 52.3 | 108 07.8 | S 1 57.9 | 323 57.0 | S13 06.7 | Acamar | 315 29.7 | S40 19.5 | | | | | | |
| | 310 51.4 | 238 46.6 | 01.2 | 144 43.0 | 51.7 | 123 10.0 | 58.1 | 338 59.6 | 06.7 | Achernar | 335 37.7 | S57 15.8 | | | | | | |
| | 325 53.9 | 253 46.2 | 01.7 | 159 44.1 | 51.1 | 138 12.2 | 58.2 | 354 02.2 | 06.8 | Acruz | 173 26.2 | S63 04.2 | | | | | | |
| | 340 56.3 | 268 45.7 | 02.1 | 174 45.2 | 50.5 | 153 14.4 | 58.3 | 9 04.8 | 06.8 | Adhara | 255 24.6 | S28 57.8 | | | | | | |
| | 355 58.8 | 283 45.2 | 02.5 | 189 46.2 | 49.9 | 168 16.5 | 58.4 | 24 07.4 | 06.9 | Aldebaran | 291 06.7 | N16 29.8 | | | | | | |
| | 11 01.2 | 298 44.8 | 03.0 | 204 47.3 | 49.3 | 183 18.7 | 58.6 | 39 10.0 | 06.9 | | | | | | | | | |
| | 26 03.7 | 313 44.3 | N20 03.4 | 219 48.4 | N 6 48.7 | 198 20.9 | S 1 58.7 | 54 12.6 | S13 07.0 | Alioth | 166 33.8 | N55 59.9 | | | | | | |
| | 41 06.2 | 328 43.9 | 03.8 | 234 49.5 | 48.1 | 213 23.1 | 58.8 | 69 15.2 | 07.0 | Alkaid | 153 10.5 | N49 20.9 | | | | | | |
| | 56 08.6 | 343 43.4 | 04.2 | 249 50.5 | 47.4 | 228 25.3 | 59.0 | 84 17.8 | 07.1 | Al Na'ir | 28 01.9 | S46 59.2 | | | | | | |
| | 71 11.1 | 358 42.9 | 04.7 | 264 51.6 | 46.8 | 243 27.4 | 59.1 | 99 20.4 | 07.2 | Alnilam | 276 01.7 | S 1 12.3 | | | | | | |
| | 86 13.6 | 13 42.5 | 05.1 | 279 52.7 | 46.2 | 258 29.6 | 59.2 | 114 23.0 | 07.2 | Alphard | 218 11.0 | S 8 37.9 | | | | | | |
| | 101 16.0 | 28 42.0 | 05.5 | 294 53.8 | 45.6 | 273 31.8 | 59.4 | 129 25.6 | 07.3 | | | | | | | | | |
| | 116 18.5 | 43 41.5 | N20 06.0 | 309 54.8 | N 6 45.0 | 288 34.0 | S 1 59.5 | 144 28.2 | S13 07.3 | Alphecca | 126 23.4 | N26 44.3 | | | | | | |
| | 131 21.0 | 58 41.1 | 06.4 | 324 55.9 | 44.4 | 303 36.2 | 59.6 | 159 30.8 | 07.4 | Alpheratz | 357 58.8 | N29 03.3 | | | | | | |
| | 146 23.4 | 73 40.6 | 06.8 | 339 57.0 | 43.8 | 318 38.4 | 59.8 | 174 33.4 | 07.4 | Altair | 62 22.4 | N 8 51.2 | | | | | | |
| | 161 25.9 | 88 40.1 | 07.2 | 354 58.0 | 43.2 | 333 40.5 | 1 59.9 | 189 36.0 | 07.5 | Ankaa | 353 30.2 | S42 20.1 | | | | | | |
| | 176 28.3 | 103 39.7 | 07.6 | 9 59.1 | 42.6 | 348 42.7 | 2 00.0 | 204 38.6 | 07.5 | Antares | 112 44.3 | S26 25.1 | | | | | | |
| | 191 30.8 | 118 39.2 | 08.1 | 25 00.2 | 41.9 | 3 44.9 | 00.1 | 219 41.2 | 07.6 | | | | | | | | | |
| | 206 33.3 | 133 38.7 | N20 08.5 | 40 01.3 | N 6 41.3 | 18 47.1 | S 2 00.3 | 234 43.8 | S13 07.7 | Arcturus | 146 09.2 | N19 13.1 | | | | | | |
| | 221 35.7 | 148 38.3 | 08.9 | 55 02.3 | 40.7 | 33 49.3 | 00.4 | 249 46.4 | 07.7 | Atria | 107 59.0 | S69 01.2 | | | | | | |
| | 236 38.2 | 163 37.8 | 09.3 | 70 03.4 | 40.1 | 48 51.4 | 00.5 | 264 49.0 | 07.8 | Avior | 234 24.7 | S59 29.5 | | | | | | |
| | 251 40.7 | 178 37.3 | 09.7 | 85 04.5 | 39.5 | 63 53.6 | 00.7 | 279 51.6 | 07.8 | Bellatrix | 278 48.2 | N 6 20.7 | | | | | | |
| | 266 43.1 | 193 36.9 | 10.2 | 100 05.6 | 38.9 | 78 55.8 | 00.8 | 294 54.2 | 07.9 | Betelgeuse | 271 17.7 | N 7 24.4 | | | | | | |
| 281 45.6 | 208 36.4 | 10.6 | 115 06.6 | 38.3 | 93 58.0 | 00.9 | 309 56.7 | 07.9 | | | | | | | | | | |
| 19 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 296 48.1 | 223 35.9 | N20 11.0 | 130 07.7 | N 6 37.7 | 109 00.2 | S 2 01.1 | 324 59.3 | S13 08.0 | Canopus | 264 03.2 | S52 41.5 | | | | | | |
| | 311 50.5 | 238 35.5 | 11.4 | 145 08.8 | 37.0 | 124 02.3 | 01.2 | 340 01.9 | 08.0 | Capella | 280 56.8 | N45 59.4 | | | | | | |
| | 326 53.0 | 253 35.0 | 11.8 | 160 09.8 | 36.4 | 139 04.5 | 01.3 | 355 04.5 | 08.1 | Deneb | 49 41.2 | N45 15.5 | | | | | | |
| | 341 55.5 | 268 34.5 | 12.2 | 175 10.9 | 35.8 | 154 06.7 | 01.5 | 10 07.1 | 08.2 | Denebola | 182 48.9 | N14 36.5 | | | | | | |
| | 356 57.9 | 283 34.0 | 12.7 | 190 12.0 | 35.2 | 169 08.9 | 01.6 | 25 09.7 | 08.2 | Diphda | 349 10.7 | S18 01.1 | | | | | | |
| | 12 00.4 | 298 33.6 | 13.1 | 205 13.1 | 34.6 | 184 11.0 | 01.7 | 40 12.3 | 08.3 | | | | | | | | | |
| | 27 02.8 | 313 33.1 | N20 13.5 | 220 14.1 | N 6 34.0 | 199 13.2 | S 2 01.9 | 55 14.9 | S13 08.3 | Dubhe | 194 10.2 | N61 47.3 | | | | | | |
| | 42 05.3 | 328 32.6 | 13.9 | 235 15.2 | 33.4 | 214 15.4 | 02.0 | 70 17.5 | 08.4 | Elmath | 278 31.7 | N28 36.1 | | | | | | |
| | 57 07.8 | 343 32.1 | 14.3 | 250 16.3 | 32.8 | 229 17.6 | 02.1 | 85 20.1 | 08.4 | Eltanin | 90 52.6 | N51 29.6 | | | | | | |
| | 72 10.2 | 358 31.7 | 14.7 | 265 17.4 | 32.1 | 244 19.8 | 02.3 | 100 22.7 | 08.5 | Enif | 34 01.4 | N 9 50.9 | | | | | | |
| | 87 12.7 | 13 31.2 | 15.1 | 280 18.4 | 31.5 | 259 21.9 | 02.4 | 115 25.3 | 08.5 | Fomalhaut | 15 40.1 | S29 39.1 | | | | | | |
| | 102 15.2 | 28 30.7 | 15.5 | 295 19.5 | 30.9 | 274 24.1 | 02.5 | 130 27.9 | 08.6 | | | | | | | | | |
| | 117 17.6 | 43 30.2 | N20 15.9 | 310 20.6 | N 6 30.3 | 289 26.3 | S 2 02.7 | 145 30.5 | S13 08.7 | Gacrux | 172 17.7 | S57 05.0 | | | | | | |
| | 132 20.1 | 58 29.8 | 16.3 | 325 21.6 | 29.7 | 304 28.5 | 02.8 | 160 33.1 | 08.7 | Gienah | 176 07.7 | S17 30.5 | | | | | | |
| | 147 22.6 | 73 29.3 | 16.7 | 340 22.7 | 29.1 | 319 30.6 | 02.9 | 175 35.7 | 08.8 | Hadar | 149 09.0 | S60 20.9 | | | | | | |
| | 162 25.0 | 88 28.8 | 17.1 | 355 23.8 | 28.5 | 334 32.8 | 03.1 | 190 38.3 | 08.8 | Hamal | 328 17.6 | N23 25.9 | | | | | | |
| | 177 27.5 | 103 28.3 | 17.6 | 10 24.9 | 27.8 | 349 35.0 | 03.2 | 205 40.9 | 08.9 | Kaus Aust. | 84 03.1 | S34 23.2 | | | | | | |
| | 192 30.0 | 118 27.9 | 18.0 | 25 25.9 | 27.2 | 4 37.2 | 03.3 | 220 43.5 | 08.9 | | | | | | | | | |
| | 207 32.4 | 133 27.4 | N20 18.4 | 40 27.0 | N 6 26.6 | 19 39.3 | S 2 03.4 | 235 46.1 | S13 09.0 | Kochab | 137 19.0 | N74 11.2 | | | | | | |
| | 222 34.9 | 148 26.9 | 18.8 | 55 28.1 | 26.0 | 34 41.5 | 03.6 | 250 48.7 | 09.1 | Markab | 13 52.9 | N15 10.3 | | | | | | |
| | 237 37.3 | 163 26.4 | 19.2 | 70 29.1 | 25.4 | 49 43.7 | 03.7 | 265 51.3 | 09.1 | Menkar | 314 30.7 | N 4 04.0 | | | | | | |
| | 252 39.8 | 178 25.9 | 19.6 | 85 30.2 | 24.8 | 64 45.9 | 03.8 | 280 53.9 | 09.2 | Menkent | 148 25.1 | S36 20.5 | | | | | | |
| | 267 42.3 | 193 25.5 | 20.0 | 100 31.3 | 24.2 | 79 48.0 | 04.0 | 295 56.5 | 09.2 | Miaplacidus | 221 43.7 | S69 41.7 | | | | | | |
| 282 44.7 | 208 25.0 | 20.4 | 115 32.4 | 23.5 | 94 50.2 | 04.1 | 310 59.1 | 09.3 | | | | | | | | | | |
| 20 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 297 47.2 | 223 24.5 | N20 20.8 | 130 33.4 | N 6 22.9 | 109 52.4 | S 2 04.2 | 326 01.7 | S13 09.3 | Mirfak | 309 01.9 | N49 50.2 | | | | | | |
| | 312 49.7 | 238 24.0 | 21.2 | 145 34.5 | 22.3 | 124 54.6 | 04.4 | 341 04.3 | 09.4 | Nunki | 76 16.3 | S26 18.2 | | | | | | |
| | 327 52.1 | 253 23.5 | 21.6 | 160 35.6 | 21.7 | 139 56.7 | 04.5 | 356 06.9 | 09.5 | Peacock | 53 41.9 | S56 45.2 | | | | | | |
| | 342 54.6 | 268 23.0 | 21.9 | 175 36.6 | 21.1 | 154 58.9 | 04.7 | 11 09.5 | 09.5 | Pollux | 243 46.2 | N28 02.5 | | | | | | |
| | 357 57.1 | 283 22.6 | 22.3 | 190 37.7 | 20.5 | 170 01.1 | 04.8 | 26 12.1 | 09.6 | Procyon | 245 15.6 | N 5 14.5 | | | | | | |
| | 12 59.5 | 298 22.1 | 22.7 | 205 38.8 | 19.9 | 185 03.3 | 04.9 | 41 14.7 | 09.6 | | | | | | | | | |
| | 28 02.0 | 313 21.6 | N20 23.1 | 220 39.9 | N 6 19.2 | 200 05.4 | S 2 05.1 | 56 17.3 | S13 09.7 | Rasalhague | 96 19.9 | N12 34.0 | | | | | | |
| | 43 04.5 | 328 21.1 | 23.5 | 235 40.9 | 18.6 | 215 07.6 | 05.2 | 71 19.9 | 09.7 | Regulus | 207 59.6 | N11 59.9 | | | | | | |
| | 58 06.9 | 343 20.6 | 23.9 | 250 42.0 | 18.0 | 230 09.8 | 05.3 | 86 22.5 | 09.8 | Rigel | 281 26.6 | S 8 12.5 | | | | | | |
| | 73 09.4 | 358 20.1 | 24.3 | 265 43.1 | 17.4 | 245 11.9 | 05.5 | 101 25.1 | 09.9 | Rigil Kent. | 140 11.9 | S60 48.8 | | | | | | |
| | 88 11.8 | 13 19.6 | 24.7 | 280 44.1 | 16.8 | 260 14.1 | 05.6 | 116 27.7 | 09.9 | Sabik | 102 29.3 | S15 43.0 | | | | | | |
| | 103 14.3 | 28 19.1 | 25.1 | 295 45.2 | 16.2 | 275 16.3 | 05.7 | 131 30.3 | 10.0 | | | | | | | | | |
| | 118 16.8 | 43 18.7 | N20 25.5 | 310 46.3 | N 6 15.5 | 290 18.5 | S 2 05.9 | 146 32.9 | S13 10.0 | Schedar | 349 57.4 | N56 30.0 | | | | | | |
| | 133 19.2 | 58 18.2 | 25.9 | 325 47.4 | 14.9 | 305 20.6 | 06.0 | 161 35.5 | 10.1 | Shaula | 96 41.7 | S37 06.0 | | | | | | |
| | 148 21.7 | 73 17.7 | 26.2 | 340 48.4 | 14.3 | 320 22.8 | 06.1 | 176 38.1 | 10.1 | Sirius | 258 47.1 | S16 42.4 | | | | | | |
| | 163 24.2 | 88 17.2 | 26.6 | 355 49.5 | 13.7 | 335 25.0 | 06.3 | 191 40.7 | 10.2 | Spica | 158 47.0 | S11 07.8 | | | | | | |
| | 178 26.6 | 103 16.7 | 27.0 | 10 50.6 | 13.1 | 350 27.1 | 06.4 | 206 43.3 | 10.3 | Suhail | 223 03.8 | S43 24.5 | | | | | | |
| | 193 29.1 | 118 16.2 | 27.4 | 25 51.6 | 12.5 | 5 29.3 | 06.5 | 221 45.9 | 10.3 | | | | | | | | | |
| | 208 31.6 | 133 15.7 | N20 27.8 | 40 52.7 | N 6 11.8 | 20 31.5 | S 2 06.7 | 236 48.6 | S13 10.4 | Vega | 80 48.6 | N38 46.8 | | | | | | |
| | 223 34.0 | 148 15.2 | 28.2 | 55 53.8 | 11.2 | 35 33.7 | 06.8 | 251 51.2 | 10.4 | Zuben'ubi | 137 21.8 | S16 01.0 | | | | | | |
| | 238 36.5 | 163 14.7 | 28.6 | 70 54.8 | 10.6 | 50 35.8 | 06.9 | 266 53.8 | 10.5 | | | | | | | | | |
| | 253 38.9 | 178 14.2 | 28.9 | 85 55.9 | 10.0 | 65 38.0 | 07.1 | 281 56.4 | 10.5 | | | | | | | | | |
| | 268 41.4 | 193 13.7 | 29.3 | 100 57.0 | 09.4 | 80 40.2 | 07.2 | 296 59.0 | 10.6 | | | | | | | | | |
| 283 43.9 | 208 13.2 | 29.7 | 11 | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | |
|----------------|----------|----------|----------|----------|----------|----------|------|------------|-----------------|-----------------|-----------|------------|-----------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 18 | 19 | 20 | 21 | |
| | | | | | | | | | | | | | | | | h |
| DOMINGO | 18 00 | 178 27.7 | N21 03.6 | 199 12.0 | 6.9 | N21 08.7 | 4.4 | 58.2 | N 72 | □ | □ | □ | □ | □ | 03 07 | 05 34 |
| | 01 | 193 27.6 | 03.2 | 213 37.9 | 6.9 | 21 04.3 | 4.6 | 58.3 | N 70 | □ | □ | □ | □ | 01 15 | 03 40 | 05 49 |
| | 02 | 208 27.6 | 02.7 | 228 03.8 | 6.9 | 20 59.7 | 4.7 | 58.3 | 68 | /// | /// | 00 45 | 26 02 | 02 02 | 04 03 | 06 02 |
| | 03 | 223 27.5 | 02.3 | 242 29.7 | 6.9 | 20 55.0 | 4.9 | 58.3 | 66 | /// | /// | 01 52 | 00 48 | 02 32 | 04 22 | 06 12 |
| | 04 | 238 27.5 | 01.9 | 256 55.6 | 6.9 | 20 50.1 | 4.9 | 58.4 | 64 | /// | /// | 02 27 | 01 20 | 02 54 | 04 36 | 06 20 |
| | 05 | 253 27.4 | 01.4 | 271 21.5 | 6.9 | 20 45.2 | 5.1 | 58.4 | 62 | /// | 01 15 | 02 52 | 01 44 | 03 12 | 04 48 | 06 27 |
| | 06 | 268 27.4 | N21 01.0 | 285 47.4 | 6.9 | N20 40.1 | 5.3 | 58.4 | 60 | /// | 01 58 | 03 11 | 02 03 | 03 27 | 04 59 | 06 33 |
| | 07 | 283 27.3 | 00.5 | 300 13.3 | 6.9 | 20 34.8 | 5.4 | 58.4 | N 58 | /// | 02 25 | 03 27 | 02 19 | 03 40 | 05 08 | 06 39 |
| | 08 | 298 27.3 | 21 00.1 | 314 39.2 | 6.9 | 20 29.4 | 5.5 | 58.5 | 56 | 01 09 | 02 47 | 03 41 | 02 32 | 03 50 | 05 16 | 06 43 |
| | 09 | 313 27.2 | 20 59.7 | 329 05.1 | 7.0 | 20 23.9 | 5.6 | 58.5 | 54 | 01 48 | 03 04 | 03 53 | 02 43 | 04 00 | 05 23 | 06 48 |
| | 10 | 328 27.2 | 59.2 | 343 31.1 | 6.9 | 20 18.3 | 5.8 | 58.5 | 52 | 02 14 | 03 18 | 04 03 | 02 54 | 04 08 | 05 29 | 06 51 |
| | 11 | 343 27.1 | 58.8 | 357 57.0 | 6.9 | 20 12.5 | 5.9 | 58.6 | 50 | 02 34 | 03 31 | 04 12 | 03 03 | 04 16 | 05 34 | 06 55 |
| | 12 | 358 27.1 | N20 58.3 | 12 22.9 | 6.9 | N20 06.6 | 6.1 | 58.6 | 45 | 03 10 | 03 56 | 04 31 | 03 22 | 04 32 | 05 46 | 07 03 |
| | 13 | 13 27.0 | 57.9 | 26 48.8 | 7.0 | 20 00.5 | 6.1 | 58.6 | N 40 | 03 36 | 04 15 | 04 47 | 03 38 | 04.45 | 05 56 | 07 09 |
| | 14 | 28 27.0 | 57.4 | 41 14.8 | 6.9 | 19 54.4 | 6.3 | 58.6 | 35 | 03 56 | 04 31 | 05 00 | 03 51 | 04 57 | 06 05 | 07 14 |
| | 15 | 43 26.9 | 57.0 | 55 40.7 | 7.0 | 19 48.1 | 6.5 | 58.7 | 30 | 04 12 | 04 45 | 05 11 | 04 02 | 05 06 | 06 12 | 07 19 |
| | 16 | 58 26.9 | 56.6 | 70 06.7 | 7.0 | 19 41.6 | 6.5 | 58.7 | 20 | 04 38 | 05 07 | 05 31 | 04 22 | 05 23 | 06 25 | 07 27 |
| | 17 | 73 26.9 | 56.1 | 84 32.7 | 7.0 | 19 35.1 | 6.7 | 58.7 | N 10 | 04 58 | 05 25 | 05 47 | 04 39 | 05 38 | 06 37 | 07 34 |
| | 18 | 88 26.8 | N20 55.7 | 98 58.7 | 7.0 | N19 28.4 | 6.8 | 58.8 | 0 | 05 15 | 05 41 | 06 03 | 04 55 | 05 52 | 06 47 | 07 41 |
| | 19 | 103 26.8 | 55.2 | 113 24.7 | 7.0 | 19 21.6 | 7.0 | 58.8 | S 10 | 05 30 | 05 56 | 06 18 | 05 11 | 06 05 | 06 57 | 07 48 |
| | 20 | 118 26.7 | 54.8 | 127 50.7 | 7.1 | 19 14.6 | 7.0 | 58.8 | 20 | 05 44 | 06 11 | 06 34 | 05 28 | 06 20 | 07 09 | 07 55 |
| | 21 | 133 26.7 | 54.3 | 142 16.8 | 7.0 | 19 07.6 | 7.2 | 58.8 | 30 | 05 58 | 06 27 | 06 53 | 05 47 | 06 36 | 07 21 | 08 03 |
| | 22 | 148 26.6 | 53.9 | 156 42.8 | 7.1 | 19 00.4 | 7.3 | 58.9 | 35 | 06 05 | 06 36 | 07 04 | 05 59 | 06 46 | 07 29 | 08 08 |
| 23 | 163 26.6 | 53.4 | 171 08.9 | 7.1 | 18 53.1 | 7.5 | 58.9 | 40 | 06 13 | 06 46 | 07 16 | 06 12 | 06 57 | 07 37 | 08 13 | |
| 19 00 | 178 26.5 | N20 53.0 | 185 35.0 | 7.1 | N18 45.6 | 7.6 | 58.9 | 45 | 06 21 | 06 58 | 07 30 | 06 27 | 07 10 | 07 46 | 08 19 | |
| 01 | 193 26.5 | 52.5 | 200 01.1 | 7.2 | 18 38.0 | 7.6 | 59.0 | S 50 | 06 31 | 07 11 | 07 48 | 06 46 | 07 25 | 07 58 | 08 26 | |
| 02 | 208 26.4 | 52.1 | 214 27.3 | 7.1 | 18 30.4 | 7.9 | 59.0 | 52 | 06 35 | 07 17 | 07 56 | 06 55 | 07 33 | 08 03 | 08 29 | |
| 03 | 223 26.4 | 51.6 | 228 53.4 | 7.2 | 18 22.5 | 7.9 | 59.0 | 54 | 06 40 | 07 24 | 08 05 | 07 05 | 07 41 | 08 09 | 08 33 | |
| 04 | 238 26.4 | 51.2 | 243 19.6 | 7.2 | 18 14.6 | 8.0 | 59.0 | 56 | 06 45 | 07 32 | 08 16 | 07 16 | 07 50 | 08 16 | 08 37 | |
| 05 | 253 26.3 | 50.7 | 257 45.8 | 7.3 | 18 06.6 | 8.2 | 59.1 | 58 | 06 50 | 07 40 | 08 28 | 07 29 | 08 00 | 08 23 | 08 42 | |
| 06 | 268 26.3 | N20 50.2 | 272 12.1 | 7.2 | N17 58.4 | 8.3 | 59.1 | S 60 | 06 56 | 07 49 | 08 42 | 07 44 | 08 12 | 08 31 | 08 47 | |
| 07 | 283 26.2 | 49.8 | 286 38.3 | 7.3 | 17 50.1 | 8.4 | 59.1 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| 08 | 298 26.2 | 49.3 | 301 04.6 | 7.3 | 17 41.7 | 8.6 | 59.1 | | | Civil | Naut. | 18 | 19 | 20 | 21 | |
| 09 | 313 26.1 | 48.9 | 315 30.9 | 7.4 | 17 33.1 | 8.6 | 59.2 | N 72 | □ | □ | □ | □ | 22 18 | 21 46 | 21 24 | |
| 10 | 328 26.1 | 48.4 | 329 57.3 | 7.3 | 17 24.5 | 8.8 | 59.2 | N 70 | □ | □ | □ | 22 12 | 21 43 | 21 28 | 21 16 | |
| 11 | 343 26.1 | 48.0 | 344 23.6 | 7.4 | 17 15.7 | 8.8 | 59.2 | 68 | 23 17 | /// | /// | 21 24 | 21 19 | 21 14 | 21 09 | |
| 12 | 358 26.0 | N20 47.5 | 358 50.0 | 7.5 | N17 06.9 | 9.0 | 59.2 | 66 | 22 17 | /// | /// | 20 53 | 20 59 | 21 02 | 21 03 | |
| 13 | 13 26.0 | 47.1 | 13 16.5 | 7.4 | 16 57.9 | 9.1 | 59.3 | 64 | 21 43 | /// | /// | 20 30 | 20 44 | 20 52 | 20 58 | |
| 14 | 28 25.9 | 46.6 | 27 42.9 | 7.5 | 16 48.8 | 9.2 | 59.3 | 62 | 21 19 | 22 53 | /// | 20 11 | 20 30 | 20 44 | 20 54 | |
| 15 | 43 25.9 | 46.1 | 42 09.4 | 7.5 | 16 39.6 | 9.3 | 59.3 | 60 | 21 00 | 22 12 | /// | 19 56 | 20 19 | 20 37 | 20 51 | |
| 16 | 58 25.9 | 45.7 | 56 35.9 | 7.6 | 16 30.3 | 9.5 | 59.3 | N 58 | 20 44 | 21 45 | /// | 19 43 | 20 10 | 20 30 | 20 47 | |
| 17 | 73 25.8 | 45.2 | 71 02.5 | 7.6 | 16 20.8 | 9.5 | 59.3 | 56 | 20 31 | 21 24 | 23 00 | 19 31 | 20 01 | 20 24 | 20 44 | |
| 18 | 88 25.8 | N20 44.7 | 85 29.1 | 7.6 | N16 11.3 | 9.7 | 59.4 | 54 | 20 19 | 21 07 | 22 22 | 19 21 | 19 53 | 20 19 | 20 42 | |
| 19 | 103 25.7 | 44.3 | 99 55.7 | 7.6 | 16 01.6 | 9.7 | 59.4 | 52 | 20 09 | 20 53 | 21 57 | 19 12 | 19 46 | 20 15 | 20 39 | |
| 20 | 118 25.7 | 43.8 | 114 22.3 | 7.7 | 15 51.9 | 9.9 | 59.4 | 50 | 20 00 | 20 41 | 21 38 | 19 04 | 19 40 | 20 10 | 20 37 | |
| 21 | 133 25.7 | 43.4 | 128 49.0 | 7.7 | 15 42.0 | 9.9 | 59.4 | 45 | 19 41 | 20 16 | 21 02 | 18 47 | 19 27 | 20 01 | 20 32 | |
| 22 | 148 25.6 | 42.9 | 143 15.7 | 7.7 | 15 32.1 | 10.1 | 59.4 | N 40 | 19 25 | 19 57 | 20 36 | 18 33 | 19 16 | 19 53 | 20 28 | |
| 23 | 163 25.6 | 42.4 | 157 42.4 | 7.8 | 15 22.0 | 10.1 | 59.5 | 35 | 19 12 | 19 41 | 20 16 | 18 21 | 19 06 | 19 47 | 20 24 | |
| 20 00 | 178 25.5 | N20 42.0 | 172 09.2 | 7.8 | N15 11.9 | 10.3 | 59.5 | 30 | 19 01 | 19 28 | 20 00 | 18 11 | 18 58 | 19 41 | 20 21 | |
| 01 | 193 25.5 | 41.5 | 186 36.0 | 7.9 | 15 01.6 | 10.3 | 59.5 | 20 | 18 42 | 19 06 | 19 34 | 17 53 | 18 43 | 19 31 | 20 16 | |
| 02 | 208 25.5 | 41.0 | 201 02.9 | 7.9 | 14 51.3 | 10.5 | 59.5 | N 10 | 18 25 | 18 48 | 19 14 | 17 37 | 18 30 | 19 21 | 20 11 | |
| 03 | 223 25.4 | 40.6 | 215 29.8 | 7.9 | 14 40.8 | 10.6 | 59.5 | 0 | 18 10 | 18 32 | 18 58 | 17 22 | 18 18 | 19 13 | 20 06 | |
| 04 | 238 25.4 | 40.1 | 229 56.7 | 7.9 | 14 30.2 | 10.6 | 59.6 | S 10 | 17 55 | 18 17 | 18 43 | 17 07 | 18 06 | 19 04 | 20 01 | |
| 05 | 253 25.4 | 39.6 | 244 23.6 | 8.0 | 14 19.6 | 10.7 | 59.6 | 20 | 17 38 | 18 02 | 18 29 | 16 51 | 17 53 | 18 55 | 19 56 | |
| 06 | 268 25.3 | N20 39.2 | 258 50.6 | 8.0 | N14 08.9 | 10.9 | 59.6 | 30 | 17 20 | 17 46 | 18 15 | 16 33 | 17 38 | 18 44 | 19 50 | |
| 07 | 283 25.3 | 38.7 | 273 17.6 | 8.1 | 13 58.0 | 10.9 | 59.6 | 35 | 17 09 | 17 37 | 18 08 | 16 22 | 17 29 | 18 38 | 19 47 | |
| 08 | 298 25.2 | 38.2 | 287 44.7 | 8.1 | 13 47.1 | 11.0 | 59.6 | 40 | 16 57 | 17 27 | 18 00 | 16 09 | 17 19 | 18 31 | 19 43 | |
| 09 | 313 25.2 | 37.8 | 302 11.8 | 8.1 | 13 36.1 | 11.1 | 59.7 | 45 | 16 43 | 17 15 | 17 52 | 15 54 | 17 07 | 18 22 | 19 39 | |
| 10 | 328 25.2 | 37.3 | 316 38.9 | 8.2 | 13 25.0 | 11.2 | 59.7 | S 50 | 16 25 | 17 02 | 17 42 | 15 36 | 16 53 | 18 12 | 19 33 | |
| 11 | 343 25.1 | 36.8 | 331 06.1 | 8.2 | 13 13.8 | 11.3 | 59.7 | 52 | 16 17 | 16 56 | 17 38 | 15 28 | 16 46 | 18 08 | 19 31 | |
| 12 | 358 25.1 | N20 36.3 | 345 33.3 | 8.2 | N13 02.5 | 11.4 | 59.7 | 54 | 16 08 | 16 49 | 17 33 | 15 18 | 16 38 | 18 02 | 19 28 | |
| 13 | 13 25.1 | 35.9 | 0 00.5 | 8.3 | 12 51.1 | 11.4 | 59.7 | 56 | 15 57 | 16 41 | 17 29 | 15 07 | 16 30 | 17 57 | 19 25 | |
| 14 | 28 25.0 | 35.4 | 14 27.8 | 8.3 | 12 39.7 | 11.5 | 59.7 | 58 | 15 45 | 16 33 | 17 23 | 14 55 | 16 20 | 17 50 | 19 22 | |
| 15 | 43 25.0 | 34.9 | 28 55.1 | 8.4 | 12 28.2 | 11.6 | 59.7 | S 60 | 15 31 | 16 24 | 17 17 | 14 40 | 16 09 | 17 43 | 19 18 | |
| 16 | 58 25.0 | 34.4 | 43 22.5 | 8.3 | 12 16.6 | 11.7 | 59.8 | Día | SOL | | LUNA | | | | | |
| 17 | 73 24.9 | 34.0 | 57 49.8 | 8.5 | 12 04.9 | 11.8 | 59.8 | | E.T. (-) | Pas. Mer. | Pas. Mer. | Mer. Sup. | Mer. Inf. | Edad. | Fase | |
| 18 | 88 24.9 | N20 33.5 | 72 17.3 | 8.4 | N11 53.1 | 11.8 | 59.8 | 18 | 00 ^h | 12 ^h | Mer. | h m | h m | h m | d | |
| 19 | 103 24.9 | 33.0 | 86 44.7 | 8.5 | 11 41.3 | 12.0 | 59.8 | 19 | m s | m s | h m | h m | h m | 23 37 | 28 | |
| 20 | 118 24. | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.1 | | | MARTE +1.6 | | | JUPITER -1.9 | | | SATURNO +0.5 | | | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|----------|----------|--------------|------------|--------------|---------|--------------|----------|--------------|--------------|-------------|--------------|--------------|------|--|-----------|----------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|-----------|--------|--------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|----------|--|-----------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|---|---|---|--|--|--|--|----|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| M I E R C O L E S | 21 00 | 298 46.3 | 223 12.8 N20 | 30.1 | 130 59.1 N 6 | 08.1 | 110 44.5 S 2 | 07.5 | 327 04.2 S13 | 10.7 | Acamar | 315 29.7 S40 | 19.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 313 48.8 | 238 12.3 | 30.5 | 146 00.2 | 07.5 | 125 46.7 | 07.6 | 342 06.8 | 10.8 | Achernar | 335 37.7 S57 | 15.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 328 51.3 | 253 11.8 | 30.8 | 161 01.3 | 06.9 | 140 48.8 | 07.8 | 357 09.4 | 10.8 | Acrux | 173 26.2 S63 | 04.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 343 53.7 | 268 11.3 | 31.2 | 176 02.3 | 06.3 | 155 51.0 | 07.9 | 12 12.0 | 10.9 | Adhara | 255 24.6 S28 | 57.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 358 56.2 | 283 10.8 | 31.6 | 191 03.4 | 05.7 | 170 53.2 | 08.0 | 27 14.6 | 10.9 | Aldebaran | 291 06.7 N16 | 29.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 13 58.7 | 298 10.3 | 32.0 | 206 04.5 | 05.1 | 185 55.3 | 08.2 | 42 17.2 | 11.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 29 01.1 | 313 09.8 N20 | 32.3 | 221 05.5 N 6 | 04.4 | 200 57.5 S 2 | 08.3 | 57 19.8 S13 | 11.1 | Alioth | 166 33.8 N55 | 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 44 03.6 | 328 09.3 | 32.7 | 236 06.6 | 03.8 | 215 59.7 | 08.4 | 72 22.4 | 11.1 | Alkaid | 153 10.6 N49 | 20.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 59 06.1 | 343 08.8 | 33.1 | 251 07.7 | 03.2 | 231 01.8 | 08.6 | 87 25.0 | 11.2 | Al Na'ir | 28 01.9 S46 | 59.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 74 08.5 | 358 08.3 | 33.5 | 266 08.8 | 02.6 | 246 04.0 | 08.7 | 102 27.6 | 11.2 | Alnilam | 276 01.7 S 1 | 12.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 89 11.0 | 13 07.8 | 33.8 | 281 09.8 | 02.0 | 261 06.2 | 08.8 | 117 30.2 | 11.3 | Alphard | 218 11.0 S 8 | 37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 104 13.4 | 28 07.3 | 34.2 | 296 10.9 | 01.4 | 276 08.3 | 09.0 | 132 32.8 | 11.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 119 15.9 | 43 06.8 N20 | 34.6 | 311 12.0 N 6 | 00.7 | 291 10.5 S 2 | 09.1 | 147 35.4 S13 | 11.4 | Alphecca | 126 23.4 N26 | 44.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 134 18.4 | 58 06.3 | 34.9 | 326 13.0 | 00.1 | 306 12.7 | 09.2 | 162 38.0 | 11.5 | Alpheratz | 357 58.7 N29 | 03.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 149 20.8 | 73 05.8 | 35.3 | 341 14.1 | 5 59.5 | 321 14.8 | 09.4 | 177 40.6 | 11.5 | Altair | 62 22.4 N 8 | 51.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 164 23.3 | 88 05.3 | 35.7 | 356 15.2 | 58.9 | 336 17.0 | 09.5 | 192 43.2 | 11.6 | Ankaa | 353 30.1 S42 | 20.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 179 25.8 | 103 04.8 | 36.0 | 11 16.2 | 58.3 | 351 19.2 | 09.7 | 207 45.8 | 11.6 | Antares | 112 44.3 S26 | 25.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 194 28.2 | 118 04.3 | 36.4 | 26 17.3 | 57.6 | 6 21.3 | 09.8 | 222 48.4 | 11.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 209 30.7 | 133 03.8 N20 | 36.8 | 41 18.4 N 5 | 57.0 | 21 23.5 S 2 | 09.9 | 237 51.0 S13 | 11.8 | Arcturus | 146 09.2 N19 | 13.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 224 33.2 | 148 03.3 | 37.1 | 56 19.4 | 56.4 | 36 25.7 | 10.1 | 252 53.6 | 11.8 | Atria | 107 59.1 S69 | 01.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 239 35.6 | 163 02.8 | 37.5 | 71 20.5 | 55.8 | 51 27.8 | 10.2 | 267 56.3 | 11.9 | Avior | 234 24.7 S59 | 29.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 254 38.1 | 178 02.2 | 37.9 | 86 21.6 | 55.2 | 66 30.0 | 10.3 | 282 58.9 | 11.9 | Bellatrix | 278 48.2 N 6 | 20.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 269 40.6 | 193 01.7 | 38.2 | 101 22.7 | 54.5 | 81 32.2 | 10.5 | 298 01.5 | 12.0 | Betelgeuse | 271 17.7 N 7 | 24.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 284 43.0 | 208 01.2 | 38.6 | 116 23.7 | 53.9 | 96 34.3 | 10.6 | 313 04.1 | 12.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| J U E V E S | 22 00 | 299 45.5 | 223 00.7 N20 | 38.9 | 131 24.8 N 5 | 53.3 | 111 36.5 S 2 | 10.8 | 328 06.7 S13 | 12.1 | Canopus | 264 03.2 S52 | 41.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 314 47.9 | 238 00.2 | 39.3 | 146 25.9 | 52.7 | 126 38.7 | 10.9 | 343 09.3 | 12.2 | Capella | 280 56.8 N45 | 59.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 329 50.4 | 252 59.7 | 39.7 | 161 26.9 | 52.1 | 141 40.8 | 11.0 | 358 11.9 | 12.2 | Deneb | 49 41.1 N45 | 15.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 344 52.9 | 267 59.2 | 40.0 | 176 28.0 | 51.5 | 156 43.0 | 11.2 | 13 14.5 | 12.3 | Denebola | 182 49.0 N14 | 36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 359 55.3 | 282 58.7 | 40.4 | 191 29.1 | 50.8 | 171 45.2 | 11.3 | 28 17.1 | 12.3 | Diphda | 349 10.7 S18 | 01.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 14 57.8 | 297 58.2 | 40.7 | 206 30.1 | 50.2 | 186 47.3 | 11.4 | 43 19.7 | 12.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 30 00.3 | 312 57.7 N20 | 41.1 | 221 31.2 N 5 | 49.6 | 201 49.5 S 2 | 11.6 | 58 22.3 S13 | 12.5 | Dubhe | 194 10.2 N61 | 47.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 45 02.7 | 327 57.2 | 41.4 | 236 32.3 | 49.0 | 216 51.6 | 11.7 | 73 24.9 | 12.5 | Elnath | 278 31.7 N28 | 36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 60 05.2 | 342 56.7 | 41.8 | 251 33.3 | 48.4 | 231 53.8 | 11.9 | 88 27.5 | 12.6 | Eltanin | 90 52.6 N51 | 29.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 75 07.7 | 357 56.1 | 42.2 | 266 34.4 | 47.7 | 246 56.0 | 12.0 | 103 30.1 | 12.6 | Enif | 34 01.4 N 9 | 50.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 90 10.1 | 12 55.6 | 42.5 | 281 35.5 | 47.1 | 261 58.1 | 12.1 | 118 32.7 | 12.7 | Fomalhaut | 15 40.0 S29 | 39.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 105 12.6 | 27 55.1 | 42.9 | 296 36.5 | 46.5 | 277 00.3 | 12.3 | 133 35.3 | 12.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 120 15.0 | 42 54.6 N20 | 43.2 | 311 37.6 N 5 | 45.9 | 292 02.5 S 2 | 12.4 | 148 37.9 S13 | 12.8 | Gacrux | 172 17.7 S57 | 05.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 135 17.5 | 57 54.1 | 43.6 | 326 38.7 | 45.3 | 307 04.6 | 12.5 | 163 40.6 | 12.9 | Gienah | 176 07.7 S17 | 30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 150 20.0 | 72 53.6 | 43.9 | 341 39.8 | 44.6 | 322 06.8 | 12.7 | 178 43.2 | 12.9 | Hadar | 149 09.0 S60 | 20.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 165 22.4 | 87 53.1 | 44.3 | 356 40.8 | 44.0 | 337 08.9 | 12.8 | 193 45.8 | 13.0 | Hamal | 328 17.6 N23 | 25.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 180 24.9 | 102 52.6 | 44.6 | 11 41.9 | 43.4 | 352 11.1 | 13.0 | 208 48.4 | 13.1 | Kaus Aust. | 84 03.1 S34 | 23.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 195 27.4 | 117 52.0 | 44.9 | 26 43.0 | 42.8 | 7 13.3 | 13.1 | 223 51.0 | 13.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 210 29.8 | 132 51.5 N20 | 45.3 | 41 44.0 N 5 | 42.2 | 22 15.4 S 2 | 13.2 | 238 53.6 S13 | 13.2 | Kochab | 137 19.1 N74 | 11.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 225 32.3 | 147 51.0 | 45.6 | 56 45.1 | 41.5 | 37 17.6 | 13.4 | 253 56.2 | 13.2 | Markab | 13 52.9 N15 | 10.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 240 34.8 | 162 50.5 | 46.0 | 71 46.2 | 40.9 | 52 19.8 | 13.5 | 268 58.8 | 13.3 | Menkar | 314 30.7 N 4 | 04.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 255 37.2 | 177 50.0 | 46.3 | 86 47.2 | 40.3 | 67 21.9 | 13.7 | 284 01.4 | 13.3 | Menkent | 148 25.1 S36 | 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 270 39.7 | 192 49.5 | 46.7 | 101 48.3 | 39.7 | 82 24.1 | 13.8 | 299 04.0 | 13.4 | Miaplacidus | 221 43.7 S69 | 41.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 285 42.2 | 207 48.9 | 47.0 | 116 49.4 | 39.0 | 97 26.2 | 13.9 | 314 06.6 | 13.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| V I E R I S | 23 00 | 300 44.6 | 222 48.4 N20 | 47.3 | 131 50.4 N 5 | 38.4 | 112 28.4 S 2 | 14.1 | 329 09.2 S13 | 13.5 | Mirfak | 309 01.9 N49 | 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 315 47.1 | 237 47.9 | 47.7 | 146 51.5 | 37.8 | 127 30.6 | 14.2 | 344 11.8 | 13.6 | Nunki | 76 16.3 S26 | 18.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 330 49.5 | 252 47.4 | 48.0 | 161 52.6 | 37.2 | 142 32.7 | 14.4 | 359 14.5 | 13.6 | Peacock | 53 41.9 S56 | 45.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 345 52.0 | 267 46.9 | 48.4 | 176 53.6 | 36.6 | 157 34.9 | 14.5 | 14 17.1 | 13.7 | Pollux | 243 46.2 N28 | 02.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 0 54.5 | 282 46.3 | 48.7 | 191 54.7 | 35.9 | 172 37.0 | 14.6 | 29 19.7 | 13.8 | Procyon | 245 15.6 N 5 | 14.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 15 56.9 | 297 45.8 | 49.0 | 206 55.8 | 35.3 | 187 39.2 | 14.8 | 44 22.3 | 13.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 30 59.4 | 312 45.3 N20 | 49.4 | 221 56.8 N 5 | 34.7 | 202 41.4 S 2 | 14.9 | 59 24.9 S13 | 13.9 | Rasalhague | 96 20.0 N12 | 34.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 46 01.9 | 327 44.8 | 49.7 | 236 57.9 | 34.1 | 217 43.5 | 15.1 | 74 27.5 | 13.9 | Regulus | 207 59.6 N11 | 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 61 04.3 | 342 44.3 | 50.0 | 251 59.0 | 33.5 | 232 45.7 | 15.2 | 89 30.1 | 14.0 | Rigel | 281 26.6 S 8 | 12.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 76 06.8 | 357 43.7 | 50.4 | 267 00.0 | 32.8 | 247 47.8 | 15.3 | 104 32.7 | 14.1 | Rigil Kent. | 140 11.9 S60 | 48.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 91 09.3 | 12 43.2 | 50.7 | 282 01.1 | 32.2 | 262 50.0 | 15.5 | 119 35.3 | 14.1 | Sabik | 102 29.3 S15 | 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 106 11.7 | 27 42.7 | 51.0 | 297 02.2 | 31.6 | 277 52.1 | 15.6 | 134 37.9 | 14.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 121 14.2 | 42 42.2 N20 | 51.4 | 312 03.2 N 5 | 31.0 | 292 54.3 S 2 | 15.8 | 149 40.5 S13 | 14.2 | Schedar | 349 57.4 N56 | 30.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 136 16.7 | 57 41.6 | 51.7 | 327 04.3 | 30.3 | 307 56.5 | 15.9 | 164 43.2 | 14.3 | Shaula | 96 41.7 S37 | 06.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 151 19.1 | 72 41.1 | 52.0 | 342 05.4 | 29.7 | 322 58.6 | 16.0 | 179 45.8 | 14.4 | Sirius | 258 47.1 S16 | 42.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 166 21.6 | 87 40.6 | 52.4 | 357 06.4 | 29.1 | 338 00.8 | 16.2 | 194 48.4 | 14.4 | Spica | 158 47.0 S11 | 07.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 181 24.0 | 102 40.1 | 52.7 | 12 07.5 | 28.5 | 353 02.9 | 16.3 | 209 51.0 | 14.5 | Suhail | 223 03.8 S43 | 24.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 196 26.5 | 117 39.5 | 53.0 | 27 08.6 | 27.9 | 8 05.1 | 16.5 | 224 53.6 | 14.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 211 29.0 | 132 39.0 N20 | 53.3 | 42 09.6 N 5 | 27.2 | 23 07.2 S 2 | 16.6 | 239 56.2 S13 | 14.6 | Vega | 80 48.6 N38 | 46.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 226 31.4 | 147 38.5 | 53.7 | 57 10.7 | 26.6 | 38 09.4 | 16.7 | 254 58.8 | 14.7 | Zuben'ubi | 137 21.8 S16 | 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 241 33.9 | 162 38.0 | 54.0 | 72 11.8 | 26.0 | 53 11.6 | 16.9 | 270 01.4 | 14.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 256 36.4 | 177 37.4 | 54.3 | 87 12.8 | 25.4 | 68 13.7 | 17.0 | 285 04.0 | 14.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 271 38.8 | 192 36.9 | 54.6 | 102 13.9 | 24.7 | 83 15.9 | 17.2 | 300 06.6 | 14.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 286 41.3 | 207 36.4 | 55.0 | 117 15.0 | 24.1 | 98 18.0 | 17.3 | 315 09.3 | 14.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="0" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:10%;"></td> <td style="width:10%; text-align: center;">h m</td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> <td style="width:10%;"></td> </tr> <tr> <td>Pas. Mer.</td> <td>4 00.3</td> <td>v -0.5</td> <td>d 0.4</td> <td>v 1.1</td> <td>d 0.6</td> <td>v 2.2</td> <td>d 0.1</td> <td>v 2.6</td> <td>d 0.1</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2" style="text-align: center;">A. H. S.</td> <td colspan="2" style="text-align: center;">Pas. Mer.</td> <td colspan="2"></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td style="text-align: center;">o</td> <td style="text-align: center;">/</td> <td style="text-align: center;">h</td> <td style="text-align: center;">m</td> <td colspan="2"></td> <td></td> </tr> <tr> <td></td> <td></</td></tr></table> | | | | | | | | | | | | | | | | | | h m | | | | | | | | | | | | | | | | Pas. Mer. | 4 00.3 | v -0.5 | d 0.4 | v 1.1 | d 0.6 | v 2.2 | d 0.1 | v 2.6 | d 0.1 | | | | | | | | | | | | | | | | | | A. H. S. | | Pas. Mer. | | | | | | | | | | | | | | | o | / | h | m | | | | | </ |
| | h m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. | 4 00.3 | v -0.5 | d 0.4 | v 1.1 | d 0.6 | v 2.2 | d 0.1 | v 2.6 | d 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | A. H. S. | | Pas. Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | o | / | h | m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | </ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | |
|---|----------|----------|----------|----------|--------|----------|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|---|----|---|---|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 21 | | 22 | | 23 | | 24 | | | |
| | | | | | | | | | h | | | m | h | m | h | m | h | m | h | m | h |
| M I E R C O L E S | 00 | 178 24.7 | N20 30.6 | 159 02.5 | 8.7 | N10 41.0 | 12.3 | 59.9 | N 72 | □ | □ | □ | 05 34 | 07 47 | 09 56 | 12 06 | | | | | |
| | 01 | 193 24.7 | 30.1 | 173 30.2 | 8.7 | 10 28.7 | 12.4 | 59.9 | 68 | /// | /// | 01 14 | 05 49 | 07 52 | 09 52 | 11 53 | | | | | |
| | 02 | 208 24.6 | 29.7 | 187 57.9 | 8.7 | 10 16.3 | 12.4 | 59.9 | 66 | /// | /// | 02 05 | 06 02 | 07 56 | 09 49 | 11 42 | | | | | |
| | 03 | 223 24.6 | 29.2 | 202 25.6 | 8.8 | 10 03.9 | 12.4 | 59.9 | 64 | /// | /// | 02 36 | 06 12 | 08 00 | 09 47 | 11 34 | | | | | |
| | 04 | 238 24.6 | 28.7 | 216 53.4 | 8.8 | 9 51.5 | 12.6 | 59.9 | 62 | /// | 01 31 | 02 59 | 06 20 | 08 03 | 09 45 | 11 27 | | | | | |
| | 05 | 253 24.5 | 28.2 | 231 21.2 | 8.8 | 9 38.9 | 12.6 | 59.9 | 60 | /// | 02 08 | 03 18 | 06 33 | 08 06 | 09 43 | 11 21 | | | | | |
| | 06 | 268 24.5 | N20 27.7 | 245 49.0 | 8.9 | N 9 26.3 | 12.6 | 59.9 | N 58 | /// | 02 33 | 03 33 | 06 39 | 08 10 | 09 41 | 11 11 | | | | | |
| | 07 | 283 24.5 | 27.2 | 260 16.9 | 8.9 | 9 13.7 | 12.7 | 59.9 | 56 | 01 23 | 02 53 | 03 46 | 06 43 | 08 12 | 09 39 | 11 07 | | | | | |
| | 08 | 298 24.4 | 26.8 | 274 44.8 | 8.9 | 9 01.0 | 12.8 | 59.9 | 54 | 01 57 | 03 09 | 03 57 | 06 48 | 08 13 | 09 38 | 11 03 | | | | | |
| | 09 | 313 24.4 | 26.3 | 289 12.7 | 9.0 | 8 48.2 | 12.8 | 60.0 | 52 | 02 21 | 03 23 | 04 07 | 06 51 | 08 15 | 09 37 | 11 00 | | | | | |
| | 10 | 328 24.4 | 25.8 | 303 40.7 | 9.0 | 8 35.4 | 12.9 | 60.0 | 50 | 02 39 | 03 35 | 04 16 | 06 55 | 08 16 | 09 37 | 10 57 | | | | | |
| | 11 | 343 24.3 | 25.3 | 318 08.7 | 9.0 | 8 22.5 | 12.9 | 60.0 | 45 | 03 14 | 03 59 | 04 34 | 07 03 | 08 19 | 09 35 | 10 50 | | | | | |
| | 12 | 358 24.3 | N20 24.8 | 332 36.7 | 9.1 | N 8 09.6 | 13.0 | 60.0 | N 40 | 03 39 | 04 18 | 04 49 | 07 09 | 08 21 | 09 33 | 10 45 | | | | | |
| | 13 | 13 24.3 | 24.3 | 347 04.8 | 9.1 | 7 56.6 | 13.0 | 60.0 | 35 | 03 59 | 04 33 | 05 02 | 07 14 | 08 23 | 09 32 | 10 40 | | | | | |
| | 14 | 28 24.3 | 23.8 | 1 32.9 | 9.1 | 7 43.6 | 13.1 | 60.0 | 30 | 04 14 | 04 46 | 05 13 | 07 19 | 08 25 | 09 31 | 10 36 | | | | | |
| | 15 | 43 24.2 | 23.4 | 16 01.0 | 9.2 | 7 30.5 | 13.1 | 60.0 | 20 | 04 39 | 05 08 | 05 32 | 07 27 | 08 28 | 09 29 | 10 29 | | | | | |
| | 16 | 58 24.2 | 22.9 | 30 29.2 | 9.1 | 7 17.4 | 13.1 | 60.0 | N 10 | 04 59 | 05 25 | 05 48 | 07 34 | 08 31 | 09 27 | 10 23 | | | | | |
| | 17 | 73 24.2 | 22.4 | 44 57.3 | 9.2 | 7 04.3 | 13.3 | 60.0 | 0 | 05 15 | 05 41 | 06 03 | 07 41 | 08 34 | 09 25 | 10 17 | | | | | |
| | 18 | 88 24.1 | N20 21.9 | 59 25.5 | 9.3 | N 6 51.0 | 13.2 | 60.0 | S 10 | 05 30 | 05 55 | 06 18 | 07 48 | 08 36 | 09 24 | 10 12 | | | | | |
| | 19 | 103 24.1 | 21.4 | 73 53.8 | 9.2 | 6 37.8 | 13.3 | 60.0 | 20 | 05 43 | 06 10 | 06 33 | 07 55 | 08 39 | 09 22 | 10 06 | | | | | |
| | 20 | 118 24.1 | 20.9 | 88 22.0 | 9.3 | 6 24.5 | 13.3 | 60.0 | 30 | 05 57 | 06 26 | 06 51 | 08 03 | 08 42 | 09 21 | 09 59 | | | | | |
| | 21 | 133 24.1 | 20.4 | 102 50.3 | 9.3 | 6 11.2 | 13.4 | 60.0 | 35 | 06 04 | 06 35 | 07 02 | 08 08 | 08 44 | 09 19 | 09 55 | | | | | |
| | 22 | 148 24.0 | 19.9 | 117 18.6 | 9.4 | 5 57.8 | 13.4 | 60.0 | 40 | 06 11 | 06 44 | 07 14 | 08 13 | 08 46 | 09 18 | 09 51 | | | | | |
| 23 | 163 24.0 | 19.4 | 131 47.0 | 9.4 | 5 44.4 | 13.4 | 60.0 | 45 | 06 19 | 06 55 | 07 28 | 08 19 | 08 49 | 09 17 | 09 46 | | | | | | |
| J U E V E S | 00 | 178 24.0 | N20 18.9 | 146 15.4 | 9.3 | N 5 31.0 | 13.5 | 60.0 | S 50 | 06 28 | 07 08 | 07 45 | 08 26 | 08 51 | 09 16 | 09 40 | | | | | |
| | 01 | 193 24.0 | 18.4 | 160 43.7 | 9.5 | 5 17.5 | 13.5 | 60.0 | 52 | 06 32 | 07 14 | 07 53 | 08 29 | 08 53 | 09 15 | 09 37 | | | | | |
| | 02 | 208 23.9 | 17.9 | 175 12.2 | 9.4 | 5 04.0 | 13.5 | 60.0 | 54 | 06 37 | 07 21 | 08 02 | 08 33 | 08 54 | 09 14 | 09 34 | | | | | |
| | 03 | 223 23.9 | 17.5 | 189 40.6 | 9.5 | 4 50.5 | 13.6 | 60.0 | 56 | 06 41 | 07 28 | 08 12 | 08 37 | 08 56 | 09 13 | 09 31 | | | | | |
| | 04 | 238 23.9 | 17.0 | 204 09.1 | 9.4 | 4 36.9 | 13.5 | 60.0 | 58 | 06 46 | 07 36 | 08 23 | 08 42 | 08 57 | 09 12 | 09 28 | | | | | |
| | 05 | 253 23.8 | 16.5 | 218 37.5 | 9.5 | 4 23.4 | 13.6 | 60.0 | S 60 | 06 52 | 07 45 | 08 36 | 08 47 | 08 59 | 09 11 | 09 24 | | | | | |
| | 06 | 268 23.8 | N20 16.0 | 233 06.0 | 9.6 | N 4 09.8 | 13.7 | 60.1 | | | | | | | | | | | | | |
| | 07 | 283 23.8 | 15.5 | 247 34.6 | 9.5 | 3 56.1 | 13.6 | 60.1 | | | | | | | | | | | | | |
| | 08 | 298 23.8 | 15.0 | 262 03.1 | 9.6 | 3 42.5 | 13.7 | 60.1 | | | | | | | | | | | | | |
| | 09 | 313 23.8 | 14.5 | 276 31.7 | 9.6 | 3 28.8 | 13.7 | 60.1 | | | | | | | | | | | | | |
| | 10 | 328 23.7 | 14.0 | 291 00.3 | 9.6 | 3 15.1 | 13.7 | 60.1 | | | | | | | | | | | | | |
| | 11 | 343 23.7 | 13.5 | 305 28.9 | 9.6 | 3 01.4 | 13.7 | 60.1 | | | | | | | | | | | | | |
| | 12 | 358 23.7 | N20 13.0 | 319 57.5 | 9.6 | N 2 47.7 | 13.7 | 60.0 | | | | | | | | | | | | | |
| | 13 | 13 23.7 | 12.5 | 334 26.1 | 9.7 | 2 34.0 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 14 | 28 23.6 | 12.0 | 348 54.8 | 9.6 | 2 20.2 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 15 | 43 23.6 | 11.5 | 3 23.4 | 9.7 | 2 06.4 | 13.7 | 60.0 | | | | | | | | | | | | | |
| | 16 | 58 23.6 | 11.0 | 17 52.1 | 9.7 | 1 52.7 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 17 | 73 23.6 | 10.5 | 32 20.8 | 9.7 | 1 38.9 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 18 | 88 23.5 | N20 09.9 | 46 49.5 | 9.8 | N 1 25.1 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 19 | 103 23.5 | 09.4 | 61 18.3 | 9.7 | 1 11.3 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 20 | 118 23.5 | 08.9 | 75 47.0 | 9.7 | 0 57.5 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 21 | 133 23.5 | 08.4 | 90 15.7 | 9.3 | 0 43.7 | 13.8 | 60.0 | | | | | | | | | | | | | |
| | 22 | 148 23.5 | 07.9 | 104 44.5 | 9.3 | 0 29.9 | 13.8 | 60.0 | | | | | | | | | | | | | |
| 23 | 163 23.4 | 07.4 | 119 13.3 | 9.7 | 0 16.1 | 13.8 | 60.0 | | | | | | | | | | | | | | |
| V I E R N E S | 00 | 178 23.4 | N20 06.9 | 133 42.0 | 9.3 | N 0 02.3 | 13.8 | 60.0 | N 40 | 19 23 | 19 54 | 20 33 | 20 28 | 21 01 | 21 33 | 22 06 | | | | | |
| | 01 | 193 23.4 | 06.4 | 148 10.8 | 9.8 | S 0 11.5 | 13.8 | 60.0 | 35 | 19 11 | 19 39 | 20 14 | 20 24 | 21 00 | 21 36 | 22 12 | | | | | |
| | 02 | 208 23.4 | 05.9 | 162 39.6 | 9.8 | 0 25.3 | 13.8 | 60.0 | 30 | 19 00 | 19 26 | 19 58 | 20 21 | 21 00 | 21 38 | 22 17 | | | | | |
| | 03 | 223 23.4 | 05.4 | 177 08.4 | 9.8 | 0 39.1 | 13.8 | 60.0 | 20 | 18 41 | 19 05 | 19 33 | 20 16 | 20 59 | 21 43 | 22 26 | | | | | |
| | 04 | 238 23.3 | 04.9 | 191 37.2 | 9.8 | 0 52.9 | 13.7 | 60.0 | N 10 | 18 25 | 18 47 | 19 14 | 20 11 | 20 59 | 21 46 | 22 34 | | | | | |
| | 05 | 253 23.3 | 04.4 | 206 06.0 | 9.8 | 1 06.6 | 13.8 | 60.0 | 0 | 18 10 | 18 32 | 18 58 | 20 06 | 20 58 | 21 50 | 22 42 | | | | | |
| | 06 | 268 23.3 | N20 03.8 | 220 34.8 | 9.8 | S 1 20.4 | 13.7 | 60.0 | | | | | | | | | | | | | |
| | 07 | 283 23.3 | 03.3 | 235 03.6 | 9.8 | 1 34.1 | 13.8 | 60.0 | S 10 | 17 55 | 18 18 | 18 43 | 20 01 | 20 58 | 21 54 | 22 50 | | | | | |
| | 08 | 298 23.3 | 02.8 | 249 32.4 | 9.5 | 1 47.9 | 13.7 | 60.0 | 20 | 17 40 | 18 03 | 18 30 | 19 56 | 20 57 | 21 57 | 22 58 | | | | | |
| | 09 | 313 23.2 | 02.3 | 264 01.3 | 9.8 | 1 47.9 | 13.7 | 60.0 | 30 | 17 22 | 17 47 | 18 16 | 19 50 | 20 56 | 22 02 | 23 07 | | | | | |
| | 10 | 328 23.2 | 01.8 | 278 30.1 | 9.8 | 2 01.6 | 13.7 | 60.0 | 35 | 17 11 | 17 39 | 18 09 | 19 47 | 20 56 | 22 04 | 23 12 | | | | | |
| | 11 | 343 23.2 | 01.3 | 292 58.9 | 9.8 | 2 15.3 | 13.7 | 59.9 | 40 | 16 59 | 17 29 | 18 02 | 19 43 | 20 55 | 22 07 | 23 18 | | | | | |
| | 12 | 358 23.2 | N20 00.8 | 307 27.7 | 9.8 | S 2 29.0 | 13.6 | 59.9 | 45 | 16 46 | 17 18 | 17 54 | 19 39 | 20 55 | 22 11 | 23 26 | | | | | |
| | 13 | 13 23.2 | 20 00.3 | 321 56.5 | 9.8 | 2 42.6 | 13.7 | 59.9 | S 50 | 16 29 | 17 05 | 17 45 | 19 33 | 20 54 | 22 14 | 23 34 | | | | | |
| | 14 | 28 23.2 | 19 59.7 | 336 25.3 | 9.9 | 2 56.3 | 13.6 | 59.9 | 52 | 16 21 | 16 59 | 17 41 | 19 31 | 20 54 | 22 16 | 23 38 | | | | | |
| | 15 | 43 23.1 | 19 59.2 | 350 | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | VENUS -4.1 | | MARTE +1.6 | | JUPITER -1.9 | | SATURNO +0.5 | | ESTRELLAS | | | | | | | | |
|------------------|----------|-------------------|-------------------|-------------------|-------------------|-------------|-------------------|------|--------------|------|-----------|----------|----------|-----------|-------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | | | | | |
| 24 00 | 301 43.8 | 222 35.9 N20 55.3 | 132 16.0 N 5 23.5 | 113 20.2 S 2 17.4 | 330 11.9 S13 15.0 | Acamar | 315 29.7 S40 19.5 | | | | | | | | | | | | |
| 01 | 316 46.2 | 237 35.3 55.6 | 147 17.1 22.9 | 128 22.3 17.6 | 345 14.5 15.0 | Achernar | 335 37.7 S57 15.8 | | | | | | | | | | | | |
| 02 | 331 48.7 | 252 34.8 55.9 | 162 18.2 22.2 | 143 24.5 17.7 | 0 17.1 15.1 | Acrux | 173 26.3 S63 04.2 | | | | | | | | | | | | |
| 03 | 346 51.1 | 267 34.3 56.2 | 177 19.2 21.6 | 158 26.6 17.9 | 15 19.7 15.1 | Adhara | 255 24.6 S28 57.8 | | | | | | | | | | | | |
| 04 | 1 53.6 | 282 33.7 56.6 | 192 20.3 21.0 | 173 28.8 18.0 | 30 22.3 15.2 | Aldebaran | 291 06.6 N16 29.8 | | | | | | | | | | | | |
| 05 | 16 56.1 | 297 33.2 56.9 | 207 21.4 20.4 | 188 31.0 18.1 | 45 24.9 15.3 | | | | | | | | | | | | | | |
| 06 | 31 58.5 | 312 32.7 N20 57.2 | 222 22.4 N 5 19.7 | 203 33.1 S 2 18.3 | 60 27.5 S13 15.3 | Alioth | 166 33.8 N55 59.9 | | | | | | | | | | | | |
| 07 | 47 01.0 | 327 32.1 57.5 | 237 23.5 19.1 | 218 35.3 18.4 | 75 30.1 15.4 | Alkaid | 153 10.6 N49 20.9 | | | | | | | | | | | | |
| 08 | 62 03.5 | 342 31.6 57.8 | 252 24.6 18.5 | 233 37.4 18.6 | 90 32.8 15.4 | Al Na'ir | 28 01.9 S46 59.2 | | | | | | | | | | | | |
| S 09 | 77 05.9 | 357 31.1 58.1 | 267 25.6 17.9 | 248 39.6 18.7 | 105 35.4 15.5 | Alnilam | 276 01.7 S 1 12.3 | | | | | | | | | | | | |
| A 10 | 92 08.4 | 12 30.5 58.4 | 282 26.7 17.3 | 263 41.7 18.9 | 120 38.0 15.6 | Alphard | 218 11.0 S 8 37.9 | | | | | | | | | | | | |
| B 11 | 107 10.9 | 27 30.0 58.8 | 297 27.8 16.6 | 278 43.9 19.0 | 135 40.6 15.6 | | | | | | | | | | | | | | |
| A 12 | 122 13.3 | 42 29.5 N20 59.1 | 312 28.8 N 5 16.0 | 293 46.0 S 2 19.1 | 150 43.2 S13 15.7 | Alphecca | 126 23.4 N26 44.3 | | | | | | | | | | | | |
| D 13 | 137 15.8 | 57 28.9 59.4 | 327 29.9 15.4 | 308 48.2 19.3 | 165 45.8 15.7 | Alpheratz | 357 58.7 N29 03.3 | | | | | | | | | | | | |
| O 14 | 152 18.3 | 72 28.4 20 59.7 | 342 31.0 14.8 | 323 50.3 19.4 | 180 48.4 15.8 | Altair | 62 22.4 N 8 51.2 | | | | | | | | | | | | |
| 15 | 167 20.7 | 87 27.9 21 00.0 | 357 32.0 14.1 | 338 52.5 19.6 | 195 51.0 15.9 | Ankaa | 353 30.1 S42 20.1 | | | | | | | | | | | | |
| 16 | 182 23.2 | 102 27.3 00.3 | 12 33.1 13.5 | 353 54.6 19.7 | 210 53.6 15.9 | Antares | 112 44.3 S26 25.1 | | | | | | | | | | | | |
| 17 | 197 25.6 | 117 26.8 00.6 | 27 34.2 12.9 | 8 56.8 19.8 | 225 56.3 16.0 | | | | | | | | | | | | | | |
| 18 | 212 28.1 | 132 26.2 N21 00.9 | 42 35.2 N 5 12.3 | 23 58.9 S 2 20.0 | 240 58.9 S13 16.0 | Arcturus | 146 09.2 N19 13.1 | | | | | | | | | | | | |
| 19 | 227 30.6 | 147 25.7 01.2 | 57 36.3 11.6 | 39 01.1 20.1 | 256 01.5 16.1 | Atria | 107 59.1 S69 01.2 | | | | | | | | | | | | |
| 20 | 242 33.0 | 162 25.2 01.5 | 72 37.4 11.0 | 54 03.2 20.3 | 271 04.1 16.2 | Avior | 234 24.7 S59 29.4 | | | | | | | | | | | | |
| 21 | 257 35.5 | 177 24.6 01.8 | 87 38.4 10.4 | 69 05.4 20.4 | 286 06.7 16.2 | Bellatrix | 278 48.2 N 6 20.7 | | | | | | | | | | | | |
| 22 | 272 38.0 | 192 24.1 02.1 | 102 39.5 09.8 | 84 07.5 20.6 | 301 09.3 16.3 | Betelgeuse | 271 17.7 N 7 24.4 | | | | | | | | | | | | |
| 23 | 287 40.4 | 207 23.6 02.4 | 117 40.6 09.1 | 99 09.7 20.7 | 316 11.9 16.3 | | | | | | | | | | | | | | |
| 25 00 | 302 42.9 | 222 23.0 N21 02.7 | 132 41.6 N 5 08.5 | 114 11.9 S 2 20.8 | 331 14.5 S13 16.4 | Canopus | 264 03.2 S52 41.4 | | | | | | | | | | | | |
| 01 | 317 45.4 | 237 22.5 03.0 | 147 42.7 07.9 | 129 14.0 21.0 | 346 17.2 16.5 | Capella | 280 56.8 N45 59.4 | | | | | | | | | | | | |
| 02 | 332 47.8 | 252 21.9 03.3 | 162 43.7 07.3 | 144 16.2 21.1 | 1 19.8 16.5 | Deneb | 49 41.1 N45 15.6 | | | | | | | | | | | | |
| 03 | 347 50.3 | 267 21.4 03.6 | 177 44.8 06.6 | 159 18.3 21.3 | 16 22.4 16.6 | Denebola | 182 49.0 N14 36.5 | | | | | | | | | | | | |
| 04 | 2 52.8 | 282 20.8 03.9 | 192 45.9 06.0 | 174 20.5 21.4 | 31 25.0 16.6 | Diphda | 349 10.6 S18 01.0 | | | | | | | | | | | | |
| 05 | 17 55.2 | 297 20.3 04.2 | 207 46.9 05.4 | 189 22.6 21.6 | 46 27.6 16.7 | | | | | | | | | | | | | | |
| 06 | 32 57.7 | 312 19.8 N21 04.5 | 222 48.0 N 5 04.8 | 204 24.8 S 2 21.7 | 61 30.2 S13 16.8 | Dubhe | 194 10.3 N61 47.3 | | | | | | | | | | | | |
| 07 | 48 00.1 | 327 19.2 04.8 | 237 49.1 04.1 | 219 26.9 21.8 | 76 32.8 16.8 | Elnath | 278 31.7 N28 36.1 | | | | | | | | | | | | |
| D 08 | 63 02.6 | 342 18.7 05.1 | 252 50.1 03.5 | 234 29.1 22.0 | 91 35.5 16.9 | Eltanin | 90 52.6 N51 29.6 | | | | | | | | | | | | |
| O 09 | 78 05.1 | 357 18.1 05.4 | 267 51.2 02.9 | 249 31.2 22.1 | 106 38.1 17.0 | Enif | 34 01.4 N 9 50.9 | | | | | | | | | | | | |
| 10 | 93 07.5 | 12 17.6 05.7 | 282 52.3 02.2 | 264 33.3 22.3 | 121 40.7 17.0 | Fomalhaut | 15 40.0 S29 39.1 | | | | | | | | | | | | |
| 11 | 108 10.0 | 27 17.0 06.0 | 297 53.3 01.6 | 279 35.5 22.4 | 136 43.3 17.1 | | | | | | | | | | | | | | |
| 12 | 123 12.5 | 42 16.5 N21 06.3 | 312 54.4 N 5 01.0 | 294 37.6 S 2 22.6 | 151 45.9 S13 17.1 | Gacrux | 172 17.8 S57 05.0 | | | | | | | | | | | | |
| 13 | 138 14.9 | 57 16.0 06.6 | 327 55.5 5 00.4 | 309 39.8 22.7 | 166 48.5 17.2 | Gienah | 176 07.8 S17 30.5 | | | | | | | | | | | | |
| O 14 | 153 17.4 | 72 15.4 06.9 | 342 56.5 4 59.7 | 324 41.9 22.9 | 181 51.1 17.3 | Hadar | 149 09.1 S60 20.9 | | | | | | | | | | | | |
| 15 | 168 19.9 | 87 14.9 07.1 | 357 57.6 59.1 | 339 44.1 23.0 | 196 53.8 17.3 | Hamal | 328 17.6 N23 25.9 | | | | | | | | | | | | |
| 16 | 183 22.3 | 102 14.3 07.4 | 12 58.7 58.5 | 354 46.2 23.1 | 211 56.4 17.4 | Kaus Aust. | 84 03.1 S34 23.2 | | | | | | | | | | | | |
| 17 | 198 24.8 | 117 13.8 07.7 | 27 59.7 57.9 | 9 48.4 23.3 | 226 59.0 17.4 | | | | | | | | | | | | | | |
| 18 | 213 27.2 | 132 13.2 N21 08.0 | 43 00.8 N 4 57.2 | 24 50.5 S 2 23.4 | 242 01.6 S13 17.5 | Kochab | 137 19.1 N74 11.2 | | | | | | | | | | | | |
| 19 | 228 29.7 | 147 12.7 08.3 | 58 01.8 56.6 | 39 52.7 23.6 | 257 04.2 17.6 | Markab | 13 52.9 N15 10.4 | | | | | | | | | | | | |
| 20 | 243 32.2 | 162 12.1 08.6 | 73 02.9 56.0 | 54 54.8 23.7 | 272 06.8 17.6 | Menkar | 314 30.7 N 4 04.0 | | | | | | | | | | | | |
| 21 | 258 34.6 | 177 11.6 08.8 | 88 04.0 55.4 | 69 57.0 23.9 | 287 09.4 17.7 | Menkent | 148 25.1 S36 20.5 | | | | | | | | | | | | |
| 22 | 273 37.1 | 192 11.0 09.1 | 103 05.0 54.7 | 84 59.1 24.0 | 302 12.1 17.7 | Miaplacidus | 221 43.7 S69 41.6 | | | | | | | | | | | | |
| 23 | 288 39.6 | 207 10.5 09.4 | 118 06.1 54.1 | 100 01.3 24.1 | 317 14.7 17.8 | | | | | | | | | | | | | | |
| 26 00 | 303 42.0 | 222 09.9 N21 09.7 | 133 07.2 N 4 53.5 | 115 03.4 S 2 24.3 | 332 17.3 S13 17.9 | Mirfak | 309 01.9 N49 50.2 | | | | | | | | | | | | |
| 01 | 318 44.5 | 237 09.4 10.0 | 148 08.2 52.8 | 130 05.6 24.4 | 347 19.9 17.9 | Nunki | 76 16.3 S26 18.2 | | | | | | | | | | | | |
| 02 | 333 47.0 | 252 08.8 10.2 | 163 09.3 52.2 | 145 07.7 24.6 | 2 22.5 18.0 | Pollux | 53 41.9 S56 45.2 | | | | | | | | | | | | |
| 03 | 348 49.4 | 267 08.3 10.5 | 178 10.4 51.6 | 160 09.9 24.7 | 17 25.1 18.1 | Peacock | 243 46.2 N28 02.5 | | | | | | | | | | | | |
| 04 | 3 51.9 | 282 07.7 10.8 | 193 11.4 51.0 | 175 12.0 24.9 | 32 27.7 18.1 | Procyon | 245 15.6 N 5 14.5 | | | | | | | | | | | | |
| 05 | 18 54.4 | 297 07.2 11.1 | 208 12.5 50.3 | 190 14.1 25.0 | 47 30.4 18.2 | | | | | | | | | | | | | | |
| 06 | 33 56.8 | 312 06.6 N21 11.4 | 223 13.5 N 4 49.7 | 205 16.3 S 2 25.2 | 62 33.0 S13 18.2 | Rasalhague | 96 20.0 N12 34.0 | | | | | | | | | | | | |
| 07 | 48 59.3 | 327 06.0 11.6 | 238 14.6 49.1 | 220 18.4 25.3 | 77 35.6 18.3 | Regulus | 207 59.6 N11 59.9 | | | | | | | | | | | | |
| 08 | 64 01.7 | 342 05.5 11.9 | 253 15.7 48.5 | 235 20.6 25.5 | 92 38.2 18.4 | Rigel | 281 26.6 S 8 12.5 | | | | | | | | | | | | |
| L 09 | 79 04.2 | 357 04.9 12.2 | 268 15.7 47.8 | 250 22.7 25.6 | 107 40.8 18.4 | Rigil Kent. | 140 11.9 S60 48.8 | | | | | | | | | | | | |
| 10 | 94 06.7 | 12 04.4 12.4 | 283 17.8 47.2 | 265 24.9 25.7 | 122 43.4 18.5 | Sabik | 102 29.3 S15 43.0 | | | | | | | | | | | | |
| 11 | 109 09.1 | 27 03.8 12.7 | 298 18.9 46.6 | 280 27.0 25.9 | 137 46.1 18.5 | | | | | | | | | | | | | | |
| 12 | 124 11.6 | 42 03.3 N21 13.0 | 313 19.9 N 4 45.9 | 295 29.2 S 2 26.0 | 152 48.7 S13 18.6 | Schedar | 349 57.3 N56 30.0 | | | | | | | | | | | | |
| 13 | 139 14.1 | 57 02.7 13.3 | 328 21.0 45.3 | 310 31.3 26.2 | 167 51.3 18.7 | Shaula | 96 41.7 S37 06.0 | | | | | | | | | | | | |
| 14 | 154 16.5 | 72 02.2 13.5 | 343 22.0 44.7 | 325 33.4 26.3 | 182 53.9 18.7 | Sirius | 258 47.1 S16 42.4 | | | | | | | | | | | | |
| 15 | 169 19.0 | 87 01.6 13.8 | 358 23.1 44.1 | 340 35.6 26.5 | 197 56.5 18.8 | Spica | 158 47.0 S11 07.7 | | | | | | | | | | | | |
| 16 | 184 21.5 | 102 01.0 14.1 | 13 24.2 43.4 | 355 37.7 26.6 | 212 59.1 18.9 | Suhail | 223 03.8 S43 24.5 | | | | | | | | | | | | |
| 17 | 199 23.9 | 117 00.5 14.3 | 28 25.2 42.8 | 10 39.9 26.8 | 228 01.8 18.9 | | | | | | | | | | | | | | |
| 18 | 214 26.4 | 131 59.9 N21 14.6 | 43 26.3 N 4 42.2 | 25 42.0 S 2 26.9 | 243 04.4 S13 19.0 | Vega | 80 48.6 N38 46.9 | | | | | | | | | | | | |
| 19 | 229 28.9 | 146 59.4 14.8 | 58 27.4 41.5 | 40 44.2 27.1 | 258 07.0 19.0 | Zuben'ubi | 137 21.8 S16 01.0 | | | | | | | | | | | | |
| 20 | 244 31.3 | 161 58.8 15.1 | 73 28.4 40.9 | 55 46.3 27.2 | 273 09.6 19.1 | | | | | | | | | | | | | | |
| 21 | 259 33.8 | 176 58.3 15.4 | 88 29.5 40.3 | 70 48.4 27.3 | 288 12.2 19.2 | | | | | | | | | | | | | | |
| 22 | 274 36.2 | 191 57.7 15.6 | 103 30.6 39.7 | 85 50.6 27.5 | 303 14.8 19.2 | | | | | | | | | | | | | | |
| 23 | 289 38.7 | 206 57.1 15.9 | 118 31.6 39.0 | 100 52.7 27.6 | 318 17.5 19.3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | A. H. S. | | Pas. Mer. | | | | | |
| | | | | | | | | | | | | o / | h m | | | | | | |
| Pas. Mer. 3 48.5 | | | | | | | | | | | | v -0.5 | d 0.3 | v 1.1 | d 0.6 | v 2.1 | d 0.1 | v 2.6 | d 0.1 |
| | | | | | | | | | | | | Venus | 279 40.1 | 9 11 | | | | | |
| | | | | | | | | | | | | Marte | 189 58.7 | 15 08 | | | | | |
| | | | | | | | | | | | | Júpiter | 171 29.0 | 16 21 | | | | | |
| | | | | | | | | | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | |
|--|--------|------|--------|------|------|------|------|------------|-------|----------|-----------|------|--------------|------------------|-------------------------------------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 24 | 25 | 26 | 27 | | | | | |
| | | | | | | | | | | | | | | | | h | m | h | m | h |
| 24 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 | 178 | 23.0 | N19 | 54.5 | 121 | 13.3 | 9.7 | S 5 | 24.6 | 13.3 | 59.8 | N 72 | □ | □ | □ | 12 06 | 14 25 | 17 40 | ■ | |
| | 193 | 23.0 | | 54.0 | 135 | 42.0 | 9.7 | 5 | 37.9 | 13.3 | 59.8 | N 70 | □ | □ | □ | 11 53 | 13 58 | 16 15 | ■ | |
| | 208 | 23.0 | | 53.5 | 150 | 10.7 | 9.8 | 5 | 51.2 | 13.2 | 59.8 | 68 | /// | /// | 01 35 | 11 42 | 13 37 | 15 36 | 17 41 | |
| | 223 | 23.0 | | 53.0 | 164 | 39.5 | 9.7 | 6 | 04.4 | 13.1 | 59.8 | 66 | /// | /// | 02 17 | 11 34 | 13 21 | 15 09 | 16 55 | |
| | 238 | 22.9 | | 52.5 | 179 | 08.2 | 9.7 | 6 | 17.5 | 13.2 | 59.8 | 64 | /// | 00 43 | 02 46 | 11 27 | 13 08 | 14 49 | 16 25 | |
| | 253 | 22.9 | | 51.9 | 193 | 36.9 | 9.7 | 6 | 30.7 | 13.1 | 59.7 | 62 | /// | 01 45 | 03 07 | 11 21 | 12 57 | 14 32 | 16 02 | |
| | 268 | 22.9 | N19 | 51.4 | 208 | 05.6 | 9.7 | S 6 | 43.8 | 13.0 | 59.7 | 60 | /// | 02 17 | 03 24 | 11 15 | 12 48 | 14 19 | 15 44 | |
| | 283 | 22.9 | | 50.9 | 222 | 34.3 | 9.6 | 6 | 56.8 | 13.0 | 59.7 | N 58 | 00 40 | 02 41 | 03 39 | 11 11 | 12 40 | 14 07 | 15 29 | |
| | 298 | 22.9 | | 50.4 | 237 | 02.9 | 9.7 | 7 | 09.8 | 12.9 | 59.7 | 56 | 01 36 | 02 59 | 03 51 | 11 07 | 12 33 | 13 57 | 15 16 | |
| | 313 | 22.9 | | 49.8 | 251 | 31.6 | 9.6 | 7 | 22.7 | 12.9 | 59.7 | 54 | 02 06 | 03 15 | 04 02 | 11 03 | 12 26 | 13 48 | 15 05 | |
| | 328 | 22.9 | | 49.3 | 266 | 00.2 | 9.6 | 7 | 35.6 | 12.9 | 59.7 | 52 | 02 28 | 03 28 | 04 11 | 11 00 | 12 21 | 13 40 | 14 55 | |
| | 343 | 22.9 | | 48.8 | 280 | 28.8 | 9.6 | 7 | 48.5 | 12.8 | 59.7 | 50 | 02 45 | 03 39 | 04 20 | 10 57 | 12 16 | 13 33 | 14 46 | |
| | 358 | 22.9 | N19 | 48.2 | 294 | 57.4 | 9.6 | S 8 | 01.3 | 12.7 | 59.7 | 45 | 03 18 | 04 03 | 04 37 | 10 50 | 12 05 | 13 18 | 14 28 | |
| | 13 | 13 | 22.8 | 47.7 | 309 | 26.0 | 9.5 | 8 | 14.0 | 12.7 | 59.6 | N 40 | 04 42 | 04 21 | 04 52 | 10 45 | 11 56 | 13 05 | 14 13 | |
| | 14 | 28 | 22.8 | 47.2 | 323 | 54.5 | 9.6 | 8 | 26.7 | 12.6 | 59.6 | 35 | 04 01 | 04 36 | 05 04 | 10 40 | 11 48 | 12 55 | 14 00 | |
| | 15 | 43 | 22.8 | 46.7 | 338 | 23.1 | 9.5 | 8 | 39.3 | 12.6 | 59.6 | 30 | 04 17 | 04 48 | 05 15 | 10 36 | 11 41 | 12 46 | 13 49 | |
| | 16 | 58 | 22.8 | 46.1 | 352 | 51.6 | 9.5 | 8 | 51.9 | 12.5 | 59.6 | 20 | 04 01 | 05 09 | 05 33 | 10 29 | 11 29 | 12 30 | 13 30 | |
| | 17 | 73 | 22.8 | 45.6 | 7 | 20.1 | 9.5 | 9 | 04.4 | 12.5 | 59.6 | N 10 | 05 00 | 05 26 | 05 48 | 10 23 | 11 19 | 12 16 | 13 14 | |
| | 18 | 88 | 22.8 | N19 | 45.1 | 21 | 48.6 | 9.4 | S 9 | 16.9 | 12.4 | 59.6 | 0 | 05 15 | 05 41 | 06 03 | 10 17 | 11 10 | 12 03 | 12 58 |
| | 19 | 103 | 22.8 | | 44.5 | 36 | 17.0 | 9.5 | 9 | 29.3 | 12.3 | 59.6 | S 10 | 05 29 | 05 55 | 06 17 | 10 12 | 11 00 | 11 51 | 12 43 |
| | 20 | 118 | 22.8 | | 44.0 | 50 | 45.5 | 9.4 | 9 | 41.6 | 12.3 | 59.5 | 20 | 05 42 | 06 09 | 06 33 | 10 06 | 10 50 | 11 37 | 12 27 |
| | 21 | 133 | 22.8 | | 43.5 | 65 | 13.9 | 9.4 | 9 | 53.9 | 12.2 | 59.5 | 30 | 05 55 | 06 24 | 06 50 | 09 59 | 10 39 | 11 22 | 12 08 |
| | 22 | 148 | 22.8 | | 42.9 | 79 | 42.3 | 9.4 | 10 | 06.1 | 12.1 | 59.5 | 35 | 06 02 | 06 33 | 07 00 | 09 55 | 10 33 | 11 13 | 11 58 |
| 23 | 163 | 22.7 | | 42.4 | 94 | 10.7 | 9.3 | 10 | 18.2 | 12.1 | 59.5 | 40 | 06 09 | 06 42 | 07 11 | 09 51 | 10 25 | 11 03 | 11 45 | |
| 24 | 178 | 22.7 | N19 | 41.9 | 108 | 39.0 | 9.3 | S10 | 30.3 | 12.0 | 59.5 | 45 | 06 17 | 06 53 | 07 25 | 09 46 | 10 17 | 10 51 | 11 31 | |
| 25 | 193 | 22.7 | | 41.3 | 123 | 07.3 | 9.3 | 10 | 42.3 | 12.0 | 59.5 | S 50 | 06 25 | 07 05 | 07 41 | 09 40 | 10 07 | 10 37 | 11 13 | |
| 02 | 208 | 22.7 | | 40.8 | 137 | 35.6 | 9.3 | 10 | 54.3 | 11.8 | 59.4 | 52 | 06 29 | 07 11 | 07 49 | 09 37 | 10 02 | 10 31 | 11 05 | |
| 03 | 223 | 22.7 | | 40.2 | 152 | 03.9 | 9.2 | 11 | 06.1 | 11.8 | 59.4 | 54 | 06 33 | 07 17 | 07 57 | 09 34 | 09 57 | 10 23 | 10 56 | |
| 04 | 238 | 22.7 | | 39.7 | 166 | 32.1 | 9.2 | 11 | 17.9 | 11.8 | 59.4 | 56 | 06 37 | 07 24 | 08 07 | 09 31 | 09 51 | 10 15 | 10 46 | |
| 05 | 253 | 22.7 | | 39.2 | 181 | 00.3 | 9.2 | 11 | 29.7 | 11.6 | 59.4 | 58 | 06 42 | 07 31 | 08 18 | 09 28 | 09 45 | 10 06 | 10 34 | |
| 06 | 268 | 22.7 | N19 | 38.6 | 195 | 28.5 | 9.2 | S11 | 41.3 | 11.6 | 59.4 | S 60 | 06 47 | 07 40 | 08 30 | 09 24 | 09 38 | 09 56 | 10 20 | |
| 07 | 283 | 22.7 | | 38.1 | 209 | 56.7 | 9.1 | 11 | 52.9 | 11.5 | 59.4 | Lat. | Ocaso Sol | Crepúsculo Civil | Naut. | Ocaso Luna | | | | |
| 08 | 298 | 22.7 | | 37.5 | 224 | 24.8 | 9.1 | 12 | 04.4 | 11.4 | 59.3 | 24 | 25 | 26 | 27 | | | | | |
| 09 | 313 | 22.7 | | 37.0 | 238 | 52.9 | 9.1 | 12 | 15.8 | 11.4 | 59.3 | N 72 | h m | h m | h m | h m | h m | h m | h m | |
| 10 | 328 | 22.7 | | 36.5 | 253 | 21.0 | 9.1 | 12 | 27.2 | 11.2 | 59.3 | N 70 | □ | □ | □ | 20 27 | 19 59 | 18 37 | ■ | |
| 11 | 343 | 22.7 | | 35.9 | 267 | 49.1 | 9.0 | 12 | 38.4 | 11.2 | 59.3 | 68 | 22 33 | /// | /// | 20 55 | 20 50 | 20 43 | 20 34 | |
| 12 | 358 | 22.7 | N19 | 35.4 | 282 | 17.1 | 9.0 | S12 | 49.6 | 11.1 | 59.3 | 66 | 21 52 | /// | /// | 21 05 | 21 07 | 21 11 | 21 21 | |
| 13 | 13 | 22.7 | | 34.8 | 296 | 45.1 | 8.9 | 13 | 00.7 | 11.0 | 59.2 | 64 | 21 25 | 23 19 | /// | 21 14 | 21 21 | 21 32 | 21 51 | |
| 14 | 28 | 22.7 | | 34.3 | 311 | 13.0 | 9.0 | 13 | 11.7 | 11.0 | 59.2 | 62 | 21 04 | 22 24 | /// | 21 21 | 21 33 | 21 50 | 22 14 | |
| 15 | 43 | 22.7 | | 33.8 | 325 | 41.0 | 8.9 | 13 | 22.7 | 10.8 | 59.2 | 60 | 20 47 | 21 53 | /// | 21 28 | 21 43 | 22 04 | 22 33 | |
| 16 | 58 | 22.6 | | 33.2 | 340 | 08.9 | 8.9 | 13 | 33.5 | 10.8 | 59.2 | N 58 | 20 33 | 21 30 | 23 23 | 21 33 | 21 52 | 22 16 | 22 48 | |
| 17 | 73 | 22.6 | | 32.7 | 354 | 36.8 | 8.8 | 13 | 44.3 | 10.7 | 59.2 | 56 | 20 21 | 21 12 | 22 34 | 21 38 | 22 00 | 22 27 | 23 01 | |
| 18 | 88 | 22.6 | N19 | 32.1 | 9 | 04.6 | 8.8 | S13 | 55.0 | 10.5 | 59.2 | 54 | 20 10 | 20 57 | 22 05 | 21 43 | 22 07 | 22 36 | 23 13 | |
| 19 | 103 | 22.6 | | 31.6 | 23 | 32.4 | 8.8 | 14 | 05.5 | 10.5 | 59.1 | 52 | 20 01 | 20 44 | 21 43 | 21 47 | 22 14 | 22 45 | 23 23 | |
| 20 | 118 | 22.6 | | 31.0 | 38 | 00.2 | 8.7 | 14 | 16.0 | 10.5 | 59.1 | 50 | 19 53 | 20 32 | 21 26 | 21 51 | 22 19 | 22 52 | 23 32 | |
| 21 | 133 | 22.6 | | 30.5 | 52 | 27.9 | 8.8 | 14 | 26.5 | 10.3 | 59.1 | 45 | 19 35 | 20 09 | 20 54 | 21 59 | 22 32 | 23 09 | 23 51 | |
| 22 | 148 | 22.6 | | 29.9 | 66 | 55.7 | 8.6 | 14 | 36.8 | 10.2 | 59.1 | N 40 | 19 21 | 19 51 | 20 30 | 22 06 | 22 42 | 23 22 | 24 07 | |
| 23 | 163 | 22.6 | | 29.4 | 81 | 23.3 | 8.7 | 14 | 47.0 | 10.1 | 59.1 | 35 | 19 08 | 19 37 | 20 11 | 22 12 | 22 51 | 23 33 | 24 20 | |
| 26 | 173 | 22.6 | N19 | 28.8 | 95 | 51.0 | 8.6 | S14 | 57.1 | 10.1 | 59.0 | 30 | 18 58 | 19 24 | 19 56 | 22 17 | 22 59 | 23 43 | 24 32 | |
| 01 | 193 | 22.6 | | 28.3 | 110 | 18.6 | 8.6 | 15 | 07.2 | 9.9 | 59.0 | 20 | 18 40 | 19 04 | 19 32 | 22 26 | 23 12 | 24 00 | 00 00 | |
| 02 | 208 | 22.6 | | 27.7 | 124 | 46.2 | 8.6 | 15 | 17.1 | 9.8 | 59.0 | N 10 | 18 24 | 18 47 | 19 13 | 22 34 | 23 24 | 24 15 | 00 15 | |
| 03 | 223 | 22.6 | | 27.2 | 139 | 13.8 | 8.5 | 15 | 26.9 | 9.8 | 59.0 | 0 | 18 10 | 18 32 | 18 57 | 22 42 | 23 35 | 24 29 | 00 29 | |
| 04 | 238 | 22.6 | | 26.6 | 153 | 41.3 | 8.5 | 15 | 36.7 | 9.6 | 59.0 | S 10 | 17 56 | 18 18 | 18 44 | 22 50 | 23 46 | 24 44 | 00 44 | |
| 05 | 253 | 22.6 | | 26.1 | 168 | 08.8 | 8.5 | 15 | 46.3 | 9.6 | 58.9 | 20 | 17 41 | 18 04 | 18 31 | 22 58 | 23 58 | 24 59 | 00 59 | |
| 06 | 268 | 22.6 | N19 | 25.5 | 182 | 36.3 | 8.4 | S15 | 55.9 | 9.4 | 58.9 | 30 | 17 23 | 17 49 | 18 18 | 23 07 | 24 12 | 00 12 | 01 16 | |
| 07 | 283 | 22.6 | | 25.0 | 197 | 03.7 | 8.4 | 16 | 05.3 | 9.4 | 58.9 | 35 | 17 13 | 17 41 | 18 11 | 23 12 | 24 20 | 00 20 | 01 26 | |
| 08 | 298 | 22.6 | | 24.4 | 211 | 31.1 | 8.4 | 16 | 14.7 | 9.2 | 58.9 | 40 | 17 02 | 17 31 | 18 04 | 23 18 | 24 29 | 00 29 | 01 38 | |
| 09 | 313 | 22.6 | | 23.9 | 225 | 58.5 | 8.3 | 16 | 23.9 | 9.2 | 58.9 | 45 | 16 49 | 17 21 | 17 57 | 23 26 | 24 40 | 00 40 | 01 51 | |
| 10 | 328 | 22.6 | | 23.3 | 240 | 25.8 | 8.3 | 16 | 33.1 | 9.0 | 58.8 | S 50 | 16 32 | 17 08 | 17 48 | 23 34 | 24 52 | 00 52 | 02 08 | |
| 11 | 343 | 22.6 | | 22.8 | 254 | 53.1 | 8.3 | 16 | 42.1 | 8.9 | 58.8 | 52 | 16 25 | 17 03 | 17 44 | 23 38 | 24 59 | 00 59 | 02 16 | |
| 12 | 358 | 22.6 | N19 | 22.2 | 269 | 20.4 | 8.2 | S16 | 51.0 | 8.9 | 58.8 | 54 | 16 16 | 16 57 | 17 41 | 23 42 | 25 05 | 01 05 | 02 25 | |
| 13 | 13 | 22.6 | | 21.6 | 283 | 47.6 | 8.2 | 16 | 59.9 | 8.7 | 58.8 | 56 | 16 07 | 16 50 | 17 36 | 23 47 | 25 13 | 01 13 | 02 35 | |
| 14 | 28 | 22.6 | | 21.1 | 298 | 14.8 | 8.2 | 17 | 08.6 | 8.6 | 58.8 | 58 | 15 56 | 16 42 | 17 32 | 23 53 | 25 21 | 01 21 | 02 46 | |
| 15 | 43 | 22.6 | | 20.5 | 312 | 42.0 | 8.2 | 17 | 17.2 | 8.5 | 58.7 | S 60 | 15 43 | 16 34 | 17 27 | 23 59 | 25 31 | 01 31 | 02 59 | |
| 16 | 58 | 22.6 | | 20.0 | 327 | 09.2 | 8.1 | 17 | 25.7 | 8.4 | 58.7 | Día | SOL E.T. (-) | | LUNA Pas. Mer. Sup. Inf. Edad. Fase | | | | | |
| 17 | 73 | 22.6 | | 19.4 | 341 | 36.3 | 8.1 | 17 | 34.1 | 8.3 | 58.7 | 00 h | 12 h | Pas. Mer. | Pas. Mer. Sup. Inf. | Edad. | Fase | | | |
| 18 | 88 | 22.6 | N19 | 18.9 | 356 | 03.4 | 8.0 | S17 | 42.4 | 8.1 | 58.7 | 24 | 06 28 | 06 29 | 12 06 | 16 30 | 04 04 | 05 | | |
| 19 | 103 | 22.6 | | 18.3 | 10 | 30.4 | 8.1 | 17 | 50.5 | 8.1</ | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.0 | | | MARTE +1.6 | | | JUPITER -1.8 | | | SATURNO +0.5 | | | ESTRELLAS | | | |
|---|----------|----------|--------------|------------|--------------|----------|--------------|----------|--------------|--------------|------|-------------|--------------|------|--|-----------|----------|------|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | A.H.G. | Dec. | | Nombre | A. H. S. | Dec. | |
| M A R T E S | 27 00 | 304 41.2 | 221 56.6 N21 | 16.1 | 133 32.7 N 4 | 38.4 | 115 54.9 S 2 | 27.8 | 333 20.1 S13 | 19.3 | | Acamar | 315 29.7 S40 | 19.5 | | | | | |
| | 01 | 319 43.6 | 236 56.0 | 16.4 | 148 33.7 | 37.8 | 130 57.0 | 27.9 | 348 22.7 | 19.4 | | Achernar | 335 37.6 S57 | 15.8 | | | | | |
| | 02 | 334 46.1 | 251 55.4 | 16.7 | 163 34.8 | 37.1 | 145 59.2 | 28.1 | 3 25.3 | 19.5 | | Acrux | 173 26.3 S63 | 04.1 | | | | | |
| | 03 | 349 48.6 | 266 54.9 | 16.9 | 178 35.9 | 36.5 | 161 01.3 | 28.2 | 18 27.9 | 19.5 | | Adhara | 255 24.5 S28 | 57.7 | | | | | |
| | 04 | 4 51.0 | 281 54.3 | 17.2 | 193 36.9 | 35.9 | 176 03.4 | 28.4 | 33 30.6 | 19.6 | | Aldebaran | 291 06.6 N16 | 29.8 | | | | | |
| | 05 | 19 53.5 | 296 53.8 | 17.4 | 208 38.0 | 35.3 | 191 05.6 | 28.5 | 48 33.2 | 19.7 | | | | | | | | | |
| | 06 | 34 56.0 | 311 53.2 N21 | 17.7 | 223 39.0 N 4 | 34.6 | 206 07.7 S 2 | 28.7 | 63 35.8 S13 | 19.7 | | Alioth | 166 33.8 N55 | 59.9 | | | | | |
| | 07 | 49 58.4 | 326 52.6 | 17.9 | 238 40.1 | 34.0 | 221 09.9 | 28.8 | 78 38.4 | 19.8 | | Alkaid | 153 10.6 N49 | 20.9 | | | | | |
| | 08 | 65 00.9 | 341 52.1 | 18.2 | 253 41.2 | 33.4 | 236 12.0 | 29.0 | 93 41.0 | 19.8 | | Al Na'ir | 28 01.8 S46 | 59.2 | | | | | |
| | 09 | 80 03.3 | 356 51.5 | 18.4 | 268 42.2 | 32.7 | 251 14.1 | 29.1 | 108 43.6 | 19.9 | | Alnilam | 276 01.7 S 1 | 12.3 | | | | | |
| | 10 | 95 05.8 | 11 50.9 | 18.7 | 283 43.3 | 32.1 | 266 16.3 | 29.2 | 123 46.3 | 20.0 | | Alphard | 218 11.0 S 8 | 37.9 | | | | | |
| | 11 | 110 08.3 | 26 50.4 | 18.9 | 298 44.4 | 31.5 | 281 18.4 | 29.4 | 138 48.9 | 20.0 | | | | | | | | | |
| | 12 | 125 10.7 | 41 49.8 N21 | 19.2 | 313 45.4 N 4 | 30.8 | 296 20.6 S 2 | 29.5 | 153 51.5 S13 | 20.1 | | Alphecca | 126 23.4 N26 | 44.4 | | | | | |
| | 13 | 140 13.2 | 56 49.2 | 19.4 | 328 46.5 | 30.2 | 311 22.7 | 29.7 | 168 54.1 | 20.2 | | Alpheratz | 357 58.7 N29 | 03.3 | | | | | |
| | 14 | 155 15.7 | 71 48.7 | 19.7 | 343 47.5 | 29.6 | 326 24.8 | 29.8 | 183 56.7 | 20.2 | | Altair | 62 22.4 N 8 | 51.3 | | | | | |
| | 15 | 170 18.1 | 86 48.1 | 19.9 | 358 48.6 | 29.0 | 341 27.0 | 30.0 | 198 59.4 | 20.3 | | Ankaa | 353 30.1 S42 | 20.1 | | | | | |
| | 16 | 185 20.6 | 101 47.5 | 20.2 | 13 49.7 | 28.3 | 356 29.1 | 30.1 | 214 02.0 | 20.3 | | Antares | 112 44.3 S26 | 25.1 | | | | | |
| | 17 | 200 23.1 | 116 47.0 | 20.4 | 28 50.7 | 27.7 | 11 31.3 | 30.3 | 229 04.6 | 20.4 | | | | | | | | | |
| | 18 | 215 25.5 | 131 46.4 N21 | 20.7 | 43 51.8 N 4 | 27.1 | 26 33.4 S 2 | 30.4 | 244 07.2 S13 | 20.5 | | Arcturus | 146 09.3 N19 | 13.1 | | | | | |
| | 19 | 230 28.0 | 146 45.8 | 20.9 | 58 52.8 | 26.4 | 41 35.5 | 30.6 | 259 09.8 | 20.5 | | Atria | 107 59.1 S69 | 01.2 | | | | | |
| | 20 | 245 30.5 | 161 45.3 | 21.1 | 73 53.9 | 25.8 | 56 37.7 | 30.7 | 274 12.4 | 20.6 | | Avior | 234 24.7 S59 | 29.4 | | | | | |
| | 21 | 260 32.9 | 176 44.7 | 21.4 | 88 55.0 | 25.2 | 71 39.8 | 30.9 | 289 15.1 | 20.7 | | Bellatrix | 278 48.2 N 6 | 20.7 | | | | | |
| | 22 | 275 35.4 | 191 44.1 | 21.6 | 103 56.0 | 24.5 | 86 42.0 | 31.0 | 304 17.7 | 20.7 | | Betelgeuse | 271 17.6 N 7 | 24.4 | | | | | |
| 23 | 290 37.8 | 206 43.6 | 21.9 | 118 57.1 | 23.9 | 101 44.1 | 31.2 | 319 20.3 | 20.8 | | | | | | | | | | |
| M I E R C O L E S | 28 00 | 305 40.3 | 221 43.0 N21 | 22.1 | 133 58.2 N 4 | 23.3 | 116 46.2 S 2 | 31.3 | 334 22.9 S13 | 20.8 | | Canopus | 264 03.2 S52 | 41.4 | | | | | |
| | 01 | 320 42.8 | 236 42.4 | 22.3 | 148 59.2 | 22.6 | 131 48.4 | 31.5 | 349 25.5 | 20.9 | | Capella | 280 56.7 N45 | 59.4 | | | | | |
| | 02 | 335 45.2 | 251 41.8 | 22.6 | 164 00.3 | 22.0 | 146 50.5 | 31.6 | 4 28.2 | 21.0 | | Deneb | 49 41.1 N45 | 15.6 | | | | | |
| | 03 | 350 47.7 | 266 41.3 | 22.8 | 179 01.3 | 21.4 | 161 52.6 | 31.8 | 19 30.8 | 21.0 | | Denebola | 182 49.0 N14 | 36.5 | | | | | |
| | 04 | 5 50.2 | 281 40.7 | 23.0 | 194 02.4 | 20.8 | 176 54.8 | 31.9 | 34 33.4 | 21.1 | | Diphda | 349 10.6 S18 | 01.0 | | | | | |
| | 05 | 20 52.6 | 296 40.1 | 23.3 | 209 03.5 | 20.1 | 191 56.9 | 32.1 | 49 36.0 | 21.2 | | | | | | | | | |
| | 06 | 35 55.1 | 311 39.6 N21 | 23.5 | 224 04.5 N 4 | 19.5 | 206 59.1 S 2 | 32.2 | 64 38.6 S13 | 21.2 | | Dubhe | 194 10.3 N61 | 47.2 | | | | | |
| | 07 | 50 57.6 | 326 39.0 | 23.7 | 239 05.6 | 18.9 | 222 01.2 | 32.4 | 79 41.3 | 21.3 | | Elnath | 278 31.7 N28 | 36.1 | | | | | |
| | 08 | 66 00.0 | 341 38.4 | 24.0 | 254 06.6 | 18.2 | 237 03.3 | 32.5 | 94 43.9 | 21.3 | | Eltanin | 90 52.6 N51 | 29.6 | | | | | |
| | 09 | 81 02.5 | 356 37.8 | 24.2 | 269 07.7 | 17.6 | 252 05.5 | 32.6 | 109 46.5 | 21.4 | | Enif | 34 01.4 N 9 | 50.9 | | | | | |
| | 10 | 96 05.0 | 11 37.3 | 24.4 | 284 08.8 | 17.0 | 267 07.6 | 32.8 | 124 49.1 | 21.5 | | Fomalhaut | 15 40.0 S29 | 39.1 | | | | | |
| | 11 | 111 07.4 | 26 36.7 | 24.7 | 299 09.8 | 16.3 | 282 09.7 | 32.9 | 139 51.7 | 21.5 | | | | | | | | | |
| | 12 | 126 09.9 | 41 36.1 N21 | 24.9 | 314 10.9 N 4 | 15.7 | 297 11.9 S 2 | 33.1 | 154 54.4 S13 | 21.6 | | Gacrux | 172 17.8 S57 | 04.9 | | | | | |
| | 13 | 141 12.3 | 56 35.5 | 25.1 | 329 11.9 | 15.1 | 312 14.0 | 33.2 | 169 57.0 | 21.7 | | Gienah | 176 07.8 S17 | 30.5 | | | | | |
| | 14 | 156 14.8 | 71 35.0 | 25.3 | 344 13.0 | 14.4 | 327 16.1 | 33.4 | 184 59.6 | 21.7 | | Hadar | 149 09.1 S60 | 20.8 | | | | | |
| | 15 | 171 17.3 | 86 34.4 | 25.6 | 359 14.1 | 13.8 | 342 18.3 | 33.5 | 200 02.2 | 21.8 | | Hamal | 328 17.5 N23 | 25.9 | | | | | |
| | 16 | 186 19.7 | 101 33.8 | 25.8 | 14 15.1 | 13.2 | 357 20.4 | 33.7 | 215 04.8 | 21.9 | | Kaus Aust. | 84 03.1 S34 | 23.2 | | | | | |
| | 17 | 201 22.2 | 116 33.2 | 26.0 | 29 16.2 | 12.5 | 12 22.5 | 33.8 | 230 07.5 | 21.9 | | | | | | | | | |
| | 18 | 216 24.7 | 131 32.6 N21 | 26.2 | 44 17.2 N 4 | 11.9 | 27 24.7 S 2 | 34.0 | 245 10.1 S13 | 22.0 | | Kochab | 137 19.2 N74 | 11.2 | | | | | |
| | 19 | 231 27.1 | 146 32.1 | 26.4 | 59 18.3 | 11.3 | 42 26.8 | 34.1 | 260 12.7 | 22.0 | | Markab | 13 52.9 N15 | 10.4 | | | | | |
| | 20 | 246 29.6 | 161 31.5 | 26.7 | 74 19.4 | 10.6 | 57 28.9 | 34.3 | 275 15.3 | 22.1 | | Menkar | 314 30.7 N 4 | 04.0 | | | | | |
| | 21 | 261 32.1 | 176 30.9 | 26.9 | 89 20.4 | 10.0 | 72 31.1 | 34.4 | 290 18.0 | 22.2 | | Menkent | 148 25.1 S36 | 20.5 | | | | | |
| | 22 | 276 34.5 | 191 30.3 | 27.1 | 104 21.5 | 09.4 | 87 33.2 | 34.6 | 305 20.6 | 22.2 | | Miaplacidus | 221 43.7 S69 | 41.6 | | | | | |
| 23 | 291 37.0 | 206 29.8 | 27.3 | 119 22.5 | 08.8 | 102 35.3 | 34.7 | 320 23.2 | 22.3 | | | | | | | | | | |
| J U L I O | 29 00 | 306 39.4 | 221 29.2 N21 | 27.5 | 134 23.6 N 4 | 08.1 | 117 37.5 S 2 | 34.9 | 335 25.8 S13 | 22.4 | | Mirfak | 309 01.8 N49 | 50.2 | | | | | |
| | 01 | 321 41.9 | 236 28.6 | 27.8 | 149 24.7 | 07.5 | 132 39.6 | 35.0 | 350 28.4 | 22.4 | | Nunki | 76 16.3 S26 | 18.2 | | | | | |
| | 02 | 336 44.4 | 251 28.0 | 28.0 | 164 25.7 | 06.9 | 147 41.7 | 35.2 | 5 31.1 | 22.5 | | Peacock | 53 41.9 S56 | 45.2 | | | | | |
| | 03 | 351 46.8 | 266 27.4 | 28.2 | 179 26.8 | 06.2 | 162 43.9 | 35.3 | 20 33.7 | 22.5 | | Pollux | 243 46.2 N28 | 02.5 | | | | | |
| | 04 | 6 49.3 | 281 26.8 | 28.4 | 194 27.8 | 05.6 | 177 46.0 | 35.5 | 35 36.3 | 22.6 | | Procyon | 245 15.6 N 5 | 14.5 | | | | | |
| | 05 | 21 51.8 | 296 26.3 | 28.6 | 209 28.9 | 05.0 | 192 48.1 | 35.6 | 50 38.9 | 22.7 | | | | | | | | | |
| | 06 | 36 54.2 | 311 25.7 N21 | 28.8 | 224 30.0 N 4 | 04.3 | 207 50.3 S 2 | 35.8 | 65 41.6 S13 | 22.7 | | Rasalhague | 96 20.0 N12 | 34.0 | | | | | |
| | 07 | 51 56.7 | 326 25.1 | 29.0 | 239 31.0 | 03.7 | 222 52.4 | 35.9 | 80 44.2 | 22.8 | | Regulus | 207 59.6 N11 | 59.9 | | | | | |
| | 08 | 66 59.2 | 341 24.5 | 29.2 | 254 32.1 | 03.1 | 237 54.5 | 36.1 | 95 46.8 | 22.9 | | Rigel | 281 26.6 S 8 | 12.4 | | | | | |
| | 09 | 82 01.6 | 356 23.9 | 29.4 | 269 33.1 | 02.4 | 252 56.7 | 36.2 | 110 49.4 | 22.9 | | Rigil Kent. | 140 12.0 S60 | 48.8 | | | | | |
| | 10 | 97 04.1 | 11 23.4 | 29.6 | 284 34.2 | 01.8 | 267 58.8 | 36.4 | 125 52.0 | 23.0 | | Sabik | 102 29.3 S15 | 43.0 | | | | | |
| | 11 | 112 06.6 | 26 22.8 | 29.9 | 299 35.2 | 01.2 | 283 00.9 | 36.5 | 140 54.7 | 23.1 | | | | | | | | | |
| | 12 | 127 09.0 | 41 22.2 N21 | 30.1 | 314 36.3 N 4 | 00.5 | 298 03.1 S 2 | 36.7 | 155 57.3 S13 | 23.1 | | Schedar | 349 57.3 N56 | 30.0 | | | | | |
| | 13 | 142 11.5 | 56 21.6 | 30.3 | 329 37.4 | 3 59.9 | 313 05.2 | 36.8 | 170 59.9 | 23.2 | | Shaula | 96 41.7 S37 | 06.0 | | | | | |
| | 14 | 157 13.9 | 71 21.0 | 30.5 | 344 38.4 | 59.3 | 328 07.3 | 37.0 | 186 02.5 | 23.2 | | Sirius | 258 47.1 S16 | 42.4 | | | | | |
| | 15 | 172 16.4 | 86 20.4 | 30.7 | 359 39.5 | 58.6 | 343 09.5 | 37.1 | 201 05.2 | 23.3 | | Spica | 158 47.0 S11 | 07.7 | | | | | |
| | 16 | 187 18.9 | 101 19.8 | 30.9 | 14 40.5 | 58.0 | 358 11.6 | 37.3 | 216 07.8 | 23.4 | | Suhail | 223 03.8 S43 | 24.5 | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | |
|---|----------|----------|----------|----------|---------|----------|------|------------|-------|-----------|------------|-----------|------------|-------|-------|-------|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | | 27 | 28 | 29 | 30 | |
| | | | | | | | | | h | | m | h | m | h | m | h | m |
| M A R T E S | 27 00 | 178 22.7 | N19 15.5 | 82 45.3 | 7.9 | S18 29.7 | 7.5 | 58.6 | N 72 | □ | □ | □ | ■ | ■ | ■ | ■ | |
| | 01 | 193 22.7 | 14.9 | 97 12.2 | 7.9 | 18 37.2 | 7.4 | 58.5 | N 70 | /// | /// | 00 35 | ■ | ■ | ■ | ■ | |
| | 02 | 208 22.7 | 14.4 | 111 39.1 | 7.8 | 18 44.6 | 7.2 | 58.5 | 68 | /// | /// | 01 53 | 17 41 | ■ | ■ | 20 48 | |
| | 03 | 223 22.7 | 13.8 | 126 05.9 | 7.8 | 18 51.8 | 7.2 | 58.5 | 66 | /// | /// | 02 30 | 16 55 | 18 27 | 19 28 | 19 56 | |
| | 04 | 238 22.7 | 13.2 | 140 32.7 | 7.8 | 18 59.0 | 7.0 | 58.5 | 64 | /// | 01 12 | 02 55 | 16 25 | 17 47 | 18 47 | 19 23 | |
| | 05 | 253 22.7 | 12.7 | 154 59.5 | 7.7 | 19 06.0 | 6.9 | 58.5 | 62 | /// | 01 58 | 03 15 | 16 02 | 17 20 | 18 19 | 18 59 | |
| | 06 | 268 22.7 | N19 12.1 | 169 26.2 | 7.8 | S19 12.9 | 6.8 | 58.4 | 60 | /// | 02 27 | 03 31 | 15 44 | 16 59 | 17 58 | 18 40 | |
| | 07 | 283 22.7 | 11.5 | 183 53.0 | 7.7 | 19 19.7 | 6.6 | 58.4 | N 58 | 01 06 | 02 49 | 03 45 | 15 29 | 16 41 | 17 40 | 18 24 | |
| | 08 | 298 22.7 | 11.0 | 198 19.7 | 7.7 | 19 26.3 | 6.6 | 58.4 | 56 | 01 48 | 03 06 | 03 56 | 15 16 | 16 27 | 17 25 | 18 11 | |
| | 09 | 313 22.7 | 10.4 | 212 46.4 | 7.6 | 19 32.9 | 6.4 | 58.4 | 54 | 02 14 | 03 21 | 04 07 | 15 05 | 16 14 | 17 13 | 17 59 | |
| | 10 | 328 22.7 | 09.8 | 227 13.0 | 7.7 | 19 39.3 | 6.3 | 58.3 | 52 | 02 35 | 03 33 | 04 16 | 14 55 | 16 03 | 17 01 | 17 49 | |
| | 11 | 343 22.7 | 09.3 | 241 39.7 | 7.6 | 19 45.6 | 6.1 | 58.3 | 50 | 02 51 | 03 44 | 04 24 | 14 46 | 15 53 | 16 51 | 17 39 | |
| | 12 | 358 22.8 | N19 08.7 | 256 06.3 | 7.6 | S19 51.7 | 6.1 | 58.3 | 45 | 03 23 | 04 06 | 04 41 | 14 28 | 15 33 | 16 30 | 17 20 | |
| | 13 | 13 22.8 | 08.1 | 270 32.9 | 7.5 | 19 57.8 | 5.9 | 58.3 | N 40 | 03 46 | 04 24 | 04 55 | 14 13 | 15 16 | 16 13 | 17 04 | |
| | 14 | 28 22.8 | 07.6 | 284 59.4 | 7.6 | 20 03.7 | 5.8 | 58.3 | 35 | 04 04 | 04 38 | 05 06 | 14 00 | 15 02 | 15 59 | 16 50 | |
| | 15 | 43 22.8 | 07.0 | 299 26.0 | 7.5 | 20 09.5 | 5.7 | 58.2 | 30 | 04 19 | 04 50 | 05 16 | 13 49 | 14 50 | 15 47 | 16 38 | |
| | 16 | 58 22.8 | 06.4 | 313 52.5 | 7.5 | 20 15.2 | 5.5 | 58.2 | 20 | 04 42 | 05 10 | 05 34 | 13 30 | 14 29 | 15 25 | 16 18 | |
| | 17 | 73 22.8 | 05.8 | 328 19.0 | 7.5 | 20 20.7 | 5.4 | 58.2 | N 10 | 05 00 | 05 27 | 05 49 | 13 14 | 14 11 | 15 07 | 16 01 | |
| | 18 | 88 22.8 | N19 05.3 | 342 45.5 | 7.5 | S20 26.1 | 5.3 | 58.2 | 0 | 05 16 | 05 41 | 06 03 | 12 58 | 13 54 | 14 50 | 15 44 | |
| | 19 | 103 22.8 | 04.7 | 357 12.0 | 7.5 | 20 31.4 | 5.2 | 58.2 | S 10 | 05 29 | 05 55 | 06 17 | 12 43 | 13 37 | 14 33 | 15 28 | |
| | 20 | 118 22.8 | 04.1 | 11 38.5 | 7.4 | 20 36.6 | 5.0 | 58.1 | 20 | 05 41 | 06 08 | 06 31 | 12 27 | 13 19 | 14 14 | 15 10 | |
| | 21 | 133 22.8 | 03.6 | 26 04.9 | 7.5 | 20 41.6 | 4.9 | 58.1 | 30 | 05 54 | 06 23 | 06 48 | 12 08 | 12 59 | 13 53 | 14 50 | |
| | 22 | 148 22.8 | 03.0 | 40 31.4 | 7.4 | 20 46.5 | 4.8 | 58.1 | 35 | 06 00 | 06 31 | 06 58 | 11 58 | 12 47 | 13 41 | 14 38 | |
| 23 | 163 22.9 | 02.4 | 54 57.8 | 7.4 | 20 51.3 | 4.7 | 58.1 | 40 | 06 07 | 06 40 | 07 09 | 11 45 | 12 33 | 13 27 | 14 25 | | |
| M I E R C O L E S | 28 00 | 178 22.9 | N19 01.8 | 69 24.2 | 7.4 | S20 56.0 | 4.5 | 58.0 | 45 | 06 14 | 06 50 | 07 22 | 11 31 | 12 17 | 13 10 | 14 09 | |
| | 01 | 193 22.9 | 01.3 | 83 50.6 | 7.4 | 21 00.5 | 4.4 | 58.0 | S 50 | 06 22 | 07 01 | 07 37 | 11 13 | 11 57 | 12 49 | 13 49 | |
| | 02 | 208 22.9 | 00.7 | 98 17.0 | 7.4 | 21 04.9 | 4.3 | 58.0 | 52 | 06 25 | 07 07 | 07 44 | 11 05 | 11 48 | 12 39 | 13 39 | |
| | 03 | 223 22.9 | 19 00.1 | 112 43.4 | 7.3 | 21 09.2 | 4.1 | 58.0 | 54 | 06 29 | 07 13 | 07 53 | 10 56 | 11 37 | 12 28 | 13 29 | |
| | 04 | 238 22.9 | 18 59.5 | 127 09.7 | 7.4 | 21 13.3 | 4.0 | 58.0 | 56 | 06 33 | 07 19 | 08 02 | 10 46 | 11 25 | 12 15 | 13 17 | |
| | 05 | 253 22.9 | 58.9 | 141 36.1 | 7.4 | 21 17.3 | 3.9 | 57.9 | 58 | 06 38 | 07 26 | 08 12 | 10 34 | 11 11 | 12 01 | 13 03 | |
| | 06 | 268 22.9 | N18 58.4 | 156 02.5 | 7.3 | S21 21.2 | 3.7 | 57.9 | S 60 | 06 42 | 07 34 | 08 24 | 10 20 | 10 55 | 11 43 | 12 46 | |
| | 07 | 283 23.0 | 57.8 | 170 28.8 | 7.3 | 21 24.9 | 3.6 | 57.9 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | | |
| | 08 | 298 23.0 | 57.2 | 184 55.1 | 7.4 | 21 28.5 | 3.5 | 57.9 | | | Civil | Náut. | 27 | 28 | 29 | 30 | |
| | 09 | 313 23.0 | 56.6 | 199 21.5 | 7.3 | 21 32.0 | 3.3 | 57.8 | N 72 | □ | □ | □ | ■ | ■ | ■ | ■ | |
| | 10 | 328 23.0 | 56.0 | 213 47.8 | 7.3 | 21 35.3 | 3.3 | 57.8 | N 70 | 23 21 | /// | /// | ■ | ■ | ■ | ■ | |
| | 11 | 343 23.0 | 55.5 | 228 14.1 | 7.4 | 21 38.6 | 3.0 | 57.8 | 68 | 22 15 | /// | /// | 20 34 | ■ | ■ | 23 13 | |
| | 12 | 358 23.0 | N18 54.9 | 242 40.5 | 7.3 | S21 41.6 | 3.0 | 57.8 | 66 | 21 40 | /// | /// | 21 21 | 21 45 | 22 40 | 24 05 | |
| | 13 | 13 23.0 | 54.3 | 257 06.8 | 7.3 | 21 44.6 | 2.8 | 57.8 | 64 | 21 15 | 22 54 | /// | 21 51 | 22 25 | 23 21 | 24 37 | |
| | 14 | 28 23.1 | 53.7 | 271 33.1 | 7.4 | 21 47.4 | 2.7 | 57.7 | 62 | 20 56 | 22 11 | /// | 22 14 | 22 53 | 23 48 | 25 00 | |
| | 15 | 43 23.1 | 53.1 | 285 59.5 | 7.3 | 21 50.1 | 2.5 | 57.7 | 60 | 20 40 | 21 43 | /// | 22 33 | 23 14 | 24 10 | 00 10 | |
| | 16 | 58 23.1 | 52.5 | 300 25.8 | 7.3 | 21 52.6 | 2.5 | 57.7 | N 58 | 20 27 | 21 22 | 23 01 | 22 48 | 23 31 | 24 27 | 00 27 | |
| | 17 | 73 23.1 | 52.0 | 314 52.1 | 7.4 | 21 55.1 | 2.2 | 57.7 | 56 | 20 15 | 21 05 | 22 22 | 23 01 | 23 46 | 24 42 | 00 42 | |
| | 18 | 88 23.1 | N18 51.4 | 329 18.5 | 7.3 | S21 57.3 | 2.2 | 57.7 | 54 | 20 05 | 20 51 | 21 56 | 23 13 | 23 59 | 24 55 | 00 55 | |
| | 19 | 103 23.1 | 50.8 | 343 44.8 | 7.4 | 21 59.5 | 2.0 | 57.6 | 52 | 19 56 | 20 39 | 21 36 | 23 23 | 24 10 | 00 10 | 01 06 | |
| | 20 | 118 23.2 | 50.2 | 358 11.2 | 7.3 | 22 01.5 | 1.9 | 57.6 | 50 | 19 48 | 20 28 | 21 20 | 23 32 | 24 20 | 00 20 | 01 16 | |
| | 21 | 133 23.2 | 49.6 | 12 37.5 | 7.4 | 22 03.4 | 1.8 | 57.6 | 45 | 19 32 | 20 06 | 20 49 | 23 51 | 24 41 | 00 41 | 01 37 | |
| | 22 | 148 23.2 | 49.0 | 27 03.9 | 7.4 | 22 05.2 | 1.6 | 57.6 | N 40 | 19 18 | 19 48 | 20 26 | 24 07 | 00 07 | 00 58 | 01 54 | |
| 23 | 163 23.2 | 48.4 | 41 30.3 | 7.4 | 22 06.8 | 1.5 | 57.5 | 35 | 19 06 | 19 34 | 20 08 | 24 20 | 00 20 | 01 12 | 02 08 | | |
| J U E V E S | 29 00 | 178 23.2 | N18 47.9 | 55 56.7 | 7.4 | S22 08.3 | 1.3 | 57.5 | 30 | 18 56 | 19 22 | 19 54 | 24 32 | 00 32 | 01 24 | 02 20 | |
| | 01 | 193 23.2 | 47.3 | 70 23.1 | 7.4 | 22 09.6 | 1.3 | 57.5 | 20 | 18 39 | 19 02 | 19 30 | 00 00 | 00 52 | 01 45 | 02 41 | |
| | 02 | 208 23.3 | 46.7 | 84 49.5 | 7.5 | 22 10.9 | 1.0 | 57.5 | N 10 | 18 24 | 18 46 | 19 12 | 00 15 | 01 09 | 02 04 | 02 59 | |
| | 03 | 223 23.3 | 46.1 | 99 16.0 | 7.4 | 22 11.9 | 1.0 | 57.5 | 0 | 18 10 | 18 32 | 18 57 | 00 29 | 01 25 | 02 21 | 03 16 | |
| | 04 | 238 23.3 | 45.5 | 113 42.4 | 7.5 | 22 12.9 | 0.8 | 57.4 | S 10 | 17 56 | 18 18 | 18 44 | 00 44 | 01 41 | 02 38 | 03 33 | |
| | 05 | 253 23.3 | 44.9 | 128 08.9 | 7.5 | 22 13.7 | 0.7 | 57.4 | 20 | 17 42 | 18 05 | 18 32 | 00 59 | 01 58 | 02 56 | 03 51 | |
| | 06 | 268 23.3 | N18 44.3 | 142 35.4 | 7.5 | S22 14.4 | 0.6 | 57.4 | 30 | 17 25 | 17 50 | 18 19 | 01 16 | 02 18 | 03 17 | 04 12 | |
| | 07 | 283 23.4 | 43.7 | 157 01.9 | 7.5 | 22 15.0 | 0.4 | 57.4 | 35 | 17 16 | 17 43 | 18 13 | 01 26 | 02 30 | 03 30 | 04 24 | |
| | 08 | 298 23.4 | 43.1 | 171 28.4 | 7.5 | 22 15.4 | 0.3 | 57.3 | 40 | 17 05 | 17 34 | 18 07 | 01 38 | 02 43 | 03 44 | 04 38 | |
| | 09 | 313 23.4 | 42.5 | 185 54.9 | 7.6 | 22 15.7 | 0.2 | 57.3 | 45 | 16 52 | 17 24 | 17 59 | 01 51 | 02 59 | 04 01 | 04 54 | |
| | 10 | 328 23.4 | 41.9 | 200 21.5 | 7.6 | 22 15.9 | 0.0 | 57.3 | S 50 | 16 36 | 17 12 | 17 51 | 02 08 | 03 19 | 04 22 | 05 15 | |
| | 11 | 343 23.4 | 41.3 | 214 48.1 | 7.6 | 22 15.9 | 0.1 | 57.3 | 52 | 16 29 | 17 07 | 17 48 | 02 16 | 03 28 | 04 31 | 05 24 | |
| | 12 | 358 23.5 | N18 40.8 | 229 14.7 | 7.7 | S22 15.8 | 0.2 | 57.3 | 54 | 16 21 | 17 01 | 17 44 | 02 25 | 03 38 | 04 42 | 05 35 | |
| | 13 | 13 23.5 | 40.2 | 243 41.4 | 7.6 | 22 15.6 | 0.4 | 57.2 | 56 | 16 12 | 16 54 | 17 40 | 02 35 | 03 50 | 04 55 | 05 47 | |
| | 14 | 28 23.5 | 39.6 | 258 08.0 | 7.7 | 22 15.2 | 0.5 | 57.2 | 58 | 16 02 | 16 47 | 17 36 | 02 46 | 04 04 | 05 10 | 06 01 | |
| | 15 | 43 23.5 | 39.0 | 272 34.7 | 7.8 | 22 14.7 | 0.6 | 57.2 | S 60 | 15 50 | 16 39 | 17 31 | 02 59 | 04 20 | 05 27 | 06 18 | |
| | 16 | 58 23.5 | 38.4 | 287 01.5 | 7.7 | 22 14.1 | 0.7 | 57.2 | Lat. | SOL | | LUNA | | | | | |
| | 17 | 73 23.6 | 37.8 | 301 28.2 | 7.8 | 22 13.4 | 0.9 | 57.2 | | E.T. (-) | Pas. Mer. | Pas. Sup. | Mer. Inf. | Edac. | Fase | | |
| | 18 | 88 23.6 | N18 37.2 | 315 55.0 | 7.8 | S22 12.5 | 1.0 | 57.1 | 27 | 06 29 | 06 29 | 12 06 | 19 12 | 06 44 | 08 | | |
| | 19 | 103 23.6 | 36.6 | 330 21.8 | 7.9 | 22 11.5 | 1.1 | 57.1 | 28 | 06 29 | 06 28 | 12 06 | 20 08 | 07 40 | 09 | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.0 | | | MARTE +1.6 | | | JUPITER -1.8 | | | SATURNO +0.4 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|--------------|------|--------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 30 00 | 307 38.6 | 221 15.1 N21 | 32.4 | 134 49.0 N 3 | 52.9 | 118 28.6 S 2 | 38.5 | 336 28.8 S13 | 23.9 | Acamar | 315 29.6 S40 | 19.5 | | | | | | |
| 01 | 322 41.1 | 236 14.5 | 32.6 | 149 50.1 N | 52.3 | 133 30.8 | 38.6 | 351 31.4 | 23.9 | Achernar | 335 37.6 S57 | 15.8 | | | | | | |
| 02 | 337 43.5 | 251 14.0 | 32.8 | 164 51.1 | 51.6 | 148 32.9 | 38.8 | 6 34.0 | 24.0 | Acrux | 173 26.3 S63 | 04.1 | | | | | | |
| 03 | 352 46.0 | 266 13.4 | 33.0 | 179 52.2 | 51.0 | 163 35.0 | 39.0 | 21 36.6 | 24.1 | Adhara | 255 24.5 S28 | 57.7 | | | | | | |
| 04 | 7 48.4 | 281 12.8 | 33.2 | 194 53.2 | 50.4 | 178 37.1 | 39.1 | 36 39.3 | 24.1 | Aldebaran | 291 06.6 N16 | 29.8 | | | | | | |
| 05 | 22 50.9 | 296 12.2 | 33.4 | 209 54.3 | 49.7 | 193 39.3 | 39.3 | 51 41.9 | 24.2 | | | | | | | | | |
| 06 | 37 53.4 | 311 11.6 N21 | 33.6 | 224 55.4 N 3 | 49.1 | 208 41.4 S 2 | 39.4 | 66 44.5 S13 | 24.3 | Alioth | 166 33.9 N55 | 59.9 | | | | | | |
| 07 | 52 55.8 | 326 11.0 | 33.8 | 239 56.4 | 48.5 | 223 43.5 | 39.6 | 81 47.1 | 24.3 | Alkaid | 153 10.6 N49 | 20.9 | | | | | | |
| 08 | 67 58.3 | 341 10.4 | 34.0 | 254 57.5 | 47.8 | 238 45.7 | 39.7 | 96 49.8 | 24.4 | Al Na'ir | 28 01.8 S46 | 59.3 | | | | | | |
| V 09 | 83 00.8 | 356 09.8 | 34.2 | 269 58.5 | 47.2 | 253 47.8 | 39.9 | 111 52.4 | 24.5 | Alnilam | 276 01.7 S 1 | 12.3 | | | | | | |
| I 10 | 98 03.2 | 11 09.2 | 34.3 | 284 59.6 | 46.6 | 268 49.9 | 40.0 | 126 55.0 | 24.5 | Alphard | 218 11.0 S 8 | 37.9 | | | | | | |
| E 11 | 113 05.7 | 26 08.6 | 34.5 | 300 00.6 | 45.9 | 283 52.0 | 40.2 | 141 57.6 | 24.6 | | | | | | | | | |
| R 12 | 128 08.2 | 41 08.0 N21 | 34.7 | 315 01.7 N 3 | 45.3 | 298 54.2 S 2 | 40.3 | 157 00.3 S13 | 24.6 | Alphecca | 126 23.4 N26 | 44.4 | | | | | | |
| N 13 | 143 10.6 | 56 07.4 | 34.9 | 330 02.8 | 44.7 | 313 56.3 | 40.5 | 172 02.9 | 24.7 | Alpheratz | 357 58.7 N29 | 03.4 | | | | | | |
| E 14 | 158 13.1 | 71 06.8 | 35.1 | 345 03.8 | 44.0 | 328 58.4 | 40.6 | 187 05.5 | 24.8 | Alfair | 62 22.4 N 8 | 51.3 | | | | | | |
| S 15 | 173 15.5 | 86 06.3 | 35.3 | 0 04.9 | 43.4 | 344 00.6 | 40.8 | 202 08.1 | 24.8 | Ankaa | 353 30.1 S42 | 20.1 | | | | | | |
| 16 | 188 18.0 | 101 05.7 | 35.4 | 15 05.9 | 42.8 | 359 02.7 | 40.9 | 217 10.8 | 24.9 | Antares | 112 44.3 S26 | 25.1 | | | | | | |
| 17 | 203 20.5 | 116 05.1 | 35.6 | 30 07.0 | 42.1 | 14 04.8 | 41.1 | 232 13.4 | 25.0 | | | | | | | | | |
| 18 | 218 22.9 | 131 04.5 N21 | 35.8 | 45 08.0 N 3 | 41.5 | 29 06.9 S 2 | 41.2 | 247 16.0 S13 | 25.0 | Arcturus | 146 09.3 N19 | 13.1 | | | | | | |
| 19 | 233 25.4 | 146 03.9 | 36.0 | 60 09.1 | 40.8 | 44 09.1 | 41.4 | 262 18.6 | 25.1 | Atria | 107 59.1 S69 | 01.2 | | | | | | |
| 20 | 248 27.9 | 161 03.3 | 36.1 | 75 10.2 | 40.2 | 59 11.2 | 41.5 | 277 21.3 | 25.2 | Avior | 234 24.7 S59 | 29.4 | | | | | | |
| 21 | 263 30.3 | 176 02.7 | 36.3 | 90 11.2 | 39.6 | 74 13.3 | 41.7 | 292 23.9 | 25.2 | Bellatrix | 278 48.2 N 6 | 20.7 | | | | | | |
| 22 | 278 32.8 | 191 02.1 | 36.5 | 105 12.3 | 38.9 | 89 15.4 | 41.8 | 307 26.5 | 25.3 | Betelgeuse | 271 17.6 N 7 | 24.4 | | | | | | |
| 23 | 293 35.3 | 206 01.5 | 36.7 | 120 13.3 | 38.3 | 104 17.6 | 42.0 | 322 29.1 | 25.4 | | | | | | | | | |
| 31 00 | 308 37.7 | 221 00.9 N21 | 36.8 | 135 14.4 N 3 | 37.7 | 119 19.7 S 2 | 42.1 | 337 31.8 S13 | 25.4 | Canopus | 264 03.2 S52 | 41.4 | | | | | | |
| 01 | 323 40.2 | 236 00.3 | 37.0 | 150 15.4 | 37.0 | 134 21.8 | 42.3 | 352 34.4 | 25.5 | Capella | 280 56.7 N45 | 59.4 | | | | | | |
| 02 | 338 42.7 | 250 59.7 | 37.2 | 165 16.5 | 36.4 | 149 23.9 | 42.5 | 7 37.0 | 25.5 | Deneb | 49 41.1 N45 | 15.6 | | | | | | |
| 03 | 353 45.1 | 265 59.1 | 37.3 | 180 17.5 | 35.8 | 164 26.1 | 42.6 | 22 39.6 | 25.6 | Denebola | 182 49.0 N14 | 36.5 | | | | | | |
| 04 | 8 47.6 | 280 58.5 | 37.5 | 195 18.6 | 35.1 | 179 28.2 | 42.8 | 37 42.3 | 25.7 | Diphda | 349 10.6 S18 | 01.0 | | | | | | |
| 05 | 23 50.0 | 295 57.9 | 37.7 | 210 19.7 | 34.5 | 194 30.3 | 42.9 | 52 44.9 | 25.7 | | | | | | | | | |
| 06 | 38 52.5 | 310 57.3 N21 | 37.8 | 225 20.7 N 3 | 33.9 | 209 32.4 S 2 | 43.1 | 67 47.5 S13 | 25.8 | Dubhe | 194 10.3 N61 | 47.2 | | | | | | |
| 07 | 53 55.0 | 325 56.7 | 38.0 | 240 21.8 | 33.2 | 224 34.6 | 43.2 | 82 50.1 | 25.9 | Elnath | 278 31.6 N28 | 36.1 | | | | | | |
| 08 | 68 57.4 | 340 56.1 | 38.2 | 255 22.8 | 32.6 | 239 36.7 | 43.4 | 97 52.8 | 25.9 | Eltanin | 90 52.6 N51 | 29.6 | | | | | | |
| S 09 | 83 59.9 | 355 55.5 | 38.3 | 270 23.9 | 31.9 | 254 38.8 | 43.5 | 112 55.4 | 26.0 | Enif | 34 01.4 N 9 | 50.9 | | | | | | |
| A 10 | 99 02.4 | 10 54.9 | 38.5 | 285 24.9 | 31.3 | 269 40.9 | 43.7 | 127 58.0 | 26.1 | Fomalhaut | 15 40.0 S29 | 39.1 | | | | | | |
| B 11 | 114 04.8 | 25 54.3 | 38.7 | 300 26.0 | 30.7 | 284 43.0 | 43.8 | 143 00.6 | 26.1 | | | | | | | | | |
| A 12 | 129 07.3 | 40 53.7 N21 | 38.8 | 315 27.0 N 3 | 30.0 | 299 45.2 S 2 | 44.0 | 158 03.3 S13 | 26.2 | Gacrux | 172 17.8 S57 | 04.9 | | | | | | |
| D 13 | 144 09.8 | 55 53.1 | 39.0 | 330 28.1 | 29.4 | 314 47.3 | 44.1 | 173 05.9 | 26.3 | Gienah | 176 07.8 S17 | 30.5 | | | | | | |
| O 14 | 159 12.2 | 70 52.5 | 39.1 | 345 29.2 | 28.8 | 329 49.4 | 44.3 | 188 08.5 | 26.3 | Hadar | 149 09.1 S60 | 20.8 | | | | | | |
| 15 | 174 14.7 | 85 51.9 | 39.3 | 0 30.2 | 28.1 | 344 51.5 | 44.4 | 203 11.1 | 26.4 | Hamal | 328 17.5 N23 | 26.0 | | | | | | |
| 16 | 189 17.2 | 100 51.3 | 39.5 | 15 31.3 | 27.5 | 359 53.7 | 44.6 | 218 13.8 | 26.4 | Kaus Aust. | 84 03.1 S34 | 23.2 | | | | | | |
| 17 | 204 19.6 | 115 50.7 | 39.6 | 30 32.3 | 26.8 | 14 55.8 | 44.8 | 233 16.4 | 26.5 | | | | | | | | | |
| 18 | 219 22.1 | 130 50.1 N21 | 39.8 | 45 33.4 N 3 | 26.2 | 29 57.9 S 2 | 44.9 | 248 19.0 S13 | 26.6 | Kochab | 137 19.2 N74 | 11.2 | | | | | | |
| 19 | 234 24.5 | 145 49.5 | 39.9 | 60 34.4 | 25.6 | 45 00.0 | 45.1 | 263 21.7 | 26.6 | Markab | 13 52.8 N15 | 10.4 | | | | | | |
| 20 | 249 27.0 | 160 48.9 | 40.1 | 75 35.5 | 24.9 | 60 02.1 | 45.2 | 278 24.3 | 26.7 | Menkar | 314 30.6 N 4 | 04.0 | | | | | | |
| 21 | 264 29.5 | 175 48.3 | 40.2 | 90 36.5 | 24.3 | 75 04.3 | 45.4 | 293 26.9 | 26.8 | Menkent | 148 25.1 S36 | 20.5 | | | | | | |
| 22 | 279 31.9 | 190 47.6 | 40.4 | 105 37.6 | 23.7 | 90 06.4 | 45.5 | 308 29.5 | 26.8 | Miaplacidus | 221 43.7 S69 | 41.6 | | | | | | |
| 23 | 294 34.4 | 205 47.0 | 40.5 | 120 38.7 | 23.0 | 105 08.5 | 45.7 | 323 32.2 | 26.9 | | | | | | | | | |
| 1 00 | 309 36.9 | 220 46.4 N21 | 40.7 | 135 39.7 N 3 | 22.4 | 120 10.6 S 2 | 45.8 | 338 34.8 S13 | 27.0 | Mirfak | 309 01.8 N49 | 50.2 | | | | | | |
| 01 | 324 39.3 | 235 45.8 | 40.8 | 150 40.8 | 21.7 | 135 12.8 | 46.0 | 353 37.4 | 27.0 | Nunki | 76 16.3 S26 | 18.2 | | | | | | |
| 02 | 339 41.8 | 250 45.2 | 41.0 | 165 41.8 | 21.1 | 150 14.9 | 46.1 | 8 40.0 | 27.1 | Peacock | 53 41.9 S56 | 45.2 | | | | | | |
| 03 | 354 44.3 | 265 44.6 | 41.1 | 180 42.9 | 20.5 | 165 17.0 | 46.3 | 23 42.7 | 27.2 | Pollux | 243 46.2 N28 | 02.5 | | | | | | |
| 04 | 9 46.7 | 280 44.0 | 41.3 | 195 43.9 | 19.8 | 180 19.1 | 46.5 | 38 45.3 | 27.2 | Procyon | 245 15.6 N 5 | 14.5 | | | | | | |
| 05 | 24 49.2 | 295 43.4 | 41.4 | 210 45.0 | 19.2 | 195 21.2 | 46.6 | 53 47.9 | 27.3 | | | | | | | | | |
| 06 | 39 51.6 | 310 42.8 N21 | 41.6 | 225 46.0 N 3 | 18.6 | 210 23.4 S 2 | 46.8 | 68 50.6 S13 | 27.4 | Rasalhague | 96 20.0 N12 | 34.0 | | | | | | |
| 07 | 54 54.1 | 325 42.2 | 41.7 | 240 47.1 | 17.9 | 225 25.5 | 46.9 | 83 53.2 | 27.4 | Regulus | 207 59.6 N11 | 59.9 | | | | | | |
| D 08 | 69 56.6 | 340 41.6 | 41.8 | 255 48.1 | 17.3 | 240 27.6 | 47.1 | 98 55.8 | 27.5 | Rigel | 281 26.5 S 8 | 12.4 | | | | | | |
| O 09 | 84 59.0 | 355 41.0 | 42.0 | 270 49.2 | 16.6 | 255 29.7 | 47.2 | 113 58.4 | 27.6 | Rigel Kent. | 140 12.0 S60 | 48.8 | | | | | | |
| I 10 | 100 01.5 | 10 40.4 | 42.1 | 285 50.3 | 16.0 | 270 31.8 | 47.4 | 129 01.1 | 27.6 | Sabik | 102 29.3 S15 | 43.0 | | | | | | |
| 11 | 115 04.0 | 25 39.7 | 42.3 | 300 51.3 | 15.4 | 285 34.0 | 47.5 | 144 03.7 | 27.7 | | | | | | | | | |
| N 12 | 130 06.4 | 40 39.1 N21 | 42.4 | 315 52.4 N 3 | 14.7 | 300 36.1 S 2 | 47.7 | 159 06.3 S13 | 27.7 | Schedar | 349 57.3 N56 | 30.0 | | | | | | |
| O 13 | 145 08.9 | 55 38.5 | 42.5 | 330 53.4 | 14.1 | 315 38.2 | 47.9 | 174 09.0 | 27.8 | Shaula | 96 41.7 S37 | 06.0 | | | | | | |
| 14 | 160 11.4 | 70 37.9 | 42.7 | 345 54.5 | 13.5 | 330 40.3 | 48.0 | 189 11.6 | 27.9 | Sirius | 258 47.1 S16 | 42.4 | | | | | | |
| 15 | 175 13.8 | 85 37.3 | 42.8 | 0 55.5 | 12.8 | 345 42.4 | 48.2 | 204 14.2 | 27.9 | Spica | 158 47.0 S11 | 07.7 | | | | | | |
| 16 | 190 16.3 | 100 36.7 | 42.9 | 15 56.6 | 12.2 | 0 44.5 | 48.3 | 219 16.8 | 28.0 | Suhail | 223 03.8 S43 | 24.5 | | | | | | |
| 17 | 205 18.8 | 115 36.1 | 43.1 | 30 57.6 | 11.5 | 15 46.7 | 48.5 | 234 19.5 | 28.1 | | | | | | | | | |
| 18 | 220 21.2 | 130 35.5 N21 | 43.2 | 45 58.7 N 3 | 10.9 | 30 48.8 S 2 | 48.6 | 249 22.1 S13 | 28.1 | Vega | 80 48.6 N38 | 46.9 | | | | | | |
| 19 | 235 23.7 | 145 34.9 | 43.3 | 60 59.7 | 10.3 | 45 50.9 | 48.8 | 264 24.7 | 28.2 | Zuben'ubi | 137 21.8 S16 | 01.0 | | | | | | |
| 20 | 250 26.1 | 160 34.2 | 43.5 | 76 00.8 | 09.6 | 60 53.0 | 48.9 | 279 27.4 | 28.3 | | | | | | | | | |
| 21 | 265 28.6 | 175 33.6 | 43.6 | 91 01.8 | 09.0 | 75 55.1 | 49.1 | | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|----------------|----------|----------|----------|----------|---------|----------|------|------------|-------|-----------|------------------|-------|------------|-------|-------|-------|-----|--|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 30 | 31 | 1 | 2 | | | |
| | | | | | | | | | h m | | h m | h m | h m | h m | h m | h m | h m | |
| 30 | 00 | 178 23.7 | N18 33.6 | 42 36.4 | 8.1 | S22 04.6 | 1.8 | 57.0 | N 72 | □ | □ | h m | h m | h m | h m | h m | h m | |
| | 01 | 193 23.7 | 33.0 | 57 03.5 | 8.1 | 22 02.8 | 1.9 | 57.0 | N 70 | //// | //// | 01 16 | 21 27 | 20 58 | 20 43 | | | |
| | 02 | 208 23.8 | 32.4 | 71 30.6 | 8.1 | 22 00.9 | 2.0 | 57.0 | 68 | //// | //// | 02 09 | 20 48 | 20 38 | 20 32 | 20 26 | | |
| | 03 | 223 23.8 | 31.8 | 85 57.7 | 8.1 | 21 58.9 | 2.1 | 56.9 | 66 | //// | //// | 02 41 | 19 56 | 20 07 | 20 11 | 20 13 | | |
| | 04 | 238 23.8 | 31.2 | 100 24.8 | 8.2 | 21 56.8 | 2.3 | 56.9 | 64 | //// | 01 33 | 03 05 | 19 23 | 19 43 | 19 55 | 20 02 | | |
| | 05 | 253 23.9 | 30.6 | 114 52.0 | 8.3 | 21 54.5 | 2.4 | 56.9 | 62 | //// | 02 11 | 03 23 | 18 59 | 19 25 | 19 41 | 19 53 | | |
| | 06 | 268 23.9 | N18 30.0 | 129 19.3 | 8.2 | S21 52.1 | 2.5 | 56.9 | 60 | //// | 02 37 | 03 38 | 18 40 | 19 09 | 19 30 | 19 45 | | |
| | 07 | 283 23.9 | 29.4 | 143 46.5 | 8.4 | 21 49.6 | 2.6 | 56.9 | N 58 | 01 24 | 02 57 | 03 51 | 18 24 | 18 56 | 19 20 | 19 37 | | |
| | 08 | 298 23.9 | 28.7 | 158 13.9 | 8.3 | 21 47.0 | 2.8 | 56.8 | 56 | 01 59 | 03 13 | 04 02 | 18 11 | 18 45 | 19 11 | 19 31 | | |
| | 09 | 313 24.0 | 28.1 | 172 41.2 | 8.5 | 21 44.2 | 2.8 | 56.8 | 54 | 02 23 | 03 27 | 04 11 | 17 59 | 18 35 | 19 03 | 19 25 | | |
| | 10 | 328 24.0 | 27.5 | 187 08.7 | 8.4 | 21 41.4 | 3.0 | 56.8 | 52 | 02 42 | 03 38 | 04 20 | 17 49 | 18 26 | 18 56 | 19 20 | | |
| | 11 | 343 24.0 | 26.9 | 201 36.1 | 8.6 | 21 38.4 | 3.2 | 56.8 | 50 | 02 57 | 03 49 | 04 28 | 17 39 | 18 18 | 18 50 | 19 16 | | |
| | 12 | 358 24.0 | N18 26.3 | 216 03.7 | 8.5 | S21 35.2 | 3.2 | 56.7 | 45 | 03 27 | 04 10 | 04 44 | 17 20 | 18 01 | 18 36 | 19 05 | | |
| | 13 | 13 24.1 | 25.7 | 230 31.2 | 8.6 | 21 32.0 | 3.3 | 56.7 | N 40 | 03 49 | 04 27 | 04 57 | 17 04 | 17 47 | 18 24 | 18 57 | | |
| | 14 | 28 24.1 | 25.1 | 244 58.8 | 8.7 | 21 28.7 | 3.5 | 56.7 | 35 | 04 07 | 04 41 | 05 09 | 16 50 | 17 35 | 18 15 | 18 50 | | |
| | 15 | 43 24.1 | 24.5 | 259 26.5 | 8.7 | 21 25.2 | 3.6 | 56.7 | 30 | 04 21 | 04 52 | 05 18 | 16 38 | 17 25 | 18 06 | 18 43 | | |
| | 16 | 58 24.1 | 23.9 | 273 54.2 | 8.8 | 21 21.6 | 3.7 | 56.7 | 20 | 04 44 | 05 11 | 05 35 | 16 18 | 17 07 | 17 51 | 18 32 | | |
| | 17 | 73 24.2 | 23.3 | 288 22.0 | 8.8 | 21 17.9 | 3.8 | 56.6 | N 10 | 05 01 | 05 27 | 05 49 | 16 01 | 16 51 | 17 38 | 18 22 | | |
| | 18 | 88 24.2 | N18 22.7 | 302 49.8 | 8.9 | S21 14.1 | 3.9 | 56.6 | 0 | 05 16 | 05 41 | 06 03 | 15 44 | 16 37 | 17 26 | 18 13 | | |
| | 19 | 103 24.2 | 22.1 | 317 17.7 | 8.9 | 21 10.2 | 4.1 | 56.6 | S 10 | 05 29 | 05 54 | 06 16 | 15 28 | 16 22 | 17 14 | 18 04 | | |
| | 20 | 118 24.3 | 21.4 | 331 45.6 | 9.0 | 21 06.1 | 4.1 | 56.6 | 20 | 05 40 | 06 07 | 06 30 | 15 10 | 16 06 | 17 01 | 17 54 | | |
| | 21 | 133 24.3 | 20.8 | 346 13.6 | 9.1 | 21 02.0 | 4.3 | 56.6 | 30 | 05 52 | 06 21 | 06 46 | 14 50 | 15 48 | 16 46 | 17 43 | | |
| | 22 | 148 24.3 | 20.2 | 0 41.7 | 9.1 | 20 57.7 | 4.4 | 56.5 | 35 | 05 58 | 06 29 | 06 55 | 14 38 | 15 38 | 16 37 | 17 36 | | |
| 23 | 163 24.4 | 19.6 | 15 09.8 | 9.1 | 20 53.3 | 4.5 | 56.5 | 40 | 06 04 | 06 37 | 07 06 | 14 25 | 15 25 | 16 27 | 17 29 | | | |
| 31 | 00 | 178 24.4 | N18 19.0 | 29 37.9 | 9.2 | S20 48.8 | 4.6 | 56.5 | 45 | 06 11 | 06 46 | 07 18 | 14 09 | 15 11 | 16 16 | 17 20 | | |
| | 01 | 193 24.4 | 18.4 | 44 06.1 | 9.3 | 20 44.2 | 4.7 | 56.5 | S 50 | 06 18 | 06 58 | 07 33 | 13 49 | 14 54 | 16 01 | 17 09 | | |
| | 02 | 208 24.4 | 17.8 | 58 34.4 | 9.3 | 20 39.5 | 4.8 | 56.5 | 52 | 06 22 | 07 03 | 07 40 | 13 39 | 14 45 | 15 55 | 17 04 | | |
| | 03 | 223 24.5 | 17.1 | 73 02.7 | 9.4 | 20 34.7 | 5.0 | 56.4 | 54 | 06 25 | 07 08 | 07 48 | 13 29 | 14 36 | 15 47 | 16 59 | | |
| | 04 | 238 24.5 | 16.5 | 87 31.1 | 9.5 | 20 29.7 | 5.0 | 56.4 | 56 | 06 29 | 07 14 | 07 56 | 13 17 | 14 26 | 15 39 | 16 53 | | |
| | 05 | 253 24.5 | 15.9 | 101 59.6 | 9.5 | 20 24.7 | 5.1 | 56.4 | 58 | 06 33 | 07 21 | 08 06 | 13 03 | 14 14 | 15 29 | 16 46 | | |
| | 06 | 268 24.6 | N18 15.3 | 116 28.1 | 9.5 | S20 19.6 | 5.3 | 56.4 | S 60 | 06 37 | 07 28 | 08 17 | 12 46 | 14 00 | 15 19 | 16 38 | | |
| | 07 | 283 24.6 | 14.7 | 130 56.6 | 9.7 | 20 14.3 | 5.3 | 56.3 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | | |
| | 08 | 298 24.6 | 14.1 | 145 25.3 | 9.7 | 20 09.0 | 5.5 | 56.3 | h m | h m | h m | 30 | 31 | 1 | 2 | | | |
| | 09 | 313 24.7 | 13.4 | 159 54.0 | 9.7 | 20 03.5 | 5.5 | 56.3 | N 72 | □ | □ | h m | h m | h m | h m | h m | h m | |
| | 10 | 328 24.7 | 12.8 | 174 22.7 | 9.8 | 19 58.0 | 5.7 | 56.3 | N 70 | 22 48 | //// | //// | h m | h m | h m | h m | h m | |
| | 11 | 343 24.7 | 12.2 | 188 51.5 | 9.9 | 19 52.3 | 5.8 | 56.3 | 68 | 21 59 | //// | //// | 23 13 | 25 10 | 00 23 | 02 33 | | |
| | 12 | 358 24.8 | N18 11.6 | 203 20.4 | 10.0 | S19 46.5 | 5.8 | 56.2 | 66 | 21 28 | //// | //// | 24 05 | 00 05 | 01 41 | 03 17 | | |
| | 13 | 13 24.8 | 11.0 | 217 49.4 | 10.0 | 19 40.7 | 6.0 | 56.2 | 64 | 21 06 | 22 34 | //// | 24 37 | 00 37 | 02 04 | 03 33 | | |
| | 14 | 28 24.8 | 10.3 | 232 18.4 | 10.1 | 19 34.7 | 6.0 | 56.2 | 62 | 20 48 | 21 59 | //// | 25 00 | 01 00 | 02 22 | 03 46 | | |
| | 15 | 43 24.9 | 09.7 | 246 47.5 | 10.1 | 19 28.7 | 6.2 | 56.2 | 60 | 20 33 | 21 34 | //// | 00 10 | 01 19 | 02 37 | 03 56 | | |
| | 16 | 58 24.9 | 09.1 | 261 16.6 | 10.2 | 19 22.5 | 6.3 | 56.2 | N 58 | 20 20 | 21 14 | 22 43 | 00 27 | 01 35 | 02 49 | 04 06 | | |
| | 17 | 73 24.9 | 08.5 | 275 45.8 | 10.3 | 19 16.2 | 6.3 | 56.1 | 56 | 20 10 | 20 58 | 22 11 | 00 42 | 01 48 | 03 00 | 04 14 | | |
| | 18 | 88 25.0 | N18 07.9 | 290 15.1 | 10.3 | S19 09.9 | 6.4 | 56.1 | 54 | 20 00 | 20 45 | 21 47 | 00 55 | 02 00 | 03 10 | 04 21 | | |
| | 19 | 103 25.0 | 07.2 | 304 44.4 | 10.4 | 19 03.5 | 6.6 | 56.1 | 52 | 19 52 | 20 33 | 21 29 | 01 06 | 02 10 | 03 18 | 04 28 | | |
| | 20 | 118 25.1 | 06.6 | 319 13.8 | 10.5 | 18 56.9 | 6.6 | 56.1 | 50 | 19 44 | 20 23 | 21 14 | 01 16 | 02 19 | 03 26 | 04 34 | | |
| | 21 | 133 25.1 | 06.0 | 333 43.3 | 10.5 | 18 50.3 | 6.7 | 56.1 | 45 | 19 28 | 20 02 | 20 44 | 01 37 | 02 38 | 03 42 | 04 46 | | |
| | 22 | 148 25.1 | 05.4 | 348 12.8 | 10.6 | 18 43.6 | 6.8 | 56.0 | N 40 | 19 15 | 19 45 | 20 23 | 01 54 | 02 53 | 03 55 | 04 57 | | |
| 23 | 163 25.2 | 04.7 | 2 42.4 | 10.7 | 18 36.8 | 6.9 | 56.0 | 35 | 19 04 | 19 32 | 20 05 | 02 08 | 03 06 | 04 06 | 05 06 | | | |
| 1 | 00 | 178 25.2 | N18 04.1 | 17 12.1 | 10.7 | S18 29.9 | 7.0 | 56.0 | 30 | 18 54 | 19 20 | 01 51 | 02 20 | 03 18 | 04 16 | 05 13 | | |
| | 01 | 193 25.2 | 03.5 | 31 41.8 | 10.8 | 18 22.9 | 7.1 | 56.0 | 20 | 18 37 | 19 01 | 19 29 | 02 41 | 03 37 | 04 33 | 05 27 | | |
| | 02 | 208 25.3 | 02.8 | 46 11.6 | 10.8 | 18 15.8 | 7.2 | 56.0 | N 10 | 18 23 | 18 45 | 19 11 | 02 59 | 03 54 | 04 47 | 05 38 | | |
| | 03 | 223 25.3 | 02.2 | 60 41.4 | 11.0 | 18 08.6 | 7.2 | 55.9 | 0 | 18 10 | 18 32 | 18 57 | 03 16 | 04 10 | 05 01 | 05 49 | | |
| | 04 | 238 25.3 | 01.6 | 75 11.4 | 11.0 | 18 01.4 | 7.3 | 55.9 | S 10 | 17 57 | 18 19 | 18 44 | 03 33 | 04 25 | 05 14 | 06 00 | | |
| | 05 | 253 25.4 | 01.0 | 89 41.4 | 11.0 | 17 54.1 | 7.5 | 55.9 | 20 | 17 43 | 18 06 | 18 32 | 03 51 | 04 42 | 05 29 | 06 11 | | |
| | 06 | 268 25.4 | N18 00.3 | 104 11.4 | 11.2 | S17 46.6 | 7.5 | 55.9 | 30 | 17 27 | 17 52 | 18 21 | 04 12 | 05 01 | 05 45 | 06 24 | | |
| | 07 | 283 25.5 | 17 59.7 | 118 41.6 | 11.1 | 17 39.1 | 7.6 | 55.9 | 35 | 17 18 | 17 45 | 18 15 | 04 24 | 05 12 | 05 54 | 06 32 | | |
| | 08 | 298 25.5 | 59.1 | 133 11.7 | 11.3 | 17 31.5 | 7.6 | 55.8 | 40 | 17 07 | 17 36 | 18 09 | 04 38 | 05 25 | 06 05 | 06 40 | | |
| | 09 | 313 25.5 | 58.4 | 147 42.0 | 11.3 | 17 23.9 | 7.8 | 55.8 | 45 | 16 55 | 17 27 | 18 02 | 04 54 | 05 40 | 06 18 | 06 50 | | |
| | 10 | 328 25.6 | 57.8 | 162 12.3 | 11.4 | 17 16.1 | 7.8 | 55.8 | S 50 | 16 40 | 17 16 | 17 55 | 05 15 | 05 58 | 06 33 | 07 02 | | |
| | 11 | 343 25.6 | 57.2 | 176 42.7 | 11.5 | 17 08.3 | 7.9 | 55.8 | 52 | 16 33 | 17 11 | 17 52 | 05 24 | 06 07 | 06 40 | 07 07 | | |
| | 12 | 358 25.7 | N17 56.5 | 191 13.2 | 11.5 | S17 00.4 | 8.0 | 55.8 | 54 | 16 26 | 17 05 | 17 48 | 05 35 | 06 16 | 06 48 | 07 13 | | |
| | 13 | 13 25.7 | 55.9 | 205 43.7 | 11.6 | 16 52.4 | 8.0 | 55.7 | 56 | 16 17 | 16 59 | 17 45 | 05 47 | 06 27 | 06 57 | 07 20 | | |
| | 14 | 28 25.7 | 55.3 | 220 14.3 | 11.7 | 16 44.4 | 8.2 | 55.7 | 58 | 16 07 | 16 52 | 17 41 | 06 01 | 06 39 | 07 07 | 07 27 | | |
| | 15 | 43 25.8 | 54.6 | 234 45.0 | 11.7 | 16 36.2 | 8.2 | 55.7 | S 60 | 15 56 | 16 45 | 17 37 | 06 18 | 06 54 | 07 18 | 07 36 | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.0 | | | MARTE +1.6 | | | JUPITER -1.8 | | | SATURNO +0.4 | | | ESTRELLAS | | | |
|---|--------|------|------|-------------|------|----------|-------------|------|----------|--------------|------|----------|--------------|------|----------|-------------|----------|------|------------|
| | A.H.G. | | | A.H.G. Dec. | | | A.H.G. Dec. | | | A.H.G. Dec. | | | A.H.G. Dec. | | | Nombre | A. H. S. | Dec. | |
| | d | h | ' | ° | ' | "/ | ° | ' | "/ | ° | ' | "/ | ° | ' | "/ | | ° | ' | "/ |
| L U N E S | 200 | 310 | 36.0 | 220 | 31.8 | N21 44.0 | 136 | 05.0 | N 3 07.1 | 121 | 01.5 | S 2 49.6 | 339 | 37.9 | S13 28.5 | Acamar | 315 | 29.6 | S40 19.5 |
| | 01 | 325 | 38.5 | 235 | 31.2 | 44.1 | 151 | 06.1 | 06.4 | 136 | 03.6 | 49.7 | 354 | 40.5 | 28.6 | Achernar | 335 | 37.6 | S57 15.8 |
| | 02 | 340 | 40.9 | 250 | 30.6 | 44.2 | 166 | 07.1 | 05.8 | 151 | 05.7 | 49.9 | 9 | 43.1 | 28.7 | Acrux | 173 | 26.3 | S63 04.1 |
| | 03 | 355 | 43.4 | 265 | 29.9 | 44.3 | 181 | 08.2 | 05.1 | 166 | 07.8 | 50.0 | 24 | 45.8 | 28.7 | Adhara | 255 | 24.5 | S28 57.7 |
| | 04 | 10 | 45.9 | 280 | 29.3 | 44.5 | 196 | 09.2 | 04.5 | 181 | 10.0 | 50.2 | 39 | 48.4 | 28.8 | Aldebaran | 291 | 06.6 | N16 29.8 |
| | 05 | 25 | 48.3 | 295 | 28.7 | 44.6 | 211 | 10.3 | 03.9 | 196 | 12.1 | 50.3 | 54 | 51.0 | 28.9 | | | | |
| | 06 | 40 | 50.8 | 310 | 28.1 | N21 44.7 | 226 | 11.3 | N 3 03.2 | 211 | 14.2 | S 2 50.5 | 69 | 53.6 | S13 28.9 | Alioth | 166 | 33.9 | N55 59.9 |
| | 07 | 55 | 53.3 | 325 | 27.5 | 44.8 | 241 | 12.4 | 02.6 | 226 | 16.3 | 50.7 | 84 | 56.3 | 29.0 | Alkaid | 153 | 10.6 | N49 20.9 |
| | 08 | 70 | 55.7 | 340 | 26.9 | 45.0 | 256 | 13.4 | 01.9 | 241 | 18.4 | 50.8 | 99 | 58.9 | 29.1 | Al Na'ir | 28 | 01.8 | S46 59.3 |
| | 09 | 85 | 58.2 | 355 | 26.2 | 45.1 | 271 | 14.5 | 01.3 | 256 | 20.5 | 51.0 | 115 | 01.5 | 29.1 | Alnilam | 276 | 01.6 | S 1 12.3 |
| | 10 | 101 | 00.6 | 10 | 25.6 | 45.2 | 286 | 15.5 | 00.7 | 271 | 22.6 | 51.1 | 130 | 04.2 | 29.2 | Alphard | 218 | 11.0 | S 8 37.9 |
| | 11 | 116 | 03.1 | 25 | 25.0 | 45.3 | 301 | 16.6 | 3 00.0 | 286 | 24.8 | 51.3 | 145 | 06.8 | 29.2 | | | | |
| | 12 | 131 | 05.6 | 40 | 24.4 | N21 45.4 | 316 | 17.6 | N 2 59.4 | 301 | 26.9 | S 2 51.4 | 160 | 09.4 | S13 29.3 | Alphecca | 126 | 23.5 | N26 44.4 |
| | 13 | 146 | 08.0 | 55 | 23.8 | 45.5 | 331 | 18.7 | 58.7 | 316 | 29.0 | 51.6 | 175 | 12.1 | 29.4 | Alpheratz | 357 | 58.6 | N29 03.4 |
| | 14 | 161 | 10.5 | 70 | 23.2 | 45.6 | 346 | 19.7 | 58.1 | 331 | 31.1 | 51.8 | 190 | 14.7 | 29.4 | Altair | 62 | 22.4 | N 8 51.3 |
| | 15 | 176 | 13.0 | 85 | 22.5 | 45.8 | 1 | 20.8 | 57.5 | 346 | 33.2 | 51.9 | 205 | 17.3 | 29.5 | Ankaa | 353 | 30.0 | S42 20.1 |
| | 16 | 191 | 15.4 | 100 | 21.9 | 45.9 | 16 | 21.8 | 56.8 | 1 | 35.3 | 52.1 | 220 | 19.9 | 29.6 | Antares | 112 | 44.3 | S26 25.1 |
| | 17 | 206 | 17.9 | 115 | 21.3 | 46.0 | 31 | 22.9 | 56.2 | 16 | 37.4 | 52.2 | 235 | 22.6 | 29.6 | | | | |
| | 18 | 221 | 20.4 | 130 | 20.7 | N21 46.1 | 46 | 23.9 | N 2 55.5 | 31 | 39.6 | S 2 52.4 | 250 | 25.2 | S13 29.7 | Arcturus | 146 | 09.3 | N19 13.1 |
| | 19 | 236 | 22.8 | 145 | 20.1 | 46.2 | 61 | 25.0 | 54.9 | 46 | 41.7 | 52.5 | 265 | 27.8 | 29.8 | Atria | 107 | 59.1 | S69 01.2 |
| | 20 | 251 | 25.3 | 160 | 19.4 | 46.3 | 76 | 26.1 | 54.3 | 61 | 43.8 | 52.7 | 280 | 30.5 | 29.8 | Avior | 234 | 24.7 | S59 29.4 |
| | 21 | 266 | 27.8 | 175 | 18.8 | 46.4 | 91 | 27.1 | 53.6 | 76 | 45.9 | 52.9 | 295 | 33.1 | 29.9 | Bellatrix | 278 | 48.1 | N 6 20.7 |
| | 22 | 281 | 30.2 | 190 | 18.2 | 46.5 | 106 | 28.2 | 53.0 | 91 | 48.0 | 53.0 | 310 | 35.7 | 30.0 | Betelgeuse | 271 | 17.6 | N 7 24.4 |
| 23 | 296 | 32.7 | 205 | 17.6 | 46.6 | 121 | 29.2 | 52.3 | 106 | 50.1 | 53.2 | 325 | 38.4 | 30.0 | | | | | |
| M A R T E S | 300 | 311 | 35.1 | 220 | 17.0 | N21 46.7 | 136 | 30.3 | N 2 51.7 | 121 | 52.2 | S 2 53.3 | 340 | 41.0 | S13 30.1 | Canopus | 264 | 03.2 | S52 41.4 |
| | 01 | 326 | 37.6 | 235 | 16.3 | 46.8 | 151 | 31.3 | 51.1 | 136 | 54.4 | 53.5 | 355 | 43.6 | 30.2 | Capella | 280 | 56.7 | N45 59.4 |
| | 02 | 341 | 40.1 | 250 | 15.7 | 46.9 | 166 | 32.4 | 50.4 | 151 | 56.5 | 53.6 | 10 | 46.3 | 30.2 | Deneb | 49 | 41.1 | N45 15.6 |
| | 03 | 356 | 42.5 | 265 | 15.1 | 47.0 | 181 | 33.4 | 49.8 | 166 | 58.6 | 53.8 | 25 | 48.9 | 30.3 | Denebola | 182 | 49.0 | N14 36.5 |
| | 04 | 11 | 45.0 | 280 | 14.5 | 47.1 | 196 | 34.5 | 49.1 | 182 | 00.7 | 54.0 | 40 | 51.5 | 30.4 | Diphda | 349 | 10.6 | S18 01.0 |
| | 05 | 26 | 47.5 | 295 | 13.8 | 47.2 | 211 | 35.5 | 48.5 | 197 | 02.8 | 54.1 | 55 | 54.1 | 30.4 | | | | |
| | 06 | 41 | 49.9 | 310 | 13.2 | N21 47.3 | 226 | 36.6 | N 2 47.9 | 212 | 04.9 | S 2 54.3 | 70 | 56.8 | S13 30.5 | Dubhe | 194 | 10.3 | N61 47.2 |
| | 07 | 56 | 52.4 | 325 | 12.6 | 47.4 | 241 | 37.6 | 47.2 | 227 | 07.0 | 54.4 | 85 | 59.4 | 30.6 | El Nath | 278 | 31.6 | N28 36.1 |
| | 08 | 71 | 54.9 | 340 | 12.0 | 47.5 | 256 | 38.7 | 46.6 | 242 | 09.1 | 54.6 | 101 | 02.0 | 30.6 | Eltanin | 90 | 52.6 | N51 29.6 |
| | 09 | 86 | 57.3 | 355 | 11.4 | 47.6 | 271 | 39.7 | 45.9 | 257 | 11.2 | 54.7 | 116 | 04.7 | 30.7 | Enif | 34 | 01.4 | N 9 50.9 |
| | 10 | 101 | 59.8 | 10 | 10.7 | 47.7 | 286 | 40.8 | 45.3 | 272 | 13.4 | 54.9 | 131 | 07.3 | 30.8 | Fomalhaut | 15 | 40.0 | S29 39.1 |
| | 11 | 117 | 02.2 | 25 | 10.1 | 47.8 | 301 | 41.8 | 44.7 | 287 | 15.5 | 55.1 | 146 | 09.9 | 30.8 | | | | |
| | 12 | 132 | 04.7 | 40 | 09.5 | N21 47.9 | 316 | 42.9 | N 2 44.0 | 302 | 17.6 | S 2 55.2 | 161 | 12.6 | S13 30.9 | Gacrux | 172 | 17.8 | S57 04.9 |
| | 13 | 147 | 07.2 | 55 | 08.9 | 48.0 | 331 | 43.9 | 43.4 | 317 | 19.7 | 55.4 | 176 | 15.2 | 31.0 | Gienah | 176 | 07.8 | S17 30.5 |
| | 14 | 162 | 09.6 | 70 | 08.2 | 48.1 | 346 | 45.0 | 42.7 | 332 | 21.8 | 55.5 | 191 | 17.8 | 31.0 | Hadar | 149 | 09.1 | S60 20.8 |
| | 15 | 177 | 12.1 | 85 | 07.6 | 48.2 | 1 | 46.0 | 42.1 | 347 | 23.9 | 55.7 | 206 | 20.5 | 31.1 | Hamal | 328 | 17.5 | N23 26.0 |
| | 16 | 192 | 14.6 | 100 | 07.0 | 48.3 | 16 | 47.1 | 41.4 | 2 | 26.0 | 55.9 | 221 | 23.1 | 31.2 | Kaus Aust. | 84 | 03.1 | S34 23.3 |
| | 17 | 207 | 17.0 | 115 | 06.4 | 48.3 | 31 | 48.1 | 40.8 | 17 | 28.1 | 56.0 | 236 | 25.7 | 31.2 | | | | |
| | 18 | 222 | 19.5 | 130 | 05.7 | N21 48.4 | 46 | 49.2 | N 2 40.2 | 32 | 30.2 | S 2 56.2 | 251 | 28.4 | S13 31.3 | Kochab | 137 | 19.3 | N74 11.2 |
| | 19 | 237 | 22.0 | 145 | 05.1 | 48.5 | 61 | 50.2 | 39.5 | 47 | 32.4 | 56.3 | 266 | 31.0 | 31.4 | Markab | 13 | 52.8 | N15 10.4 |
| | 20 | 252 | 24.4 | 160 | 04.5 | 48.6 | 76 | 51.3 | 38.9 | 62 | 34.5 | 56.5 | 281 | 33.6 | 31.4 | Menkar | 314 | 30.6 | N 4 04.0 |
| | 21 | 267 | 26.9 | 175 | 03.8 | 48.7 | 91 | 52.3 | 38.2 | 77 | 36.6 | 56.6 | 296 | 36.3 | 31.5 | Menkent | 148 | 25.2 | S36 20.5 |
| | 22 | 282 | 29.4 | 190 | 03.2 | 48.8 | 106 | 53.4 | 37.6 | 92 | 38.7 | 56.8 | 311 | 38.9 | 31.5 | Miaplacidus | 221 | 43.7 | S69 41.6 |
| 23 | 297 | 31.8 | 205 | 02.6 | 48.8 | 121 | 54.4 | 37.0 | 107 | 40.8 | 57.0 | 326 | 41.5 | 31.6 | | | | | |
| M I E R C O L E S | 400 | 312 | 34.3 | 220 | 02.0 | N21 48.9 | 136 | 55.5 | N 2 36.3 | 122 | 42.9 | S 2 57.1 | 341 | 44.1 | S13 31.7 | Mirfak | 309 | 01.7 | N49 50.2 |
| | 01 | 327 | 36.7 | 235 | 01.3 | 49.0 | 151 | 56.5 | 35.7 | 137 | 45.0 | 57.3 | 356 | 46.8 | 31.7 | Nunki | 76 | 16.3 | S26 18.2 |
| | 02 | 342 | 39.2 | 250 | 00.7 | 49.1 | 166 | 57.6 | 35.0 | 152 | 47.1 | 57.4 | 11 | 49.4 | 31.8 | Peacock | 53 | 41.9 | S56 45.2 |
| | 03 | 357 | 41.7 | 265 | 00.1 | 49.2 | 181 | 58.6 | 34.4 | 167 | 49.2 | 57.6 | 26 | 52.0 | 31.9 | Pollux | 243 | 46.2 | N28 02.5 |
| | 04 | 12 | 44.1 | 279 | 59.4 | 49.2 | 196 | 59.7 | 33.7 | 182 | 51.3 | 57.8 | 41 | 54.7 | 31.9 | Procyon | 245 | 15.5 | N 5 14.5 |
| | 05 | 27 | 46.6 | 294 | 58.8 | 49.3 | 212 | 00.7 | 33.1 | 197 | 53.4 | 57.9 | 56 | 57.3 | 32.0 | | | | |
| | 06 | 42 | 49.1 | 309 | 58.2 | N21 49.4 | 227 | 01.8 | N 2 32.5 | 212 | 55.5 | S 2 58.1 | 71 | 59.9 | S13 32.1 | Rasalhague | 96 | 20.0 | N12 34.0 |
| | 07 | 57 | 51.5 | 324 | 57.6 | 49.5 | 242 | 02.8 | 31.8 | 227 | 57.7 | 58.2 | 87 | 02.6 | 32.1 | Regulus | 207 | 59.6 | N11 59.9 |
| | 08 | 72 | 54.0 | 339 | 56.9 | 49.5 | 257 | 03.9 | 31.2 | 242 | 59.8 | 58.4 | 102 | 05.2 | 32.2 | Rigel | 281 | 26.5 | S 8 12.4 |
| | 09 | 87 | 56.5 | 354 | 56.3 | 49.6 | 272 | 04.9 | 30.5 | 258 | 01.9 | 58.6 | 117 | 07.8 | 32.3 | Rigil Kent. | 140 | 12.0 | S60 48.8 |
| | 10 | 102 | 58.9 | 9 | 55.7 | 49.7 | 287 | 06.0 | 29.9 | 273 | 04.0 | 58.7 | 132 | 10.5 | 32.3 | Sabik | 102 | 29.3 | S15 43.0 |
| | 11 | 118 | 01.4 | 24 | 55.0 | 49.7 | 302 | 07.0 | 29.2 | 288 | 06.1 | 58.9 | 147 | 13.1 | 32.4 | | | | |
| | 12 | 133 | 03.9 | 39 | 54.4 | N21 49.8 | 317 | 08.1 | N 2 28.6 | 303 | 08.2 | S 2 59.0 | 162 | 15.7 | S13 32.5 | Schedar | 349 | 57.2 | N56 30.1 |
| | 13 | 148 | 06.3 | 54 | 53.8 | 49.9 | 332 | 09.1 | 28.0 | 318 | 10.3 | 59.2 | 177 | 18.4 | 32.5 | Shaula | 96 | 41.8 | S37 06.0 |
| | 14 | 163 | 08.8 | 69 | 53.1 | 49.9 | 347 | 10.2 | 27.3 | 333 | 12.4 | 59.4 | 192 | 21.0 | 32.6 | Sirius | 258 | 47.1 | S16 42.4</ |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | |
|----------------|--------|------|------|------|--------|------|------|------|------|------------|-------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 2 | 3 | 4 | 5 | | | | |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | | | | | |
| LUNES | 00 | 178 | 26.2 | N17 | 48.9 | 5 | 23.9 | 12.3 | S15 | 19.8 | 8.8 | 55.5 | N 72 | □ | □ | □ | 21 03 | 20 43 | 20 26 | 20 11 |
| | 01 | 193 | 26.2 | | 48.3 | 19 | 55.2 | 12.4 | 15 | 11.0 | 8.9 | 55.5 | N 70 | /// | /// | 01 43 | 20 43 | 20 31 | 20 21 | 20 12 |
| | 02 | 208 | 26.3 | | 47.6 | 34 | 26.6 | 12.5 | 15 | 02.1 | 9.0 | 55.5 | 68 | /// | /// | 02 25 | 20 26 | 20 22 | 20 17 | 20 13 |
| | 03 | 223 | 26.3 | | 47.0 | 48 | 58.1 | 12.5 | 14 | 53.1 | 9.0 | 55.5 | 66 | /// | 00 52 | 02 53 | 20 13 | 20 14 | 20 14 | 20 14 |
| | 04 | 238 | 26.3 | | 46.4 | 63 | 29.6 | 12.5 | 14 | 44.1 | 9.1 | 55.5 | 64 | /// | 01 51 | 03 14 | 20 02 | 20 07 | 20 11 | 20 14 |
| | 05 | 253 | 26.4 | | 45.7 | 78 | 01.1 | 12.7 | 14 | 35.0 | 9.2 | 55.4 | 62 | /// | 02 23 | 03 31 | 19 53 | 20 01 | 20 08 | 20 15 |
| | 06 | 268 | 26.4 | N17 | 45.1 | 92 | 32.8 | 12.7 | S14 | 25.8 | 9.2 | 55.4 | 60 | 00 47 | 02 46 | 03 45 | 19 45 | 19 56 | 20 06 | 20 15 |
| | 07 | 283 | 26.5 | | 44.4 | 107 | 04.5 | 12.7 | 14 | 16.6 | 9.3 | 55.4 | N 58 | 01 40 | 03 05 | 03 57 | 19 37 | 19 52 | 20 04 | 20 16 |
| | 08 | 298 | 26.5 | | 43.8 | 121 | 36.2 | 12.8 | 14 | 07.3 | 9.3 | 55.4 | 56 | 02 10 | 03 20 | 04 07 | 19 31 | 19 48 | 20 02 | 20 16 |
| | 09 | 313 | 26.6 | | 43.2 | 136 | 08.0 | 12.9 | 13 | 58.0 | 9.4 | 55.4 | 54 | 02 31 | 03 33 | 04 17 | 19 25 | 19 44 | 20 01 | 20 17 |
| | 10 | 328 | 26.6 | | 42.5 | 150 | 39.9 | 13.0 | 13 | 48.6 | 9.4 | 55.3 | 52 | 02 49 | 03 44 | 04 25 | 19 20 | 19 41 | 19 59 | 20 17 |
| | 11 | 343 | 26.7 | | 41.9 | 165 | 11.9 | 13.0 | 13 | 39.2 | 9.5 | 55.3 | 50 | 03 03 | 03 54 | 04 32 | 19 16 | 19 38 | 19 58 | 20 17 |
| | 12 | 358 | 26.7 | N17 | 41.2 | 179 | 43.9 | 13.0 | S13 | 29.7 | 9.6 | 55.3 | 45 | 03 32 | 04 14 | 04 47 | 19 05 | 19 31 | 19 55 | 20 18 |
| | 13 | 13 | 26.8 | | 40.6 | 194 | 15.9 | 13.2 | 13 | 20.1 | 9.6 | 55.3 | N 40 | 03 53 | 04 30 | 05 00 | 18 57 | 19 26 | 19 53 | 20 18 |
| | 14 | 28 | 26.8 | | 39.9 | 208 | 48.1 | 13.2 | 13 | 10.5 | 9.6 | 55.3 | 35 | 04 10 | 04 43 | 05 11 | 18 50 | 19 21 | 19 51 | 20 19 |
| | 15 | 43 | 26.8 | | 39.3 | 223 | 20.3 | 13.2 | 13 | 00.9 | 9.7 | 55.3 | 30 | 04 23 | 04 54 | 05 20 | 18 43 | 19 17 | 19 49 | 20 19 |
| | 16 | 58 | 26.9 | | 38.6 | 237 | 52.5 | 13.3 | 12 | 51.2 | 9.8 | 55.2 | 20 | 04 45 | 05 13 | 05 36 | 18 32 | 19 10 | 19 46 | 20 20 |
| | 17 | 73 | 26.9 | | 38.0 | 252 | 24.8 | 13.4 | 12 | 41.4 | 9.8 | 55.2 | N 10 | 05 02 | 05 28 | 05 50 | 18 22 | 19 03 | 19 43 | 20 21 |
| | 18 | 88 | 27.0 | N17 | 37.3 | 266 | 57.2 | 13.4 | S12 | 31.6 | 9.9 | 55.2 | 0 | 05 16 | 05 41 | 06 03 | 18 13 | 18 57 | 19 40 | 20 22 |
| | 19 | 103 | 27.0 | | 36.7 | 281 | 29.6 | 13.5 | 12 | 21.7 | 9.9 | 55.2 | S 10 | 05 28 | 05 53 | 06 15 | 18 04 | 18 51 | 19 37 | 20 22 |
| | 20 | 118 | 27.1 | | 36.0 | 296 | 02.1 | 13.5 | 12 | 11.8 | 9.9 | 55.2 | 20 | 05 39 | 06 06 | 06 29 | 17 54 | 18 45 | 19 35 | 20 23 |
| | 21 | 133 | 27.1 | | 35.4 | 310 | 34.6 | 13.6 | 12 | 01.9 | 10.0 | 55.1 | 30 | 05 50 | 06 19 | 06 44 | 17 43 | 18 38 | 19 31 | 20 24 |
| | 22 | 148 | 27.2 | | 34.7 | 325 | 07.2 | 13.6 | 11 | 51.9 | 10.1 | 55.1 | 35 | 05 56 | 06 26 | 06 53 | 17 36 | 18 33 | 19 29 | 20 25 |
| 23 | 163 | 27.2 | | 34.1 | 339 | 39.8 | 13.7 | 11 | 41.8 | 10.1 | 55.1 | 40 | 06 02 | 06 34 | 07 03 | 17 29 | 18 29 | 19 27 | 20 25 | |
| | | | | | | | | | | | | 45 | 06 08 | 06 43 | 07 14 | 17 20 | 18 23 | 19 25 | 20 26 | |
| MARTES | 00 | 178 | 27.3 | N17 | 33.4 | 354 | 12.5 | 13.8 | S11 | 31.7 | 10.1 | 55.1 | S 50 | 06 15 | 06 53 | 07 28 | 17 09 | 18 16 | 19 22 | 20 27 |
| | 01 | 193 | 27.3 | | 32.8 | 8 | 45.3 | 13.8 | 11 | 21.6 | 10.2 | 55.1 | 52 | 06 17 | 06 58 | 07 35 | 17 04 | 18 13 | 19 21 | 20 27 |
| | 02 | 208 | 27.4 | | 32.1 | 23 | 18.1 | 13.8 | 11 | 11.4 | 10.2 | 55.1 | 54 | 06 21 | 07 03 | 07 42 | 16 59 | 18 10 | 19 19 | 20 27 |
| | 03 | 223 | 27.4 | | 31.5 | 37 | 50.9 | 13.9 | 11 | 01.2 | 10.3 | 55.0 | 56 | 06 24 | 07 09 | 07 50 | 16 53 | 18 06 | 19 17 | 20 28 |
| | 04 | 238 | 27.5 | | 30.8 | 52 | 23.8 | 14.0 | 10 | 50.9 | 10.3 | 55.0 | 58 | 06 27 | 07 15 | 08 00 | 16 46 | 18 02 | 19 16 | 20 28 |
| | 05 | 253 | 27.5 | | 30.2 | 66 | 56.8 | 14.0 | 10 | 40.6 | 10.3 | 55.0 | S 60 | 06 31 | 07 22 | 08 10 | 16 38 | 17 57 | 19 14 | 20 29 |
| | 06 | 268 | 27.6 | N17 | 29.5 | 81 | 29.8 | 14.1 | S10 | 30.3 | 10.4 | 55.0 | | | | | | | | |
| | 07 | 283 | 27.6 | | 28.9 | 96 | 02.9 | 14.1 | 10 | 19.9 | 10.4 | 55.0 | | | | | | | | |
| | 08 | 298 | 27.7 | | 28.2 | 110 | 36.0 | 14.2 | 10 | 09.5 | 10.4 | 55.0 | | | | | | | | |
| | 09 | 313 | 27.7 | | 27.6 | 125 | 09.2 | 14.2 | 9 | 59.1 | 10.5 | 54.9 | | | | | | | | |
| | 10 | 328 | 27.8 | | 26.9 | 139 | 42.4 | 14.3 | 9 | 48.6 | 10.5 | 54.9 | | | | | | | | |
| | 11 | 343 | 27.8 | | 26.3 | 154 | 15.7 | 14.3 | 9 | 38.1 | 10.6 | 54.9 | | | | | | | | |
| | 12 | 358 | 27.9 | N17 | 25.6 | 168 | 49.0 | 14.3 | S 9 | 27.5 | 10.6 | 54.9 | | | | | | | | |
| | 13 | 13 | 28.0 | | 24.9 | 183 | 22.3 | 14.5 | 9 | 16.9 | 10.6 | 54.9 | | | | | | | | |
| | 14 | 28 | 28.0 | | 24.3 | 197 | 55.8 | 14.4 | 9 | 06.3 | 10.7 | 54.9 | | | | | | | | |
| | 15 | 43 | 28.1 | | 23.6 | 212 | 29.2 | 14.5 | 8 | 55.6 | 10.6 | 54.8 | | | | | | | | |
| | 16 | 58 | 28.1 | | 23.0 | 227 | 02.7 | 14.6 | 8 | 45.0 | 10.8 | 54.8 | | | | | | | | |
| | 17 | 73 | 28.2 | | 22.3 | 241 | 36.3 | 14.5 | 8 | 34.2 | 10.7 | 54.8 | | | | | | | | |
| | 18 | 88 | 28.2 | N17 | 21.7 | 256 | 09.8 | 14.7 | S 8 | 23.5 | 10.8 | 54.8 | N 58 | 20 14 | 21 06 | 22 28 | 04 06 | 05 22 | 06 37 | 07 51 |
| | 19 | 103 | 28.3 | | 21.0 | 270 | 43.5 | 14.7 | 8 | 12.7 | 10.8 | 54.8 | 56 | 20 04 | 20 51 | 22 00 | 04 14 | 05 28 | 06 40 | 07 51 |
| | 20 | 118 | 28.3 | | 20.3 | 285 | 17.2 | 14.7 | 8 | 01.9 | 10.8 | 54.8 | 54 | 19 55 | 20 38 | 21 39 | 04 21 | 05 33 | 06 43 | 07 52 |
| | 21 | 133 | 28.4 | | 19.7 | 299 | 50.9 | 14.7 | 7 | 51.1 | 10.8 | 54.8 | 52 | 19 47 | 20 27 | 21 22 | 04 28 | 05 37 | 06 46 | 07 53 |
| | 22 | 148 | 28.4 | | 19.0 | 314 | 24.6 | 14.8 | 7 | 40.3 | 10.9 | 54.7 | 50 | 19 39 | 20 17 | 21 07 | 04 34 | 05 41 | 06 48 | 07 53 |
| 23 | 163 | 28.5 | | 18.4 | 328 | 58.4 | 14.9 | 7 | 29.4 | 10.9 | 54.7 | 45 | 19 24 | 19 57 | 20 39 | 04 46 | 05 50 | 06 53 | 07 54 | |
| MIÉRCOLES | 00 | 178 | 28.6 | N17 | 17.0 | 343 | 32.3 | 14.9 | S 7 | 18.5 | 10.9 | 54.7 | N 40 | 19 12 | 19 42 | 20 19 | 04 57 | 05 58 | 06 57 | 07 55 |
| | 01 | 193 | 28.6 | | 17.0 | 358 | 06.2 | 14.9 | 7 | 07.6 | 11.0 | 54.7 | 35 | 19 01 | 19 29 | 20 02 | 05 06 | 06 04 | 07 01 | 07 56 |
| | 02 | 208 | 28.7 | | 16.4 | 12 | 40.1 | 14.9 | 6 | 56.6 | 11.0 | 54.7 | 30 | 18 52 | 19 18 | 19 48 | 05 13 | 06 09 | 07 04 | 07 57 |
| | 03 | 223 | 28.7 | | 15.7 | 27 | 14.0 | 15.0 | 6 | 45.6 | 10.9 | 54.7 | 20 | 18 36 | 18 59 | 19 27 | 05 27 | 06 19 | 07 09 | 07 58 |
| | 04 | 238 | 28.8 | | 15.0 | 41 | 48.0 | 15.1 | 6 | 34.7 | 11.1 | 54.7 | N 10 | 18 22 | 18 44 | 19 10 | 05 38 | 06 27 | 07 14 | 07 59 |
| | 05 | 253 | 28.8 | | 14.4 | 56 | 22.1 | 15.0 | 6 | 23.6 | 11.0 | 54.6 | 0 | 18 10 | 18 31 | 18 56 | 05 49 | 06 35 | 07 18 | 08 00 |
| | 06 | 268 | 28.9 | N17 | 13.7 | 70 | 56.1 | 15.1 | S 6 | 12.6 | 11.0 | 54.6 | S 10 | 17 57 | 18 19 | 18 44 | 06 00 | 06 42 | 07 22 | 08 01 |
| | 07 | 283 | 29.0 | | 13.0 | 85 | 30.2 | 15.2 | 6 | 01.6 | 11.1 | 54.6 | 20 | 17 44 | 18 07 | 18 33 | 06 11 | 06 50 | 07 27 | 08 02 |
| | 08 | 298 | 29.0 | | 12.4 | 100 | 04.4 | 15.2 | 5 | 50.5 | 11.1 | 54.6 | 30 | 17 29 | 17 54 | 18 22 | 06 24 | 06 59 | 07 32 | 08 03 |
| | 09 | 313 | 29.1 | | 11.7 | 114 | 38.6 | 15.2 | 5 | 39.4 | 11.1 | 54.6 | 35 | 17 20 | 17 47 | 18 17 | 06 32 | 07 05 | 07 35 | 08 04 |
| | 10 | 328 | 29.1 | | 11.0 | 129 | 12.8 | 15.2 | 5 | 28.3 | 11.1 | 54.6 | 40 | 17 10 | 17 39 | 18 11 | 06 40 | 07 11 | 07 39 | 08 05 |
| | 11 | 343 | 29.2 | | 10.4 | 143 | 47.0 | 15.3 | 5 | 17.2 | 11.1 | 54.6 | 45 | 16 58 | 17 30 | 18 05 | 06 50 | 07 18 | 07 42 | 08 06 |
| | 12 | 358 | 29.2 | N17 | 09.7 | 158 | 21.3 | 15.3 | S 5 | 06.1 | 11.2 | 54.6 | S 50 | 16 44 | 17 19 | 17 58 | 07 02 | 07 26 | 07 47 | 08 07 |
| | 13 | 13 | 29.3 | | 09.0 | 172 | 55.6 | 15.3 | 4 | 54.9 | 11.1 | 54.5 | 52 | 16 38 | 17 | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | |
|---------------------------------|----------|----------|----------|----------|------|------|------|------------|------|----------|-----------|------------|-------|------------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Nau. | | Civil | 5 | 6 | 7 | 8 | | |
| | | | | | | | | | | | | | | | | h | m |
| J U E V E S | 00 | 178 30.0 | N17 01.7 | 333 14.7 | 15.6 | S 2 | 51.6 | 11.2 | 54.4 | N 72 | /// | /// | 00 57 | 20 11 | 19 55 | 19 38 | 19 17 |
| | 01 | 193 30.0 | 01.0 | 347 49.3 | 15.7 | 2 | 40.4 | 11.3 | 54.4 | N 70 | /// | /// | 02 04 | 20 12 | 20 02 | 19 53 | 19 41 |
| | 02 | 208 30.1 | 17 00.3 | 2 24.0 | 15.6 | 2 | 29.1 | 11.3 | 54.4 | 68 | /// | /// | 02 39 | 20 13 | 20 08 | 20 04 | 20 00 |
| | 03 | 223 30.2 | 16 59.6 | 16 58.6 | 15.7 | 2 | 17.8 | 11.2 | 54.4 | 66 | /// | 01 23 | 03 04 | 20 14 | 20 13 | 20 14 | 20 15 |
| | 04 | 238 30.2 | 59.0 | 31 33.3 | 15.7 | 2 | 06.6 | 11.3 | 54.4 | 64 | /// | 02 06 | 03 24 | 20 14 | 20 18 | 20 22 | 20 27 |
| | 05 | 253 30.3 | 58.3 | 46 08.0 | 15.7 | 1 | 55.3 | 11.3 | 54.4 | 62 | /// | 02 34 | 03 39 | 20 15 | 20 21 | 20 29 | 20 38 |
| | 06 | 268 30.3 | N16 57.6 | 60 42.7 | 15.8 | S 1 | 44.0 | 11.3 | 54.3 | 60 | /// | 02 55 | 03 52 | 20 15 | 20 25 | 20 35 | 20 47 |
| | 07 | 283 30.4 | 56.9 | 75 17.5 | 15.7 | 1 | 32.7 | 11.2 | 54.3 | N 58 | 01 54 | 03 12 | 04 03 | 20 16 | 20 27 | 20 40 | 20 55 |
| | 08 | 298 30.5 | 56.2 | 89 52.2 | 15.8 | 1 | 21.5 | 11.3 | 54.3 | 56 | 02 20 | 03 27 | 04 13 | 20 16 | 20 30 | 20 45 | 21 02 |
| | 09 | 313 30.5 | 55.6 | 104 27.0 | 15.8 | 1 | 10.2 | 11.3 | 54.3 | 54 | 02 40 | 03 39 | 04 22 | 20 17 | 20 32 | 20 49 | 21 08 |
| | 10 | 328 30.6 | 54.9 | 119 01.8 | 15.8 | 0 | 58.9 | 11.3 | 54.3 | 52 | 02 56 | 03 49 | 04 29 | 20 17 | 20 34 | 20 53 | 21 14 |
| | 11 | 343 30.7 | 54.2 | 133 36.6 | 15.8 | 0 | 47.6 | 11.3 | 54.3 | 50 | 03 10 | 03 59 | 04 36 | 20 17 | 20 36 | 20 57 | 21 19 |
| | 12 | 358 30.7 | N16 53.5 | 148 11.4 | 15.8 | S 0 | 36.3 | 11.2 | 54.3 | 45 | 03 36 | 04 18 | 04 51 | 20 18 | 20 41 | 21 04 | 21 30 |
| | 13 | 13 30.8 | 52.8 | 162 46.2 | 15.8 | 0 | 25.1 | 11.3 | 54.3 | N 40 | 03 56 | 04 33 | 05 03 | 20 18 | 20 44 | 21 11 | 21 40 |
| | 14 | 28 30.9 | 52.2 | 177 21.0 | 15.9 | 0 | 13.8 | 11.3 | 54.3 | 35 | 04 12 | 04 46 | 05 13 | 20 19 | 20 47 | 21 16 | 21 48 |
| | 15 | 43 30.9 | 51.5 | 191 55.9 | 15.8 | S 0 | 02.5 | 11.2 | 54.3 | 30 | 04 26 | 04 56 | 05 22 | 20 19 | 20 50 | 21 21 | 21 55 |
| | 16 | 58 31.0 | 50.8 | 206 30.7 | 15.9 | N 0 | 08.7 | 11.3 | 54.3 | 20 | 04 46 | 05 14 | 05 37 | 20 20 | 20 55 | 21 30 | 22 07 |
| | 17 | 73 31.1 | 50.1 | 221 05.6 | 15.9 | 0 | 20.0 | 11.2 | 54.2 | N 10 | 05 02 | 05 28 | 05 50 | 20 21 | 20 59 | 21 38 | 22 18 |
| | 18 | 88 31.1 | N16 49.4 | 235 40.5 | 15.8 | N 0 | 31.2 | 11.3 | 54.2 | 0 | 05 16 | 05 41 | 06 02 | 20 22 | 21 03 | 21 45 | 22 28 |
| | 19 | 103 31.2 | 48.8 | 250 15.3 | 15.9 | 0 | 42.5 | 11.2 | 54.2 | S 10 | 05 27 | 05 53 | 06 14 | 20 22 | 21 07 | 21 52 | 22 38 |
| | 20 | 118 31.3 | 48.1 | 264 50.2 | 15.9 | 0 | 53.7 | 11.2 | 54.2 | 20 | 05 38 | 06 04 | 06 27 | 20 23 | 21 11 | 22 00 | 22 49 |
| | 21 | 133 31.3 | 47.4 | 279 25.1 | 15.9 | 1 | 04.9 | 11.3 | 54.2 | 30 | 05 48 | 06 17 | 06 42 | 20 24 | 21 16 | 22 09 | 23 02 |
| | 22 | 148 31.4 | 46.7 | 294 00.0 | 15.9 | 1 | 16.2 | 11.2 | 54.2 | 35 | 05 53 | 06 23 | 06 50 | 20 25 | 21 19 | 22 14 | 23 09 |
| 23 | 163 31.5 | 46.0 | 308 34.9 | 15.9 | 1 | 27.4 | 11.2 | 54.2 | 40 | 05 59 | 06 31 | 06 59 | 20 25 | 21 22 | 22 20 | 23 18 | |
| V I E R N E S | 00 | 178 31.5 | N16 45.3 | 323 09.8 | 16.0 | N 1 | 38.6 | 11.2 | 54.2 | 45 | 06 04 | 06 39 | 07 10 | 20 26 | 21 26 | 22 27 | 23 27 |
| | 01 | 193 31.6 | 44.7 | 337 44.8 | 15.9 | 1 | 49.8 | 11.2 | 54.2 | S 50 | 06 10 | 06 49 | 07 24 | 20 27 | 21 31 | 22 35 | 23 39 |
| | 02 | 208 31.7 | 44.0 | 352 19.7 | 15.9 | 2 | 01.0 | 11.1 | 54.2 | 52 | 06 13 | 06 53 | 07 30 | 20 27 | 21 33 | 22 39 | 23 45 |
| | 03 | 223 31.7 | 43.3 | 6 54.6 | 15.9 | 2 | 12.1 | 11.2 | 54.2 | 54 | 06 16 | 06 58 | 07 37 | 20 27 | 21 35 | 22 43 | 23 51 |
| | 04 | 238 31.8 | 42.6 | 21 29.5 | 15.9 | 2 | 23.3 | 11.1 | 54.2 | 56 | 06 19 | 07 04 | 07 44 | 20 28 | 21 38 | 22 48 | 23 58 |
| | 05 | 253 31.9 | 41.9 | 36 04.4 | 16.0 | 2 | 34.4 | 11.2 | 54.2 | 58 | 06 22 | 07 09 | 07 53 | 20 28 | 21 41 | 22 53 | 24 05 |
| | 06 | 268 32.0 | N16 41.2 | 50 39.4 | 15.9 | N 2 | 45.6 | 11.1 | 54.2 | S 60 | 06 25 | 07 16 | 08 03 | 20 29 | 21 44 | 22 59 | 24 14 |
| | 07 | 283 32.0 | 40.5 | 65 14.3 | 15.9 | 2 | 56.7 | 11.1 | 54.2 | | | | | | | | |
| | 08 | 298 32.1 | 39.8 | 79 49.2 | 15.9 | 3 | 07.8 | 11.1 | 54.2 | Lat. | Ocaso Sol | Crepúsculo | | Ocaso Luna | | | |
| | 09 | 313 32.2 | 39.1 | 94 24.1 | 15.9 | 3 | 18.9 | 11.1 | 54.2 | | | Civil | Naut. | 5 | 6 | 7 | 8 |
| | 10 | 328 32.2 | 38.5 | 108 59.0 | 15.9 | 3 | 30.0 | 11.0 | 54.1 | | | | | | | | |
| | 11 | 343 32.3 | 37.8 | 123 33.9 | 15.9 | 3 | 41.0 | 11.0 | 54.1 | | | | | | | | |
| | 12 | 358 32.4 | N16 37.1 | 138 08.8 | 15.9 | N 3 | 52.0 | 11.1 | 54.1 | | | | | | | | |
| | 13 | 13 32.4 | 36.4 | 152 43.7 | 15.9 | 4 | 03.1 | 11.0 | 54.1 | N 72 | 23 01 | /// | /// | 07 41 | 09 24 | 11 08 | 12 58 |
| | 14 | 28 32.5 | 35.7 | 167 18.6 | 15.9 | 4 | 14.1 | 11.0 | 54.1 | N 70 | 22 02 | /// | /// | 07 43 | 09 19 | 10 56 | 12 35 |
| | 15 | 43 32.6 | 35.0 | 181 53.5 | 15.9 | 4 | 25.1 | 10.9 | 54.1 | 68 | 21 29 | /// | /// | 07 45 | 09 15 | 10 46 | 12 18 |
| | 16 | 58 32.7 | 34.3 | 196 28.4 | 15.8 | 4 | 36.0 | 11.0 | 54.1 | 66 | 21 05 | 22 41 | /// | 07 47 | 09 12 | 10 37 | 12 04 |
| | 17 | 73 32.7 | 33.6 | 211 03.2 | 15.9 | 4 | 47.0 | 10.9 | 54.1 | 64 | 20 46 | 22 01 | /// | 07 48 | 09 09 | 10 31 | 11 53 |
| | 18 | 88 32.8 | N16 32.9 | 225 38.1 | 15.8 | N 4 | 57.9 | 10.9 | 54.1 | 62 | 20 30 | 21 34 | /// | 07 49 | 09 07 | 10 25 | 11 43 |
| | 19 | 103 32.9 | 32.2 | 240 12.9 | 15.9 | 5 | 08.8 | 10.9 | 54.1 | 60 | 20 18 | 21 14 | 22 50 | 07 50 | 09 05 | 10 20 | 11 35 |
| | 20 | 118 33.0 | 31.5 | 254 47.8 | 15.8 | 5 | 19.7 | 10.8 | 54.1 | N 58 | 20 07 | 20 57 | 22 14 | 07 51 | 09 03 | 10 15 | 11 28 |
| | 21 | 133 33.0 | 30.8 | 269 22.6 | 15.8 | 5 | 30.5 | 10.9 | 54.1 | 56 | 19 57 | 20 43 | 21 49 | 07 51 | 09 02 | 10 11 | 11 21 |
| | 22 | 148 33.1 | 30.1 | 283 57.4 | 15.8 | 5 | 41.4 | 10.8 | 54.1 | 54 | 19 49 | 20 31 | 21 30 | 07 52 | 09 00 | 10 08 | 11 16 |
| 23 | 163 33.2 | 29.4 | 298 32.2 | 15.8 | 5 | 52.2 | 10.8 | 54.1 | 52 | 19 41 | 20 21 | 21 14 | 07 53 | 08 59 | 10 05 | 11 10 | |
| S A B A D O | 00 | 178 33.2 | N16 28.8 | 313 07.0 | 15.7 | N 6 | 03.0 | 10.7 | 54.1 | 50 | 19 34 | 20 12 | 21 01 | 07 53 | 08 58 | 10 02 | 11 06 |
| | 01 | 193 33.3 | 28.1 | 327 41.7 | 15.8 | 6 | 13.7 | 10.8 | 54.1 | 45 | 19 20 | 19 53 | 20 34 | 07 54 | 08 55 | 09 55 | 10 56 |
| | 02 | 208 33.4 | 27.4 | 342 16.5 | 15.7 | 6 | 24.5 | 10.7 | 54.1 | N 40 | 19 08 | 19 38 | 20 14 | 07 55 | 08 53 | 09 50 | 10 48 |
| | 03 | 223 33.5 | 26.7 | 356 51.2 | 15.7 | 6 | 35.2 | 10.7 | 54.1 | 35 | 18 58 | 19 26 | 19 59 | 07 56 | 08 51 | 09 46 | 10 40 |
| | 04 | 238 33.5 | 26.0 | 11 25.9 | 15.7 | 6 | 45.9 | 10.6 | 54.1 | 30 | 18 49 | 19 15 | 19 46 | 07 57 | 08 49 | 09 42 | 10 34 |
| | 05 | 253 33.6 | 25.3 | 26 00.6 | 15.7 | 6 | 56.5 | 10.7 | 54.1 | 20 | 18 34 | 18 58 | 19 25 | 07 58 | 08 46 | 09 35 | 10 24 |
| | 06 | 268 33.7 | N16 24.6 | 40 35.3 | 15.6 | N 7 | 07.2 | 10.6 | 54.1 | N 10 | 18 21 | 18 43 | 19 09 | 07 59 | 08 44 | 09 29 | 10 14 |
| | 07 | 283 33.8 | 23.9 | 55 09.9 | 15.7 | 7 | 17.8 | 10.5 | 54.1 | 0 | 18 09 | 18 31 | 18 56 | 08 00 | 08 42 | 09 23 | 10 05 |
| | 08 | 298 33.9 | 23.2 | 69 44.6 | 15.6 | 7 | 28.3 | 10.6 | 54.1 | S 10 | 17 57 | 18 19 | 18 44 | 08 01 | 08 39 | 09 17 | 09 57 |
| | 09 | 313 33.9 | 22.5 | 84 19.2 | 15.6 | 7 | 38.9 | 10.5 | 54.1 | 20 | 17 45 | 18 08 | 18 34 | 08 02 | 08 37 | 09 11 | 09 47 |
| | 10 | 328 34.0 | 21.8 | 98 53.8 | 15.6 | 7 | 49.4 | 10.5 | 54.1 | 30 | 17 30 | 17 55 | 18 24 | 08 03 | 08 34 | 09 05 | 09 37 |
| | 11 | 343 34.1 | 21.1 | 113 28.4 | 15.5 | 7 | 59.9 | 10.4 | 54.1 | 35 | 17 22 | 17 49 | 18 19 | 08 04 | 08 32 | 09 01 | 09 31 |
| | 12 | 358 34.2 | N16 20.4 | 128 02.9 | 15.5 | N 8 | 10.3 | 10.4 | 54.1 | 40 | 17 13 | 17 41 | 18 14 | 08 05 | 08 30 | 08 56 | 09 24 |
| | 13 | 13 34.2 | 19.7 | 142 37.4 | 15.5 | 8 | 20.7 | 10.4 | 54.1 | 45 | 17 02 | 17 33 | 18 08 | 08 06 | 08 28 | 08 51 | 09 16 |
| | 14 | 28 34.3 | 19.0 | 157 11.9 | 15.5 | 8 | 31.1 | 10.4 | 54.1 | S 50 | 16 49 | 17 23 | 18 02 | 08 07 | 08 26 | 08 45 | 09 06 |
| | 15 | 43 34.4 | 18.3 | 171 46.4 | 15.5 | 8 | 41.5 | 10.3 | 54.1 | 52 | 16 42 | 17 19 | 17 59 | 08 07 | 08 24 | 08 42 | 09 02 |
| | 16 | 58 34.5 | 17.5 | 186 20.9 | 15.4 | 8 | 51.8 | 10.3 | 54.1 | 54 | 16 36 | 17 14 | 17 57 | 08 07 | 08 23 | 08 39 | 08 57 |
| | 17 | 73 34.5 | 16.8 | 200 55.3 | 15.4 | 9 | 02.1 | 10.2 | 54.1 | 56 | 16 28 | 17 09 | 17 54 | 08 | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | | | | | | | | |
|----------------|--------|------|--------|------|------|------|------|------------|-------|----------|-----------|------|-------|-------|-----------|------------|------------|-------|-------|-------|-------|---|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Naut. | | Civil | 8 | | 9 | | 10 | | 11 | | | | |
| | | | | | | | | | | | | h | m | h | m | h | m | h | m | h | m | h |
| DOMINGO | 178 | 35.1 | N16 | 11.9 | 302 | 55.4 | 15.1 | N10 | 13.0 | 10.0 | 54.2 | N 72 | /// | /// | 01 35 | 19 17 | 18 42 | □ | □ | | | |
| | 01 | 193 | 35.2 | | 11.2 | 317 | 29.5 | 15.2 | 10 | 23.0 | 10.0 | 54.2 | N 70 | /// | /// | 02 23 | 19 41 | 19 26 | 18 56 | □ | | |
| | 02 | 208 | 35.3 | | 10.5 | 332 | 03.7 | 15.1 | 10 | 33.0 | 9.9 | 54.2 | 68 | /// | 00 27 | 02 53 | 20 00 | 19 56 | 19 51 | 19 47 | | |
| | 03 | 223 | 35.3 | | 09.8 | 346 | 37.8 | 15.1 | 10 | 42.9 | 9.8 | 54.2 | 66 | /// | 01 45 | 03 15 | 20 15 | 20 18 | 20 25 | 20 39 | | |
| | 04 | 238 | 35.4 | | 09.1 | 1 | 11.9 | 15.0 | 10 | 52.7 | 9.8 | 54.2 | 64 | /// | 02 21 | 03 33 | 20 27 | 20 36 | 20 49 | 21 12 | | |
| | 05 | 253 | 35.5 | | 08.4 | 15 | 45.9 | 15.0 | 11 | 02.5 | 9.8 | 54.2 | 62 | 00 25 | 02 45 | 03 47 | 20 38 | 20 50 | 21 08 | 21 36 | | |
| | 06 | 268 | 35.6 | N16 | 07.6 | 30 | 19.9 | 15.0 | N11 | 12.3 | 9.7 | 54.2 | 60 | 01 35 | 03 05 | 04 00 | 20 47 | 21 03 | 21 24 | 21 55 | | |
| | 07 | 283 | 35.7 | | 06.9 | 44 | 53.9 | 14.9 | 11 | 22.0 | 9.7 | 54.2 | N 58 | 02 07 | 03 20 | 04 10 | 20 55 | 21 13 | 21 38 | 22 11 | | |
| | 08 | 298 | 35.8 | | 06.2 | 59 | 27.8 | 14.9 | 11 | 31.7 | 9.7 | 54.2 | 56 | 02 30 | 03 33 | 04 19 | 21 02 | 21 23 | 21 49 | 22 25 | | |
| | 09 | 313 | 35.8 | | 05.5 | 74 | 01.7 | 14.8 | 11 | 41.4 | 9.6 | 54.2 | 54 | 02 48 | 03 45 | 04 27 | 21 08 | 21 31 | 22 00 | 22 36 | | |
| | 10 | 328 | 35.9 | | 04.8 | 88 | 35.5 | 14.8 | 11 | 51.0 | 9.5 | 54.2 | 52 | 03 03 | 03 55 | 04 34 | 21 14 | 21 39 | 22 09 | 22 47 | | |
| | 11 | 343 | 36.0 | | 04.1 | 103 | 09.3 | 14.8 | 12 | 00.5 | 9.5 | 54.2 | 50 | 03 16 | 04 03 | 04 41 | 21 19 | 21 45 | 22 17 | 22 56 | | |
| | LUNES | 12 | 358 | 36.1 | N16 | 03.4 | 117 | 43.1 | 14.7 | N12 | 10.0 | 9.5 | 54.2 | 45 | 03 41 | 04 22 | 04 54 | 21 30 | 22 00 | 22 34 | 23 16 | |
| | | 13 | 13 | 36.2 | | 02.7 | 132 | 16.8 | 14.7 | 12 | 19.5 | 9.4 | 54.2 | N 40 | 04 00 | 04 36 | 05 06 | 21 40 | 22 12 | 22 49 | 23 32 | |
| | | 14 | 28 | 36.3 | | 02.0 | 146 | 50.5 | 14.6 | 12 | 28.9 | 9.4 | 54.3 | 35 | 04 15 | 04 48 | 05 15 | 21 48 | 22 22 | 23 01 | 23 45 | |
| | | 15 | 43 | 36.3 | | 01.2 | 161 | 24.1 | 14.6 | 12 | 38.3 | 9.3 | 54.3 | 30 | 04 28 | 04 58 | 05 24 | 21 55 | 22 31 | 23 12 | 23 57 | |
| | | 16 | 58 | 36.4 | | 00.5 | 175 | 57.7 | 14.6 | 12 | 47.6 | 9.2 | 54.3 | 20 | 04 48 | 05 15 | 05 38 | 22 07 | 22 47 | 23 30 | 24 17 | |
| | | 17 | 73 | 36.5 | | 59.8 | 190 | 31.3 | 14.5 | 12 | 56.8 | 9.3 | 54.3 | N 10 | 05 03 | 05 29 | 05 50 | 22 18 | 23 00 | 23 46 | 24 35 | |
| | | 18 | 88 | 36.6 | N15 | 59.1 | 205 | 04.8 | 14.4 | N13 | 06.1 | 9.1 | 54.3 | 0 | 05 16 | 05 41 | 06 02 | 22 28 | 23 13 | 24 01 | 00 01 | |
| | | 19 | 103 | 36.7 | | 58.4 | 219 | 38.2 | 14.4 | 13 | 15.2 | 9.1 | 54.3 | S 10 | 05 26 | 05 52 | 06 13 | 22 38 | 23 26 | 24 16 | 00 16 | |
| | | 20 | 118 | 36.8 | | 57.7 | 234 | 11.6 | 14.4 | 13 | 24.3 | 9.1 | 54.3 | 20 | 05 36 | 06 03 | 06 25 | 22 49 | 23 40 | 24 32 | 00 32 | |
| | | 21 | 133 | 36.8 | | 56.9 | 248 | 45.0 | 14.3 | 13 | 33.4 | 9.0 | 54.3 | 30 | 05 46 | 06 14 | 06 39 | 23 02 | 23 56 | 24 51 | 00 51 | |
| | | 22 | 148 | 36.9 | | 56.2 | 263 | 18.3 | 14.3 | 13 | 42.4 | 8.9 | 54.3 | 35 | 05 51 | 06 21 | 06 47 | 23 09 | 24 05 | 00 05 | 01 02 | |
| 23 | | 163 | 37.0 | | 55.5 | 277 | 51.6 | 14.2 | 13 | 51.3 | 8.9 | 54.4 | 40 | 05 55 | 06 28 | 06 56 | 23 18 | 24 16 | 00 16 | 01 14 | | |
| MARTES | | 00 | 178 | 37.1 | N15 | 54.8 | 292 | 24.8 | 14.2 | N14 | 00.2 | 8.9 | 54.4 | 45 | 06 00 | 06 35 | 07 06 | 23 27 | 24 28 | 00 28 | 01 29 | |
| | | 01 | 193 | 37.2 | | 54.1 | 306 | 58.0 | 14.1 | 14 | 09.1 | 8.8 | 54.4 | S 50 | 06 06 | 06 44 | 07 19 | 23 39 | 24 44 | 00 44 | 01 47 | |
| | | 02 | 208 | 37.3 | | 53.4 | 321 | 31.1 | 14.1 | 14 | 17.9 | 8.7 | 54.4 | 52 | 06 08 | 06 48 | 07 25 | 23 45 | 24 51 | 00 51 | 01 56 | |
| | | 03 | 223 | 37.4 | | 52.6 | 336 | 04.2 | 14.0 | 14 | 26.6 | 8.7 | 54.4 | 54 | 06 11 | 06 53 | 07 31 | 23 51 | 24 59 | 00 59 | 02 06 | |
| | | 04 | 238 | 37.5 | | 51.9 | 350 | 37.2 | 14.0 | 14 | 35.3 | 8.6 | 54.4 | 56 | 06 13 | 06 58 | 07 38 | 23 58 | 25 08 | 01 08 | 02 17 | |
| | | 05 | 253 | 37.5 | | 51.2 | 5 | 10.2 | 13.9 | 14 | 43.9 | 8.5 | 54.4 | 58 | 06 16 | 07 03 | 07 46 | 24 05 | 00 05 | 01 18 | 02 29 | |
| | | 06 | 268 | 37.6 | N15 | 50.5 | 19 | 43.1 | 13.9 | N14 | 52.4 | 8.5 | 54.4 | S 60 | 06 19 | 07 09 | 07 55 | 24 14 | 00 14 | 01 30 | 02 44 | |
| | | 07 | 283 | 37.7 | | 49.8 | 34 | 16.0 | 13.8 | 15 | 00.9 | 8.5 | 54.5 | | | | | | | | | |
| | | 08 | 298 | 37.8 | | 49.0 | 48 | 48.8 | 13.7 | 15 | 09.4 | 8.3 | 54.5 | Lat. | Ocaso Sol | Crepúsculo | Ocaso Luna | | | | | |
| | | 09 | 313 | 37.9 | | 48.3 | 63 | 21.5 | 13.8 | 15 | 17.7 | 8.3 | 54.5 | | | Civil | Naut. | 8 | 9 | 10 | 11 | |
| | | 10 | 328 | 38.0 | | 47.6 | 77 | 54.3 | 13.6 | 15 | 26.0 | 8.3 | 54.5 | | | | | h m | h m | h m | h m | |
| | 11 | 343 | 38.1 | | 46.9 | 92 | 26.9 | 13.6 | 15 | 34.3 | 8.2 | 54.5 | N 72 | 22 28 | /// | /// | 12 58 | 15 06 | □ | □ | | |
| | 12 | 358 | 38.2 | N15 | 46.1 | 106 | 59.5 | 13.5 | N15 | 42.5 | 8.1 | 54.5 | N 70 | 21 43 | /// | /// | 12 35 | 14 23 | 16 30 | □ | | |
| | 13 | 13 | 38.2 | | 45.4 | 121 | 32.0 | 13.5 | 15 | 50.6 | 8.1 | 54.5 | 68 | 21 14 | 23 22 | /// | 12 18 | 13 54 | 15 36 | 17 24 | | |
| | 14 | 28 | 38.3 | | 44.7 | 136 | 04.5 | 13.5 | 15 | 58.7 | 8.0 | 54.6 | 66 | 20 53 | 22 20 | /// | 12 04 | 13 33 | 15 03 | 16 32 | | |
| | 15 | 43 | 38.4 | | 44.0 | 150 | 37.0 | 13.3 | 16 | 06.7 | 7.9 | 54.6 | 64 | 20 36 | 21 47 | /// | 11 53 | 13 16 | 14 39 | 15 59 | | |
| | 16 | 58 | 38.5 | | 43.2 | 165 | 09.3 | 13.4 | 16 | 14.6 | 7.9 | 54.6 | 62 | 20 22 | 21 23 | 23 27 | 11 43 | 13 02 | 14 21 | 15 36 | | |
| | 17 | 73 | 38.6 | | 42.5 | 179 | 41.7 | 13.2 | 16 | 22.5 | 7.7 | 54.6 | 60 | 20 10 | 21 04 | 22 31 | 11 35 | 12 50 | 14 05 | 15 17 | | |
| | 18 | 88 | 38.7 | N15 | 41.8 | 194 | 13.9 | 13.2 | N16 | 30.2 | 7.8 | 54.6 | N 58 | 20 00 | 20 49 | 22 01 | 11 28 | 12 40 | 13 52 | 15 01 | | |
| | 19 | 103 | 38.8 | | 41.1 | 208 | 46.1 | 13.1 | 16 | 38.0 | 7.6 | 54.6 | 56 | 19 51 | 20 36 | 21 39 | 11 21 | 12 31 | 13 41 | 14 48 | | |
| | 20 | 118 | 38.9 | | 40.3 | 223 | 18.2 | 13.1 | 16 | 45.6 | 7.6 | 54.7 | 54 | 19 43 | 20 25 | 21 21 | 11 16 | 12 23 | 13 31 | 14 36 | | |
| | 21 | 133 | 39.0 | | 39.6 | 237 | 50.3 | 13.0 | 16 | 53.2 | 7.5 | 54.7 | 52 | 19 36 | 20 15 | 21 06 | 11 10 | 12 16 | 13 22 | 14 26 | | |
| | 22 | 148 | 39.1 | | 38.9 | 252 | 22.3 | 13.0 | 17 | 00.7 | 7.5 | 54.7 | 50 | 19 29 | 20 06 | 20 54 | 11 06 | 12 10 | 13 14 | 14 17 | | |
| 23 | 163 | 39.2 | | 38.2 | 266 | 54.3 | 12.9 | 17 | 08.2 | 7.4 | 54.7 | 45 | 19 16 | 19 48 | 20 29 | 10 56 | 11 57 | 12 58 | 13 58 | | | |
| MIÉRCOLES | 00 | 178 | 39.2 | N15 | 37.4 | 281 | 26.2 | 12.8 | N17 | 15.6 | 7.3 | 54.7 | N 40 | 19 05 | 19 34 | 20 10 | 10 48 | 11 46 | 12 44 | 13 42 | | |
| | 01 | 193 | 39.3 | | 36.7 | 295 | 58.0 | 12.8 | 17 | 22.9 | 7.2 | 54.7 | 35 | 18 55 | 19 22 | 19 55 | 10 40 | 11 36 | 12 32 | 13 29 | | |
| | 02 | 208 | 39.4 | | 36.0 | 310 | 29.8 | 12.7 | 17 | 30.1 | 7.2 | 54.8 | 30 | 18 47 | 19 12 | 19 43 | 10 34 | 11 28 | 12 22 | 13 17 | | |
| | 03 | 223 | 39.5 | | 35.2 | 325 | 01.5 | 12.7 | 17 | 37.3 | 7.1 | 54.8 | 20 | 18 33 | 18 56 | 19 23 | 10 24 | 11 14 | 12 05 | 12 58 | | |
| | 04 | 238 | 39.6 | | 34.5 | 339 | 33.2 | 12.6 | 17 | 44.4 | 7.0 | 54.8 | N 10 | 18 20 | 18 42 | 19 08 | 10 14 | 11 01 | 11 50 | 12 41 | | |
| | 05 | 253 | 39.7 | | 33.8 | 354 | 04.8 | 12.5 | 17 | 51.4 | 6.9 | 54.8 | 0 | 18 09 | 18 30 | 18 55 | 10 05 | 10 49 | 11 36 | 12 25 | | |
| | 06 | 268 | 39.8 | N15 | 33.0 | 8 | 36.3 | 12.5 | N17 | 58.3 | 6.8 | 54.8 | S 10 | 17 58 | 18 19 | 18 45 | 09 57 | 10 38 | 11 22 | 12 09 | | |
| | 07 | 283 | 39.9 | | 32.3 | 23 | 07.8 | 12.4 | 18 | 05.1 | 6.8 | 54.9 | 20 | 17 46 | 18 08 | 18 35 | 09 47 | 10 26 | 11 07 | 11 52 | | |
| | 08 | 298 | 40.0 | | 31.6 | 37 | 39.2 | 12.3 | 18 | 11.9 | 6.7 | 54.9 | 30 | 17 32 | 17 57 | 18 25 | 09 37 | 10 12 | 10 50 | 11 33 | | |
| | 09 | 313 | 40.1 | | 30.8 | 52 | 10.5 | 12.3 | 18 | 18.6 | 6.6 | 54.9 | 35 | 17 24 | 17 51 | 18 21 | 09 31 | 10 03 | 10 40 | 11 21 | | |
| | 10 | 328 | 40.2 | | 30.1 | 66 | 41.8 | 12.2 | 18 | 25.2 | 6.6 | 54.9 | 40 | 17 15 | 17 44 | 18 16 | 09 24 | 09 54 | 10 28 | 11 08 | | |
| | 11 | 343 | 40.3 | | 29.4 | 81 | 13.0 | 12.1 | 18 | 31.8 | 6.4 | 55.0 | 45 | 17 05 | 17 36 | 18 11 | 09 16 | 09 43 | 10 15 | 10 53 | | |
| | 12 | 358 | 40.4 | N15 | 28.6 | 95 | 44.1 | 12.1 | N18 | 38.2 | 6.4 | 55.0 | S 50 | 16 53 | 17 27 | 18 06 | 09 06 | 09 30 | 09 59 | 10 34 | | |
| | 13 | 13 | 40.5 | | 27.9 | 110 | 15.2 | 12.0 | 18 | 44.6 | 6.3 | 55.0 | 52 | 16 47 | 17 23 | 18 03 | 09 02 | 09 24 | 09 51 | 10 25 | | |
| | 14 | 28 | 40.6 | | 27.2 | 124 | 46.2 | 12.0 | 18 | 50.9 | 6.2 | 55.0 | 54 | 16 41 | 17 19 | 18 01 | 08 57 | 09 18 | 09 43 | 10 15 | | |
| | 15 | 43 | 40.7 | | 26.4 | 139 | 17.2 | 11.9 | 18 | 57.1 | 6.2 | 55.0 | 56 | 16 34 | 17 14 | 17 58 | 08 52 | 09 10 | 09 34 | 10 04 | | |
| | 16 | 58 | 40.8 | | 25.7 | 153 | 48.1 | 11.8 | 19 | 03.3 | 6.0 | 55.1 | 58 | 16 26 | 17 09 | 17 56 | 08 46 | 09 02 | 09 23 | 09 51 | | |
| | 17 | 73 | 40.9 | | 25.0 | 168 | 18.9 | 11.8 | 19 | 09.3 | 6.0 | 55.1 | S 60 | 16 17 | 17 03 | 17 53 | 08 39 | 08 53 | 09 11 | 09 36 | | |
| | 18 | 88 | 40.9 | N15 | 24.2 | 182 | 49.7 | 11.6 | N19 | 15.3 | 5.8 | 55.1 | | | | | | | | | | |

| T.M.G. (TU) | SOL | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | | |
|---|----------|----------|----------|----------|----------|----------|----------|------------|------------------|----------|------------|-------|-------|-------|-------|
| | A.H.G. | Dec. | A.H.G. | v | Dec. | d | | P.H. | Náut. | | Civil | 11 | 12 | 13 | 14 |
| | | | | | | | | | | | | h m | h m | h m | h m |
| M I E R C O L E S | 11 00 | 178 41.5 | N15 19.8 | 269 52.8 | 11.3 | N19 49.2 | 5.3 55.3 | N 72 | /// | /// | 02 01 | □ | □ | □ | □ |
| | 01 | 193 41.6 | 19.1 | 284 23.1 | 11.2 | 19 54.5 | 5.3 55.3 | N 70 | /// | /// | 02 40 | □ | □ | □ | 21 49 |
| | 02 | 208 41.7 | 18.3 | 298 53.3 | 11.2 | 19 59.8 | 5.1 55.3 | 68 | /// | 01 16 | 03 06 | 19 47 | 19 32 | 21 13 | 23 15 |
| | 03 | 223 41.8 | 17.6 | 313 23.5 | 11.1 | 20 04.9 | 5.1 55.3 | 66 | /// | 02 04 | 03 26 | 20 39 | 21 13 | 22 19 | 23 53 |
| | 04 | 238 41.9 | 16.8 | 327 53.6 | 11.0 | 20 10.0 | 5.0 55.4 | 64 | /// | 02 34 | 03 42 | 21 12 | 21 52 | 22 55 | 24 20 |
| | 05 | 253 42.0 | 16.1 | 342 23.6 | 11.0 | 20 15.0 | 4.8 55.4 | 62 | 01 08 | 02 56 | 03 56 | 21 36 | 22 19 | 23 21 | 24 41 |
| | 06 | 268 42.1 | N15 15.4 | 356 53.6 | 10.9 | N20 19.8 | 4.8 55.4 | 60 | 01 51 | 03 14 | 04 07 | 21 55 | 22 40 | 23 41 | 24 57 |
| | 07 | 283 42.2 | 14.6 | 11 23.5 | 10.8 | 20 24.6 | 4.7 55.4 | N 58 | 02 19 | 03 28 | 04 16 | 22 11 | 22 57 | 23 57 | 25 12 |
| | 08 | 298 42.3 | 13.9 | 25 53.3 | 10.8 | 20 29.3 | 4.6 55.5 | 56 | 02 39 | 03 40 | 04 25 | 22 25 | 23 11 | 24 11 | 00 11 |
| | 09 | 313 42.4 | 13.1 | 40 23.1 | 10.6 | 20 33.9 | 4.5 55.5 | 54 | 02 56 | 03 51 | 04 32 | 22 36 | 23 24 | 24 23 | 00 23 |
| | 10 | 328 42.5 | 12.4 | 54 52.7 | 10.7 | 20 38.4 | 4.4 55.5 | 52 | 03 10 | 04 00 | 04 39 | 22 47 | 23 35 | 24 34 | 00 34 |
| | 11 | 343 42.6 | 11.6 | 69 22.4 | 10.5 | 20 42.8 | 4.3 55.6 | 50 | 03 22 | 04 08 | 04 45 | 22 56 | 23 45 | 24 43 | 00 43 |
| | 12 | 358 42.7 | N15 10.9 | 83 51.9 | 10.5 | N20 47.1 | 4.2 55.6 | 45 | 03 45 | 04 26 | 04 58 | 23 16 | 24 05 | 00 05 | 01 03 |
| | 13 | 13 42.8 | 10.2 | 98 21.4 | 10.5 | 20 51.3 | 4.0 55.6 | N 40 | 04 04 | 04 39 | 05 09 | 23 32 | 24 22 | 00 22 | 01 20 |
| | 14 | 28 42.9 | 09.4 | 112 50.9 | 10.3 | 20 55.3 | 4.0 55.6 | 35 | 04 18 | 04 51 | 05 18 | 23 45 | 24 36 | 00 36 | 01 33 |
| | 15 | 43 43.0 | 08.7 | 127 20.2 | 10.4 | 20 59.3 | 3.9 55.7 | 30 | 04 30 | 05 00 | 05 25 | 23 57 | 24 48 | 00 48 | 01 45 |
| | 16 | 58 43.1 | 07.9 | 141 49.6 | 10.2 | 21 03.2 | 3.8 55.7 | 20 | 04 49 | 05 16 | 05 39 | 24 17 | 00 17 | 01 09 | 02 06 |
| | 17 | 73 43.2 | 07.2 | 156 18.8 | 10.2 | 21 07.0 | 3.7 55.7 | N 10 | 05 03 | 05 29 | 05 51 | 24 35 | 00 35 | 01 28 | 02 23 |
| | 18 | 88 43.3 | N15 06.4 | 170 48.0 | 10.1 | N21 10.7 | 3.6 55.8 | 0 | 05 15 | 05 40 | 06 02 | 00 01 | 00 51 | 01 45 | 02 40 |
| | 19 | 103 43.4 | 05.7 | 185 17.1 | 10.0 | 21 14.3 | 3.4 55.8 | S 10 | 05 26 | 05 51 | 06 12 | 00 16 | 01 08 | 02 02 | 02 56 |
| | 20 | 118 43.5 | 04.9 | 199 46.1 | 10.0 | 21 17.7 | 3.4 55.8 | 20 | 05 35 | 06 01 | 06 24 | 00 32 | 01 26 | 02 20 | 03 14 |
| | 21 | 133 43.6 | 04.2 | 214 15.1 | 9.9 | 21 21.1 | 3.2 55.9 | 30 | 05 43 | 06 12 | 06 36 | 00 51 | 01 46 | 02 41 | 03 34 |
| | 22 | 148 43.7 | 03.4 | 228 44.0 | 9.9 | 21 24.3 | 3.2 55.9 | 35 | 05 48 | 06 18 | 06 44 | 01 02 | 01 58 | 02 54 | 03 46 |
| 23 | 163 43.8 | 02.7 | 243 12.9 | 9.8 | 21 27.5 | 3.0 55.9 | 40 | 05 52 | 06 24 | 06 52 | 01 14 | 02 12 | 03 08 | 04 00 | |
| 12 00 | 178 44.0 | N15 01.9 | 257 41.7 | 9.7 | N21 30.5 | 3.0 55.9 | 45 | 05 57 | 06 31 | 07 02 | 01 29 | 02 29 | 03 25 | 04 16 | |
| 01 | 193 44.1 | 01.2 | 272 10.4 | 9.7 | 21 33.5 | 2.8 56.0 | S 50 | 06 01 | 06 40 | 07 14 | 01 47 | 02 49 | 03 46 | 04 36 | |
| 02 | 208 44.2 | 15 00.4 | 286 39.1 | 9.6 | 21 36.3 | 2.7 56.0 | 52 | 06 03 | 06 43 | 07 19 | 01 56 | 02 58 | 03 55 | 04 45 | |
| 03 | 223 44.3 | 14 59.7 | 301 07.7 | 9.5 | 21 39.0 | 2.6 56.0 | 54 | 06 05 | 06 47 | 07 25 | 02 06 | 03 09 | 04 07 | 04 56 | |
| 04 | 238 44.4 | 58.9 | 315 36.2 | 9.5 | 21 41.6 | 2.5 56.1 | 56 | 06 08 | 06 52 | 07 32 | 02 17 | 03 22 | 04 19 | 05 07 | |
| 05 | 253 44.5 | 58.2 | 330 04.7 | 9.5 | 21 44.1 | 2.3 56.1 | 58 | 06 10 | 06 57 | 07 39 | 02 29 | 03 36 | 04 34 | 05 21 | |
| 06 | 268 44.6 | N14 57.4 | 344 33.2 | 9.3 | N21 46.4 | 2.3 56.1 | S 60 | 06 12 | 07 02 | 07 47 | 02 44 | 03 53 | 04 52 | 05 37 | |
| 07 | 283 44.7 | 56.7 | 359 01.5 | 9.3 | 21 48.7 | 2.1 56.2 | Lat. | Ocaso Sol | Crepúsculo Civil | Náut. | Ocaso Luna | | | | |
| 08 | 298 44.8 | 55.9 | 13 29.8 | 9.3 | 21 50.8 | 2.1 56.2 | 11 | 12 | 13 | 14 | | | | | |
| 09 | 313 44.9 | 55.2 | 27 58.1 | 9.2 | 21 52.9 | 1.9 56.2 | N 72 | 22 02 | /// | /// | □ | □ | □ | □ | |
| 10 | 328 45.0 | 54.4 | 42 26.3 | 9.1 | 21 54.8 | 1.8 56.3 | N 70 | 21 26 | /// | /// | □ | □ | □ | 21 04 | |
| 11 | 343 45.1 | 53.7 | 56 54.4 | 9.1 | 21 56.6 | 1.7 56.3 | 68 | 21 00 | 22 45 | /// | 17 24 | 19 28 | 19 42 | 19 37 | |
| 12 | 358 45.2 | N14 52.9 | 71 22.5 | 9.0 | N21 58.3 | 1.5 56.3 | 66 | 20 41 | 22 01 | /// | 16 32 | 17 47 | 18 35 | 18 58 | |
| 13 | 13 45.3 | 52.2 | 85 50.5 | 9.0 | 21 59.8 | 1.5 56.4 | 64 | 20 25 | 21 32 | /// | 15 59 | 17 09 | 17 59 | 18 30 | |
| 14 | 28 45.4 | 51.4 | 100 18.5 | 8.9 | 22 01.3 | 1.3 56.4 | 62 | 20 12 | 21 11 | 22 54 | 15 36 | 16 42 | 17 33 | 18 09 | |
| 15 | 43 45.5 | 50.7 | 114 46.4 | 8.8 | 22 02.6 | 1.2 56.4 | 60 | 20 02 | 20 54 | 22 14 | 15 17 | 16 21 | 17 13 | 17 52 | |
| 16 | 58 45.6 | 49.9 | 129 14.2 | 8.9 | 22 03.8 | 1.1 56.5 | N 58 | 19 52 | 20 40 | 21 48 | 15 01 | 16 04 | 16 56 | 17 38 | |
| 17 | 73 45.7 | 49.1 | 143 42.1 | 8.7 | 22 04.9 | 1.0 56.5 | 56 | 19 44 | 20 28 | 21 28 | 14 48 | 15 49 | 16 42 | 17 25 | |
| 18 | 88 45.9 | N14 48.4 | 158 09.8 | 8.7 | N22 05.9 | 0.8 56.5 | 54 | 19 36 | 20 18 | 21 12 | 14 36 | 15 37 | 16 30 | 17 14 | |
| 19 | 103 46.0 | 47.6 | 172 37.5 | 8.6 | 22 06.7 | 0.8 56.6 | 52 | 19 30 | 20 08 | 20 58 | 14 26 | 15 26 | 16 19 | 17 04 | |
| 20 | 118 46.1 | 46.9 | 187 05.1 | 8.6 | 22 07.5 | 0.6 56.6 | 50 | 19 24 | 20 00 | 20 47 | 14 17 | 15 16 | 16 09 | 16 56 | |
| 21 | 133 46.2 | 46.1 | 201 32.7 | 8.6 | 22 08.1 | 0.5 56.6 | 45 | 19 11 | 19 43 | 20 23 | 13 58 | 14 55 | 15 49 | 16 37 | |
| 22 | 148 46.3 | 45.4 | 216 00.3 | 8.5 | 22 08.6 | 0.3 56.7 | N 40 | 19 01 | 19 30 | 20 05 | 13 42 | 14 39 | 15 33 | 16 22 | |
| 23 | 163 46.4 | 44.6 | 230 27.8 | 8.4 | 22 08.9 | 0.1 56.7 | 35 | 18 52 | 19 19 | 19 51 | 13 29 | 14 25 | 15 19 | 16 10 | |
| 13 00 | 178 46.5 | N14 43.8 | 244 55.2 | 8.4 | N22 09.2 | 0.1 56.8 | 30 | 18 44 | 19 09 | 19 39 | 13 17 | 14 13 | 15 07 | 15 58 | |
| 01 | 193 46.6 | 43.1 | 259 22.6 | 8.4 | 22 09.3 | 0.0 56.8 | 20 | 18 31 | 18 54 | 19 21 | 12 58 | 13 52 | 14 46 | 15 39 | |
| 02 | 208 46.7 | 42.3 | 273 50.0 | 8.3 | 22 09.3 | 0.2 56.8 | N 10 | 18 19 | 18 41 | 19 06 | 12 41 | 13 34 | 14 28 | 15 22 | |
| 03 | 223 46.8 | 41.6 | 288 17.3 | 8.2 | 22 09.1 | 0.3 56.9 | 0 | 18 08 | 18 30 | 18 55 | 12 25 | 13 17 | 14 11 | 15 07 | |
| 04 | 238 46.9 | 40.8 | 302 44.5 | 8.3 | 22 08.8 | 0.3 56.9 | S 10 | 17 58 | 18 19 | 18 45 | 12 09 | 13 00 | 13 54 | 14 51 | |
| 05 | 253 47.1 | 40.0 | 317 11.8 | 8.1 | 22 08.5 | 0.6 56.9 | 20 | 17 47 | 18 09 | 18 35 | 11 52 | 12 42 | 13 36 | 14 34 | |
| 06 | 268 47.2 | N14 39.3 | 331 38.9 | 8.2 | N22 07.9 | 0.6 57.0 | 30 | 17 34 | 17 59 | 18 27 | 11 33 | 12 21 | 13 15 | 14 14 | |
| 07 | 283 47.3 | 38.5 | 346 06.1 | 8.1 | 22 07.3 | 0.8 57.0 | 35 | 17 27 | 17 53 | 18 23 | 11 21 | 12 09 | 13 02 | 14 03 | |
| 08 | 298 47.4 | 37.7 | 0 33.2 | 8.0 | 22 06.5 | 0.9 57.0 | 40 | 17 18 | 17 46 | 18 18 | 11 08 | 11 54 | 12 48 | 13 49 | |
| 09 | 313 47.5 | 37.0 | 15 00.2 | 8.0 | 22 05.6 | 1.0 57.1 | 45 | 17 09 | 17 39 | 18 14 | 10 53 | 11 38 | 12 31 | 13 34 | |
| 10 | 328 47.6 | 36.2 | 29 27.2 | 8.0 | 22 04.6 | 1.2 57.1 | S 50 | 16 57 | 17 31 | 18 09 | 10 34 | 11 17 | 12 11 | 13 14 | |
| 11 | 343 47.7 | 35.5 | 43 54.2 | 7.9 | 22 03.4 | 1.3 57.2 | 52 | 16 52 | 17 27 | 18 07 | 10 25 | 11 08 | 12 01 | 13 05 | |
| 12 | 358 47.8 | N14 34.7 | 58 21.1 | 7.9 | N22 02.1 | 1.4 57.2 | 54 | 16 46 | 17 23 | 18 05 | 10 15 | 10 57 | 11 50 | 12 55 | |
| 13 | 13 47.9 | 33.9 | 72 48.0 | 7.8 | 22 00.7 | 1.5 57.2 | 56 | 16 39 | 17 19 | 18 03 | 10 04 | 10 44 | 11 37 | 12 43 | |
| 14 | 28 48.1 | 33.2 | 87 14.8 | 7.9 | 21 59.2 | 1.7 57.3 | 58 | 16 32 | 17 14 | 18 01 | 09 51 | 10 30 | 11 22 | 12 30 | |
| 15 | 43 48.2 | 32.4 | 101 41.7 | 7.7 | 21 57.5 | 1.8 57.3 | S 60 | 16 23 | 17 09 | 17 59 | 09 36 | 10 13 | 11 05 | 12 14 | |
| 16 | 58 48.3 | 31.6 | 116 08.4 | 7.8 | 21 55.7 | 1.9 57.3 | Día | SOL | | LUNA | | | | | |
| 17 | 73 48.4 | 30.9 | 130 35.2 | 7.7 | 21 53.8 | 2.1 57.4 | E.T. (-) | Pas. Mer. | Pas. Mer. | | Edad | Fase | | | |
| 18 | 88 48.5 | N14 30.1 | 145 01.9 | 7.7 | N21 51.7 | 2.2 57.4 | 00 h | 12 h | Sup. | Inf. | | | | | |
| 19 | 103 48.6 | 29.3 | 159 28.6 | 7.7 | 21 49.5 | 2.3 57.5 | m s | m s | h m | h m | d | | | | |
| 20 | 118 48.7 | 28.6 | 173 55.3 | 7.6 | 21 47.2 | 2.5 57.5 | 11 | 05 14 | 05 09 | 12 05 | 06 13 | 18 38 | 23 | | |
| 21 | 133 48.9 | 27.8 | 188 21.9 | 7.6 | 21 44.7 | 2.6 57.5 | 12 | 05 04 | 04 59 | 12 05 | 07 04 | 19 31 | 24 | | |
| 22 | 148 49.0 | 27.0 | 202 48.5 | 7.5 | 21 42.1 | | | | | | | | | | |

| T.M.G. (TU) | ARIES | | | VENUS -4.0 | | | MARTE +1.7 | | | JUPITER -1.8 | | | SATURNO +0.4 | | | ESTRELLAS | | |
|----------------|----------|--------------|------|------------|--------|------------|------------|--------------|------|--------------|--------------|--------|--------------|--------|----------|-----------|--|--|
| | A.H.G. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | A.H.G. | Dec. | Nombre | A. H. S. | Dec. | | |
| 1400 | 322 25.7 | 217 25.1 N21 | 39.3 | 141 04.9 N | 0 00.8 | 131 04.5 S | 3 37.0 | 352 17.4 S13 | 47.9 | Acamar | 315 29.5 S40 | 19.5 | | | | | | |
| 01 | 337 28.1 | 232 24.4 | 39.2 | 156 06.0 N | 0 00.1 | 146 06.6 | 37.2 | 7 20.1 | 47.9 | Achernar | 335 37.4 S57 | 15.8 | | | | | | |
| 02 | 352 30.6 | 247 23.7 | 39.0 | 171 07.0 S | 0 00.5 | 161 08.7 | 37.3 | 22 22.7 | 48.0 | Acrux | 173 26.4 S63 | 04.1 | | | | | | |
| 03 | 7 33.1 | 262 23.0 | 38.9 | 186 08.0 | 01.2 | 176 10.8 | 37.5 | 37 25.3 | 48.1 | Adhara | 255 24.5 S28 | 57.7 | | | | | | |
| 04 | 22 35.5 | 277 22.4 | 38.7 | 201 09.1 | 01.8 | 191 12.8 | 37.7 | 52 28.0 | 48.1 | Aldebaran | 291 06.5 N16 | 29.8 | | | | | | |
| 05 | 37 38.0 | 292 21.7 | 38.5 | 216 10.1 | 02.5 | 206 14.9 | 37.8 | 67 30.6 | 48.2 | | | | | | | | | |
| 06 | 52 40.5 | 307 21.0 N21 | 38.4 | 231 11.1 S | 0 03.1 | 221 17.0 S | 3 38.0 | 82 33.3 S13 | 48.3 | Alioth | 166 33.9 N55 | 59.8 | | | | | | |
| 07 | 67 42.9 | 322 20.4 | 38.2 | 246 12.1 | 03.8 | 236 19.0 | 38.2 | 97 35.9 | 48.3 | Alkaid | 153 10.7 N49 | 20.9 | | | | | | |
| 08 | 82 45.4 | 337 19.7 | 38.0 | 261 13.2 | 04.4 | 251 21.1 | 38.4 | 112 38.6 | 48.4 | Al Na'ir | 28 01.8 S46 | 59.3 | | | | | | |
| S 09 | 97 47.8 | 352 19.0 | 37.8 | 276 14.2 | 05.1 | 266 23.2 | 38.5 | 127 41.2 | 48.5 | Alnilam | 276 01.6 S 1 | 12.3 | | | | | | |
| A 10 | 112 50.3 | 7 18.3 | 37.7 | 291 15.2 | 05.8 | 281 25.3 | 38.7 | 142 43.9 | 48.5 | Alphard | 218 11.0 S 8 | 37.9 | | | | | | |
| B 11 | 127 52.8 | 22 17.7 | 37.5 | 306 16.2 | 06.4 | 296 27.3 | 38.9 | 157 46.5 | 48.6 | | | | | | | | | |
| A 12 | 142 55.2 | 37 17.0 N21 | 37.3 | 321 17.3 S | 0 07.1 | 311 29.4 S | 3 39.1 | 172 49.1 S13 | 48.7 | Alphecca | 126 23.5 N26 | 44.4 | | | | | | |
| D 13 | 157 57.7 | 52 16.3 | 37.2 | 336 18.3 | 07.7 | 326 31.5 | 39.2 | 187 51.8 | 48.7 | Alpheratz | 357 58.6 N29 | 03.4 | | | | | | |
| O 14 | 173 00.2 | 67 15.7 | 37.0 | 351 19.3 | 08.4 | 341 33.5 | 39.4 | 202 54.4 | 48.8 | Altair | 62 22.4 N 8 | 51.3 | | | | | | |
| 15 | 188 02.6 | 82 15.0 | 36.8 | 6 20.4 | 09.0 | 356 35.6 | 39.6 | 217 57.1 | 48.9 | Ankaa | 353 29.9 S42 | 20.1 | | | | | | |
| 16 | 203 05.1 | 97 14.3 | 36.6 | 21 21.4 | 09.7 | 11 37.7 | 39.8 | 232 59.7 | 48.9 | Antares | 112 44.3 S26 | 25.1 | | | | | | |
| 17 | 218 07.6 | 112 13.6 | 36.4 | 36 22.4 | 10.3 | 26 39.7 | 39.9 | 248 02.4 | 49.0 | | | | | | | | | |
| 18 | 233 10.0 | 127 13.0 N21 | 36.3 | 51 23.4 S | 0 11.0 | 41 41.8 S | 3 40.1 | 263 05.0 S13 | 49.1 | Arcturus | 146 09.3 N19 | 13.1 | | | | | | |
| 19 | 248 12.5 | 142 12.3 | 36.1 | 66 24.5 | 11.6 | 56 43.9 | 40.3 | 278 07.6 | 49.1 | Atria | 107 59.3 S69 | 01.2 | | | | | | |
| 20 | 263 15.0 | 157 11.6 | 35.9 | 81 25.5 | 12.3 | 71 46.0 | 40.4 | 293 10.3 | 49.2 | Avior | 234 24.7 S59 | 29.3 | | | | | | |
| 21 | 278 17.4 | 172 11.0 | 35.7 | 96 26.5 | 12.9 | 86 48.0 | 40.6 | 308 12.9 | 49.3 | Bellatrix | 278 48.1 N 6 | 20.7 | | | | | | |
| 22 | 293 19.9 | 187 10.3 | 35.5 | 111 27.5 | 13.6 | 101 50.1 | 40.8 | 323 15.6 | 49.4 | Betelgeuse | 271 17.5 N 7 | 24.4 | | | | | | |
| 23 | 308 22.3 | 202 09.6 | 35.4 | 126 28.6 | 14.2 | 116 52.2 | 41.0 | 338 18.2 | 49.4 | | | | | | | | | |
| 1500 | 323 24.8 | 217 08.9 N21 | 35.2 | 141 29.6 S | 0 14.9 | 131 54.2 S | 3 41.1 | 353 20.9 S13 | 49.5 | Canopus | 264 03.1 S52 | 41.3 | | | | | | |
| 01 | 338 27.3 | 232 08.3 | 35.0 | 156 30.6 | 15.6 | 146 56.3 | 41.3 | 8 23.5 | 49.6 | Capella | 280 56.6 N45 | 59.4 | | | | | | |
| 02 | 353 29.7 | 247 07.6 | 34.8 | 171 31.6 | 16.2 | 161 58.4 | 41.5 | 23 26.2 | 49.6 | Deneb | 49 41.1 N45 | 15.7 | | | | | | |
| 03 | 8 32.2 | 262 06.9 | 34.6 | 186 32.7 | 16.9 | 177 00.4 | 41.7 | 38 28.8 | 49.7 | Denebola | 182 49.0 N14 | 36.5 | | | | | | |
| 04 | 23 34.7 | 277 06.3 | 34.4 | 201 33.7 | 17.5 | 192 02.5 | 41.8 | 53 31.4 | 49.8 | Diphda | 349 10.5 S18 | 01.0 | | | | | | |
| 05 | 38 37.1 | 292 05.6 | 34.2 | 216 34.7 | 18.2 | 207 04.6 | 42.0 | 68 34.1 | 49.8 | | | | | | | | | |
| 06 | 53 39.6 | 307 04.9 N21 | 34.0 | 231 35.7 S | 0 18.8 | 222 06.6 S | 3 42.2 | 83 36.7 S13 | 49.9 | Dubhe | 194 10.3 N61 | 47.2 | | | | | | |
| 07 | 68 42.1 | 322 04.2 | 33.8 | 246 36.8 | 19.5 | 237 08.7 | 42.4 | 98 39.4 | 50.0 | Elnath | 278 31.5 N28 | 36.1 | | | | | | |
| O 08 | 83 44.5 | 337 03.6 | 33.6 | 261 37.8 | 20.1 | 252 10.8 | 42.5 | 113 42.0 | 50.0 | Eltanin | 90 52.7 N51 | 29.7 | | | | | | |
| D 09 | 98 47.0 | 352 02.9 | 33.5 | 276 38.8 | 20.8 | 267 12.8 | 42.7 | 128 44.7 | 50.1 | Enif | 34 01.3 N 9 | 51.0 | | | | | | |
| M 10 | 113 49.4 | 7 02.2 | 33.3 | 291 39.8 | 21.4 | 282 14.9 | 42.9 | 143 47.3 | 50.2 | Fomalhaut | 15 39.9 S29 | 39.1 | | | | | | |
| I 11 | 128 51.9 | 22 01.6 | 33.1 | 306 40.9 | 22.1 | 297 17.0 | 43.1 | 158 50.0 | 50.2 | | | | | | | | | |
| N 12 | 143 54.4 | 37 00.9 N21 | 32.9 | 321 41.9 S | 0 22.7 | 312 19.1 S | 3 43.2 | 173 52.6 S13 | 50.3 | Gacrux | 172 17.9 S57 | 04.9 | | | | | | |
| G 13 | 158 56.8 | 52 00.2 | 32.7 | 336 42.9 | 23.4 | 327 21.1 | 43.4 | 188 55.2 | 50.4 | Gienah | 176 07.8 S17 | 30.5 | | | | | | |
| O 14 | 173 59.3 | 66 59.5 | 32.5 | 351 43.9 | 24.1 | 342 23.2 | 43.6 | 203 57.9 | 50.4 | Hadar | 149 09.2 S60 | 20.8 | | | | | | |
| 15 | 189 01.8 | 81 58.9 | 32.3 | 6 45.0 | 24.7 | 357 25.3 | 43.8 | 219 00.5 | 50.5 | Hamal | 328 17.4 N23 | 26.0 | | | | | | |
| 16 | 204 04.2 | 96 58.2 | 32.1 | 21 46.0 | 25.4 | 12 27.3 | 43.9 | 234 03.2 | 50.6 | Kaus Aust. | 84 03.1 S34 | 23.3 | | | | | | |
| 17 | 219 06.7 | 111 57.5 | 31.9 | 36 47.0 | 26.0 | 27 29.4 | 44.1 | 249 05.8 | 50.6 | | | | | | | | | |
| 18 | 234 09.2 | 126 56.8 N21 | 31.7 | 51 48.0 S | 0 26.7 | 42 31.5 S | 3 44.3 | 264 08.5 S13 | 50.7 | Kochab | 137 19.5 N74 | 11.2 | | | | | | |
| 19 | 249 11.6 | 141 56.2 | 31.4 | 66 49.1 | 27.3 | 57 33.5 | 44.5 | 279 11.1 | 50.8 | Markab | 13 52.8 N15 | 10.4 | | | | | | |
| 20 | 264 14.1 | 156 55.5 | 31.2 | 81 50.1 | 28.0 | 72 35.6 | 44.6 | 294 13.8 | 50.9 | Menkar | 314 30.5 N 4 | 04.0 | | | | | | |
| 21 | 279 16.6 | 171 54.8 | 31.0 | 96 51.1 | 28.6 | 87 37.7 | 44.8 | 309 16.4 | 50.9 | Menkent | 148 25.2 S36 | 20.5 | | | | | | |
| 22 | 294 19.0 | 186 54.2 | 30.8 | 111 52.1 | 29.3 | 102 39.7 | 45.0 | 324 19.0 | 51.0 | Miaplacidus | 221 43.7 S69 | 41.5 | | | | | | |
| 23 | 309 21.5 | 201 53.5 | 30.6 | 126 53.2 | 29.9 | 117 41.8 | 45.1 | 339 21.7 | 51.1 | | | | | | | | | |
| 1600 | 324 23.9 | 216 52.8 N21 | 30.4 | 141 54.2 S | 0 30.6 | 132 43.8 S | 3 45.3 | 354 24.3 S13 | 51.1 | Mirfak | 309 01.6 N49 | 50.2 | | | | | | |
| 01 | 339 26.4 | 231 52.1 | 30.2 | 156 55.2 | 31.3 | 147 45.9 | 45.5 | 9 27.0 | 51.2 | Nunki | 76 16.3 S26 | 18.2 | | | | | | |
| 02 | 354 28.9 | 246 51.5 | 30.0 | 171 56.2 | 31.9 | 162 48.0 | 45.7 | 24 29.6 | 51.3 | Peacock | 53 41.9 S56 | 45.3 | | | | | | |
| 03 | 9 31.3 | 261 50.8 | 29.8 | 186 57.3 | 32.6 | 177 50.0 | 45.8 | 39 32.3 | 51.3 | Pollux | 243 46.1 N28 | 02.5 | | | | | | |
| 04 | 24 33.8 | 276 50.1 | 29.6 | 201 58.3 | 33.2 | 192 52.1 | 46.0 | 54 34.9 | 51.4 | Procyon | 245 15.5 N 5 | 14.5 | | | | | | |
| 05 | 39 36.3 | 291 49.4 | 29.3 | 216 59.3 | 33.9 | 207 54.2 | 46.2 | 69 37.6 | 51.5 | | | | | | | | | |
| 06 | 54 38.7 | 306 48.8 N21 | 29.1 | 232 00.3 S | 0 34.5 | 222 56.2 S | 3 46.4 | 84 40.2 S13 | 51.5 | Rasalhague | 96 20.0 N12 | 34.1 | | | | | | |
| 07 | 69 41.2 | 321 48.1 | 28.9 | 247 01.4 | 35.2 | 237 58.3 | 46.6 | 99 42.8 | 51.6 | Regulus | 207 59.6 N11 | 59.9 | | | | | | |
| 08 | 84 43.7 | 336 47.4 | 28.7 | 262 02.4 | 35.8 | 253 00.4 | 46.7 | 114 45.5 | 51.7 | Rigel | 281 26.4 S 8 | 12.4 | | | | | | |
| L 09 | 99 46.1 | 351 46.8 | 28.5 | 277 03.4 | 36.5 | 268 02.4 | 46.9 | 129 48.1 | 51.7 | Rigel Kent. | 140 12.1 S60 | 48.8 | | | | | | |
| 10 | 114 48.6 | 6 46.1 | 28.2 | 292 04.4 | 37.1 | 283 04.5 | 47.1 | 144 50.8 | 51.8 | Sabik | 102 29.4 S15 | 43.0 | | | | | | |
| 11 | 129 51.1 | 21 45.4 | 28.0 | 307 05.4 | 37.8 | 298 06.6 | 47.3 | 159 53.4 | 51.9 | | | | | | | | | |
| 12 | 144 53.5 | 36 44.7 N21 | 27.8 | 322 06.5 S | 0 38.5 | 313 08.6 S | 3 47.4 | 174 56.1 S13 | 51.9 | Schedar | 349 57.1 N56 | 30.1 | | | | | | |
| 13 | 159 56.0 | 51 44.1 | 27.6 | 337 07.5 | 39.1 | 328 10.7 | 47.6 | 189 58.7 | 52.0 | Shaula | 96 41.8 S37 | 06.0 | | | | | | |
| 14 | 174 58.4 | 66 43.4 | 27.4 | 352 08.5 | 39.8 | 343 12.8 | 47.8 | 205 01.4 | 52.1 | Sirius | 258 47.0 S16 | 42.3 | | | | | | |
| 15 | 190 00.9 | 81 42.7 | 27.1 | 7 09.5 | 40.4 | 358 14.8 | 48.0 | 220 04.0 | 52.1 | Spica | 158 47.0 S11 | 07.7 | | | | | | |
| 16 | 205 03.4 | 96 42.0 | 26.9 | 22 10.6 | 41.1 | 13 16.9 | 48.1 | 235 06.6 | 52.2 | Suhail | 223 03.8 S43 | 24.4 | | | | | | |
| 17 | 220 05.8 | 111 41.4 | 26.7 | 37 11.6 | 41.7 | 28 18.9 | 48.3 | 250 09.3 | 52.3 | | | | | | | | | |
| 18 | 235 08.3 | 126 40.7 N21 | 26.4 | 52 12.6 S | 0 42.4 | 43 21.0 S | 3 48.5 | 265 11.9 S13 | 52.4 | Vega | 80 48.7 N38 | 46.9 | | | | | | |
| 19 | 250 10.8 | 141 40.0 | 26.2 | 67 13.6 | 43.0 | 58 23.1 | 48.7 | 280 14.6 | 52.4 | Zuben'ubi | 137 21.9 S16 | 01.0 | | | | | | |
| 20 | 265 13.2 | 156 39.3 | 26.0 | 82 14.6 | 43.7 | 73 25.1 | 48.8 | 295 17.2 | 52.5 | | | | | | | | | |
| 21 | 280 15.7 | 171 38.7 | 25.8 | 97 15.7 | 44.3 | 88 27.2 | 49.0 | 310 1 | | | | | | | | | | |

| T.M.G. (TU) | SOL | | | | LUNA | | | | Lat. | Crepúsculo | | Orto Sol | Orto Luna | | | |
|----------------|--------|------|------|------|--------|------|------|-----|------|------------|-------|----------|-----------|-------|-------|-------|
| | A.H.G. | | Dec. | | A.H.G. | | Dec. | | | Naut. | Civil | | 14 | 15 | 16 | 17 |
| | o | ' | o | ' | o | ' | o | ' | | | | | | | | |
| 14 00 | 178 | 49.2 | N14 | 25.5 | 231 | 41.6 | 7.5 | N21 | 36.5 | 3.0 | 57.6 | 02 24 | □ | 23 54 | 26 38 | 02 38 |
| 01 | 193 | 49.3 | | 24.7 | 246 | 08.1 | 7.5 | 21 | 33.5 | 3.1 | 57.7 | 02 56 | 21 49 | 24 45 | 00 45 | 03 00 |
| 02 | 208 | 49.4 | | 24.0 | 260 | 34.6 | 7.5 | 21 | 30.4 | 3.3 | 57.7 | 01 43 | 03 19 | 23 15 | 25 17 | 01 17 |
| 03 | 223 | 49.5 | .. | 23.2 | 275 | 01.1 | 7.4 | 21 | 27.1 | 3.3 | 57.8 | 02 21 | 03 37 | 23 53 | 25 40 | 01 40 |
| 04 | 238 | 49.7 | | 22.4 | 289 | 27.5 | 7.4 | 21 | 23.8 | 3.6 | 57.8 | 02 47 | 03 52 | 24 20 | 00 20 | 01 58 |
| 05 | 253 | 49.8 | | 21.6 | 303 | 53.9 | 7.4 | 21 | 20.2 | 3.6 | 57.8 | 03 06 | 04 04 | 24 41 | 00 41 | 02 13 |
| 06 | 268 | 49.9 | N14 | 20.9 | 318 | 20.3 | 7.4 | N21 | 16.6 | 3.8 | 57.9 | 03 22 | 04 14 | 24 57 | 00 57 | 02 26 |
| 07 | 283 | 50.0 | | 20.1 | 332 | 46.7 | 7.4 | 21 | 12.8 | 3.9 | 57.9 | 02 30 | 03 36 | 04 23 | 25 12 | 01 12 |
| 08 | 298 | 50.1 | | 19.3 | 347 | 13.1 | 7.3 | 21 | 08.9 | 4.1 | 58.0 | 03 47 | 04 31 | 00 11 | 01 24 | 02 46 |
| 09 | 313 | 50.2 | .. | 18.6 | 1 | 39.4 | 7.3 | 21 | 04.8 | 4.2 | 58.0 | 03 04 | 03 57 | 04 38 | 00 23 | 01 34 |
| 10 | 328 | 50.4 | | 17.8 | 16 | 05.7 | 7.4 | 21 | 00.6 | 4.3 | 58.0 | 04 06 | 04 44 | 00 34 | 01 44 | 03 01 |
| 11 | 343 | 50.5 | | 17.0 | 30 | 32.1 | 7.3 | 20 | 56.3 | 4.4 | 58.1 | 04 13 | 04 49 | 00 43 | 01 52 | 03 08 |
| 12 | 358 | 50.6 | N14 | 16.2 | 44 | 58.4 | 7.2 | N20 | 51.9 | 4.6 | 58.1 | 04 29 | 05 01 | 01 03 | 02 10 | 03 22 |
| 13 | 13 | 50.7 | | 15.5 | 59 | 24.6 | 7.3 | 20 | 47.3 | 4.7 | 58.1 | 04 07 | 04 42 | 05 11 | 01 20 | 02 24 |
| 14 | 28 | 50.8 | | 14.7 | 73 | 50.9 | 7.3 | 20 | 42.6 | 4.9 | 58.2 | 04 21 | 04 53 | 05 20 | 01 33 | 02 36 |
| 15 | 43 | 50.9 | .. | 13.9 | 88 | 17.2 | 7.2 | 20 | 37.7 | 5.0 | 58.2 | 04 32 | 05 02 | 05 27 | 01 45 | 02 47 |
| 16 | 58 | 51.1 | | 13.1 | 102 | 43.4 | 7.3 | 20 | 32.7 | 5.1 | 58.3 | 05 02 | 05 17 | 05 40 | 02 06 | 03 05 |
| 17 | 73 | 51.2 | | 12.4 | 117 | 09.7 | 7.2 | 20 | 27.6 | 5.2 | 58.3 | 04 50 | 05 29 | 05 51 | 02 23 | 03 21 |
| 18 | 88 | 51.3 | N14 | 11.6 | 131 | 35.9 | 7.2 | N20 | 22.4 | 5.4 | 58.3 | 05 15 | 05 40 | 06 01 | 02 40 | 03 36 |
| 19 | 103 | 51.4 | | 10.8 | 146 | 02.1 | 7.2 | 20 | 17.0 | 5.5 | 58.4 | 05 25 | 05 50 | 06 11 | 02 56 | 03 51 |
| 20 | 118 | 51.5 | | 10.0 | 160 | 28.3 | 7.2 | 20 | 11.5 | 5.7 | 58.4 | 05 33 | 05 59 | 06 22 | 03 14 | 04 06 |
| 21 | 133 | 51.7 | .. | 09.3 | 174 | 54.5 | 7.2 | 20 | 05.8 | 5.7 | 58.4 | 05 41 | 06 09 | 06 34 | 03 34 | 04 25 |
| 22 | 148 | 51.8 | | 08.5 | 189 | 20.7 | 7.2 | 20 | 00.1 | 5.9 | 58.5 | 05 45 | 06 14 | 06 41 | 03 46 | 04 35 |
| 23 | 163 | 51.9 | | 07.7 | 203 | 46.9 | 7.2 | 19 | 54.2 | 6.1 | 58.5 | 06 20 | 06 20 | 06 48 | 04 00 | 04 47 |
| 15 00 | 178 | 52.0 | N14 | 06.9 | 218 | 13.1 | 7.2 | N19 | 48.1 | 6.1 | 58.6 | 06 27 | 06 27 | 06 57 | 04 16 | 05 01 |
| 01 | 193 | 52.1 | | 06.1 | 232 | 39.3 | 7.2 | 19 | 42.0 | 6.3 | 58.6 | 05 58 | 06 38 | 07 13 | 04 45 | 05 27 |
| 02 | 208 | 52.3 | | 05.4 | 247 | 05.5 | 7.2 | 19 | 35.7 | 6.4 | 58.6 | 06 00 | 06 41 | 07 19 | 04 56 | 05 35 |
| 03 | 223 | 52.4 | .. | 04.6 | 261 | 31.7 | 7.2 | 19 | 29.3 | 6.6 | 58.7 | 06 02 | 06 45 | 07 25 | 05 07 | 05 46 |
| 04 | 238 | 52.5 | | 03.8 | 275 | 57.9 | 7.2 | 19 | 22.7 | 6.7 | 58.7 | 06 03 | 06 50 | 07 32 | 05 21 | 05 57 |
| 05 | 253 | 52.6 | | 03.0 | 290 | 24.1 | 7.2 | 19 | 16.0 | 6.8 | 58.7 | 06 05 | 06 55 | 07 39 | 05 37 | 06 10 |
| 06 | 268 | 52.8 | N14 | 02.3 | 304 | 50.3 | 7.2 | N19 | 09.2 | 6.9 | 58.8 | 06 05 | 06 34 | 07 08 | 04 36 | 05 18 |
| 07 | 283 | 52.9 | | 01.5 | 319 | 16.5 | 7.2 | 19 | 02.3 | 7.1 | 58.8 | 05 58 | 06 38 | 07 13 | 04 45 | 05 27 |
| 08 | 298 | 53.0 | 14 | 00.7 | 333 | 42.7 | 7.2 | 18 | 55.2 | 7.1 | 58.9 | 06 00 | 06 41 | 07 19 | 04 56 | 05 35 |
| 09 | 313 | 53.1 | 13 | 59.9 | 348 | 08.9 | 7.2 | 18 | 48.1 | 7.4 | 58.9 | 06 02 | 06 45 | 07 25 | 05 07 | 05 46 |
| 10 | 328 | 53.2 | | 59.1 | 2 | 35.1 | 7.2 | 18 | 40.7 | 7.4 | 58.9 | 06 03 | 06 50 | 07 32 | 05 21 | 05 57 |
| 11 | 343 | 53.4 | | 58.3 | 17 | 01.3 | 7.2 | 18 | 33.3 | 7.6 | 59.0 | 06 05 | 06 55 | 07 39 | 05 37 | 06 10 |
| 12 | 358 | 53.5 | N13 | 57.6 | 31 | 27.5 | 7.2 | N18 | 25.7 | 7.6 | 59.0 | 05 56 | 06 34 | 07 08 | 04 36 | 05 18 |
| 13 | 13 | 53.6 | | 56.8 | 45 | 53.7 | 7.3 | 18 | 18.1 | 7.8 | 59.0 | 05 58 | 06 38 | 07 13 | 04 45 | 05 27 |
| 14 | 28 | 53.7 | | 56.0 | 60 | 20.0 | 7.2 | 18 | 10.3 | 8.0 | 59.1 | 06 00 | 06 41 | 07 19 | 04 56 | 05 35 |
| 15 | 43 | 53.9 | .. | 55.2 | 74 | 46.2 | 7.3 | 18 | 02.3 | 8.0 | 59.1 | 06 02 | 06 45 | 07 25 | 05 07 | 05 46 |
| 16 | 58 | 54.0 | | 54.4 | 89 | 12.5 | 7.2 | 17 | 54.3 | 8.2 | 59.1 | 06 03 | 06 50 | 07 32 | 05 21 | 05 57 |
| 17 | 73 | 54.1 | | 53.6 | 103 | 38.7 | 7.3 | 17 | 46.1 | 8.3 | 59.2 | 06 05 | 06 55 | 07 39 | 05 37 | 06 10 |
| 18 | 88 | 54.2 | N13 | 52.9 | 118 | 05.0 | 7.3 | N17 | 37.8 | 8.4 | 59.2 | 06 05 | 06 34 | 07 08 | 04 36 | 05 18 |
| 19 | 103 | 54.4 | | 52.1 | 132 | 31.3 | 7.3 | 17 | 29.4 | 8.5 | 59.2 | 05 58 | 06 38 | 07 13 | 04 45 | 05 27 |
| 20 | 118 | 54.5 | | 51.3 | 146 | 57.6 | 7.3 | 17 | 20.9 | 8.7 | 59.3 | 05 58 | 06 38 | 07 13 | 04 45 | 05 27 |
| 21 | 133 | 54.6 | .. | 50.5 | 161 | 23.9 | 7.4 | 17 | 12.2 | 8.8 | 59.3 | 06 00 | 06 41 | 07 19 | 04 56 | 05 35 |
| 22 | 148 | 54.7 | | 49.7 | 175 | 50.3 | 7.3 | 17 | 03.4 | 8.8 | 59.3 | 06 02 | 06 45 | 07 25 | 05 07 | 05 46 |
| 23 | 163 | 54.9 | | 48.9 | 190 | 16.6 | 7.3 | 16 | 54.6 | 9.0 | 59.4 | 06 03 | 06 50 | 07 32 | 05 21 | 05 57 |
| 16 00 | 178 | 55.0 | N13 | 48.1 | 204 | 42.9 | 7.4 | N16 | 45.6 | 9.2 | 59.4 | 06 03 | 06 50 | 07 32 | 05 21 | 05 57 |
| 01 | 193 | 55.1 | | 47.3 | 219 | 09.3 | 7.4 | 16 | 36.4 | 9.2 | 59.4 | 06 05 | 06 34 | 07 08 | 04 36 | 05 18 |
| 02 | 208 | 55.2 | | 46.6 | 233 | 35.7 | 7.4 | 16 | 27.2 | 9.3 | 59.5 | 06 05 | 06 34 | 07 08 | 04 36 | 05 18 |
| 03 | 223 | 55.4 | .. | 45.8 | 248 | 02.1 | 7.4 | 16 | 17.9 | 9.5 | 59.5 | 06 06 | 06 34 | 07 08 | 04 36 | 05 18 |
| 04 | 238 | 55.5 | | 45.0 | 262 | 28.5 | 7.5 | 16 | 08.4 | 9.5 | 59.5 | 06 06 | 06 34 | 07 08 | 04 36 | 05 18 |
| 05 | 253 | 55.6 | | 44.2 | 276 | 55.0 | 7.4 | 15 | 58.9 | 9.7 | 59.6 | 06 07 | 06 34 | 07 08 | 04 36 | 05 18 |
| 06 | 268 | 55.7 | N13 | 43.4 | 291 | 21.4 | 7.5 | N15 | 49.2 | 9.8 | 59.6 | 06 07 | 06 34 | 07 08 | 04 36 | 05 18 |
| 07 | 283 | 55.9 | | 42.6 | 305 | 47.9 | 7.5 | 15 | 39.4 | 9.9 | 59.6 | 06 08 | 06 34 | 07 08 | 04 36 | 05 18 |
| 08 | 298 | 56.0 | | 41.8 | 320 | 14.4 | 7.5 | 15 | 29.5 | 10.0 | 59.7 | 06 08 | 06 34 | 07 08 | 04 36 | 05 18 |
| 09 | 313 | 56.1 | .. | 41.0 | 334 | 40.9 | 7.5 | 15 | 19.5 | 10.1 | 59.7 | 06 09 | 06 34 | 07 08 | 04 36 | 05 18 |
| 10 | 328 | 56.3 | | 40.2 | 349 | 07.4 | 7.5 | 15 | 09.4 | 10.2 | 59.7 | 06 09 | 06 34 | 07 08 | 04 36 | 05 18 |
| 11 | 343 | 56.4 | | 39.4 | 3 | 33.9 | 7.6 | 14 | 59.2 | 10.3 | 59.8 | 06 10 | 06 34 | 07 08 | 04 36 | 05 18 |
| 12 | 358 | 56.5 | N13 | 38.7 | 18 | 00.5 | 7.6 | N14 | 48.9 | 10.5 | 59.8 | 06 10 | 06 34 | 07 08 | 04 36 | 05 18 |
| 13 | 13 | 56.6 | | 37.9 | 32 | 27.1 | 7.6 | 14 | 38.4 | 10.5 | 59.8 | 06 11 | 06 34 | 07 08 | 04 36 | 05 18 |
| 14 | 28 | 56.8 | | 37.1 | 46 | 53.7 | 7.6 | 14 | 27.9 | 10.6 | 59.8 | 06 11 | 06 34 | 07 08 | 04 36 | 05 18 |
| 15 | 43 | 56.9 | .. | 36.3 | 61 | 20.3 | 7.7 | 14 | 17.3 | 10.7 | 59.9 | 06 11 | 06 34 | 07 08 | 04 36 | 05 18 |
| 16 | 58 | 57.0 | | 35.5 | 75 | 47.0 | 7.6 | 14 | 06.6 | 10.8 | 59.9 | 06 12 | 06 34 | 07 08 | 04 36 | 05 18 |
| 17 | 73 | 57.2 | | 34.7 | 90 | 13.6 | 7.7 | 13 | 55.8 | 11.0 | 59.9 | 06 12 | 06 34 | 07 08 | 04 36 | 05 18 |
| 18 | 88 | 57.3 | N13 | 33.9 | 104 | 40.3 | 7.7 | N13 | 44.8 | 11.0 | 60.0 | 06 13 | 06 34 | 07 08 | 04 36 | 05 18 |
| 19 | 103 | 57.4 | | 33.1 | 119 | 07.0 | 7.8 | 13 | 33.8 | 11.1 | 60.0 | 06 13 | 06 34 | 07 08 | 04 36 | 05 18 |
| 20 | 118 | 57.5 | | 32.3 | 133 | 33.8 | 7.7 | 13 | 22.7 | 11.2 | 60.0 | 06 13 | 06 34 | 07 08 | 04 36 | 05 18 |
| 21 | 133 | 57.7 | .. | 31.5 | 148 | 00.5 | 7.8 | 13 | 11.5 | 11.3 | 60.0 | 06 13 | 06 34 | 07 08 | 04 36 | 05 18 |
| 22 | 148 | 57.8 | | 30.7 | 162 | 27.3 | 7.8 | 13 | 00.2 | 11.4 | | | | | | |

| T.M.G. (TU) | ARIES | VENUS -4.0 | MARTE +1.7 | JUPITER -1.8 | SATURNO +0.3 | ESTRELLAS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------|---------------|-------------------|-------------------|-------------------|---|-------------|-------------------|---|----------|-----------|-----|-----------|-----|-------|----------|------|-------|----------|-------|---------|----------|-------|---------|---------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| d h | A.H.G. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | A.H.G. Dec. | Nombre | A. H. S. | Dec. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 17 | 00 | 325 23.1 | 216 36.7 N21 25.1 | 142 18.7 S 0 46.3 | 133 33.4 S 3 49.5 | 355 27.8 S13 52.8 | Acamar | 315 29.5 S40 19.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 340 25.5 | 231 36.0 24.8 | 157 19.7 47.0 | 148 35.4 49.7 | 10 30.4 52.8 | Achernar | 335 37.4 S57 15.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 355 28.0 | 246 35.3 24.6 | 172 20.8 47.6 | 163 37.5 49.9 | 25 33.1 52.9 | Acrux | 173 26.4 S63 04.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 10 30.5 | 261 34.6 24.3 | 187 21.8 48.3 | 178 39.6 50.1 | 40 35.7 53.0 | Adhara | 255 24.4 S28 57.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 25 32.9 | 276 34.0 24.1 | 202 22.8 48.9 | 193 41.6 50.2 | 55 38.4 53.0 | Aldebaran | 291 06.5 N16 29.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 40 35.4 | 291 33.3 23.9 | 217 23.8 49.6 | 208 43.7 50.4 | 70 41.0 53.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 55 37.9 | 306 32.6 N21 23.6 | 232 24.9 S 0 50.2 | 223 45.8 S 3 50.6 | 85 43.7 S13 53.2 | Alioth | 166 34.0 N55 59.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 70 40.3 | 321 31.9 23.4 | 247 25.9 50.9 | 238 47.8 50.8 | 100 46.3 53.2 | Alkaid | 153 10.7 N49 20.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 85 42.8 | 336 31.3 23.1 | 262 26.9 51.6 | 253 49.9 50.9 | 115 49.0 53.3 | Al Na'ir | 28 01.7 S46 59.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | M 09 | 100 45.3 | 351 30.6 22.9 | 277 27.9 52.2 | 268 51.9 51.1 | 130 51.6 53.4 | Alnilam | 276 01.5 S 1 12.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | A 10 | 115 47.7 | 6 29.9 22.6 | 292 28.9 52.9 | 283 54.0 51.3 | 145 54.3 53.4 | Alphard | 218 10.9 S 8 37.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | R 11 | 130 50.2 | 21 29.3 22.4 | 307 30.0 53.5 | 298 56.1 51.5 | 160 56.9 53.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | T 12 | 145 52.7 | 36 28.6 N21 22.2 | 322 31.0 S 0 54.2 | 313 58.1 S 3 51.7 | 175 59.5 S13 53.6 | Alphecca | 126 23.5 N26 44.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E 13 | 160 55.1 | 51 27.9 21.9 | 337 32.0 54.8 | 329 00.2 51.8 | 191 02.2 53.6 | Alpheratz | 357 58.6 N29 03.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S 14 | 175 57.6 | 66 27.2 21.7 | 352 33.0 55.5 | 344 02.2 52.0 | 206 04.8 53.7 | Altair | 62 22.4 N 8 51.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 191 00.0 | 81 26.6 21.4 | 7 34.0 56.1 | 359 04.3 52.2 | 221 07.5 53.8 | Ankaa | 353 29.9 S42 20.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 206 02.5 | 96 25.9 21.2 | 22 35.0 56.8 | 14 06.4 52.4 | 236 10.1 53.8 | Antares | 112 44.3 S26 25.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 221 05.0 | 111 25.2 20.9 | 37 36.1 57.5 | 29 08.4 52.5 | 251 12.8 53.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 236 07.4 | 126 24.5 N21 20.6 | 52 37.1 S 0 58.1 | 44 10.5 S 3 52.7 | 266 15.4 S13 54.0 | Arcturus | 146 09.3 N19 13.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 251 09.9 | 141 23.9 20.4 | 67 38.1 58.8 | 59 12.5 52.9 | 281 18.1 54.1 | Atria | 107 59.3 S69 01.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 266 12.4 | 156 23.2 20.1 | 82 39.1 0 59.4 | 74 14.6 53.1 | 296 20.7 54.1 | Avior | 234 24.7 S59 29.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 281 14.8 | 171 22.5 19.9 | 97 40.1 1 00.1 | 89 16.7 53.2 | 311 23.3 54.2 | Bellatrix | 278 48.0 N 6 20.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 296 17.3 | 186 21.8 19.6 | 112 41.2 00.7 | 104 18.7 53.4 | 326 26.0 54.3 | Betelgeuse | 271 17.5 N 7 24.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 311 19.8 | 201 21.2 19.4 | 127 42.2 01.4 | 119 20.8 53.6 | 341 28.6 54.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 | 00 | 326 22.2 | 216 20.5 N21 19.1 | 142 43.2 S 1 02.0 | 134 22.8 S 3 53.8 | 356 31.3 S13 54.4 | Canopus | 264 03.1 S52 41.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 341 24.7 | 231 19.8 18.8 | 157 44.2 02.7 | 149 24.9 54.0 | 11 33.9 54.5 | Capella | 280 56.5 N45 59.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 356 27.2 | 246 19.2 18.6 | 172 45.2 03.4 | 164 27.0 54.1 | 26 36.6 54.5 | Deneb | 49 41.1 N45 15.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 11 29.6 | 261 18.5 18.3 | 187 46.3 04.0 | 179 29.0 54.3 | 41 39.2 54.6 | Denebola | 182 49.0 N14 36.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 26 32.1 | 276 17.8 18.1 | 202 47.3 04.7 | 194 31.1 54.5 | 56 41.9 54.7 | Diphda | 349 10.5 S18 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 41 34.5 | 291 17.1 17.8 | 217 48.3 05.3 | 209 33.1 54.7 | 71 44.5 54.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 56 37.0 | 306 16.5 N21 17.5 | 232 49.3 S 1 06.0 | 224 35.2 S 3 54.8 | 86 47.2 S13 54.8 | Dubhe | 194 10.3 N61 47.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 71 39.5 | 321 15.8 17.3 | 247 50.3 06.6 | 239 37.3 55.0 | 101 49.8 54.9 | Elnath | 278 31.5 N28 36.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 86 41.9 | 336 15.1 17.0 | 262 51.3 07.3 | 254 39.3 55.2 | 116 52.4 54.9 | Eltanin | 90 52.7 N51 29.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 09 | 101 44.4 | 351 14.4 16.7 | 277 52.4 07.9 | 269 41.4 55.4 | 131 55.1 55.0 | Enif | 34 01.3 N 9 51.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 10 | 116 46.9 | 6 13.8 16.5 | 292 53.4 08.6 | 284 43.4 55.6 | 146 57.7 55.1 | Fomalhaut | 15 39.9 S29 39.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 11 | 131 49.3 | 21 13.1 16.2 | 307 54.4 09.3 | 299 45.5 55.7 | 162 00.4 55.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 12 | 146 51.8 | 36 12.4 N21 15.9 | 322 55.4 S 1 09.9 | 314 47.5 S 3 55.9 | 177 03.0 S13 55.2 | Gacrux | 172 17.9 S57 04.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 13 | 161 54.3 | 51 11.8 15.6 | 337 56.4 10.6 | 329 49.6 56.1 | 192 05.7 55.3 | Gienah | 176 07.8 S17 30.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 14 | 176 56.7 | 66 11.1 15.4 | 352 57.4 11.2 | 344 51.7 56.3 | 207 08.3 55.3 | Hadar | 149 09.2 S60 20.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 191 59.2 | 81 10.4 15.1 | 7 58.5 11.9 | 359 53.7 56.4 | 222 11.0 55.4 | Hamal | 328 17.4 N23 26.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 207 01.6 | 96 09.7 14.8 | 22 59.5 12.5 | 14 55.8 56.6 | 237 13.6 55.5 | Kaus Aust. | 84 03.2 S34 23.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 222 04.1 | 111 09.1 14.5 | 38 00.5 13.2 | 29 57.8 56.8 | 252 16.3 55.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 237 06.6 | 126 08.4 N21 14.3 | 53 01.5 S 1 13.8 | 44 59.9 S 3 57.0 | 267 18.9 S13 55.6 | Kochab | 137 19.6 N74 11.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 252 09.0 | 141 07.7 14.0 | 68 02.5 14.5 | 60 01.9 57.2 | 282 21.5 55.7 | Markab | 13 52.8 N15 10.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 267 11.5 | 156 07.0 13.7 | 83 03.5 15.2 | 75 04.0 57.3 | 297 24.2 55.8 | Menkar | 314 30.5 N 4 04.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 282 14.0 | 171 06.4 13.4 | 98 04.6 15.8 | 90 06.1 57.5 | 312 26.8 55.8 | Menkent | 148 25.2 S36 20.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 297 16.4 | 186 05.7 13.1 | 113 05.6 16.5 | 105 08.1 57.7 | 327 29.5 55.9 | Miaplacidus | 221 43.7 S69 41.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 312 18.9 | 201 05.0 12.9 | 128 06.6 17.1 | 120 10.2 57.9 | 342 32.1 56.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 00 | 327 21.4 | 216 04.4 N21 12.6 | 143 07.6 S 1 17.8 | 135 12.2 S 3 58.0 | 357 34.8 S13 56.0 | Mirfak | 309 01.6 N49 50.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 01 | 342 23.8 | 231 03.7 12.3 | 158 08.6 18.4 | 150 14.3 58.2 | 12 37.4 56.1 | Nunki | 76 16.4 S26 18.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 02 | 357 26.3 | 246 03.0 12.0 | 173 09.6 19.1 | 165 16.3 58.4 | 27 40.1 56.2 | Peacock | 53 41.9 S56 45.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 03 | 12 28.8 | 261 02.3 11.7 | 188 10.7 19.8 | 180 18.4 58.6 | 42 42.7 56.2 | Pollux | 243 46.1 N28 02.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 04 | 27 31.2 | 276 01.7 11.4 | 203 11.7 20.4 | 195 20.4 58.8 | 57 45.4 56.3 | Procyon | 245 15.5 N 5 14.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 05 | 42 33.7 | 291 01.0 11.1 | 218 12.7 21.1 | 210 22.5 58.9 | 72 48.0 56.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 06 | 57 36.1 | 306 00.3 N21 10.8 | 233 13.7 S 1 21.7 | 225 24.6 S 3 59.1 | 87 50.6 S13 56.4 | Rasalhague | 96 20.0 N12 34.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 07 | 72 38.6 | 320 59.6 10.5 | 248 14.7 22.4 | 240 26.6 59.3 | 102 53.3 56.5 | Regulus | 207 59.6 N11 59.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 08 | 87 41.1 | 335 59.0 10.3 | 263 15.7 23.0 | 255 28.7 59.5 | 117 55.9 56.6 | Rigel | 281 26.4 S 8 12.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | J 09 | 102 43.5 | 350 58.3 10.0 | 278 16.8 23.7 | 270 30.7 59.7 | 132 58.6 56.6 | Rigil Kent. | 140 12.1 S60 48.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | U 10 | 117 46.0 | 5 57.6 09.7 | 293 17.8 24.3 | 285 32.8 3 59.8 | 148 01.2 56.7 | Sabik | 102 29.4 S15 43.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E 11 | 132 48.5 | 20 57.0 09.4 | 308 18.8 25.0 | 300 34.8 4 00.0 | 163 03.9 56.8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | V 12 | 147 50.9 | 35 56.3 N21 09.1 | 323 19.8 S 1 25.7 | 315 36.9 S 4 00.2 | 178 06.5 S13 56.8 | Schedar | 349 57.1 N56 30.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E 13 | 162 53.4 | 50 55.6 08.8 | 338 20.8 26.3 | 330 38.9 00.4 | 193 09.2 56.9 | Shaula | 96 41.8 S37 06.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | S 14 | 177 55.9 | 65 54.9 08.5 | 353 21.8 27.0 | 345 41.0 00.5 | 208 11.8 57.0 | Sirius | 258 47.0 S16 42.3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 15 | 192 58.3 | 80 54.3 08.2 | 8 22.8 27.6 | 0 43.1 00.7 | 223 14.5 57.0 | Spica | 158 47.0 S11 07.7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 16 | 208 00.8 | 95 53.6 07.9 | 23 23.9 28.3 | 15 45.1 00.9 | 238 17.1 57.1 | Suhail | 223 03.8 S43 24.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 17 | 223 03.3 | 110 52.9 07.6 | 38 24.9 28.9 | 30 47.2 01.1 | 253 19.7 57.2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 18 | 238 05.7 | 125 52.3 N21 07.3 | 53 25.9 S 1 29.6 | 45 49.2 S 4 01.3 | 268 22.4 S13 57.2 | Vega | 80 48.7 N38 46.9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 19 | 253 08.2 | 140 51.6 07.0 | 68 26.9 30.3 | 60 51.3 01.4 | 283 25.0 57.3 | Zuben'ubi | 137 21.9 S16 01.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 20 | 268 10.6 | 155 50.9 06.7 | 83 27.9 30.9 | 75 53.3 01.6 | 298 27.7 57.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 21 | 283 13.1 | 170 50.2 06.4 | 98 28.9 31.6 | 90 55.4 01.8 | 313 30.3 57.4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 22 | 298 15.6 | 185 49.6 06.1 | 113 29.9 32.2 | 105 57.4 02.0 | 328 33.0 57.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 23 | 313 18.0 | 200 48.9 05.7 | 128 30.9 32.9 | 120 59.5 02.2 | 343 35.6 57.6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | <table border="1"> <thead> <tr> <th></th> <th>A. H. S.</th> <th>Pas. Mer.</th> </tr> <tr> <th></th> <th>o / ' / "</th> <th>h m</th> </tr> </thead> <tbody> <tr> <td>Venus</td> <td>249 58.3</td> <td>9 35</td> </tr> <tr> <td>Marte</td> <td>176 21.0</td> <td>14 28</td> </tr> <tr> <td>Júpiter</td> <td>168 00.6</td> <td>15 00</td> </tr> <tr> <td>Saturno</td> <td>30 09.1</td> <td>0 14</td> </tr> </tbody> </table> | | | | A. H. S. | Pas. Mer. | | o / ' / " | h m | Venus | 249 58.3 | 9 35 | Marte | 176 21.0 | 14 28 | Júpiter | 168 00.6 | 15 00 | Saturno | 30 09.1 | 0 14 | | | | | | | | | | | | | | | | | | | | |
| | A. H. S. | Pas. Mer. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | o / ' / " | h m | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Venus | 249 58.3 | 9 35 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Marte | 176 21.0 | 14 28 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Júpiter | 168 00.6 | 15 00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Saturno | 30 09.1 | 0 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Pas. Mer.</th> <th>2</th> <th>14.2</th> <th>v</th> <th>-0.7</th> <th>d</th> <th>0.3</th> <th>v</th> <th>1.0</th> <th>d</th> <th>0.7</th> <th>v</th> <th>2.1</th> <th>d</th> <th>0.2</th> <th>v</th> <th>2.6</th> <th>d</th> <th>0.1</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | Pas. Mer. | 2 | 14.2 | v | -0.7 | d | 0.3 | v | 1.0 | d | 0.7 | v | 2.1 | d | 0.2 | v | 2.6 | d | 0.1 | | | | | | | | | | | | | | | | | | | | | | |
| Pas. Mer. | 2 | 14.2 | v | -0.7 | d | 0.3 | v | 1.0 | d | 0.7 | v | 2.1 | d | 0.2 | v | 2.6 | d | 0.1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

6. La altura calculada y azimut. La altura calculada H_C y el azimut verdadero Z se determina conforme al AHG y la Dec interpolados para el tiempo de observación y según la $Long$ y Lat , estimadas en la hora de observación, como sigue:

1o. Paso. Calcular el ángulo horario local.

$$AHL = AHG + Long$$

Sumar o substraer los múltiplos de 360° para encontrar el $A.H.L.$ en el rango de 0° a 360°

2o. Paso. Calcular S, C y la altura H_C según:

$$S = \text{sen } Dec$$

$$C = \cos Dec \cdot \cos A.H.L.$$

$$H_C = \text{sen}^{-1} (S \text{ sen } Lat. + C \text{ cos } Lat.)$$

en donde sen^{-1} es la función inversa del seno.

3o. Paso Calcular X y A conforme:

$$X = (S \cdot \text{cos } Lat - C \text{ sen } Lat) / \text{cos } H_C.$$

$$\text{Si } X > +1 \text{ entonces } X = +1$$

$$\text{Si } X < -1 \text{ entonces } X = -1$$

$$A = \text{cos}^{-1} X$$

en donde cos^{-1} es la función inversa del coseno.

4o. Paso Determinar el azimut Z .

$$\text{Si el } AHL > 180^\circ \text{ entonces } Z = A$$

$$\text{De otra manera } Z = 360^\circ - A$$

7.- Ejemplo Encontrar la altura calculada H_C y el azimut Z cuando:

$$AHG = 53^\circ \text{ Dec} = 15^\circ \text{ S, Lat} = 32^\circ \text{ N Long} = 16^\circ \text{ W G}$$

Para el cálculo.

$$AHG = 53^\circ.0000, Dec = -15^\circ.0000 \text{ Lat} = +32^\circ.0000, Long = -16^\circ.0000$$

$$1o. \text{ Paso } AHL = 53.0000 - 16.0000 = 37.0000$$

$$2o. \text{ Paso } S = -0.2588$$

$$C = +0.9659 \times 0.7986 = 0.7714$$

$$\text{sen } H_C = -0.2588 \times 0.5299 + 0.7714 \times 0.8480 = 0.5171$$

$$H_C = 31^\circ.1346$$

$$3o. \text{ Paso } X = (-0.2588 \times 0.8480 - 0.7714 \times 0.5299) / 0.8560 = -0.7340$$

$$A = 137^\circ.2239$$

$$4o. \text{ Paso } \text{Puesto que } AHL \leq 180^\circ \text{ entonces } Z = 360^\circ - A = 222^\circ.7761'$$

8.- Reducción de la altura observada, a causa de la altura del sextante. La altura del sextante H_s , es corregida tanto por depresión y error de índice para obtener la altura aparente. La altura observada H_o es adaptada según aplicando la corrección por refracción. Para el Sol, Luna, Venus, Marte la corrección por paralaje es igualmente aplicada a H , y para el Sol y la Luna una corrección adicional por semidiámetro son necesarias. Las correcciones se calculan del modo siguiente:

1o. Paso. Calcular la depresión:

$$D = 0^{\circ}0293\sqrt{h}$$

en donde h es la altura del ojo sobre el horizonte en metros.

2o. Paso. Calcular la altura aparente.

$$H = H_s + I - D$$

donde I es el error del índice, del sextante.

3o. Paso. Calcular la refracción atmosférica (R) a la temperatura normal de 10° Celsius, (C) y a 1010 milibares (mb) de presión atmosférica.

$$R_o = 0.0167^{\circ}/\tan(H + 7.31/(H + 4.4))$$

Si la temperatura $T^{\circ}C$ y la presión atmosférica P mb, son conocidas calcular la refracción atmosférica conforme:

$$R = fR_o \text{ en donde } f = 0.28P/(T + 273)$$

de otra manera $R = R_o$

4o. Paso. Calcular el paralaje por altura (PA) según el paralaje horizontal (PH) y la altura aparente (H) del: Sol, Luna, Venus y Marte, como sigue.

$$(PA) = (PH) \cos H$$

El paralaje horizontal para el Sol (PH) = 0.0024° . Esta corrección es muy pequeña y puede ser ignorada.

El paralaje horizontal para la Luna (PH), se toma para la hora más cercana, según las tablas de las páginas diarias (nones), y convertir a grados.

Para Venus y Marte el Paralaje horizontal (PH), se usa conforme a la tabla cónica, al pie de la página 263 y convertida a grados.

Para las estrellas de uso en navegación y los planetas restantes, Júpiter y Saturno establecer: (PA) = 0.

Supuesto que un error de $0.2'$ es importante, la expresión para el paralaje por altura, para la Luna debe de incluir una corrección pequeña (OB) por la curvatura de la Tierra como sigue:

$$(PA) = (PH) \cos H + (OB)$$

en donde (OB) = $-0.0032^{\circ} \sin^2 Lat \cos H + 0.0032^{\circ} \sin(2 Lat) \cos Z \sin H$

En latitudes medias y para alturas de la Luna por debajo de los 60° , una simple aproximación para (OB) es:

$$(OB) = -0.0017^{\circ} \cos H$$

5o. Paso. Calcular el semi-diámetro para el Sol y la Luna como sigue.

Sol: S se toma del pie de las páginas diarias (nones) y convertir a grados.

Luna: $S = 0.2724^{\circ} (PH)$ en donde (PH), es tomado para la hora más cercana de la tabla en las páginas diarias (nones) y convertir a grados.

6o. Paso. Calcular la altura observada.

$$H_o = H - R + (PA) \pm S$$

en donde el signo positivo es usado en caso que fuese observado el Sol o la Luna con el limbo inferior y el signo negativo si se observa con el limbo superior.

9. Ejemplo. El siguiente ilustra como usar una calculadora para reducir la altura del sextante (H_s) a la altura observada (H_o); las alturas con sextante dadas, se asume que fueron tomadas para utilizarse el 28 de Junio de 1993, con un sextante marino; el índice de error cero a la altura de 5.4 m. temperatura de $-3^{\circ}C$ y presión de 982 mb., las visuales a la Luna fueron tomadas a las 10^h T.U.

| Astro Limbo | Sol inferior | Sol superior | Luna inferior | Luna superior | Venus — | Polaris — |
|--|-----------------|-----------------|------------------|------------------|-----------------|--------------|
| Altura del sextante: H_S | 21.3283 | 3.3367 | 33.4600 | 26.1117 | 4.5433 | 49.6083 |
| 1o. Paso. Depresión: $D = 0.0293\sqrt{h}$ | 0.0681 | 0.0681 | 0.0681 | 0.0681 | 0.0681 | 0.0681 |
| 2o. Paso. Altura aparente: $H = H_S + I - D$ | 21.2602 | 3.2686 | 33.3919 | 26.0436 | 4.4752 | 49.5402 |
| 3o. Paso. Refracción: R_0 | 0.0423 | 0.2262 | 0.0251 | 0.0338 | 0.1801 | 0.0142 |
| f | 1.0184 | 1.0184 | 1.0184 | 1.0184 | 1.0184 | 1.0184 |
| $R = fR_0$ | 0.0431 | 0.2304 | 0.0256 | 0.0344 | 0.1834 | 0.0144 |
| 4o. Paso. Paralaje: (PH) | 0.0024 | 0.0024 | (59'1) 0.9850 | (59'1) 0.9850 | (0'2) 0.0033 | — |
| Paralaje por altura: (PA) = (PH) · cos H | 0.0022 | 0.0024 | 0.8224 | 0.8850 | 0.0033 | — |
| 5o. Paso. Semi-diámetro Sol: $S = 15.8/60$ Luna: $S = 0.2724$ (PH) | 0.2633 | 0.2633 | — 0.2683 | — 0.2683 | — | — |
| 6o. Paso. Altura observada: $H_0 = H - R + PA \pm S$ | 21.4827 | 2.7773 | 34.4570 | 26.6258 | 4.2952 | 49.5258 |

Notése que para la Luna la corrección por curvatura de la tierra de aproximadamente $-0.0017^\circ \cos H$, lo cual es equivalente a -0.0014° para el limbo inferior y -0.0015° para el limbo superior, han sido ignoradas en los cálculos anteriores.

10.- Posición por intersección y azimut usando una carta. Se hace una estimación de la posición a la hora asumida para la fija. La posición, a la hora de observación; es por ésta razón, calculada por estima, conforme la hora de la fija. Por ejemplo si el rumbo (derrota) T y la velocidad V (en nudos) del observador son constantes entonces la Longitud y la Latitud para la hora de observación son calculados por:

$$\begin{aligned} \text{Long} &= L_F + t(V/60) \text{ sen } T / \cos B_F \\ \text{Lat} &= B_F + t(V/60) \cos T \end{aligned}$$

En donde L_F y B_F son la longitud y latitud estimadas para la hora de la fija y t es el intervalo de tiempo en horas, conforme la hora de la fija, para la hora de observación; t es positivo, si la hora de observación es posterior a la hora de la fija y negativo si es anterior.

El trazo de la posición de una observación es delineada sobre una carta usando la intersección:

$$p = H_0 - H_c$$

y el azimut Z , con origen en la posición calculada (Long, Lat) a la hora de observación, en donde H_c y Z son calculadas usando el método de la Sección 6, página 285. Esta posición calculada que inicia conforme una línea es trazada sobre la carta a lo largo de la dirección del azimut para la nave. Convertir "p" a millas náuticas, con multiplicador de 60. La posición línea por línea, es trazada en ángulos rectos sobre el trazo del azimut; la diferencia "p" a causa de (Long, Lat); alrededor de la nave si "p" es positiva y la diferencia "p" lejos de la nave si "p" es negativa. Siempre que no hay crasos errores el navegante debe estar en algún lugar sobre o cerca del trazo de posición a la hora de observación. Dos o más trazos de posición son necesarios para determinar una fija.

11.- Posición por intersección y azimut usando una calculadora. La posición de la fija puede ser calculada conforme dos o más observaciones con sextante, del modo siguiente:

Si P_1, Z_1 , son la intersección y el azimut de la primera observación; P_2, Z_2 , de la segunda observación y así sucesivamente, conforme las sumas:

$$\begin{aligned} A &= \cos^2 Z_1 + \cos^2 Z_2 + \dots \\ B &= \cos Z_1 \text{ sen } Z_1 + \cos Z_2 \text{ sen } Z_2 + \dots \\ C &= \text{sen}^2 Z_1 + \text{sen}^2 Z_2 + \dots \\ D &= P_1 \cos Z_1 + P_2 \cos Z_2 + \dots \\ E &= P_1 \text{ sen } Z_1 + P_2 \text{ sen } Z_2 + \dots \end{aligned}$$

en donde el número de términos de cada suma es igual al número de observaciones.

Con $G = AC - B^2$, una estimación corregida de la posición, a la hora de la fija (L_I, B_I) está dada por:

$$L_I = L_F + (AE - BD) / (G \cos B_F), \quad B_I = B_F + (CD - BE) / G$$

Calcular la distancia d entre la posición inicial estimada (L_F, B_F) a la hora de fijar y la posición estimada corregida (L_I, B_I) en millas náuticas según:

$$d = 60 \sqrt{((L_I - L_F)^2 \cos^2 B_F + (B_I - B_F)^2)}$$

Si d supera alrededor de 20 millas náuticas, establecer $L_F = L_I, B_F = B_I$ y repetir el cálculo hasta que "d", la distancia entre la posición a la estimación anterior y la estimación corregida sea menor que alrededor de 20 millas náuticas.

12.- Ejemplos de cálculo directo. Usando el método arriba descrito calcular la posición de una embarcación el 19 de Junio de 1993 a las 21^h 00^m 00^s T.U. conforme a las observaciones obtenidas con sextante marino de las tres estrellas: Regulus (No.26) a las 20^h 39^m 23^s T.U.; Antares (No.42) a las 20^h 55^m 47^s T.U. y Kochab (No.40) a las 21^h 10^m 34^s T.U., en donde las alturas observadas de las tres estrellas, corregidas por los efectos de refracción, depresión y error instrumental son: 39°.2581 ; 20°.4554 y 47°.0345 respectivamente. La embarcación viajaba a una velocidad constante de 20 nudos sobre un rumbo (curso o derrota) de 325°; durante el período de observación, y la posición de la embarcación a la hora de fijar (de la fija 21^h 00^m 00^s T.U.), es sólo conocida al grado entero más próximo, 15° W.G. y 32° N.

Los valores para la primera iteración se muestran en la tabla. El AHG de Aries es interpolado según los valores tabulares más próximos en la página No. 132. Para la primera iteración asignar: $L_f = -15.0000^\circ, B_f = +32.0000^\circ$ a la hora de la fija, a las 21^h 00^m 00^s TU.

Primera iteración

| Astro | Regulus | Antares | Kochab |
|-------------------------|---|---|---|
| No. | 26 | 42 | 40 |
| hora de observación | 20 ^h 39 ^m 23 ^s | 20 ^h 45 ^m 47 ^s | 21 ^h 10 ^m 34 ^s |
| H_o | 39.2581 | 20.4554 | 47.0345 |
| factor de interpolación | 0.6564 | 0.9297 | 0.1761 |
| AHG de Aries | 217.9254 | 222.0363 | 225.7423 |
| AHS (página 132) | 207.9917 | 112.7367 | 137.3083 |
| AHG | 65.9171 | 334.7730 | 3.0507 |
| Dec (página 132) | +11.9983 | -26.4183 | +74.1850 |
| t | -0.3436 | -0.0703 | +0.1761 |
| Long | -14.9225 | -14.9842 | -15.0397 |
| Lat | +31.9062 | +31.9808 | +32.0481 |
| Z | 258.9157 | 141.9841 | 4.8008 |
| H_c | 39.2350 | 20.1496 | 47.4346 |
| P | +0.0231 | +0.3058 | -0.4001 |

$$A = 1.6506 \quad B = -0.2132 \quad C = 1.3494 \quad D = -0.6441 \quad E = 0.1322 \quad G = 2.1819$$

$$(AE - BD) / (G \cos B_F) = +0.0437, \quad (CD - BE) / G = -0.3854$$

Una estimación rectificada de la posición a la hora de la fija es:

$$L_I = L_F + 0.0437 = -14.9563 \quad \text{y} \quad B_I = B_F - 0.3854 = +31.6146$$

Puesto que la distancia entre la posición estimada previa y la estimación rectificada: $d = 23.2$ millas náuticas, asignar $L_f = -14.9563$ y $B_f = +31.6146$ repetir el cálculo. La tabla muestra los valores intermedios del cálculo para la segunda iteración. En cada iteración las cantidades: H_o , AHG, Dec y t no cambian.

Segunda iteración

| Astro | Regulus | Antares | Kochab |
|-------|----------|----------|----------|
| No. | 26 | 42 | 40 |
| Long | -14.8791 | -14.9405 | -14.9958 |
| Lat | +31.5208 | +31.5954 | +31.6627 |
| Z | 259.2534 | 141.9300 | 4.7491 |
| H_c | 39.2717 | 20.4759 | 47.0536 |
| P | -0.0136 | -0.0206 | -0.0191 |

$$A = 1.6477 \quad B = -0.2197 \quad C = 1.3523 \quad D = -0.0003 \quad E = -0.0009 \quad G = 2.1799$$

$$(AE - BD)/(G \cos B_F) = -0.0008, \quad (CD - BE)/G = -0.0003$$

Una estimación rectificada de la posición a la hora de la fija es:

$$L_i = L_F - 0.0008 = -14.9571 \quad \text{y} \quad B_I = B_F - 0.0003 = +31.6143$$

La distancia, entre la posición estimada previa y la estimación de la posición rectificada es $d = 0.05$ millas náuticas, es tan pequeña, de manera que, una tercera iteración, produciría un perfeccionamiento omisible, para la estimación de la posición.

USO DE LAS TABLAS ABREVIADAS DE REDUCCION DE VISUALES

1. *Introducción.* Las tablas abreviadas de reducción de visuales dadas en las páginas 295 a 326 son intencionales para utilizarse cuando no están disponibles ni tablas más extensas o ningún instrumento electrónico de cálculo. Estas, "tablas de reducción de visuales, editadas por la "NAO" proporcionan para la reducción del ángulo horario local y la declinación de un objeto celeste, por azimut y altura, referidas a una posición asumida sobre la superficie de la tierra; para uso en el método de intersecciones de navegación celeste, él cual es ahora una práctica normal.

2. *Conformación de las tablas.* En la tabla de reducción, están registradas todas las latitudes y ángulos horarios; sobre un intervalo determinado para un grado. Resultados en disposición concisa a causa de distribución del triángulo de navegación en dos triángulos esféricos rectos, de modo que debe entrarse dos veces a la tabla. Los argumentos para la primera entrada son supuesta la latitud y el ángulo horario. La tabla de reducción responde con los argumentos intermedios A , B y Z_1 en donde, A es usado como uno de los argumentos para la segunda entrada a la tabla, B debe ser incrementado con la declinación para producir la cantidad F , y Z_1 es un componente del ángulo azimutal. En consecuencia se vuelve a entrar a la tabla de reducción con A y F ; y producir H , P y Z_2 en donde H es la altura; " P " es el complemento del ángulo paraláctico, y Z_2 es el segundo componente del ángulo azimutal. Es usualmente necesario el ajustar la altura tabular por las partes fraccionarias de los argumentos intermedios de entrada para deducir la altura calculada, y una tabla auxiliar está dispuesta para la resolución. Las reglas que rigen los signos, de las cantidades; las cuales deben de adicionarse o restarse, están indicadas en las instrucciones y resumidas encima de cada página tabulada. El ángulo azimutal es la suma de dos componentes y se convierte a azimut verdadero por medio de las reglas conocidas, reiteradas al calce de las página tabulada.

La altura tabular y cantidades intermedias están indicadas al minuto de arco más próximo, aunque errores de 2' en la altura calculada puede acumularse durante el ajuste por los fragmentos de minutos de los argumentos de entrada.

Los componentes del ángulo azimutal están expresados al décimo de 0.1°; para deducir el azimut verdadero, solamente se garantiza a grados enteros. Puesto que, astros cercanos al Zenit son difíciles de observar con un sextante marino, respecto a ellos deben ser evitados; alturas mayores alrededor de 80° no son convenientes para reducción por éste método.

En la mayoría de las circunstancias la exactitud proporcionada por estas tablas es suficiente. No obstante, para mantener la totalidad de precisión (0.1') de los datos efeméricos del almanaque durante toda sus reducciones para la altura y azimut, tablas más extensivas o una calculadora deberán de ser usadas.

3. *Uso de las tablas.*

10. *Paso.* Determinar el ángulo horario de Greenwich (AHG) y la declinación (Dec) del astro conforme el almanaque. Seleccione una latitud supuesta (Lat) de grados enteros la más próxima a la latitud estimada. Escoger una longitud supuesta cercana a la longitud estimada tal que, el ángulo horario local:

$$AHL = AHG \begin{array}{l} - \text{longitud al oeste.} \\ + \text{longitud al este.} \end{array}$$

efectuar en grados enteros.

20. *Paso.* Entrar a la tabla de reducción con Lat y AHL como argumentos. Anotar las cantidades A , B y Z_1 . Aplicar las reglas de los signos de B y Z_1 : B es negativa si $90^\circ < AHL < 270^\circ$; Z_1 tendrá el mismo signo, al igual que B . Asignar, $A^\circ =$ al grado entero más próximo de A y $A' =$ la parte de los minutos de A . Este paso puede ser repetido para todas las reducciones antes de dejar la latitud de apertura de la tabla.
30. *Paso.* Anotar la declinación Dec . Aplicar la regla para el signo de Dec : Dec es negativa, si la especificación de Dec (por ejem. N o S) es contraria a la latitud. Sumar B y la Dec algebraicamente para obtener F . Si F es negativa, el astro está por debajo del horizonte (en la reducción de visuales, esto puede ocurrir cuando los astros están cerca del horizonte). Considerar F como positivo hasta el paso, 7. Asignar $F^\circ =$ al grado entero más próximo de F y $F' =$ la parte de los minutos de F .
40. *Paso.* Entrar a la tabla de reducción una segunda vez con A° y F° como argumentos y anotar H , P , y Z_2 . Asignar $P^\circ =$ al grado entero más próximo a P y $Z_2^\circ =$ al grado entero inmediato a Z_2 .
50. *Paso.* Entrar a la tabla auxiliar con F' y P° como argumentos para obtener la "corr₁" de H y para F' . Aplicar la regla el signo de $corr_1$: $corr_1$ es negativa si $F < 90^\circ$ y $F' > 29'$ o si $F > 90^\circ$ y $F' < 30'$, de lo contrario $corr_1$ es positiva.
60. *Paso.* Entrar a la tabla auxiliar con A' y Z_2° como argumentos para obtener la $corr_2$ de H y para A' . Aplicar la regla el signo de $corr_2$: $corr_2$ es negativa si $A' < 30'$, de lo contrario $corr_2$ es positiva.
70. *Paso.* Computar la altura calculada H_C como la suma de H , $corr_1$ y $corr_2$. Aplicar la regla para el signo de H_C : H_C es negativa si F negativa.

8o. Paso. Aplicar la regla de los signos de Z_2 : Z_2 es negativa si $F > 90^\circ$ si F es negativa, substituir Z_2 por $180^\circ - Z_2$. Asignar el ángulo azimutal Z , igual a la suma algebraica de Z_1 y Z_2 é ignore el signo resultante. Obtener el azimut verdadero Z_n conforme las reglas:

$$\begin{aligned} \text{Para la latitud N., si } AHL > 180^\circ \quad Z_n &= Z \\ &\text{si } AHL < 180^\circ \quad Z_n = 360^\circ - Z \\ \text{Para la latitud S., si } AHL > 180^\circ \quad Z_n &= 180^\circ - Z \\ &\text{si } AHL < 180^\circ \quad Z_n = 180^\circ + Z \end{aligned}$$

La altura observada H_o es comparada con H_c para obtener la diferencia de altura, la que, con Z_n son utilizados para trazar la posición de la trayectoria.

4. Ejemplo. (a) Obtener la altura y el azimut de Shedar para el 5 de febrero de 1993, a las 6^h 26^m de T.U. de la posición estimada 5° este y 53° norte.

1. Latitud supuesta $Lat = 53^\circ N$
 conforme al almanaque $AHG = 221^\circ 54'$
 Longitud supuesta $Long = 5^\circ 06' E.G.$
 Angulo horario local $AHL = 227^\circ$
2. Primera entrada, a la tabla de reducción.
 $(Lat, AHL) = (53^\circ, 227)$ $A = 26 \ 07$ $A^\circ = 26, A' = 7$
 $B = -27 \ 12$ $Z_1 = -49.4$ $90^\circ < AHL < 270^\circ$
3. Conforme al almanaque $Dec = +56 \ 30$ Lat y Dec semejantes
 Suma = $B + Dec$ $F = +29 \ 18$ $F^\circ = 29, F' = 18$
4. Segunda entrada, a la tabla de reducción.
 $(A^\circ, F^\circ) = (26, 29)$ $H = 25 \ 50$ $P^\circ = 61$
 $Z_2 = 76.3$
5. Primera entrada, a la tabla auxiliar.
 $(F', P^\circ) = (18, 61)$ $corr_1 = + \ 16$ $F < 90^\circ, F' < 29'$
 suma $26 \ 06$
6. Segunda entrada, a la tabla auxiliar.
 $(A', Z_2^\circ) = (7.76)$ $corr_2 = - \ 2$ $A' < 30'$
7. Suma = altura calculada $H_c = + 26^\circ \ 04'$ $F > 0^\circ$
8. Azimut: primer componente $Z_1 = - 49.4$ mismo signo al igual que B
 segundo componente $Z_2 = + 76.3$ $F < 90^\circ, F > 0^\circ$
 Suma = ángulo azimutal $Z = 26.9$
 Azimut verdadero $Z_n = 27^\circ$ $Latitud N. AHL > 180^\circ$

**TABLAS ABREVIADAS PARA REDUCCION
DE
VISUALES**

B: (—) para $90^\circ < \text{AHL} < 270^\circ$

Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

 Z_1 : mismo signo que B Z_2 : (—) para $F > 90^\circ$

| Lat. / A | 0° | | | 1° | | | 2° | | | 3° | | | 4° | | | 5° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F: | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 90 00 | 90 00 | 0 00 | 89 00 | 90 00 | 0 00 | 88 00 | 90 00 | 0 00 | 87 00 | 90 00 | 0 00 | 86 00 | 90 00 | 0 00 | 85 00 | 90 00 | 180 360 |
| 1 179 | 1 00 | 90 00 | 90 00 | 1 00 | 89 00 | 90 00 | 1 00 | 88 00 | 90 00 | 1 00 | 87 00 | 89 9 | 1 00 | 86 00 | 89 9 | 1 00 | 85 00 | 89 9 | 181 359 |
| 2 178 | 2 00 | 90 00 | 90 00 | 2 00 | 89 00 | 90 00 | 2 00 | 88 00 | 89 9 | 2 00 | 87 00 | 89 9 | 2 00 | 86 00 | 89 9 | 2 00 | 85 00 | 89 8 | 182 358 |
| 3 177 | 3 00 | 90 00 | 90 00 | 3 00 | 89 00 | 89 9 | 3 00 | 88 00 | 89 9 | 3 00 | 87 00 | 89 8 | 3 00 | 86 00 | 89 8 | 3 00 | 85 00 | 89 7 | 183 357 |
| 4 176 | 4 00 | 90 00 | 90 00 | 4 00 | 89 00 | 89 9 | 4 00 | 88 00 | 89 9 | 4 00 | 87 00 | 89 8 | 4 00 | 85 59 | 89 7 | 4 00 | 84 59 | 89 7 | 184 356 |
| 5 175 | 5 00 | 90 00 | 90 00 | 5 00 | 89 00 | 89 9 | 5 00 | 88 00 | 89 8 | 5 00 | 86 59 | 89 7 | 4 59 | 85 59 | 89 7 | 4 59 | 84 59 | 89 6 | 185 355 |
| 6 174 | 6 00 | 90 00 | 90 00 | 6 00 | 89 00 | 89 9 | 6 00 | 87 59 | 89 8 | 6 00 | 86 59 | 89 7 | 5 59 | 85 59 | 89 6 | 5 59 | 84 58 | 89 5 | 186 354 |
| 7 173 | 7 00 | 90 00 | 90 00 | 7 00 | 89 00 | 89 9 | 7 00 | 87 59 | 89 8 | 6 59 | 86 59 | 89 6 | 6 59 | 85 58 | 89 5 | 6 58 | 84 58 | 89 4 | 187 353 |
| 8 172 | 8 00 | 90 00 | 90 00 | 8 00 | 88 59 | 89 9 | 8 00 | 87 59 | 89 7 | 7 59 | 86 58 | 89 6 | 7 59 | 85 58 | 89 4 | 7 58 | 84 57 | 89 3 | 188 352 |
| 9 171 | 9 00 | 90 00 | 90 00 | 9 00 | 88 59 | 89 8 | 9 00 | 87 59 | 89 7 | 8 59 | 86 58 | 89 5 | 8 59 | 85 57 | 89 4 | 8 58 | 84 56 | 89 2 | 189 351 |
| 10 170 | 10 00 | 90 00 | 90 00 | 10 00 | 88 59 | 89 8 | 10 00 | 87 58 | 89 6 | 9 59 | 86 57 | 89 5 | 9 59 | 85 56 | 89 3 | 9 58 | 84 55 | 89 1 | 190 350 |
| 11 169 | 11 00 | 90 00 | 90 00 | 11 00 | 88 59 | 89 8 | 11 00 | 87 58 | 89 6 | 10 59 | 86 57 | 89 4 | 10 58 | 85 56 | 89 2 | 10 57 | 84 54 | 89 0 | 191 349 |
| 12 168 | 12 00 | 90 00 | 90 00 | 12 00 | 88 59 | 89 8 | 12 00 | 87 57 | 89 6 | 11 59 | 86 56 | 89 4 | 11 58 | 85 55 | 89 2 | 11 57 | 84 53 | 88 9 | 192 348 |
| 13 167 | 13 00 | 90 00 | 90 00 | 13 00 | 88 58 | 89 8 | 13 00 | 87 57 | 89 5 | 12 59 | 86 55 | 89 3 | 12 58 | 85 54 | 89 1 | 12 57 | 84 52 | 88 8 | 193 347 |
| 14 166 | 14 00 | 90 00 | 90 00 | 14 00 | 88 58 | 89 8 | 13 59 | 87 56 | 89 5 | 13 59 | 86 54 | 89 3 | 13 58 | 85 53 | 89 0 | 13 57 | 84 51 | 88 8 | 194 346 |
| 15 165 | 15 00 | 90 00 | 90 00 | 15 00 | 88 58 | 89 7 | 14 59 | 87 56 | 89 5 | 14 59 | 86 54 | 89 2 | 14 58 | 85 52 | 88 9 | 14 56 | 84 49 | 88 7 | 195 345 |
| 16 164 | 16 00 | 90 00 | 90 00 | 16 00 | 88 58 | 89 7 | 15 59 | 87 55 | 89 4 | 15 59 | 86 53 | 89 1 | 15 58 | 85 50 | 88 9 | 15 56 | 84 48 | 88 6 | 196 344 |
| 17 163 | 17 00 | 90 00 | 90 00 | 17 00 | 88 57 | 89 7 | 16 59 | 87 55 | 89 4 | 16 59 | 86 52 | 89 1 | 16 57 | 85 49 | 88 8 | 16 56 | 84 46 | 88 5 | 197 343 |
| 18 162 | 18 00 | 90 00 | 90 00 | 18 00 | 88 57 | 89 7 | 17 59 | 87 54 | 89 4 | 17 58 | 86 51 | 89 0 | 17 57 | 85 48 | 88 7 | 17 56 | 84 45 | 88 4 | 198 342 |
| 19 161 | 19 00 | 90 00 | 90 00 | 19 00 | 88 57 | 89 7 | 18 59 | 87 53 | 89 3 | 18 58 | 86 50 | 89 0 | 18 57 | 85 46 | 88 6 | 18 55 | 84 43 | 88 3 | 199 341 |
| 20 160 | 20 00 | 90 00 | 90 00 | 20 00 | 88 56 | 89 6 | 19 59 | 87 52 | 89 3 | 19 58 | 86 48 | 88 9 | 19 57 | 85 45 | 88 5 | 19 55 | 84 41 | 88 2 | 200 340 |
| 21 159 | 21 00 | 90 00 | 90 00 | 21 00 | 88 56 | 89 6 | 20 59 | 87 51 | 89 2 | 20 58 | 86 47 | 88 8 | 20 57 | 85 43 | 88 5 | 20 55 | 84 39 | 88 1 | 201 339 |
| 22 158 | 22 00 | 90 00 | 90 00 | 22 00 | 88 55 | 89 6 | 21 59 | 87 51 | 89 2 | 21 58 | 86 46 | 88 8 | 21 57 | 85 41 | 88 4 | 21 55 | 84 37 | 88 0 | 202 338 |
| 23 157 | 23 00 | 90 00 | 90 00 | 23 00 | 88 55 | 89 6 | 22 59 | 87 50 | 89 2 | 22 58 | 86 44 | 88 7 | 22 56 | 85 39 | 88 3 | 22 54 | 84 34 | 87 9 | 203 337 |
| 24 156 | 24 00 | 90 00 | 90 00 | 24 00 | 88 54 | 89 6 | 23 59 | 87 49 | 89 1 | 23 58 | 86 43 | 88 7 | 23 56 | 85 37 | 88 2 | 23 54 | 84 32 | 87 8 | 204 336 |
| 25 155 | 25 00 | 90 00 | 90 00 | 25 00 | 88 54 | 89 5 | 24 59 | 87 48 | 89 1 | 24 58 | 86 41 | 88 6 | 24 56 | 85 35 | 88 1 | 24 54 | 84 29 | 87 7 | 205 335 |
| 26 154 | 26 00 | 90 00 | 90 00 | 26 00 | 88 53 | 89 5 | 25 59 | 87 46 | 89 0 | 25 58 | 86 40 | 88 5 | 25 56 | 85 33 | 88 1 | 25 54 | 84 26 | 87 6 | 206 334 |
| 27 153 | 27 00 | 90 00 | 90 00 | 27 00 | 88 53 | 89 5 | 26 54 | 87 45 | 89 0 | 26 58 | 86 38 | 88 5 | 26 56 | 85 31 | 88 0 | 26 53 | 84 24 | 87 5 | 207 333 |
| 28 152 | 28 00 | 90 00 | 90 00 | 28 00 | 88 52 | 89 5 | 27 59 | 87 44 | 88 9 | 27 57 | 86 36 | 88 4 | 27 56 | 85 28 | 87 9 | 27 53 | 84 20 | 87 3 | 208 332 |
| 29 151 | 29 00 | 90 00 | 90 00 | 29 00 | 88 51 | 89 4 | 28 59 | 87 43 | 88 9 | 28 57 | 86 34 | 88 3 | 28 55 | 85 26 | 87 8 | 28 53 | 84 17 | 87 2 | 209 331 |
| 30 150 | 30 00 | 90 00 | 90 00 | 30 00 | 88 51 | 89 4 | 29 59 | 87 41 | 88 8 | 29 57 | 86 32 | 88 3 | 29 55 | 85 23 | 87 7 | 29 52 | 84 14 | 87 1 | 210 330 |
| 31 149 | 31 00 | 90 00 | 90 00 | 31 00 | 88 50 | 89 4 | 30 59 | 87 40 | 88 8 | 30 57 | 86 30 | 88 2 | 30 55 | 85 20 | 87 6 | 30 52 | 84 10 | 87 0 | 211 329 |
| 32 148 | 32 00 | 90 00 | 90 00 | 32 00 | 88 49 | 89 4 | 31 59 | 87 39 | 88 8 | 31 57 | 86 28 | 88 1 | 31 55 | 85 17 | 87 5 | 31 52 | 84 07 | 86 9 | 212 328 |
| 33 147 | 33 00 | 90 00 | 90 00 | 33 00 | 88 48 | 89 4 | 32 59 | 87 37 | 88 7 | 32 57 | 86 25 | 88 1 | 32 55 | 85 14 | 87 4 | 32 52 | 84 03 | 86 8 | 213 327 |
| 34 146 | 34 00 | 90 00 | 90 00 | 34 00 | 88 48 | 89 3 | 33 59 | 87 35 | 88 7 | 33 57 | 86 23 | 88 0 | 33 54 | 85 11 | 87 3 | 33 51 | 83 59 | 86 6 | 214 326 |
| 35 145 | 35 00 | 90 00 | 90 00 | 35 00 | 88 47 | 89 3 | 34 59 | 87 34 | 88 6 | 34 57 | 86 20 | 87 9 | 34 54 | 85 07 | 87 2 | 34 51 | 83 54 | 86 5 | 215 325 |
| 36 144 | 36 00 | 90 00 | 90 00 | 36 00 | 88 46 | 89 3 | 35 58 | 87 32 | 88 5 | 35 57 | 86 18 | 87 8 | 35 54 | 85 04 | 87 1 | 35 51 | 83 50 | 86 4 | 216 324 |
| 37 143 | 37 00 | 90 00 | 90 00 | 37 00 | 88 45 | 89 2 | 36 58 | 87 30 | 88 5 | 36 56 | 86 15 | 87 7 | 36 54 | 85 00 | 87 0 | 36 50 | 83 45 | 86 2 | 217 323 |
| 38 142 | 38 00 | 90 00 | 90 00 | 38 00 | 88 44 | 89 2 | 37 58 | 87 28 | 88 4 | 37 56 | 86 12 | 87 7 | 37 53 | 84 56 | 86 9 | 37 50 | 83 40 | 86 1 | 218 322 |
| 39 141 | 39 00 | 90 00 | 90 00 | 39 00 | 88 43 | 89 2 | 38 58 | 87 26 | 88 4 | 38 56 | 86 09 | 87 6 | 38 53 | 84 52 | 86 8 | 38 49 | 83 35 | 86 0 | 219 321 |
| 40 140 | 40 00 | 90 00 | 90 00 | 40 00 | 88 42 | 89 2 | 39 58 | 87 23 | 88 3 | 39 56 | 86 05 | 87 5 | 39 53 | 84 47 | 86 7 | 39 49 | 83 29 | 85 8 | 220 320 |
| 41 139 | 41 00 | 90 00 | 90 00 | 41 00 | 88 40 | 89 1 | 40 58 | 87 21 | 88 3 | 40 56 | 86 02 | 87 4 | 40 53 | 84 42 | 86 5 | 40 49 | 83 23 | 85 7 | 221 319 |
| 42 138 | 42 00 | 90 00 | 90 00 | 42 00 | 88 39 | 89 1 | 41 58 | 87 19 | 88 2 | 41 56 | 85 58 | 87 3 | 41 52 | 84 37 | 86 4 | 41 48 | 83 17 | 85 5 | 222 318 |
| 43 137 | 43 00 | 90 00 | 90 00 | 43 00 | 88 38 | 89 1 | 42 58 | 87 16 | 88 1 | 42 56 | 85 54 | 87 2 | 42 52 | 84 32 | 86 3 | 42 48 | 83 11 | 85 4 | 223 317 |
| 44 136 | 44 00 | 90 00 | 90 00 | 43 59 | 88 37 | 89 0 | 43 58 | 87 13 | 88 1 | 43 55 | 85 50 | 87 1 | 43 52 | 84 27 | 86 1 | 43 47 | 83 04 | 85 2 | 224 316 |
| 45 135 | 45 00 | 90 00 | 90 00 | 44 59 | 88 35 | 89 0 | 44 58 | 87 10 | 88 0 | 44 55 | 85 46 | 87 0 | 44 52 | 84 21 | 86 0 | 44 47 | 82 57 | 85 0 | 225 315 |

LATITUD / A: 0° - 5°

| Lat. / A | 0° | | | 1° | | | 2° | | | 3° | | | 4° | | | 5° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 45 00 | 90 00 | 90.0 | 44 59 | 88 35 | 89.0 | 44 58 | 87 10 | 88.0 | 44 55 | 85 46 | 87.0 | 44 52 | 84 21 | 86.0 | 44 47 | 82 57 | 85.0 | 225 315 |
| 46 134 | 46 00 | 90 00 | 90.0 | 45 59 | 88 34 | 89.0 | 45 58 | 87 07 | 87.9 | 45 55 | 85 41 | 86.9 | 45 51 | 84 15 | 85.9 | 45 46 | 82 49 | 84.8 | 226 314 |
| 47 133 | 47 00 | 90 00 | 90.0 | 46 59 | 88 32 | 88.9 | 46 58 | 87 04 | 87.9 | 46 55 | 85 36 | 86.8 | 46 51 | 84 09 | 85.7 | 46 46 | 82 41 | 84.7 | 227 313 |
| 48 132 | 48 00 | 90 00 | 90.0 | 47 59 | 88 30 | 88.9 | 47 58 | 87 01 | 87.8 | 47 55 | 85 31 | 86.7 | 47 51 | 84 02 | 85.6 | 47 46 | 82 33 | 84.5 | 228 312 |
| 49 131 | 49 00 | 90 00 | 90.0 | 48 59 | 88 29 | 88.8 | 48 58 | 86 57 | 87.7 | 48 55 | 85 26 | 86.6 | 48 50 | 83 55 | 85.4 | 48 45 | 82 24 | 84.3 | 229 311 |
| 50 130 | 50 00 | 90 00 | 90.0 | 49 59 | 88 27 | 88.8 | 49 58 | 86 53 | 87.6 | 49 54 | 85 20 | 86.4 | 49 50 | 83 47 | 85.2 | 49 44 | 82 15 | 84.1 | 230 310 |
| 51 129 | 51 00 | 90 00 | 90.0 | 50 59 | 88 25 | 88.8 | 50 57 | 86 49 | 87.5 | 50 54 | 85 14 | 86.3 | 50 50 | 83 40 | 85.1 | 50 44 | 82 05 | 83.9 | 231 309 |
| 52 128 | 52 00 | 90 00 | 90.0 | 51 59 | 88 23 | 88.7 | 51 57 | 86 45 | 87.4 | 51 54 | 85 08 | 86.2 | 51 49 | 83 31 | 84.9 | 51 43 | 81 55 | 83.6 | 232 308 |
| 53 127 | 53 00 | 90 00 | 90.0 | 52 59 | 88 20 | 88.7 | 52 57 | 86 41 | 87.3 | 52 54 | 85 01 | 86.0 | 52 49 | 83 22 | 84.7 | 52 43 | 81 44 | 83.4 | 233 307 |
| 54 126 | 54 00 | 90 00 | 90.0 | 53 59 | 88 18 | 88.6 | 53 57 | 86 36 | 87.2 | 53 54 | 84 54 | 85.9 | 53 49 | 83 13 | 84.5 | 53 42 | 81 32 | 83.2 | 234 306 |
| 55 125 | 55 00 | 90 00 | 90.0 | 54 59 | 88 15 | 88.6 | 54 57 | 86 31 | 87.1 | 54 53 | 84 47 | 85.7 | 54 48 | 83 03 | 84.3 | 54 41 | 81 20 | 82.9 | 235 305 |
| 56 124 | 56 00 | 90 00 | 90.0 | 55 59 | 88 13 | 88.5 | 55 57 | 86 26 | 87.0 | 55 53 | 84 39 | 85.6 | 55 48 | 82 52 | 84.1 | 55 41 | 81 06 | 82.6 | 236 304 |
| 57 123 | 57 00 | 90 00 | 90.0 | 56 59 | 88 10 | 88.5 | 56 57 | 86 20 | 86.9 | 56 53 | 84 30 | 85.4 | 56 47 | 82 41 | 83.9 | 56 40 | 80 52 | 82.4 | 237 303 |
| 58 122 | 58 00 | 90 00 | 90.0 | 57 59 | 88 07 | 88.4 | 57 57 | 86 14 | 86.8 | 57 52 | 84 21 | 85.2 | 57 47 | 82 29 | 83.6 | 57 39 | 80 38 | 82.1 | 238 302 |
| 59 121 | 59 00 | 90 00 | 90.0 | 58 59 | 88 04 | 88.3 | 58 57 | 86 07 | 86.7 | 58 52 | 84 11 | 85.0 | 58 46 | 82 16 | 83.4 | 58 38 | 80 22 | 81.7 | 239 301 |
| 60 120 | 60 00 | 90 00 | 90.0 | 59 59 | 88 00 | 88.3 | 59 56 | 86 00 | 86.5 | 59 52 | 84 01 | 84.8 | 59 46 | 82 02 | 83.1 | 59 37 | 80 04 | 81.4 | 240 300 |
| 61 119 | 61 00 | 90 00 | 90.0 | 60 59 | 87 56 | 88.2 | 60 56 | 85 53 | 86.4 | 60 52 | 83 50 | 84.6 | 60 45 | 81 48 | 82.8 | 60 37 | 79 46 | 81.1 | 241 299 |
| 62 118 | 62 00 | 90 00 | 90.0 | 61 59 | 87 52 | 88.1 | 61 56 | 85 45 | 86.2 | 61 51 | 83 38 | 84.4 | 61 44 | 81 32 | 82.5 | 61 36 | 79 27 | 80.7 | 242 298 |
| 63 117 | 63 00 | 90 00 | 90.0 | 62 59 | 87 48 | 88.0 | 62 56 | 85 36 | 86.1 | 62 51 | 83 25 | 84.1 | 62 44 | 81 15 | 82.2 | 62 35 | 79 06 | 80.3 | 243 297 |
| 64 116 | 64 00 | 90 00 | 90.0 | 63 59 | 87 43 | 88.0 | 63 56 | 85 27 | 85.9 | 63 50 | 83 11 | 83.9 | 63 43 | 80 56 | 81.9 | 63 33 | 78 43 | 79.9 | 244 296 |
| 65 115 | 65 00 | 90 00 | 90.0 | 64 59 | 87 38 | 87.9 | 64 56 | 85 17 | 85.7 | 64 50 | 82 56 | 83.6 | 64 42 | 80 36 | 81.5 | 64 32 | 78 18 | 79.4 | 245 295 |
| 66 114 | 66 00 | 90 00 | 90.0 | 65 59 | 87 33 | 87.8 | 65 55 | 85 06 | 85.5 | 65 49 | 82 39 | 83.3 | 65 41 | 80 15 | 81.1 | 65 31 | 77 52 | 78.9 | 246 294 |
| 67 113 | 67 00 | 90 00 | 90.0 | 66 59 | 87 26 | 87.6 | 66 55 | 84 54 | 85.3 | 66 49 | 82 22 | 83.0 | 66 40 | 79 51 | 80.7 | 66 29 | 77 23 | 78.4 | 247 293 |
| 68 112 | 68 00 | 90 00 | 90.0 | 67 59 | 87 20 | 87.5 | 67 55 | 84 40 | 85.1 | 67 48 | 82 02 | 82.6 | 67 39 | 79 26 | 80.2 | 67 28 | 76 51 | 77.8 | 248 292 |
| 69 111 | 69 00 | 90 00 | 90.0 | 68 59 | 87 13 | 87.4 | 68 55 | 84 26 | 84.8 | 68 48 | 81 41 | 82.2 | 68 38 | 78 57 | 79.7 | 68 26 | 76 17 | 77.2 | 249 291 |
| 70 110 | 70 00 | 90 00 | 90.0 | 69 59 | 87 05 | 87.3 | 69 54 | 84 10 | 84.5 | 69 47 | 81 17 | 81.8 | 69 37 | 78 27 | 79.2 | 69 25 | 75 39 | 76.5 | 250 290 |
| 71 109 | 71 00 | 90 00 | 90.0 | 70 58 | 86 56 | 87.1 | 70 54 | 83 53 | 84.2 | 70 46 | 80 51 | 81.4 | 70 36 | 77 53 | 78.5 | 70 23 | 74 57 | 75.8 | 251 289 |
| 72 108 | 72 00 | 90 00 | 90.0 | 71 58 | 86 46 | 86.9 | 71 54 | 83 33 | 83.9 | 71 46 | 80 22 | 80.8 | 71 35 | 77 15 | 77.9 | 71 20 | 74 12 | 75.0 | 252 288 |
| 73 107 | 73 00 | 90 00 | 90.0 | 72 58 | 86 35 | 86.7 | 72 53 | 83 11 | 83.5 | 72 45 | 79 50 | 80.3 | 72 33 | 76 33 | 77.1 | 72 18 | 73 20 | 74.1 | 253 287 |
| 74 106 | 74 00 | 90 00 | 90.0 | 73 58 | 86 22 | 86.5 | 73 53 | 82 47 | 83.1 | 73 44 | 79 14 | 79.7 | 73 31 | 75 46 | 76.3 | 73 15 | 72 23 | 73.1 | 254 286 |
| 75 105 | 75 00 | 90 00 | 90.0 | 74 58 | 86 08 | 86.3 | 74 52 | 82 19 | 82.6 | 74 43 | 78 33 | 78.9 | 74 29 | 74 53 | 75.4 | 74 12 | 71 19 | 72.0 | 255 285 |
| 76 104 | 76 00 | 90 00 | 90.0 | 75 58 | 85 52 | 86.0 | 75 52 | 81 47 | 82.0 | 75 41 | 77 47 | 78.1 | 75 27 | 73 53 | 74.4 | 75 09 | 70 07 | 70.7 | 256 284 |
| 77 103 | 77 00 | 90 00 | 90.0 | 76 58 | 85 34 | 85.7 | 76 51 | 81 11 | 81.4 | 76 40 | 76 53 | 77.2 | 76 25 | 72 44 | 73.2 | 76 05 | 68 45 | 69.3 | 257 283 |
| 78 102 | 78 00 | 90 00 | 90.0 | 77 58 | 85 12 | 85.3 | 77 50 | 80 28 | 80.7 | 77 38 | 75 51 | 76.2 | 77 22 | 71 25 | 71.8 | 77 01 | 67 11 | 67.7 | 258 282 |
| 79 101 | 79 00 | 90 00 | 90.0 | 78 57 | 84 46 | 84.9 | 78 49 | 79 38 | 79.8 | 78 36 | 74 38 | 74.9 | 78 18 | 69 52 | 70.3 | 77 56 | 65 22 | 65.8 | 259 281 |
| 80 100 | 80 00 | 90 00 | 90.0 | 79 57 | 84 16 | 84.3 | 79 48 | 78 38 | 78.8 | 79 34 | 73 12 | 73.5 | 79 14 | 68 04 | 68.4 | 78 50 | 63 16 | 63.7 | 260 280 |
| 81 99 | 81 00 | 90 00 | 90.0 | 80 57 | 83 38 | 83.7 | 80 47 | 77 25 | 77.6 | 80 31 | 71 29 | 71.7 | 80 09 | 65 55 | 66.2 | 79 43 | 60 47 | 61.2 | 261 279 |
| 82 98 | 82 00 | 90 00 | 90.0 | 81 56 | 82 51 | 82.9 | 81 45 | 75 55 | 76.1 | 81 28 | 69 22 | 69.6 | 81 04 | 63 19 | 63.6 | 80 34 | 57 51 | 58.2 | 262 278 |
| 83 97 | 83 00 | 90 00 | 90.0 | 82 56 | 81 51 | 81.9 | 82 43 | 74 01 | 74.1 | 82 23 | 66 44 | 66.9 | 81 57 | 60 09 | 60.4 | 81 24 | 54 20 | 54.6 | 263 277 |
| 84 96 | 84 00 | 90 00 | 90.0 | 83 55 | 80 31 | 80.6 | 83 41 | 71 32 | 71.6 | 83 18 | 63 22 | 63.5 | 82 48 | 56 13 | 56.4 | 82 12 | 50 04 | 50.3 | 264 276 |
| 85 95 | 85 00 | 90 00 | 90.0 | 84 54 | 78 40 | 78.7 | 84 37 | 68 10 | 68.3 | 84 10 | 58 59 | 59.1 | 83 36 | 51 16 | 51.4 | 82 56 | 44 53 | 45.1 | 265 275 |
| 86 94 | 86 00 | 90 00 | 90.0 | 85 53 | 75 57 | 76.0 | 85 32 | 63 24 | 63.5 | 85 00 | 53 05 | 53.2 | 84 21 | 44 56 | 45.1 | 83 36 | 38 34 | 38.7 | 266 274 |
| 87 93 | 87 00 | 90 00 | 90.0 | 86 50 | 71 33 | 71.6 | 86 24 | 56 17 | 56.3 | 85 45 | 44 58 | 45.0 | 85 00 | 36 49 | 36.9 | 84 10 | 30 53 | 31.0 | 267 273 |
| 88 92 | 88 00 | 90 00 | 90.0 | 87 46 | 63 26 | 63.4 | 87 10 | 44 59 | 45.0 | 86 24 | 33 40 | 33.7 | 85 32 | 26 31 | 26.6 | 84 37 | 21 45 | 21.8 | 268 272 |
| 89 91 | 89 00 | 90 00 | 90.0 | 88 35 | 45 00 | 45.0 | 87 46 | 26 33 | 26.6 | 86 50 | 18 25 | 18.4 | 85 53 | 14 01 | 14.0 | 84 54 | 11 17 | 11.3 | 269 271 |
| 90 90 | 90 00 | 0 00 | 0.0 | 89 00 | 0 00 | 0.0 | 88 00 | 0 00 | 0.0 | 87 00 | 0 00 | 0.0 | 86 00 | 0 00 | 0.0 | 85 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (-) para 90° < AHL < 270°

Dec: (-) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que BZ₂: (-) para F > 90°

| Lat. / A | 6° | | | 7° | | | 8° | | | 9° | | | 10° | | | 11° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 84 00 | 90 0 | 0 00 | 83 00 | 90 0 | 0 00 | 82 00 | 90 0 | 0 00 | 81 00 | 90 0 | 0 00 | 80 00 | 90 0 | 0 00 | 79 00 | 90 0 | 180 360 |
| 1 179 | 1 00 | 84 00 | 89 9 | 1 00 | 83 00 | 89 9 | 0 59 | 82 00 | 89 9 | 0 59 | 81 00 | 89 8 | 0 59 | 80 00 | 89 8 | 0 59 | 79 00 | 89 8 | 181 359 |
| 2 178 | 1 59 | 84 00 | 89 8 | 1 59 | 83 00 | 89 8 | 1 59 | 82 00 | 89 7 | 1 59 | 81 00 | 89 7 | 1 58 | 80 00 | 89 7 | 1 58 | 79 00 | 89 6 | 182 358 |
| 3 177 | 2 59 | 84 00 | 89 7 | 2 59 | 82 59 | 89 6 | 2 58 | 81 59 | 89 6 | 2 58 | 80 59 | 89 5 | 2 57 | 79 59 | 89 5 | 2 57 | 78 59 | 89 4 | 183 357 |
| 4 176 | 3 59 | 83 59 | 89 6 | 3 58 | 82 59 | 89 5 | 3 58 | 81 59 | 89 4 | 3 57 | 80 59 | 89 4 | 3 56 | 79 59 | 89 3 | 3 56 | 78 58 | 89 2 | 184 356 |
| 5 175 | 4 58 | 83 59 | 89 5 | 4 58 | 82 58 | 89 4 | 4 57 | 81 58 | 89 3 | 4 56 | 80 58 | 89 2 | 4 55 | 79 58 | 89 1 | 4 54 | 78 58 | 89 0 | 185 355 |
| 6 174 | 5 58 | 83 58 | 89 4 | 5 57 | 82 58 | 89 3 | 5 56 | 81 57 | 89 2 | 5 56 | 80 57 | 89 1 | 5 55 | 79 57 | 89 0 | 5 53 | 78 56 | 88 9 | 186 354 |
| 7 173 | 6 58 | 83 57 | 89 3 | 6 57 | 82 57 | 89 1 | 6 56 | 81 56 | 89 0 | 6 55 | 80 56 | 88 9 | 6 54 | 79 56 | 88 8 | 6 52 | 78 55 | 88 7 | 187 353 |
| 8 172 | 7 57 | 83 56 | 89 2 | 7 56 | 82 56 | 89 0 | 7 55 | 81 55 | 88 9 | 7 54 | 80 55 | 88 7 | 7 53 | 79 54 | 88 6 | 7 51 | 78 54 | 88 5 | 188 352 |
| 9 171 | 8 57 | 83 56 | 89 1 | 8 56 | 82 55 | 88 9 | 8 55 | 81 54 | 88 7 | 8 53 | 80 53 | 88 6 | 8 52 | 79 53 | 88 6 | 8 50 | 78 52 | 88 3 | 189 351 |
| 10 170 | 9 57 | 83 54 | 88 9 | 9 55 | 82 54 | 88 8 | 9 54 | 81 53 | 88 6 | 9 53 | 80 52 | 88 4 | 9 51 | 79 51 | 88 2 | 9 49 | 78 50 | 88 1 | 190 350 |
| 11 169 | 10 56 | 83 53 | 88 8 | 10 55 | 82 52 | 88 6 | 10 53 | 81 51 | 88 5 | 10 52 | 80 50 | 88 3 | 10 50 | 79 49 | 88 1 | 10 48 | 78 48 | 87 9 | 191 349 |
| 12 168 | 11 56 | 83 52 | 88 7 | 11 55 | 82 51 | 88 5 | 11 53 | 81 49 | 88 3 | 11 51 | 80 48 | 88 1 | 11 49 | 79 47 | 87 9 | 11 47 | 78 46 | 87 7 | 192 348 |
| 13 167 | 12 56 | 83 51 | 88 6 | 12 54 | 82 49 | 88 4 | 12 52 | 81 48 | 88 2 | 12 50 | 80 46 | 87 9 | 12 48 | 79 45 | 87 7 | 12 45 | 78 43 | 87 5 | 193 347 |
| 14 166 | 13 55 | 83 49 | 88 5 | 13 54 | 82 47 | 88 3 | 13 52 | 81 46 | 88 0 | 13 49 | 80 44 | 87 8 | 13 47 | 79 42 | 87 5 | 13 44 | 78 40 | 87 3 | 194 346 |
| 15 165 | 14 55 | 83 47 | 88 4 | 14 53 | 82 45 | 88 1 | 14 51 | 81 43 | 87 9 | 14 49 | 80 41 | 87 6 | 14 46 | 79 39 | 87 3 | 14 43 | 78 37 | 87 1 | 195 345 |
| 16 164 | 15 55 | 83 46 | 88 3 | 15 53 | 82 43 | 88 0 | 15 50 | 81 41 | 87 7 | 15 48 | 80 39 | 87 4 | 15 45 | 79 36 | 87 1 | 15 42 | 78 34 | 86 9 | 196 344 |
| 17 163 | 16 54 | 83 44 | 88 2 | 16 52 | 82 41 | 87 9 | 16 50 | 81 38 | 87 6 | 16 47 | 80 36 | 87 3 | 16 44 | 79 33 | 87 0 | 16 41 | 78 31 | 86 7 | 197 343 |
| 18 162 | 17 54 | 83 42 | 88 1 | 17 52 | 82 39 | 87 7 | 17 49 | 81 36 | 87 4 | 17 46 | 80 33 | 87 1 | 17 43 | 79 30 | 86 8 | 17 39 | 78 27 | 86 5 | 198 342 |
| 19 161 | 18 54 | 83 39 | 87 9 | 18 51 | 82 36 | 87 6 | 18 48 | 81 33 | 87 3 | 18 45 | 80 29 | 86 9 | 18 42 | 79 26 | 86 6 | 18 38 | 78 23 | 86 2 | 199 341 |
| 20 160 | 19 53 | 83 37 | 87 8 | 19 51 | 82 33 | 87 5 | 19 48 | 81 30 | 87 1 | 19 45 | 80 26 | 86 7 | 19 41 | 79 22 | 86 4 | 19 37 | 78 19 | 86 0 | 200 340 |
| 21 159 | 20 53 | 83 35 | 87 7 | 20 50 | 82 30 | 87 3 | 20 47 | 81 26 | 86 9 | 20 44 | 80 22 | 86 6 | 20 40 | 79 18 | 86 2 | 20 36 | 78 14 | 85 8 | 201 339 |
| 22 158 | 21 52 | 83 32 | 87 6 | 21 50 | 82 27 | 87 2 | 21 46 | 81 23 | 86 8 | 21 43 | 80 18 | 86 4 | 21 39 | 79 14 | 86 0 | 21 35 | 78 10 | 85 6 | 202 338 |
| 23 157 | 22 52 | 83 29 | 87 5 | 22 49 | 82 24 | 87 0 | 22 46 | 81 19 | 86 6 | 22 42 | 80 14 | 86 2 | 22 38 | 79 09 | 85 8 | 22 33 | 78 05 | 85 4 | 203 337 |
| 24 156 | 23 52 | 83 26 | 87 3 | 23 49 | 82 21 | 86 9 | 23 45 | 81 15 | 86 5 | 23 41 | 80 10 | 86 0 | 23 37 | 79 05 | 85 6 | 23 32 | 77 59 | 85 1 | 204 336 |
| 25 155 | 24 51 | 83 23 | 87 2 | 24 48 | 82 17 | 86 7 | 24 44 | 81 11 | 86 3 | 24 40 | 80 05 | 85 8 | 24 36 | 78 59 | 85 4 | 24 31 | 77 54 | 84 9 | 205 335 |
| 26 154 | 25 51 | 83 20 | 87 1 | 25 48 | 82 13 | 86 6 | 25 44 | 81 07 | 86 1 | 25 39 | 80 00 | 85 6 | 25 35 | 78 54 | 85 2 | 25 29 | 77 48 | 84 7 | 206 334 |
| 27 153 | 26 50 | 83 16 | 87 0 | 26 47 | 82 09 | 86 4 | 26 43 | 81 02 | 85 9 | 26 38 | 79 55 | 85 4 | 26 33 | 78 48 | 84 9 | 26 28 | 77 42 | 84 4 | 207 333 |
| 28 152 | 27 50 | 83 13 | 86 8 | 27 46 | 82 05 | 86 3 | 27 42 | 80 57 | 85 8 | 27 38 | 79 50 | 85 2 | 27 32 | 78 42 | 84 7 | 27 27 | 77 35 | 84 2 | 208 332 |
| 29 151 | 28 50 | 83 09 | 86 7 | 28 46 | 82 01 | 86 1 | 28 41 | 80 52 | 85 6 | 28 37 | 79 44 | 85 0 | 28 31 | 78 36 | 84 5 | 28 25 | 77 28 | 84 0 | 209 331 |
| 30 150 | 29 49 | 83 05 | 86 5 | 29 45 | 81 56 | 86 0 | 29 41 | 80 47 | 85 4 | 29 36 | 79 38 | 84 8 | 29 30 | 78 29 | 84 3 | 29 24 | 77 21 | 83 7 | 210 330 |
| 31 149 | 30 49 | 83 01 | 86 4 | 30 45 | 81 51 | 85 8 | 30 40 | 80 41 | 85 2 | 30 35 | 79 32 | 84 6 | 30 29 | 78 23 | 84 0 | 30 22 | 77 13 | 83 5 | 211 329 |
| 32 148 | 31 48 | 82 56 | 86 3 | 31 44 | 81 46 | 85 6 | 31 39 | 80 35 | 85 0 | 31 34 | 79 25 | 84 4 | 31 27 | 78 15 | 83 8 | 31 21 | 77 05 | 83 2 | 212 328 |
| 33 147 | 32 48 | 82 51 | 86 1 | 32 43 | 81 40 | 85 5 | 32 38 | 80 29 | 84 8 | 32 33 | 79 18 | 84 2 | 32 26 | 78 08 | 83 6 | 32 19 | 76 57 | 82 9 | 213 327 |
| 34 146 | 33 47 | 82 46 | 86 0 | 33 43 | 81 35 | 85 3 | 33 37 | 80 23 | 84 6 | 33 32 | 79 11 | 84 0 | 33 25 | 78 00 | 83 3 | 33 18 | 76 48 | 82 7 | 214 326 |
| 35 145 | 34 47 | 82 41 | 85 8 | 34 42 | 81 29 | 85 1 | 34 37 | 80 16 | 84 4 | 34 30 | 79 03 | 83 7 | 34 24 | 77 51 | 83 1 | 34 16 | 76 39 | 82 4 | 215 325 |
| 36 144 | 35 46 | 82 36 | 85 7 | 35 41 | 81 22 | 84 9 | 35 36 | 80 09 | 84 2 | 35 29 | 78 55 | 83 5 | 35 22 | 77 42 | 82 8 | 35 14 | 76 29 | 82 1 | 216 324 |
| 37 143 | 36 46 | 82 30 | 85 5 | 36 41 | 81 16 | 84 8 | 36 35 | 80 01 | 84 0 | 36 28 | 78 47 | 83 3 | 36 21 | 77 33 | 82 5 | 36 13 | 76 19 | 81 8 | 217 323 |
| 38 142 | 37 45 | 82 24 | 85 3 | 37 40 | 81 09 | 84 6 | 37 34 | 79 53 | 83 8 | 37 27 | 78 38 | 83 0 | 37 19 | 77 23 | 82 3 | 37 11 | 76 09 | 81 5 | 218 322 |
| 39 141 | 38 45 | 82 18 | 85 2 | 38 39 | 81 01 | 84 4 | 38 33 | 79 45 | 83 6 | 38 26 | 78 29 | 82 8 | 38 18 | 77 13 | 82 0 | 38 09 | 75 57 | 81 2 | 219 321 |
| 40 140 | 39 44 | 82 11 | 85 0 | 39 39 | 80 54 | 84 2 | 39 32 | 79 36 | 83 3 | 39 25 | 78 19 | 82 5 | 39 16 | 77 02 | 81 7 | 39 07 | 75 46 | 80 9 | 220 320 |
| 41 139 | 40 44 | 82 04 | 84 8 | 40 38 | 80 46 | 84 0 | 40 31 | 79 27 | 83 1 | 40 23 | 78 09 | 82 3 | 40 15 | 76 51 | 81 4 | 40 05 | 75 33 | 80 6 | 221 319 |
| 42 138 | 41 43 | 81 57 | 84 6 | 41 37 | 80 37 | 83 7 | 41 30 | 79 17 | 82 9 | 41 22 | 77 58 | 82 0 | 41 13 | 76 39 | 81 1 | 41 04 | 75 21 | 80 3 | 222 318 |
| 43 137 | 42 42 | 81 49 | 84 4 | 42 36 | 80 28 | 83 5 | 42 29 | 79 07 | 82 6 | 42 21 | 77 47 | 81 7 | 42 12 | 76 27 | 80 8 | 42 02 | 75 07 | 79 9 | 223 317 |
| 44 136 | 43 42 | 81 41 | 84 2 | 43 35 | 80 19 | 83 3 | 43 28 | 78 57 | 82 3 | 43 19 | 77 35 | 81 4 | 43 10 | 76 14 | 80 5 | 43 00 | 74 53 | 79 6 | 224 316 |
| 45 135 | 44 41 | 81 33 | 84 0 | 44 34 | 80 09 | 83 1 | 44 27 | 78 46 | 82 1 | 44 18 | 77 22 | 81 1 | 44 08 | 76 00 | 80 1 | 43 57 | 74 38 | 79 2 | 225 315 |

LATITUD / A: 6° - 11°

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| Lat. / A | 12° | | | 13° | | | 14° | | | 15° | | | 16° | | | 17° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 43 46 | 73 16 | 78.3 | 43 33 | 71 55 | 77.3 | 43 19 | 70 35 | 76.4 | 43 05 | 69 15 | 75.5 | 42 49 | 67 56 | 74.6 | 42 33 | 66 37 | 73.7 | 225 315 |
| 46 134 | 44 43 | 72 59 | 77.8 | 44 30 | 71 37 | 76.9 | 44 16 | 70 15 | 75.9 | 44 01 | 68 54 | 75.0 | 43 45 | 67 34 | 74.1 | 43 28 | 66 15 | 73.2 | 226 314 |
| 47 133 | 45 40 | 72 41 | 77.4 | 45 27 | 71 18 | 76.4 | 45 12 | 69 55 | 75.5 | 44 57 | 68 33 | 74.5 | 44 40 | 67 12 | 73.5 | 44 23 | 65 51 | 72.6 | 227 313 |
| 48 132 | 46 38 | 72 23 | 77.0 | 46 24 | 70 58 | 76.0 | 46 09 | 69 34 | 75.0 | 45 53 | 68 11 | 74.0 | 45 35 | 66 48 | 73.0 | 45 17 | 65 27 | 72.0 | 228 312 |
| 49 131 | 47 35 | 72 03 | 76.5 | 47 20 | 70 37 | 75.5 | 47 05 | 69 11 | 74.4 | 46 48 | 67 47 | 73.4 | 46 30 | 66 23 | 72.4 | 46 12 | 65 01 | 71.4 | 229 311 |
| 50 130 | 48 32 | 71 42 | 76.1 | 48 17 | 70 15 | 75.0 | 48 01 | 68 48 | 73.9 | 47 44 | 67 22 | 72.9 | 47 25 | 65 58 | 71.8 | 47 06 | 64 34 | 70.8 | 230 310 |
| 51 129 | 49 29 | 71 20 | 75.6 | 49 13 | 69 51 | 74.5 | 48 57 | 68 23 | 73.4 | 48 39 | 66 56 | 72.3 | 48 20 | 65 30 | 71.2 | 48 00 | 64 05 | 70.1 | 231 309 |
| 52 128 | 50 25 | 70 57 | 75.1 | 50 09 | 69 27 | 73.9 | 49 52 | 67 57 | 72.8 | 49 34 | 66 29 | 71.7 | 49 15 | 65 02 | 70.6 | 48 54 | 63 35 | 69.5 | 232 308 |
| 53 127 | 51 22 | 70 33 | 74.6 | 51 06 | 69 01 | 73.4 | 50 48 | 67 30 | 72.2 | 50 29 | 66 00 | 71.0 | 50 09 | 64 31 | 69.9 | 49 48 | 63 04 | 68.8 | 233 307 |
| 54 126 | 52 19 | 70 07 | 74.0 | 52 02 | 68 33 | 72.8 | 51 43 | 67 01 | 71.6 | 51 24 | 65 30 | 70.4 | 51 03 | 64 00 | 69.2 | 50 41 | 62 31 | 68.1 | 234 306 |
| 55 125 | 53 15 | 69 40 | 73.5 | 52 57 | 68 04 | 72.2 | 52 38 | 66 30 | 70.9 | 52 18 | 64 58 | 69.7 | 51 57 | 63 26 | 68.5 | 51 34 | 61 56 | 67.3 | 235 305 |
| 56 124 | 54 11 | 69 11 | 72.9 | 53 53 | 67 34 | 71.6 | 53 33 | 65 58 | 70.3 | 53 12 | 64 24 | 69.0 | 52 50 | 62 51 | 67.8 | 52 27 | 61 20 | 66.6 | 236 304 |
| 57 123 | 55 07 | 68 41 | 72.2 | 54 48 | 67 02 | 70.9 | 54 28 | 65 24 | 69.6 | 54 06 | 63 48 | 68.3 | 53 43 | 62 14 | 67.0 | 53 19 | 60 42 | 65.8 | 237 303 |
| 58 122 | 56 03 | 68 09 | 71.6 | 55 43 | 66 28 | 70.2 | 55 22 | 64 48 | 68.8 | 55 00 | 63 11 | 67.5 | 54 36 | 61 35 | 66.2 | 54 12 | 60 01 | 64.9 | 238 302 |
| 59 121 | 56 59 | 67 34 | 70.9 | 56 38 | 65 51 | 69.5 | 56 16 | 64 10 | 68.1 | 55 53 | 62 31 | 66.7 | 55 29 | 60 54 | 65.4 | 55 03 | 59 18 | 64.1 | 239 301 |
| 60 120 | 57 54 | 66 58 | 70.2 | 57 33 | 65 13 | 68.7 | 57 10 | 63 30 | 67.3 | 56 46 | 61 49 | 65.9 | 56 21 | 60 10 | 64.5 | 55 55 | 58 33 | 63.1 | 240 300 |
| 61 119 | 58 49 | 66 20 | 69.4 | 58 27 | 64 32 | 67.9 | 58 04 | 62 47 | 66.4 | 57 39 | 61 04 | 65.0 | 57 13 | 59 24 | 63.6 | 56 46 | 57 46 | 62.2 | 241 299 |
| 62 118 | 59 44 | 65 38 | 68.6 | 59 21 | 63 49 | 67.1 | 58 57 | 62 02 | 65.5 | 58 31 | 60 17 | 64.0 | 58 05 | 58 35 | 62.6 | 57 36 | 56 56 | 61.2 | 242 298 |
| 63 117 | 60 38 | 64 55 | 67.8 | 60 15 | 63 03 | 66.2 | 59 50 | 61 13 | 64.6 | 59 23 | 59 27 | 63.1 | 58 55 | 57 43 | 61.6 | 58 26 | 56 03 | 60.2 | 243 297 |
| 64 116 | 61 32 | 64 08 | 66.9 | 61 08 | 62 14 | 65.2 | 60 42 | 60 22 | 63.6 | 60 15 | 58 34 | 62.0 | 59 46 | 56 49 | 60.5 | 59 16 | 55 06 | 59.1 | 244 296 |
| 65 115 | 62 26 | 63 18 | 66.0 | 62 01 | 61 21 | 64.2 | 61 34 | 59 28 | 62.6 | 61 06 | 57 37 | 61.0 | 60 36 | 55 51 | 59.4 | 60 05 | 54 07 | 57.9 | 245 295 |
| 66 114 | 63 20 | 62 25 | 65.0 | 62 53 | 60 25 | 63.2 | 62 26 | 58 30 | 61.5 | 61 56 | 56 37 | 59.8 | 61 25 | 54 49 | 58.2 | 60 53 | 53 04 | 56.7 | 246 294 |
| 67 113 | 64 13 | 61 27 | 63.9 | 63 45 | 59 25 | 62.1 | 63 16 | 57 27 | 60.3 | 62 46 | 55 34 | 58.6 | 62 14 | 53 44 | 57.0 | 61 41 | 51 57 | 55.4 | 247 293 |
| 68 112 | 65 05 | 60 26 | 62.8 | 64 37 | 58 21 | 60.9 | 64 07 | 56 21 | 59.1 | 63 35 | 54 25 | 57.4 | 63 02 | 52 34 | 55.7 | 62 27 | 50 47 | 54.1 | 248 292 |
| 69 111 | 65 57 | 59 20 | 61.6 | 65 27 | 57 13 | 59.6 | 64 56 | 55 10 | 57.8 | 64 23 | 53 13 | 56.0 | 63 49 | 51 20 | 54.3 | 63 14 | 49 32 | 52.7 | 249 291 |
| 70 110 | 66 48 | 58 08 | 60.3 | 66 18 | 55 59 | 58.3 | 65 45 | 53 55 | 56.4 | 65 11 | 51 55 | 54.6 | 64 36 | 50 01 | 52.9 | 63 59 | 48 12 | 51.2 | 250 290 |
| 71 109 | 67 39 | 56 52 | 58.9 | 67 07 | 54 40 | 56.8 | 66 33 | 52 33 | 54.9 | 65 58 | 50 33 | 53.1 | 65 21 | 48 38 | 51.3 | 64 43 | 46 48 | 49.7 | 251 289 |
| 72 108 | 68 29 | 55 29 | 57.4 | 67 55 | 53 14 | 55.3 | 67 20 | 51 06 | 53.3 | 66 44 | 49 04 | 51.5 | 66 06 | 47 08 | 49.7 | 65 26 | 45 18 | 48.0 | 252 288 |
| 73 107 | 69 18 | 53 59 | 55.8 | 68 43 | 51 42 | 53.7 | 68 07 | 49 33 | 51.6 | 67 29 | 47 30 | 49.8 | 66 49 | 45 33 | 48.0 | 66 08 | 43 43 | 46.3 | 253 287 |
| 74 106 | 70 06 | 52 22 | 54.1 | 69 30 | 50 03 | 51.9 | 68 52 | 47 52 | 49.8 | 68 12 | 45 49 | 47.9 | 67 31 | 43 52 | 46.1 | 66 49 | 42 02 | 44.4 | 254 286 |
| 75 105 | 70 53 | 50 36 | 52.2 | 70 15 | 48 16 | 50.0 | 69 36 | 46 04 | 47.9 | 68 55 | 44 00 | 46.0 | 68 12 | 42 04 | 44.2 | 67 29 | 40 15 | 42.5 | 255 285 |
| 76 104 | 71 38 | 48 42 | 50.2 | 70 59 | 46 20 | 47.9 | 70 18 | 44 08 | 45.9 | 69 36 | 42 05 | 43.9 | 68 52 | 40 09 | 42.1 | 68 07 | 38 21 | 40.5 | 256 284 |
| 77 103 | 72 23 | 46 37 | 48.0 | 71 42 | 44 15 | 45.7 | 70 59 | 42 03 | 43.7 | 70 15 | 40 01 | 41.7 | 69 30 | 38 07 | 39.9 | 68 43 | 36 21 | 38.3 | 257 283 |
| 78 102 | 73 06 | 44 22 | 45.6 | 72 23 | 42 00 | 43.4 | 71 38 | 39 49 | 41.3 | 70 53 | 37 49 | 39.4 | 70 06 | 35 57 | 37.6 | 69 18 | 34 13 | 36.0 | 258 282 |
| 79 101 | 73 47 | 41 55 | 43.1 | 73 02 | 39 34 | 40.8 | 72 16 | 37 26 | 38.8 | 71 28 | 35 27 | 36.9 | 70 40 | 33 38 | 35.2 | 69 50 | 31 58 | 33.6 | 259 281 |
| 80 100 | 74 26 | 39 15 | 40.3 | 73 39 | 36 57 | 38.1 | 72 51 | 34 51 | 36.1 | 72 02 | 32 57 | 34.3 | 71 12 | 31 12 | 32.6 | 70 21 | 29 36 | 31.1 | 260 280 |
| 81 99 | 75 02 | 36 21 | 37.3 | 74 14 | 34 07 | 35.1 | 73 24 | 32 06 | 33.2 | 72 34 | 30 17 | 31.5 | 71 42 | 28 37 | 29.9 | 70 50 | 27 06 | 28.4 | 261 279 |
| 82 98 | 75 37 | 33 13 | 34.1 | 74 46 | 31 05 | 32.0 | 73 55 | 29 10 | 30.2 | 73 03 | 27 27 | 28.5 | 72 09 | 25 53 | 27.0 | 71 16 | 24 29 | 25.7 | 262 278 |
| 83 97 | 76 08 | 29 50 | 30.6 | 75 16 | 27 50 | 28.6 | 74 23 | 26 03 | 26.9 | 73 29 | 24 27 | 25.4 | 72 34 | 23 02 | 24.0 | 71 39 | 21 44 | 22.8 | 263 277 |
| 84 96 | 76 36 | 26 11 | 26.8 | 75 42 | 24 22 | 25.0 | 74 48 | 22 45 | 23.5 | 73 52 | 21 19 | 22.1 | 72 56 | 20 02 | 20.9 | 72 00 | 18 53 | 19.8 | 264 276 |
| 85 95 | 77 01 | 22 18 | 22.8 | 76 05 | 20 41 | 21.3 | 75 09 | 19 16 | 19.9 | 74 12 | 18 01 | 18.7 | 73 15 | 16 54 | 17.6 | 72 18 | 15 55 | 16.7 | 265 275 |
| 86 94 | 77 22 | 18 10 | 18.6 | 76 25 | 16 49 | 17.3 | 75 27 | 15 38 | 16.1 | 74 29 | 14 36 | 15.1 | 73 31 | 13 40 | 14.2 | 72 33 | 12 51 | 13.5 | 266 274 |
| 87 93 | 77 38 | 13 50 | 14.1 | 76 40 | 12 46 | 13.1 | 75 41 | 11 51 | 12.2 | 74 43 | 11 03 | 11.4 | 73 44 | 10 21 | 10.8 | 72 45 | 9 43 | 10.2 | 267 273 |
| 88 92 | 77 50 | 9 19 | 9.5 | 76 51 | 8 36 | 8.8 | 75 52 | 7 58 | 8.2 | 74 52 | 7 25 | 7.7 | 73 53 | 6 56 | 7.2 | 72 53 | 6 31 | 6.8 | 268 272 |
| 89 91 | 77 58 | 4 42 | 4.8 | 76 58 | 4 19 | 4.4 | 75 58 | 4 00 | 4.1 | 74 58 | 3 44 | 3.9 | 73 58 | 3 29 | 3.6 | 72 58 | 3 16 | 3.4 | 269 271 |
| 90 90 | 78 00 | 0 00 | 0.0 | 77 00 | 0 00 | 0.0 | 76 00 | 0 00 | 0.0 | 75 00 | 0 00 | 0.0 | 74 00 | 0 00 | 0.0 | 73 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_N = Z
 para AHL < 180°... Z_N = 360° - Z

Lat. S.: para AHL > 180°... Z_N = 180° - Z
 para AHL < 180°... Z_N = 180° + Z

B: (—) para 90° < AHL < 270°

Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
Z₂: (—) para F > 90°

| Lat / A | 18° | | | 19° | | | 20° | | | 21° | | | 22° | | | 23° | | | Lat. / A |
|---------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 72 00 | 90 0 | 0 00 | 71 00 | 90 0 | 0 00 | 70 00 | 90 0 | 0 00 | 69 00 | 90 0 | 0 00 | 68 00 | 90 0 | 0 00 | 67 00 | 90 0 | 180 360 |
| 1 179 | 0 57 | 72 00 | 89 7 | 0 57 | 71 00 | 89 7 | 0 56 | 70 00 | 89 7 | 0 56 | 69 00 | 89 6 | 0 56 | 68 00 | 89 6 | 0 55 | 67 00 | 89 6 | 181 359 |
| 2 178 | 1 54 | 71 59 | 89 4 | 1 53 | 70 59 | 89 3 | 1 53 | 69 59 | 89 3 | 1 52 | 68 59 | 89 3 | 1 51 | 67 59 | 89 3 | 1 50 | 66 59 | 89 2 | 182 358 |
| 3 177 | 2 51 | 71 59 | 89 1 | 2 50 | 70 59 | 89 0 | 2 49 | 69 58 | 89 0 | 2 48 | 68 58 | 88 9 | 2 47 | 67 58 | 88 9 | 2 46 | 66 58 | 88 8 | 183 357 |
| 4 176 | 3 48 | 71 58 | 88 8 | 3 47 | 70 57 | 88 7 | 3 46 | 69 57 | 88 6 | 3 44 | 68 57 | 88 6 | 3 42 | 67 57 | 88 5 | 3 41 | 66 57 | 88 4 | 184 356 |
| 5 175 | 4 45 | 71 56 | 88 5 | 4 44 | 70 56 | 88 4 | 4 42 | 69 56 | 88 3 | 4 40 | 68 56 | 88 2 | 4 38 | 67 55 | 88 1 | 4 36 | 66 55 | 88 0 | 185 355 |
| 6 174 | 5 42 | 71 54 | 88 1 | 5 40 | 70 54 | 88 0 | 5 38 | 69 54 | 87 9 | 5 36 | 68 54 | 87 8 | 5 34 | 67 53 | 87 7 | 5 31 | 66 53 | 87 6 | 186 354 |
| 7 173 | 6 39 | 71 52 | 87 8 | 6 37 | 70 52 | 87 7 | 6 35 | 69 52 | 87 6 | 6 32 | 68 51 | 87 5 | 6 29 | 67 51 | 87 4 | 6 26 | 66 51 | 87 3 | 187 353 |
| 8 172 | 7 36 | 71 50 | 87 5 | 7 34 | 70 50 | 87 4 | 7 31 | 69 49 | 87 2 | 7 28 | 68 49 | 87 1 | 7 25 | 67 48 | 87 0 | 7 22 | 66 48 | 86 9 | 188 352 |
| 9 171 | 8 33 | 71 47 | 87 2 | 8 30 | 70 47 | 87 0 | 8 27 | 69 46 | 86 9 | 8 24 | 68 46 | 86 8 | 8 20 | 67 45 | 86 6 | 8 17 | 66 45 | 86 5 | 189 351 |
| 10 170 | 9 30 | 71 44 | 86 9 | 9 27 | 70 44 | 86 7 | 9 23 | 69 43 | 86 5 | 9 20 | 68 42 | 86 4 | 9 16 | 67 42 | 86 2 | 9 12 | 66 41 | 86 1 | 190 350 |
| 11 169 | 10 27 | 71 41 | 86 6 | 10 24 | 70 41 | 86 4 | 10 20 | 69 39 | 86 2 | 10 16 | 68 39 | 86 0 | 10 11 | 67 38 | 85 8 | 10 07 | 66 37 | 85 7 | 191 349 |
| 12 168 | 11 24 | 71 37 | 86 2 | 11 20 | 70 36 | 86 0 | 11 16 | 69 35 | 85 8 | 11 12 | 68 34 | 85 6 | 11 07 | 67 33 | 85 4 | 11 02 | 66 32 | 85 3 | 192 348 |
| 13 167 | 12 21 | 71 33 | 85 9 | 12 17 | 70 32 | 85 7 | 12 12 | 69 31 | 85 5 | 12 07 | 68 30 | 85 3 | 12 02 | 67 29 | 85 1 | 11 57 | 66 28 | 84 8 | 193 347 |
| 14 166 | 13 18 | 71 29 | 85 6 | 13 13 | 70 28 | 85 4 | 13 08 | 69 26 | 85 1 | 13 03 | 68 25 | 84 9 | 12 58 | 67 24 | 84 7 | 12 52 | 66 22 | 84 4 | 194 346 |
| 15 165 | 14 15 | 71 24 | 85 3 | 14 10 | 70 23 | 85 0 | 14 05 | 69 21 | 84 8 | 13 59 | 68 20 | 84 5 | 13 53 | 67 18 | 84 3 | 13 47 | 66 17 | 84 0 | 195 345 |
| 16 164 | 15 12 | 71 19 | 84 9 | 15 06 | 70 18 | 84 5 | 15 01 | 69 16 | 84 4 | 14 55 | 68 14 | 84 1 | 14 48 | 67 12 | 83 9 | 14 42 | 66 10 | 83 6 | 196 344 |
| 17 163 | 16 09 | 71 14 | 84 6 | 16 03 | 70 12 | 84 3 | 15 57 | 69 10 | 84 0 | 15 50 | 68 08 | 83 7 | 15 44 | 67 06 | 83 5 | 15 37 | 66 04 | 83 2 | 197 343 |
| 18 162 | 17 05 | 71 08 | 84 3 | 16 59 | 70 06 | 84 0 | 16 53 | 69 03 | 83 7 | 16 46 | 68 01 | 83 4 | 16 39 | 66 59 | 83 1 | 16 32 | 65 57 | 82 8 | 198 342 |
| 19 161 | 18 02 | 71 02 | 83 9 | 17 56 | 69 59 | 83 6 | 17 49 | 68 57 | 83 3 | 17 42 | 67 54 | 83 0 | 17 34 | 66 52 | 82 7 | 17 26 | 65 49 | 82 3 | 199 341 |
| 20 160 | 18 59 | 70 56 | 83 6 | 18 52 | 69 53 | 83 2 | 18 45 | 68 50 | 82 9 | 18 37 | 67 47 | 82 6 | 18 29 | 66 44 | 82 2 | 18 21 | 65 41 | 81 9 | 200 340 |
| 21 159 | 19 56 | 70 49 | 83 2 | 19 48 | 69 45 | 82 9 | 19 41 | 68 42 | 82 5 | 19 33 | 67 39 | 82 2 | 19 24 | 66 36 | 81 8 | 19 16 | 65 33 | 81 5 | 201 339 |
| 22 158 | 20 52 | 70 41 | 82 9 | 20 45 | 69 38 | 82 5 | 20 37 | 68 34 | 82 1 | 20 28 | 67 31 | 81 8 | 20 19 | 66 27 | 81 4 | 20 10 | 65 24 | 81 0 | 202 338 |
| 23 157 | 21 49 | 70 33 | 82 5 | 21 41 | 69 29 | 82 1 | 21 32 | 68 26 | 81 7 | 21 24 | 67 22 | 81 4 | 21 14 | 66 18 | 81 0 | 21 05 | 65 15 | 80 6 | 203 337 |
| 24 156 | 22 45 | 70 25 | 82 2 | 22 37 | 69 21 | 81 8 | 22 28 | 68 17 | 81 3 | 22 19 | 67 12 | 80 9 | 22 09 | 66 09 | 80 5 | 21 59 | 65 05 | 80 1 | 204 336 |
| 25 155 | 23 42 | 70 17 | 81 8 | 23 33 | 69 12 | 81 4 | 23 24 | 68 07 | 80 9 | 23 14 | 67 03 | 80 5 | 23 04 | 65 58 | 80 1 | 22 54 | 64 54 | 79 7 | 205 335 |
| 26 154 | 24 38 | 70 07 | 81 4 | 24 29 | 69 02 | 81 0 | 24 20 | 67 57 | 80 5 | 24 09 | 66 52 | 80 1 | 23 59 | 65 48 | 79 6 | 23 48 | 64 43 | 79 2 | 206 334 |
| 27 153 | 25 35 | 69 58 | 81 1 | 25 25 | 68 52 | 80 6 | 25 15 | 67 47 | 80 1 | 25 05 | 66 42 | 79 7 | 24 54 | 65 36 | 79 2 | 24 42 | 64 32 | 78 7 | 207 333 |
| 28 152 | 26 31 | 69 48 | 80 7 | 26 21 | 68 42 | 80 2 | 26 11 | 67 36 | 79 7 | 26 00 | 66 30 | 79 2 | 25 48 | 65 25 | 78 7 | 25 36 | 64 19 | 78 3 | 208 332 |
| 29 151 | 27 27 | 69 37 | 80 3 | 27 17 | 68 31 | 79 8 | 27 06 | 67 24 | 79 3 | 26 55 | 66 18 | 78 8 | 26 43 | 65 12 | 78 3 | 26 30 | 64 07 | 77 8 | 209 331 |
| 30 150 | 28 24 | 69 26 | 79 9 | 28 13 | 68 19 | 79 4 | 28 01 | 67 12 | 78 8 | 27 50 | 66 06 | 78 3 | 27 37 | 64 59 | 77 8 | 27 24 | 63 53 | 77 3 | 210 330 |
| 31 149 | 29 20 | 69 14 | 79 5 | 29 09 | 68 07 | 78 9 | 28 57 | 67 00 | 78 4 | 28 44 | 65 53 | 77 8 | 28 31 | 64 46 | 77 3 | 28 18 | 63 39 | 76 8 | 211 329 |
| 32 148 | 30 16 | 69 02 | 79 1 | 30 04 | 67 54 | 78 5 | 29 52 | 66 46 | 77 9 | 29 39 | 65 39 | 77 4 | 29 26 | 64 32 | 76 8 | 29 12 | 63 25 | 76 3 | 212 328 |
| 33 147 | 31 12 | 68 49 | 78 7 | 31 00 | 67 41 | 78 1 | 30 47 | 66 32 | 77 5 | 30 34 | 65 24 | 76 9 | 30 20 | 64 17 | 76 3 | 30 05 | 63 09 | 75 8 | 213 327 |
| 34 146 | 32 08 | 68 36 | 78 2 | 31 55 | 67 27 | 77 6 | 31 42 | 66 18 | 77 0 | 31 28 | 65 09 | 76 4 | 31 14 | 64 01 | 75 8 | 30 59 | 62 53 | 75 2 | 214 326 |
| 35 145 | 33 04 | 68 22 | 77 8 | 32 51 | 67 12 | 77 2 | 32 37 | 66 03 | 76 5 | 32 23 | 64 54 | 75 9 | 32 08 | 63 45 | 75 3 | 31 52 | 62 36 | 74 7 | 215 325 |
| 36 144 | 33 59 | 68 07 | 77 3 | 33 46 | 66 57 | 76 7 | 33 32 | 65 47 | 76 0 | 33 17 | 64 37 | 75 4 | 33 01 | 63 28 | 74 8 | 32 45 | 62 19 | 74 2 | 216 324 |
| 37 143 | 34 55 | 67 52 | 76 9 | 34 41 | 66 41 | 76 2 | 34 26 | 65 30 | 75 5 | 34 11 | 64 20 | 74 9 | 33 55 | 63 10 | 74 2 | 33 38 | 62 01 | 73 6 | 217 323 |
| 38 142 | 35 50 | 67 36 | 76 4 | 35 36 | 66 24 | 75 7 | 35 21 | 65 13 | 75 0 | 35 05 | 64 02 | 74 4 | 34 48 | 62 51 | 73 7 | 34 31 | 61 41 | 73 0 | 218 322 |
| 39 141 | 36 46 | 67 19 | 76 0 | 36 31 | 66 06 | 75 2 | 36 15 | 64 54 | 74 5 | 35 59 | 63 43 | 73 8 | 35 42 | 62 32 | 73 1 | 35 24 | 61 21 | 72 4 | 219 321 |
| 40 140 | 37 41 | 67 01 | 75 5 | 37 26 | 65 48 | 74 7 | 37 10 | 64 35 | 74 0 | 36 53 | 63 23 | 73 3 | 36 35 | 62 12 | 72 6 | 36 17 | 61 01 | 71 8 | 220 320 |
| 41 139 | 38 36 | 66 42 | 75 0 | 38 20 | 65 29 | 74 2 | 38 04 | 64 15 | 73 4 | 37 46 | 63 02 | 72 7 | 37 28 | 61 50 | 72 0 | 37 09 | 60 39 | 71 2 | 221 319 |
| 42 138 | 39 31 | 66 23 | 74 5 | 39 15 | 65 08 | 73 7 | 38 58 | 63 54 | 72 9 | 38 40 | 62 41 | 72 1 | 38 21 | 61 28 | 71 4 | 38 01 | 60 16 | 70 6 | 222 318 |
| 43 137 | 40 26 | 66 03 | 73 9 | 40 09 | 64 47 | 73 1 | 39 51 | 63 33 | 72 3 | 39 33 | 62 18 | 71 5 | 39 13 | 61 05 | 70 7 | 38 53 | 59 52 | 70 0 | 223 317 |
| 44 136 | 41 21 | 65 42 | 73 4 | 41 03 | 64 25 | 72 5 | 40 45 | 63 10 | 71 7 | 40 26 | 61 55 | 70 9 | 40 06 | 60 41 | 70 1 | 39 45 | 59 27 | 69 3 | 224 316 |
| 45 135 | 42 16 | 65 19 | 72 8 | 41 57 | 64 02 | 72 0 | 41 38 | 62 46 | 71 1 | 41 19 | 61 30 | 70 3 | 40 58 | 60 15 | 69 5 | 40 37 | 59 01 | 68 7 | 225 315 |

LATITUD / A: 18° - 23°

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| Lat. / A | 18° | | | 19° | | | 20° | | | 21° | | | 22° | | | 23° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 42 16 | 65 19 | 72.8 | 41 57 | 64 02 | 72.0 | 41 38 | 62 46 | 71.1 | 41 19 | 61 30 | 70.3 | 40 58 | 60 15 | 69.5 | 40 37 | 59 01 | 68.7 | 225 315 |
| 46 134 | 43 10 | 64 56 | 72.3 | 42 51 | 63 38 | 71.4 | 42 32 | 62 21 | 70.5 | 42 11 | 61 05 | 69.6 | 41 50 | 59 49 | 68.8 | 41 28 | 58 34 | 68.0 | 226 314 |
| 47 133 | 44 04 | 64 32 | 71.7 | 43 45 | 63 13 | 70.8 | 43 25 | 61 55 | 69.9 | 43 04 | 60 38 | 69.0 | 42 42 | 59 21 | 68.1 | 42 19 | 58 06 | 67.3 | 227 313 |
| 48 132 | 44 58 | 64 06 | 71.1 | 44 38 | 62 46 | 70.1 | 44 18 | 61 27 | 69.2 | 43 56 | 60 09 | 68.3 | 43 33 | 58 53 | 67.4 | 43 10 | 57 37 | 66.5 | 228 312 |
| 49 131 | 45 52 | 63 39 | 70.4 | 45 32 | 62 18 | 69.5 | 45 10 | 60 59 | 68.5 | 44 48 | 59 40 | 67.6 | 44 24 | 58 22 | 66.7 | 44 00 | 57 06 | 65.8 | 229 311 |
| 50 130 | 46 46 | 63 11 | 69.8 | 46 25 | 61 49 | 68.8 | 46 03 | 60 29 | 67.8 | 45 39 | 59 09 | 66.9 | 45 15 | 57 51 | 65.9 | 44 50 | 56 34 | 65.0 | 230 310 |
| 51 129 | 47 39 | 62 42 | 69.1 | 47 17 | 61 19 | 68.1 | 46 55 | 59 57 | 67.1 | 46 31 | 58 37 | 66.1 | 46 06 | 57 18 | 65.2 | 45 40 | 56 00 | 64.2 | 231 309 |
| 52 128 | 48 33 | 62 11 | 68.4 | 48 10 | 60 47 | 67.4 | 47 46 | 59 25 | 66.4 | 47 22 | 58 03 | 65.4 | 46 56 | 56 44 | 64.4 | 46 30 | 55 25 | 63.4 | 232 308 |
| 53 127 | 49 25 | 61 38 | 67.7 | 49 02 | 60 13 | 66.6 | 48 38 | 58 50 | 65.6 | 48 13 | 57 28 | 64.6 | 47 46 | 56 07 | 63.6 | 47 19 | 54 48 | 62.6 | 233 307 |
| 54 126 | 50 18 | 61 04 | 67.0 | 49 54 | 59 38 | 65.9 | 49 29 | 58 14 | 64.8 | 49 03 | 56 51 | 63.7 | 48 36 | 55 30 | 62.7 | 48 08 | 54 10 | 61.7 | 234 306 |
| 55 125 | 51 10 | 60 28 | 66.2 | 50 46 | 59 01 | 65.1 | 50 20 | 57 36 | 64.0 | 49 53 | 56 12 | 62.9 | 49 25 | 54 50 | 61.9 | 48 56 | 53 30 | 60.8 | 235 305 |
| 56 124 | 52 03 | 59 50 | 65.4 | 51 37 | 58 23 | 64.2 | 51 10 | 56 56 | 63.1 | 50 43 | 55 32 | 62.0 | 50 14 | 54 09 | 61.0 | 49 44 | 52 48 | 59.9 | 236 304 |
| 57 123 | 52 54 | 59 11 | 64.6 | 52 28 | 57 42 | 63.4 | 52 00 | 56 15 | 62.2 | 51 32 | 54 49 | 61.1 | 51 02 | 53 26 | 60.0 | 50 32 | 52 04 | 59.0 | 237 303 |
| 58 122 | 53 46 | 58 29 | 63.7 | 53 18 | 56 59 | 62.5 | 52 50 | 55 31 | 61.3 | 52 21 | 54 05 | 60.2 | 51 50 | 52 41 | 59.1 | 51 19 | 51 18 | 58.0 | 238 302 |
| 59 121 | 54 37 | 57 45 | 62.8 | 54 08 | 56 14 | 61.5 | 53 39 | 54 45 | 60.4 | 53 09 | 53 18 | 59.2 | 52 38 | 51 53 | 58.1 | 52 06 | 50 30 | 57.0 | 239 301 |
| 60 120 | 55 27 | 56 59 | 61.8 | 54 58 | 55 27 | 60.6 | 54 28 | 53 57 | 59.4 | 53 57 | 52 29 | 58.2 | 53 25 | 51 04 | 57.0 | 52 52 | 49 40 | 55.9 | 240 300 |
| 61 119 | 56 17 | 56 10 | 60.9 | 55 47 | 54 37 | 59.6 | 55 16 | 53 06 | 58.3 | 54 44 | 51 38 | 57.1 | 54 11 | 50 12 | 55.9 | 53 37 | 48 48 | 54.8 | 241 299 |
| 62 118 | 57 07 | 55 19 | 59.8 | 56 36 | 53 45 | 58.5 | 56 04 | 52 13 | 57.2 | 55 31 | 50 44 | 56.0 | 54 57 | 49 17 | 54.8 | 54 22 | 47 53 | 53.7 | 242 298 |
| 63 117 | 57 56 | 54 25 | 58.8 | 57 24 | 52 49 | 57.4 | 56 51 | 51 17 | 56.1 | 56 17 | 49 47 | 54.9 | 55 42 | 48 20 | 53.7 | 55 06 | 46 55 | 52.5 | 243 297 |
| 64 116 | 58 44 | 53 27 | 57.6 | 58 12 | 51 51 | 56.3 | 57 38 | 50 18 | 55.0 | 57 03 | 48 48 | 53.7 | 56 27 | 47 20 | 52.5 | 55 50 | 45 55 | 51.3 | 244 296 |
| 65 115 | 59 32 | 52 27 | 56.5 | 58 58 | 50 50 | 55.1 | 58 23 | 49 16 | 53.7 | 57 47 | 47 45 | 52.5 | 57 10 | 46 17 | 51.2 | 56 32 | 44 52 | 50.0 | 245 295 |
| 66 114 | 60 19 | 51 23 | 55.2 | 59 45 | 49 45 | 53.8 | 59 09 | 48 11 | 52.5 | 58 32 | 46 39 | 51.2 | 57 53 | 45 11 | 49.9 | 57 14 | 43 47 | 48.7 | 246 294 |
| 67 113 | 61 06 | 50 15 | 53.9 | 60 30 | 48 37 | 52.5 | 59 53 | 47 02 | 51.1 | 59 15 | 45 30 | 49.8 | 58 36 | 44 02 | 48.6 | 57 55 | 42 38 | 47.4 | 247 293 |
| 68 112 | 61 52 | 49 04 | 52.6 | 61 15 | 47 25 | 51.1 | 60 36 | 45 50 | 49.8 | 59 57 | 44 18 | 48.4 | 59 17 | 42 50 | 47.2 | 58 36 | 41 26 | 46.0 | 248 292 |
| 69 111 | 62 37 | 47 48 | 51.2 | 61 58 | 46 09 | 49.7 | 61 19 | 44 33 | 48.3 | 60 39 | 43 02 | 47.0 | 59 57 | 41 34 | 45.7 | 59 15 | 40 10 | 44.5 | 249 291 |
| 70 110 | 63 21 | 46 28 | 49.7 | 62 41 | 44 48 | 48.2 | 62 01 | 43 13 | 46.8 | 61 19 | 41 42 | 45.4 | 60 36 | 40 15 | 44.2 | 59 53 | 38 52 | 43.0 | 250 290 |
| 71 109 | 64 04 | 45 03 | 48.1 | 63 23 | 43 24 | 46.6 | 62 41 | 41 49 | 45.2 | 61 58 | 40 18 | 43.9 | 61 15 | 38 52 | 42.6 | 60 30 | 37 29 | 41.4 | 251 289 |
| 72 108 | 64 45 | 43 34 | 46.4 | 64 04 | 41 54 | 44.9 | 63 21 | 40 20 | 43.5 | 62 37 | 38 50 | 42.2 | 61 52 | 37 25 | 40.9 | 61 06 | 36 03 | 39.7 | 252 288 |
| 73 107 | 65 26 | 41 59 | 44.7 | 64 43 | 40 20 | 43.2 | 63 59 | 38 46 | 41.8 | 63 14 | 37 18 | 40.5 | 62 27 | 35 53 | 39.2 | 61 41 | 34 34 | 38.0 | 253 287 |
| 74 106 | 66 06 | 40 19 | 42.9 | 65 21 | 38 41 | 41.4 | 64 36 | 37 08 | 40.0 | 63 49 | 35 41 | 38.7 | 63 02 | 34 18 | 37.4 | 62 14 | 33 00 | 36.3 | 254 286 |
| 75 105 | 66 44 | 38 32 | 40.9 | 65 58 | 36 56 | 39.5 | 65 11 | 35 25 | 38.1 | 64 23 | 33 59 | 36.8 | 63 35 | 32 39 | 35.6 | 62 46 | 31 22 | 34.4 | 255 285 |
| 76 104 | 67 20 | 36 40 | 38.9 | 66 33 | 35 05 | 37.4 | 65 45 | 33 37 | 36.1 | 64 56 | 32 13 | 34.8 | 64 07 | 30 55 | 33.6 | 63 16 | 29 41 | 32.5 | 256 284 |
| 77 103 | 67 55 | 34 42 | 36.8 | 67 07 | 33 09 | 35.3 | 66 18 | 31 43 | 34.0 | 65 27 | 30 22 | 32.8 | 64 37 | 29 06 | 31.6 | 63 45 | 27 55 | 30.6 | 257 283 |
| 78 102 | 68 29 | 32 37 | 34.5 | 67 39 | 31 07 | 33.1 | 66 48 | 29 44 | 31.9 | 65 57 | 28 26 | 30.7 | 65 05 | 27 14 | 29.6 | 64 13 | 26 06 | 28.5 | 258 282 |
| 79 101 | 69 00 | 30 25 | 32.2 | 68 09 | 29 00 | 30.8 | 67 17 | 27 40 | 29.6 | 66 25 | 26 26 | 28.5 | 65 32 | 25 17 | 27.4 | 64 38 | 24 12 | 26.4 | 259 281 |
| 80 100 | 69 29 | 28 07 | 29.7 | 68 37 | 26 46 | 28.4 | 67 44 | 25 30 | 27.3 | 66 50 | 24 20 | 26.2 | 65 56 | 23 15 | 25.2 | 65 02 | 22 15 | 24.3 | 260 280 |
| 81 99 | 69 57 | 25 43 | 27.1 | 69 03 | 24 26 | 25.9 | 68 09 | 23 15 | 24.8 | 67 14 | 22 10 | 23.8 | 66 19 | 21 10 | 22.9 | 65 23 | 20 14 | 22.1 | 261 279 |
| 82 98 | 70 21 | 23 11 | 24.5 | 69 27 | 22 00 | 23.3 | 68 31 | 20 56 | 22.3 | 67 36 | 19 56 | 21.4 | 66 40 | 19 00 | 20.6 | 65 43 | 18 09 | 19.8 | 262 278 |
| 83 97 | 70 44 | 20 34 | 21.7 | 69 48 | 19 29 | 20.7 | 68 51 | 18 31 | 19.7 | 67 55 | 17 37 | 18.9 | 66 58 | 16 47 | 18.1 | 66 01 | 16 01 | 17.4 | 263 277 |
| 84 96 | 71 03 | 17 50 | 18.8 | 70 07 | 16 53 | 17.9 | 69 09 | 16 01 | 17.1 | 68 12 | 15 14 | 16.3 | 67 14 | 14 30 | 15.7 | 66 16 | 13 50 | 15.1 | 264 276 |
| 85 95 | 71 20 | 15 01 | 15.8 | 70 23 | 14 12 | 15.0 | 69 25 | 13 28 | 14.3 | 68 26 | 12 48 | 13.7 | 67 28 | 12 10 | 13.1 | 66 29 | 11 36 | 12.6 | 265 275 |
| 86 94 | 71 35 | 12 07 | 12.8 | 70 36 | 11 27 | 12.1 | 69 37 | 10 51 | 11.6 | 68 38 | 10 18 | 11.0 | 67 39 | 9 48 | 10.6 | 66 40 | 9 20 | 10.1 | 266 274 |
| 87 93 | 71 46 | 9 09 | 9.6 | 70 46 | 8 39 | 9.1 | 69 47 | 8 11 | 8.7 | 68 48 | 7 46 | 8.3 | 67 48 | 7 23 | 8.0 | 66 49 | 7 02 | 7.6 | 267 273 |
| 88 92 | 71 54 | 6 08 | 6.4 | 70 54 | 5 47 | 6.1 | 69 54 | 5 29 | 5.8 | 68 55 | 5 12 | 5.6 | 67 55 | 4 56 | 5.3 | 66 55 | 4 42 | 5.1 | 268 272 |
| 89 91 | 71 58 | 3 04 | 3.2 | 70 58 | 2 54 | 3.1 | 69 59 | 2 45 | 2.9 | 68 59 | 2 36 | 2.8 | 67 59 | 2 28 | 2.7 | 66 59 | 2 21 | 2.6 | 269 271 |
| 90 90 | 72 00 | 0 00 | 0.0 | 71 00 | 0 00 | 0.0 | 70 00 | 0 00 | 0.0 | 69 00 | 0 00 | 0.0 | 68 00 | 0 00 | 0.0 | 67 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para $90^\circ < \text{AHL} < 270^\circ$
 Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
 Z₂: (—) para F > 90°

| Lat. / A | 24° | | | 25° | | | 26° | | | 27° | | | 28° | | | 29° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 66 00 | 90 0 | 0 00 | 65 00 | 90 0 | 0 00 | 64 00 | 90 0 | 0 00 | 63 00 | 90 0 | 0 00 | 62 00 | 90 0 | 0 00 | 61 00 | 90 0 | 180 360 |
| 1 179 | 0 55 | 66 00 | 89 6 | 0 54 | 65 00 | 89 6 | 0 54 | 64 00 | 89 6 | 0 53 | 63 00 | 89 5 | 0 53 | 62 00 | 89 5 | 0 52 | 61 00 | 89 5 | 181 359 |
| 2 178 | 1 50 | 65 59 | 89 2 | 1 49 | 64 59 | 89 2 | 1 48 | 63 59 | 89 1 | 1 47 | 62 59 | 89 1 | 1 46 | 61 59 | 89 1 | 1 45 | 60 59 | 89 0 | 182 358 |
| 3 177 | 2 44 | 65 58 | 88 8 | 2 43 | 64 58 | 88 7 | 2 42 | 63 58 | 88 7 | 2 40 | 62 58 | 88 6 | 2 39 | 61 58 | 88 6 | 2 37 | 60 58 | 88 5 | 183 357 |
| 4 176 | 3 39 | 65 57 | 88 3 | 3 37 | 64 57 | 88 3 | 3 36 | 63 57 | 88 2 | 3 34 | 62 57 | 88 2 | 3 32 | 61 57 | 88 1 | 3 30 | 60 56 | 88 1 | 184 356 |
| 5 175 | 4 34 | 65 55 | 88 0 | 4 32 | 64 55 | 87 9 | 4 30 | 63 55 | 87 8 | 4 27 | 62 55 | 87 7 | 4 25 | 61 55 | 87 6 | 4 22 | 60 54 | 87 6 | 185 355 |
| 6 174 | 5 29 | 65 53 | 87 6 | 5 26 | 64 53 | 87 5 | 5 23 | 63 53 | 87 4 | 5 21 | 62 52 | 87 3 | 5 18 | 61 52 | 87 2 | 5 15 | 60 52 | 87 1 | 186 354 |
| 7 173 | 6 24 | 65 50 | 87 1 | 6 20 | 64 50 | 87 0 | 6 17 | 63 50 | 86 9 | 6 14 | 62 50 | 86 8 | 6 11 | 61 49 | 86 7 | 6 07 | 60 49 | 86 6 | 187 353 |
| 8 172 | 7 18 | 65 47 | 86 7 | 7 15 | 64 47 | 86 6 | 7 11 | 63 47 | 86 5 | 7 07 | 62 46 | 86 3 | 7 04 | 61 46 | 86 2 | 6 59 | 60 46 | 86 1 | 188 352 |
| 9 171 | 8 13 | 65 44 | 86 3 | 8 09 | 64 44 | 86 2 | 8 05 | 63 43 | 86 0 | 8 01 | 62 43 | 85 9 | 7 56 | 61 42 | 85 7 | 7 52 | 60 42 | 85 6 | 189 351 |
| 10 170 | 9 08 | 65 40 | 85 9 | 9 03 | 64 40 | 85 7 | 8 59 | 63 39 | 85 6 | 8 54 | 62 39 | 85 4 | 8 49 | 61 38 | 85 3 | 8 44 | 60 38 | 85 1 | 190 350 |
| 11 169 | 10 02 | 65 36 | 85 5 | 9 57 | 64 35 | 85 3 | 9 52 | 63 35 | 85 1 | 9 47 | 62 34 | 85 0 | 9 42 | 61 33 | 84 8 | 9 36 | 60 33 | 84 6 | 191 349 |
| 12 168 | 10 57 | 65 32 | 85 1 | 10 52 | 64 31 | 84 9 | 10 46 | 63 30 | 84 7 | 10 41 | 62 29 | 84 5 | 10 35 | 61 28 | 84 3 | 10 29 | 60 28 | 84 1 | 192 348 |
| 13 167 | 11 52 | 65 27 | 84 6 | 11 46 | 64 26 | 84 4 | 11 40 | 63 25 | 84 2 | 11 34 | 62 24 | 84 0 | 11 27 | 61 23 | 83 8 | 11 21 | 60 22 | 83 6 | 193 347 |
| 14 166 | 12 46 | 65 21 | 84 2 | 12 40 | 64 20 | 84 0 | 12 34 | 63 19 | 83 8 | 12 27 | 62 18 | 83 5 | 12 20 | 61 17 | 83 3 | 12 13 | 60 16 | 83 1 | 194 346 |
| 15 165 | 13 41 | 65 15 | 83 8 | 13 34 | 64 14 | 83 5 | 13 27 | 63 13 | 83 3 | 13 20 | 62 11 | 83 1 | 13 13 | 61 10 | 82 8 | 13 05 | 60 09 | 82 6 | 195 345 |
| 16 164 | 14 35 | 65 09 | 83 3 | 14 28 | 64 07 | 83 1 | 14 21 | 63 06 | 82 8 | 14 13 | 62 04 | 82 6 | 14 05 | 61 03 | 82 3 | 13 57 | 60 02 | 82 1 | 196 344 |
| 17 163 | 15 29 | 65 02 | 82 9 | 15 22 | 64 00 | 82 6 | 15 14 | 62 59 | 82 4 | 15 06 | 61 57 | 82 1 | 14 58 | 60 56 | 81 8 | 14 49 | 59 54 | 81 6 | 197 343 |
| 18 162 | 16 24 | 64 55 | 82 5 | 16 16 | 63 53 | 82 2 | 16 08 | 62 51 | 81 9 | 15 59 | 61 49 | 81 6 | 15 50 | 60 47 | 81 3 | 15 41 | 59 46 | 81 0 | 198 342 |
| 19 161 | 17 18 | 64 47 | 82 0 | 17 10 | 63 45 | 81 7 | 17 01 | 62 43 | 81 4 | 16 52 | 61 41 | 81 1 | 16 42 | 60 39 | 80 8 | 16 33 | 59 37 | 80 5 | 199 341 |
| 20 160 | 18 12 | 64 39 | 81 6 | 18 03 | 63 36 | 81 3 | 17 54 | 62 34 | 80 9 | 17 45 | 61 32 | 80 6 | 17 35 | 60 30 | 80 3 | 17 24 | 59 28 | 80 0 | 200 340 |
| 21 159 | 19 07 | 64 30 | 81 1 | 18 57 | 63 28 | 80 8 | 18 47 | 62 25 | 80 4 | 18 37 | 61 23 | 80 1 | 18 27 | 60 20 | 79 8 | 18 16 | 59 18 | 79 5 | 201 339 |
| 22 158 | 20 01 | 64 21 | 80 7 | 19 51 | 63 18 | 80 3 | 19 41 | 62 15 | 80 0 | 19 30 | 61 13 | 79 6 | 19 19 | 60 10 | 79 3 | 19 08 | 59 08 | 78 9 | 202 338 |
| 23 157 | 20 55 | 64 11 | 80 2 | 20 44 | 63 08 | 79 8 | 20 34 | 62 05 | 79 5 | 20 22 | 61 02 | 79 1 | 20 11 | 59 59 | 78 7 | 19 59 | 58 57 | 78 4 | 203 337 |
| 24 156 | 21 49 | 64 01 | 79 7 | 21 38 | 62 58 | 79 3 | 21 27 | 61 54 | 79 0 | 21 15 | 60 51 | 78 6 | 21 03 | 59 48 | 78 2 | 20 50 | 58 45 | 77 8 | 204 336 |
| 25 155 | 22 43 | 63 50 | 79 3 | 22 31 | 62 46 | 78 9 | 22 19 | 61 43 | 78 4 | 22 07 | 60 39 | 78 0 | 21 55 | 59 36 | 77 7 | 21 42 | 58 33 | 77 3 | 205 335 |
| 26 154 | 23 36 | 63 39 | 78 8 | 23 25 | 62 35 | 78 4 | 23 12 | 61 31 | 77 9 | 22 59 | 60 27 | 77 5 | 22 46 | 59 24 | 77 1 | 22 33 | 58 20 | 76 7 | 206 334 |
| 27 153 | 24 30 | 63 27 | 78 3 | 24 18 | 62 22 | 77 8 | 24 05 | 61 18 | 77 4 | 23 52 | 60 14 | 77 0 | 23 38 | 59 10 | 76 5 | 23 24 | 58 07 | 76 1 | 207 333 |
| 28 152 | 25 24 | 63 14 | 77 8 | 25 11 | 62 10 | 77 3 | 24 57 | 61 05 | 76 9 | 24 44 | 60 01 | 76 4 | 24 29 | 58 57 | 76 0 | 24 15 | 57 53 | 75 5 | 208 332 |
| 29 151 | 26 17 | 63 01 | 77 3 | 26 04 | 61 56 | 76 8 | 25 50 | 60 51 | 76 3 | 25 36 | 59 47 | 75 9 | 25 21 | 58 42 | 75 4 | 25 05 | 57 38 | 75 0 | 209 331 |
| 30 150 | 27 11 | 62 48 | 76 8 | 26 57 | 61 42 | 76 3 | 26 42 | 60 37 | 75 8 | 26 27 | 59 32 | 75 3 | 26 12 | 58 27 | 74 8 | 25 56 | 57 23 | 74 4 | 210 330 |
| 31 149 | 28 04 | 62 33 | 76 3 | 27 50 | 61 27 | 75 8 | 27 35 | 60 22 | 75 2 | 27 19 | 59 16 | 74 7 | 27 03 | 58 11 | 74 2 | 26 46 | 57 07 | 73 8 | 211 329 |
| 32 148 | 28 57 | 62 18 | 75 7 | 28 42 | 61 12 | 75 2 | 28 27 | 60 06 | 74 7 | 28 10 | 59 00 | 74 2 | 27 54 | 57 55 | 73 7 | 27 37 | 56 50 | 73 1 | 212 328 |
| 33 147 | 29 50 | 62 02 | 75 2 | 29 35 | 60 56 | 74 7 | 29 19 | 59 49 | 74 1 | 29 02 | 58 43 | 73 6 | 28 45 | 57 38 | 73 0 | 28 27 | 56 32 | 72 5 | 213 327 |
| 34 146 | 30 43 | 61 46 | 74 7 | 30 27 | 60 39 | 74 1 | 30 10 | 59 32 | 73 5 | 29 53 | 58 26 | 73 0 | 29 35 | 57 20 | 72 4 | 29 17 | 56 14 | 71 9 | 214 326 |
| 35 145 | 31 36 | 61 28 | 74 1 | 31 19 | 60 21 | 73 5 | 31 02 | 59 14 | 72 9 | 30 44 | 58 07 | 72 4 | 30 26 | 57 01 | 71 8 | 30 07 | 55 55 | 71 2 | 215 325 |
| 36 144 | 32 29 | 61 10 | 73 5 | 32 11 | 60 02 | 72 9 | 31 53 | 58 55 | 72 3 | 31 35 | 57 48 | 71 7 | 31 16 | 56 41 | 71 2 | 30 56 | 55 35 | 70 6 | 216 324 |
| 37 143 | 33 21 | 60 52 | 73 0 | 33 03 | 59 43 | 72 3 | 32 45 | 58 35 | 71 7 | 32 26 | 57 28 | 71 1 | 32 06 | 56 21 | 70 5 | 31 46 | 55 14 | 69 9 | 217 323 |
| 38 142 | 34 13 | 60 32 | 72 4 | 33 55 | 59 23 | 71 7 | 33 36 | 58 15 | 71 1 | 33 16 | 57 07 | 70 5 | 32 56 | 55 59 | 69 9 | 32 35 | 54 53 | 69 3 | 218 322 |
| 39 141 | 35 06 | 60 11 | 71 8 | 34 47 | 59 02 | 71 1 | 34 27 | 57 53 | 70 5 | 34 06 | 56 45 | 69 8 | 33 45 | 55 37 | 69 2 | 33 24 | 54 30 | 68 6 | 219 321 |
| 40 140 | 35 58 | 59 50 | 71 2 | 35 38 | 58 40 | 70 5 | 35 17 | 57 31 | 69 8 | 34 56 | 56 22 | 69 1 | 34 35 | 55 14 | 68 5 | 34 12 | 54 07 | 67 9 | 220 320 |
| 41 139 | 36 49 | 59 28 | 70 5 | 36 29 | 58 17 | 69 8 | 36 08 | 57 08 | 69 1 | 35 46 | 55 59 | 68 5 | 35 24 | 54 50 | 67 8 | 35 01 | 53 42 | 67 1 | 221 319 |
| 42 138 | 37 41 | 59 04 | 69 9 | 37 20 | 57 54 | 69 2 | 36 58 | 56 43 | 68 5 | 36 36 | 55 34 | 67 8 | 36 13 | 54 25 | 67 1 | 35 49 | 53 17 | 66 4 | 222 318 |
| 43 137 | 38 32 | 58 40 | 69 2 | 38 11 | 57 29 | 68 5 | 37 48 | 56 18 | 67 8 | 37 25 | 55 08 | 67 1 | 37 02 | 53 59 | 66 4 | 36 37 | 52 50 | 65 7 | 223 317 |
| 44 136 | 39 23 | 58 15 | 68 6 | 39 01 | 57 03 | 67 8 | 38 38 | 55 52 | 67 1 | 38 14 | 54 41 | 66 3 | 37 50 | 53 32 | 65 6 | 37 25 | 52 23 | 64 9 | 224 316 |
| 45 135 | 40 14 | 57 48 | 67 9 | 39 51 | 56 36 | 67 1 | 39 28 | 55 24 | 66 3 | 39 03 | 54 13 | 65 6 | 38 38 | 53 04 | 64 9 | 38 12 | 51 54 | 64 1 | 225 315 |

LATITUD / A: 24° - 29°

| Lat. / A | 24° | | | 25° | | | 26° | | | 27° | | | 28° | | | 29° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 40 14 | 57 48 | 67.9 | 39 51 | 56 36 | 67.1 | 39 28 | 55 24 | 66.3 | 39 03 | 54 13 | 65.6 | 38 38 | 53 04 | 64.9 | 38 12 | 51 54 | 64.1 | 225 315 |
| 46 134 | 41 05 | 57 21 | 67.2 | 40 41 | 56 08 | 66.4 | 40 17 | 54 56 | 65.6 | 39 52 | 53 44 | 64.8 | 39 26 | 52 34 | 64.1 | 38 59 | 51 25 | 63.3 | 226 314 |
| 47 133 | 41 55 | 56 52 | 66.4 | 41 31 | 55 38 | 65.6 | 41 06 | 54 26 | 64.8 | 40 40 | 53 14 | 64.0 | 40 13 | 52 04 | 63.3 | 39 46 | 50 54 | 62.5 | 227 313 |
| 48 132 | 42 45 | 56 22 | 65.7 | 42 20 | 55 08 | 64.9 | 41 54 | 53 55 | 64.0 | 41 28 | 52 43 | 63.2 | 41 00 | 51 32 | 62.5 | 40 32 | 50 22 | 61.7 | 228 312 |
| 49 131 | 43 35 | 55 50 | 64.9 | 43 09 | 54 36 | 64.1 | 42 43 | 53 22 | 63.2 | 42 15 | 52 10 | 62.4 | 41 47 | 50 59 | 61.6 | 41 18 | 49 48 | 60.9 | 229 311 |
| 50 130 | 44 25 | 55 17 | 64.1 | 43 58 | 54 02 | 63.3 | 43 31 | 52 49 | 62.4 | 43 03 | 51 36 | 61.6 | 42 34 | 50 24 | 60.8 | 42 04 | 49 14 | 60.0 | 230 310 |
| 51 129 | 45 14 | 54 43 | 63.3 | 44 47 | 53 28 | 62.4 | 44 18 | 52 13 | 61.6 | 43 49 | 51 00 | 60.7 | 43 20 | 49 48 | 59.9 | 42 49 | 48 38 | 59.1 | 231 309 |
| 52 128 | 46 03 | 54 08 | 62.5 | 45 35 | 52 52 | 61.6 | 45 06 | 51 37 | 60.7 | 44 36 | 50 23 | 59.8 | 44 05 | 49 11 | 59.0 | 43 34 | 48 00 | 58.2 | 232 308 |
| 53 127 | 46 51 | 53 30 | 61.6 | 46 22 | 52 14 | 60.7 | 45 52 | 50 59 | 59.8 | 45 22 | 49 45 | 58.9 | 44 51 | 48 32 | 58.1 | 44 18 | 47 21 | 57.2 | 233 307 |
| 54 126 | 47 39 | 52 51 | 60.8 | 47 09 | 51 34 | 59.8 | 46 39 | 50 19 | 58.9 | 46 07 | 49 05 | 58.0 | 45 35 | 47 52 | 57.1 | 45 02 | 46 41 | 56.3 | 234 306 |
| 55 125 | 48 27 | 52 11 | 59.8 | 47 56 | 50 53 | 58.9 | 47 25 | 49 37 | 58.0 | 46 53 | 48 23 | 57.0 | 46 19 | 47 10 | 56.2 | 45 46 | 45 59 | 55.3 | 235 305 |
| 56 124 | 49 14 | 51 28 | 58.9 | 48 43 | 50 11 | 57.9 | 48 10 | 48 54 | 57.0 | 47 37 | 47 40 | 56.1 | 47 03 | 46 27 | 55.2 | 46 29 | 45 15 | 54.3 | 236 304 |
| 57 123 | 50 01 | 50 44 | 57.9 | 49 28 | 49 26 | 56.9 | 48 55 | 48 09 | 56.0 | 48 21 | 46 54 | 55.0 | 47 46 | 45 41 | 54.1 | 47 11 | 44 30 | 53.3 | 237 303 |
| 58 122 | 50 47 | 49 58 | 56.9 | 50 14 | 48 39 | 55.9 | 49 40 | 47 22 | 54.9 | 49 05 | 46 07 | 54.0 | 48 29 | 44 54 | 53.1 | 47 53 | 43 43 | 52.2 | 238 302 |
| 59 121 | 51 33 | 49 09 | 55.9 | 50 58 | 47 51 | 54.9 | 50 23 | 46 34 | 53.9 | 49 48 | 45 18 | 52.9 | 49 11 | 44 05 | 52.0 | 48 34 | 42 54 | 51.1 | 239 301 |
| 60 120 | 52 18 | 48 19 | 54.8 | 51 43 | 47 00 | 53.8 | 51 07 | 45 43 | 52.8 | 50 30 | 44 28 | 51.8 | 49 53 | 43 14 | 50.9 | 49 14 | 42 03 | 50.0 | 240 300 |
| 61 119 | 53 02 | 47 26 | 53.7 | 52 26 | 46 07 | 52.7 | 51 49 | 44 50 | 51.7 | 51 12 | 43 35 | 50.7 | 50 33 | 42 22 | 49.7 | 49 54 | 41 10 | 48.8 | 241 299 |
| 62 118 | 53 46 | 46 31 | 52.6 | 53 09 | 45 12 | 51.5 | 52 31 | 43 54 | 50.5 | 51 53 | 42 39 | 49.5 | 51 13 | 41 27 | 48.6 | 50 33 | 40 16 | 47.6 | 242 298 |
| 63 117 | 54 29 | 45 33 | 51.4 | 53 51 | 44 14 | 50.3 | 53 13 | 42 57 | 49.3 | 52 33 | 41 42 | 48.3 | 51 53 | 40 30 | 47.3 | 51 12 | 39 19 | 46.4 | 243 297 |
| 64 116 | 55 12 | 44 33 | 50.2 | 54 33 | 43 14 | 49.1 | 53 53 | 41 57 | 48.1 | 53 13 | 40 42 | 47.1 | 52 31 | 39 30 | 46.1 | 51 49 | 38 20 | 45.2 | 244 296 |
| 65 115 | 55 53 | 43 30 | 48.9 | 55 13 | 42 11 | 47.8 | 54 33 | 40 55 | 46.8 | 53 51 | 39 40 | 45.8 | 53 09 | 38 29 | 44.8 | 52 26 | 37 19 | 43.9 | 245 295 |
| 66 114 | 56 34 | 42 25 | 47.6 | 55 53 | 41 06 | 46.5 | 55 12 | 39 50 | 45.4 | 54 29 | 38 36 | 44.4 | 53 46 | 37 25 | 43.5 | 53 02 | 36 16 | 42.6 | 246 294 |
| 67 113 | 57 14 | 41 16 | 46.2 | 56 32 | 39 58 | 45.1 | 55 50 | 38 42 | 44.1 | 55 06 | 37 29 | 43.1 | 54 22 | 36 19 | 42.1 | 53 37 | 35 11 | 41.2 | 247 293 |
| 68 112 | 57 53 | 40 05 | 44.8 | 57 10 | 38 47 | 43.7 | 56 27 | 37 32 | 42.7 | 55 42 | 36 19 | 41.7 | 54 57 | 35 10 | 40.7 | 54 11 | 34 03 | 39.8 | 248 292 |
| 69 111 | 58 32 | 38 50 | 43.3 | 57 47 | 37 33 | 42.2 | 57 03 | 36 18 | 41.2 | 56 17 | 35 07 | 40.2 | 55 31 | 33 59 | 39.3 | 54 44 | 32 53 | 38.4 | 249 291 |
| 70 110 | 59 09 | 37 32 | 41.8 | 58 23 | 36 16 | 40.7 | 57 38 | 35 02 | 39.7 | 56 51 | 33 52 | 38.7 | 56 04 | 32 45 | 37.8 | 55 16 | 31 41 | 36.9 | 250 290 |
| 71 109 | 59 45 | 36 11 | 40.2 | 58 58 | 34 55 | 39.2 | 58 12 | 33 43 | 38.1 | 57 24 | 32 35 | 37.2 | 56 36 | 31 29 | 36.3 | 55 47 | 30 26 | 35.4 | 251 289 |
| 72 108 | 60 19 | 34 46 | 38.6 | 59 32 | 33 32 | 37.6 | 58 44 | 32 21 | 36.5 | 57 56 | 31 14 | 35.6 | 57 07 | 30 10 | 34.7 | 56 17 | 29 08 | 33.8 | 252 288 |
| 73 107 | 60 53 | 33 18 | 36.9 | 60 05 | 32 05 | 35.9 | 59 16 | 30 56 | 34.9 | 58 26 | 29 51 | 34.0 | 57 36 | 28 48 | 33.1 | 56 46 | 27 49 | 32.2 | 253 287 |
| 74 106 | 61 25 | 31 46 | 35.2 | 60 36 | 30 35 | 34.2 | 59 46 | 29 28 | 33.2 | 58 55 | 28 25 | 32.3 | 58 05 | 27 24 | 31.4 | 57 13 | 26 26 | 30.6 | 254 286 |
| 75 105 | 61 56 | 30 10 | 33.4 | 61 06 | 29 02 | 32.4 | 60 15 | 27 57 | 31.4 | 59 23 | 26 56 | 30.5 | 58 31 | 25 57 | 29.7 | 57 39 | 25 02 | 28.9 | 255 285 |
| 76 104 | 62 26 | 28 31 | 31.5 | 61 34 | 27 25 | 30.5 | 60 42 | 26 23 | 29.6 | 59 50 | 25 24 | 28.8 | 58 57 | 24 28 | 28.0 | 58 04 | 23 35 | 27.2 | 256 284 |
| 77 103 | 62 53 | 26 48 | 29.6 | 62 01 | 25 45 | 28.6 | 61 08 | 24 46 | 27.8 | 60 15 | 23 49 | 27.0 | 59 21 | 22 56 | 26.2 | 58 27 | 22 05 | 25.5 | 257 283 |
| 78 102 | 63 20 | 25 02 | 27.6 | 62 26 | 24 02 | 26.7 | 61 32 | 23 05 | 25.9 | 60 38 | 22 12 | 25.1 | 59 44 | 21 21 | 24.4 | 58 49 | 20 34 | 23.7 | 258 282 |
| 79 101 | 63 44 | 23 12 | 25.5 | 62 50 | 22 15 | 24.7 | 61 55 | 21 22 | 23.9 | 61 00 | 20 32 | 23.2 | 60 05 | 19 44 | 22.5 | 59 09 | 19 00 | 21.8 | 259 281 |
| 80 100 | 64 07 | 21 18 | 23.4 | 63 12 | 20 25 | 22.6 | 62 16 | 19 36 | 21.9 | 61 20 | 18 49 | 21.2 | 60 24 | 18 05 | 20.6 | 59 28 | 17 24 | 20.0 | 260 280 |
| 81 99 | 64 28 | 19 22 | 21.3 | 63 32 | 18 33 | 20.5 | 62 35 | 17 47 | 19.9 | 61 39 | 17 04 | 19.2 | 60 42 | 16 24 | 18.6 | 59 45 | 15 46 | 18.1 | 261 279 |
| 82 98 | 64 47 | 17 22 | 19.1 | 63 50 | 16 37 | 18.4 | 62 53 | 15 56 | 17.8 | 61 56 | 15 17 | 17.2 | 60 58 | 14 40 | 16.7 | 60 01 | 14 06 | 16.2 | 262 278 |
| 83 97 | 65 03 | 15 18 | 16.8 | 64 06 | 14 39 | 16.2 | 63 08 | 14 02 | 15.6 | 62 10 | 13 27 | 15.1 | 61 12 | 12 55 | 14.7 | 60 14 | 12 24 | 14.2 | 263 277 |
| 84 96 | 65 18 | 13 13 | 14.5 | 64 20 | 12 38 | 14.0 | 63 22 | 12 06 | 13.5 | 62 23 | 11 36 | 13.0 | 61 25 | 11 07 | 12.6 | 60 26 | 10 41 | 12.2 | 264 276 |
| 85 95 | 65 31 | 11 05 | 12.1 | 64 32 | 10 35 | 11.7 | 63 33 | 10 08 | 11.3 | 62 35 | 9 42 | 10.9 | 61 36 | 9 19 | 10.6 | 60 37 | 8 56 | 10.2 | 265 275 |
| 86 94 | 65 41 | 8 54 | 9.8 | 64 42 | 8 30 | 9.4 | 63 43 | 8 08 | 9.1 | 62 44 | 7 48 | 8.8 | 61 44 | 7 28 | 8.5 | 60 45 | 7 10 | 8.2 | 266 274 |
| 87 93 | 65 49 | 6 42 | 7.3 | 64 50 | 6 24 | 7.1 | 63 50 | 6 07 | 6.8 | 62 51 | 5 52 | 6.6 | 61 51 | 5 37 | 6.4 | 60 52 | 5 24 | 6.2 | 267 273 |
| 88 92 | 65 55 | 4 29 | 4.9 | 64 56 | 4 17 | 4.7 | 63 56 | 4 06 | 4.6 | 62 56 | 3 55 | 4.4 | 61 56 | 3 45 | 4.3 | 60 56 | 3 36 | 4.1 | 268 272 |
| 89 91 | 65 59 | 2 15 | 2.5 | 64 59 | 2 09 | 2.4 | 63 59 | 2 03 | 2.3 | 62 59 | 1 58 | 2.2 | 61 59 | 1 53 | 2.1 | 60 59 | 1 48 | 2.1 | 269 271 |
| 90 90 | 66 00 | 0 00 | 0.0 | 65 00 | 0 00 | 0.0 | 64 00 | 0 00 | 0.0 | 63 00 | 0 00 | 0.0 | 62 00 | 0 00 | 0.0 | 61 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para 90° < AHL < 270°

Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
Z₂: (—) para F > 90°

| Lat. / A | 30° | | | 31° | | | 32° | | | 33° | | | 34° | | | 35° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 60 00 | 90 00 | 0 00 | 59 00 | 90 00 | 0 00 | 58 00 | 90 00 | 0 00 | 57 00 | 90 00 | 0 00 | 56 00 | 90 00 | 0 00 | 55 00 | 90 00 | 180 360 |
| 1 179 | 0 52 | 60 00 | 89 50 | 0 51 | 59 00 | 89 50 | 0 51 | 58 00 | 89 50 | 0 50 | 57 00 | 89 50 | 0 50 | 56 00 | 89 40 | 0 49 | 55 00 | 89 40 | 181 359 |
| 2 178 | 1 44 | 59 59 | 89 00 | 1 43 | 58 59 | 89 00 | 1 42 | 57 59 | 88 90 | 1 41 | 56 59 | 88 90 | 1 39 | 55 59 | 88 90 | 1 38 | 54 59 | 88 90 | 182 358 |
| 3 177 | 2 36 | 59 58 | 88 50 | 2 34 | 58 58 | 88 50 | 2 33 | 57 58 | 88 40 | 2 31 | 56 58 | 88 40 | 2 29 | 55 58 | 88 30 | 2 27 | 54 58 | 88 30 | 183 357 |
| 4 176 | 3 28 | 59 56 | 88 00 | 3 26 | 58 56 | 87 90 | 3 23 | 57 56 | 87 90 | 3 21 | 56 56 | 87 80 | 3 19 | 55 56 | 87 80 | 3 17 | 54 56 | 87 70 | 184 356 |
| 5 175 | 4 20 | 59 54 | 87 50 | 4 17 | 58 54 | 87 40 | 4 14 | 57 54 | 87 30 | 4 12 | 56 54 | 87 30 | 4 09 | 55 54 | 87 20 | 4 06 | 54 54 | 87 10 | 185 355 |
| 6 174 | 5 12 | 59 52 | 87 00 | 5 08 | 58 52 | 86 90 | 5 05 | 57 52 | 86 80 | 5 02 | 56 51 | 86 70 | 4 58 | 55 51 | 86 60 | 4 55 | 54 51 | 86 60 | 186 354 |
| 7 173 | 6 04 | 59 49 | 86 50 | 6 00 | 58 49 | 86 40 | 5 56 | 57 48 | 86 30 | 5 52 | 56 48 | 86 20 | 5 48 | 55 48 | 86 10 | 5 44 | 54 48 | 86 00 | 187 353 |
| 8 172 | 6 55 | 59 45 | 86 00 | 6 51 | 58 45 | 85 90 | 6 47 | 57 45 | 85 70 | 6 42 | 56 45 | 85 60 | 6 38 | 55 44 | 85 50 | 6 33 | 54 44 | 85 40 | 188 352 |
| 9 171 | 7 47 | 59 42 | 85 50 | 7 42 | 58 41 | 85 30 | 7 37 | 57 41 | 85 20 | 7 32 | 56 40 | 85 10 | 7 27 | 55 40 | 84 90 | 7 22 | 54 40 | 84 80 | 189 351 |
| 10 170 | 8 39 | 59 37 | 85 00 | 8 34 | 58 37 | 84 80 | 8 28 | 57 36 | 84 70 | 8 22 | 56 36 | 84 50 | 8 17 | 55 36 | 84 40 | 8 11 | 54 35 | 84 20 | 190 350 |
| 11 169 | 9 31 | 59 32 | 84 40 | 9 25 | 58 32 | 84 30 | 9 19 | 57 31 | 84 10 | 9 13 | 56 31 | 84 00 | 9 06 | 55 30 | 83 80 | 9 00 | 54 30 | 83 60 | 191 349 |
| 12 168 | 10 22 | 59 27 | 83 90 | 10 16 | 58 26 | 83 80 | 10 09 | 57 26 | 83 60 | 10 03 | 56 25 | 83 40 | 9 56 | 55 25 | 83 20 | 9 48 | 54 24 | 83 00 | 192 348 |
| 13 167 | 11 14 | 59 21 | 83 40 | 11 07 | 58 20 | 83 20 | 11 00 | 57 20 | 83 00 | 10 52 | 56 19 | 82 80 | 10 45 | 55 18 | 82 60 | 10 37 | 54 18 | 82 50 | 193 347 |
| 14 166 | 12 06 | 59 15 | 82 90 | 11 58 | 58 14 | 82 70 | 11 50 | 57 13 | 82 50 | 11 42 | 56 12 | 82 30 | 11 34 | 55 12 | 82 10 | 11 26 | 54 11 | 81 90 | 194 346 |
| 15 165 | 12 57 | 59 08 | 82 40 | 12 49 | 58 07 | 82 10 | 12 41 | 57 06 | 81 90 | 12 32 | 56 05 | 81 70 | 12 23 | 55 04 | 81 50 | 12 14 | 54 04 | 81 30 | 195 345 |
| 16 164 | 13 49 | 59 01 | 81 80 | 13 40 | 57 59 | 81 60 | 13 31 | 56 58 | 81 40 | 13 22 | 55 57 | 81 10 | 13 13 | 54 57 | 80 90 | 13 03 | 53 56 | 80 70 | 196 344 |
| 17 163 | 14 40 | 58 53 | 81 30 | 14 31 | 57 51 | 81 10 | 14 21 | 56 50 | 80 80 | 14 12 | 55 49 | 80 50 | 14 02 | 54 48 | 80 30 | 13 51 | 53 47 | 80 10 | 197 343 |
| 18 162 | 15 31 | 58 44 | 80 80 | 15 22 | 57 43 | 80 50 | 15 12 | 56 42 | 80 20 | 15 01 | 55 40 | 80 00 | 14 51 | 54 39 | 79 90 | 14 40 | 53 38 | 79 40 | 198 342 |
| 19 161 | 16 23 | 58 35 | 80 20 | 16 12 | 57 34 | 79 90 | 16 02 | 56 32 | 79 70 | 15 51 | 55 31 | 79 40 | 15 40 | 54 30 | 79 10 | 15 28 | 53 29 | 78 80 | 199 341 |
| 20 160 | 17 14 | 58 26 | 79 70 | 17 03 | 57 24 | 79 40 | 16 52 | 56 23 | 79 10 | 16 40 | 55 21 | 78 80 | 16 28 | 54 20 | 78 50 | 16 16 | 53 19 | 78 20 | 200 340 |
| 21 159 | 18 05 | 58 16 | 79 10 | 17 53 | 57 14 | 78 80 | 17 42 | 56 12 | 78 50 | 17 29 | 55 11 | 78 20 | 17 17 | 54 09 | 77 90 | 17 04 | 53 08 | 77 60 | 201 339 |
| 22 158 | 18 56 | 58 05 | 78 60 | 18 44 | 57 03 | 78 20 | 18 31 | 56 01 | 77 90 | 18 19 | 55 00 | 77 60 | 18 06 | 53 58 | 77 30 | 17 52 | 52 56 | 77 00 | 202 338 |
| 23 157 | 19 47 | 57 54 | 78 00 | 19 34 | 56 52 | 77 70 | 19 21 | 55 50 | 77 30 | 19 08 | 54 48 | 77 00 | 18 54 | 53 46 | 76 60 | 18 40 | 52 44 | 76 30 | 203 337 |
| 24 156 | 20 37 | 57 42 | 77 40 | 20 24 | 56 40 | 77 10 | 20 11 | 55 38 | 76 70 | 19 57 | 54 36 | 76 40 | 19 42 | 53 34 | 76 00 | 19 28 | 52 32 | 75 70 | 204 336 |
| 25 155 | 21 28 | 57 30 | 76 90 | 21 14 | 56 27 | 76 50 | 21 00 | 55 25 | 76 10 | 20 46 | 54 23 | 75 70 | 20 31 | 53 21 | 75 40 | 20 15 | 52 19 | 75 00 | 205 335 |
| 26 154 | 22 19 | 57 17 | 76 20 | 22 04 | 56 14 | 75 90 | 21 49 | 55 12 | 75 50 | 21 34 | 54 09 | 75 10 | 21 19 | 53 07 | 74 70 | 21 03 | 52 05 | 74 40 | 206 334 |
| 27 153 | 23 09 | 57 03 | 75 70 | 22 54 | 56 00 | 75 30 | 22 39 | 54 57 | 74 90 | 22 23 | 53 55 | 74 50 | 22 07 | 52 52 | 74 10 | 21 50 | 51 50 | 73 70 | 207 333 |
| 28 152 | 23 59 | 56 49 | 75 10 | 23 44 | 55 46 | 74 70 | 23 28 | 54 43 | 74 30 | 23 11 | 53 40 | 73 80 | 22 54 | 52 37 | 73 40 | 22 37 | 51 35 | 73 00 | 208 332 |
| 29 151 | 24 50 | 56 34 | 74 50 | 24 33 | 55 31 | 74 10 | 24 17 | 54 27 | 73 60 | 23 59 | 53 24 | 73 20 | 23 42 | 52 22 | 72 80 | 23 24 | 51 19 | 72 40 | 209 331 |
| 30 150 | 25 40 | 56 19 | 73 90 | 25 23 | 55 15 | 73 40 | 25 05 | 54 11 | 73 00 | 24 48 | 53 08 | 72 50 | 24 29 | 52 05 | 72 10 | 24 11 | 51 03 | 71 70 | 210 330 |
| 31 149 | 26 29 | 56 02 | 73 30 | 26 12 | 54 58 | 72 80 | 25 54 | 53 54 | 72 30 | 25 35 | 52 51 | 71 90 | 25 17 | 51 48 | 71 40 | 24 57 | 50 45 | 71 00 | 211 329 |
| 32 148 | 27 19 | 55 45 | 72 60 | 27 01 | 54 41 | 72 20 | 26 42 | 53 37 | 71 70 | 26 23 | 52 33 | 71 20 | 26 04 | 51 30 | 70 70 | 25 44 | 50 27 | 70 30 | 212 328 |
| 33 147 | 28 09 | 55 27 | 72 00 | 27 50 | 54 23 | 71 50 | 27 31 | 53 19 | 71 00 | 27 11 | 52 15 | 70 50 | 26 50 | 51 12 | 70 00 | 26 30 | 50 08 | 69 60 | 213 327 |
| 34 146 | 28 58 | 55 09 | 71 40 | 28 38 | 54 04 | 70 80 | 28 19 | 53 00 | 70 30 | 27 58 | 51 56 | 69 80 | 27 37 | 50 52 | 69 30 | 27 16 | 49 49 | 68 80 | 214 326 |
| 35 145 | 29 47 | 54 49 | 70 70 | 29 27 | 53 44 | 70 20 | 29 06 | 52 40 | 69 60 | 28 45 | 51 36 | 69 10 | 28 24 | 50 32 | 68 60 | 28 01 | 49 29 | 68 10 | 215 325 |
| 36 144 | 30 36 | 54 29 | 70 00 | 30 15 | 53 24 | 69 50 | 29 54 | 52 19 | 68 90 | 29 32 | 51 15 | 68 40 | 29 10 | 50 11 | 67 90 | 28 47 | 49 07 | 67 40 | 216 324 |
| 37 143 | 31 25 | 54 08 | 69 40 | 31 03 | 53 03 | 68 80 | 30 41 | 51 58 | 68 20 | 30 19 | 50 53 | 67 70 | 29 56 | 49 49 | 67 20 | 29 32 | 48 45 | 66 60 | 217 323 |
| 38 142 | 32 13 | 53 46 | 68 70 | 31 51 | 52 40 | 68 10 | 31 28 | 51 35 | 67 50 | 31 05 | 50 30 | 66 90 | 30 41 | 49 26 | 66 40 | 30 17 | 48 23 | 65 90 | 218 322 |
| 39 141 | 33 02 | 53 23 | 68 00 | 32 39 | 52 17 | 67 40 | 32 15 | 51 12 | 66 80 | 31 51 | 50 07 | 66 20 | 31 27 | 49 03 | 65 60 | 31 02 | 47 59 | 65 10 | 219 321 |
| 40 140 | 33 50 | 53 00 | 67 20 | 33 26 | 51 53 | 66 60 | 33 02 | 50 48 | 66 00 | 32 37 | 49 43 | 65 40 | 32 12 | 48 38 | 64 90 | 31 46 | 47 34 | 64 30 | 220 320 |
| 41 139 | 34 37 | 52 35 | 66 50 | 34 13 | 51 29 | 65 90 | 33 48 | 50 23 | 65 30 | 33 23 | 49 17 | 64 70 | 32 57 | 48 13 | 64 10 | 32 30 | 47 09 | 63 50 | 221 319 |
| 42 138 | 35 25 | 52 09 | 65 80 | 35 00 | 51 03 | 65 10 | 34 34 | 49 56 | 64 50 | 34 08 | 48 51 | 63 90 | 33 42 | 47 46 | 63 30 | 33 14 | 46 42 | 62 70 | 222 318 |
| 43 137 | 36 12 | 51 43 | 65 00 | 35 46 | 50 36 | 64 30 | 35 20 | 49 29 | 63 70 | 34 53 | 48 24 | 63 30 | 34 26 | 47 19 | 62 50 | 33 58 | 46 15 | 61 90 | 223 317 |
| 44 136 | 36 59 | 51 15 | 64 20 | 36 33 | 50 08 | 63 60 | 36 06 | 49 01 | 62 90 | 35 38 | 47 55 | 62 30 | 35 10 | 46 51 | 61 60 | 34 41 | 45 46 | 61 00 | 224 316 |
| 45 135 | 37 46 | 50 46 | 63 40 | 37 19 | 49 39 | 62 70 | 36 51 | 48 32 | 62 10 | 36 22 | 47 26 | 61 40 | 35 53 | 46 21 | 60 80 | 35 24 | 45 17 | 60 20 | 225 315 |

LATITUD / A: 30° - 35°

| Lat. / A | 30° | | | 31° | | | 32° | | | 33° | | | 34° | | | 35° | | | Lat. / A | | |
|----------|-----|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|----------|-----|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | |
| 45 | 135 | 37 46 | 50 46 | 63.4 | 37 19 | 49 39 | 62.7 | 36 51 | 48 32 | 62.1 | 36 22 | 47 26 | 61.4 | 35 53 | 46 21 | 60.8 | 35 24 | 45 17 | 60.2 | 225 | 315 |
| 46 | 134 | 38 32 | 50 16 | 62.6 | 38 04 | 49 08 | 61.9 | 37 36 | 48 02 | 61.2 | 37 06 | 46 56 | 60.6 | 36 37 | 45 51 | 59.9 | 36 06 | 44 46 | 59.3 | 226 | 314 |
| 47 | 133 | 39 18 | 49 45 | 61.8 | 38 49 | 48 37 | 61.1 | 38 20 | 47 30 | 60.4 | 37 50 | 46 24 | 59.7 | 37 19 | 45 19 | 59.1 | 36 48 | 44 15 | 58.4 | 227 | 313 |
| 48 | 132 | 40 04 | 49 13 | 61.0 | 39 34 | 48 05 | 60.2 | 39 04 | 46 58 | 59.5 | 38 33 | 45 51 | 58.8 | 38 02 | 44 46 | 58.2 | 37 30 | 43 42 | 57.5 | 228 | 312 |
| 49 | 131 | 40 49 | 48 39 | 60.1 | 40 19 | 47 31 | 59.4 | 39 48 | 46 24 | 58.6 | 39 16 | 45 18 | 57.9 | 38 44 | 44 12 | 57.2 | 38 11 | 43 08 | 56.6 | 229 | 311 |
| 50 | 130 | 41 34 | 48 04 | 59.2 | 41 03 | 46 56 | 58.5 | 40 31 | 45 49 | 57.7 | 39 59 | 44 42 | 57.0 | 39 26 | 43 37 | 56.3 | 38 52 | 42 33 | 55.6 | 230 | 310 |
| 51 | 129 | 42 18 | 47 28 | 58.3 | 41 46 | 46 20 | 57.5 | 41 14 | 45 12 | 56.8 | 40 41 | 44 06 | 56.1 | 40 07 | 43 01 | 55.4 | 39 32 | 41 57 | 54.7 | 231 | 309 |
| 52 | 128 | 43 02 | 46 50 | 57.4 | 42 29 | 45 42 | 56.6 | 41 56 | 44 34 | 55.9 | 41 22 | 43 28 | 55.1 | 40 47 | 42 23 | 54.4 | 40 12 | 41 19 | 53.7 | 232 | 308 |
| 53 | 127 | 43 46 | 46 11 | 56.4 | 43 12 | 45 03 | 55.6 | 42 38 | 43 55 | 54.9 | 42 03 | 42 49 | 54.1 | 41 28 | 41 44 | 53.4 | 40 52 | 40 41 | 52.7 | 233 | 307 |
| 54 | 126 | 44 29 | 45 31 | 55.5 | 43 54 | 44 22 | 54.7 | 43 19 | 43 15 | 53.9 | 42 44 | 42 09 | 53.1 | 42 07 | 41 04 | 52.4 | 41 30 | 40 01 | 51.7 | 234 | 306 |
| 55 | 125 | 45 11 | 44 49 | 54.5 | 44 36 | 43 40 | 53.7 | 44 00 | 42 33 | 52.9 | 43 24 | 41 27 | 52.1 | 42 46 | 40 23 | 51.4 | 42 09 | 39 19 | 50.7 | 235 | 305 |
| 56 | 124 | 45 53 | 44 05 | 53.5 | 45 17 | 42 57 | 52.6 | 44 40 | 41 50 | 51.8 | 44 03 | 40 44 | 51.1 | 43 25 | 39 40 | 50.3 | 42 46 | 38 37 | 49.6 | 236 | 304 |
| 57 | 123 | 46 35 | 43 20 | 52.4 | 45 58 | 42 11 | 51.6 | 45 20 | 41 05 | 50.8 | 44 42 | 39 59 | 50.0 | 44 03 | 38 55 | 49.3 | 43 24 | 37 53 | 48.5 | 237 | 303 |
| 58 | 122 | 47 16 | 42 33 | 51.3 | 46 38 | 41 25 | 50.5 | 45 59 | 40 18 | 49.7 | 45 20 | 39 13 | 48.9 | 44 40 | 38 09 | 48.2 | 44 00 | 37 07 | 47.5 | 238 | 302 |
| 59 | 121 | 47 56 | 41 44 | 50.2 | 47 17 | 40 36 | 49.4 | 46 38 | 39 30 | 48.6 | 45 58 | 38 25 | 47.8 | 45 17 | 37 22 | 47.1 | 44 36 | 36 20 | 46.3 | 239 | 301 |
| 60 | 120 | 48 35 | 40 54 | 49.1 | 47 56 | 39 46 | 48.3 | 47 16 | 38 40 | 47.5 | 46 35 | 37 36 | 46.7 | 45 53 | 36 33 | 45.9 | 45 11 | 35 32 | 45.2 | 240 | 300 |
| 61 | 119 | 49 14 | 40 01 | 47.9 | 48 34 | 38 54 | 47.1 | 47 53 | 37 48 | 46.3 | 47 11 | 36 45 | 45.5 | 46 29 | 35 42 | 44.7 | 45 46 | 34 42 | 44.0 | 241 | 299 |
| 62 | 118 | 49 53 | 39 07 | 46.8 | 49 11 | 38 00 | 45.9 | 48 29 | 36 55 | 45.1 | 47 46 | 35 52 | 44.3 | 47 03 | 34 50 | 43.6 | 46 19 | 33 50 | 42.8 | 242 | 298 |
| 63 | 117 | 50 30 | 38 11 | 45.5 | 49 48 | 37 04 | 44.7 | 49 05 | 36 00 | 43.9 | 48 21 | 34 57 | 43.1 | 47 37 | 33 57 | 42.3 | 46 53 | 32 57 | 41.6 | 243 | 297 |
| 64 | 116 | 51 07 | 37 13 | 44.3 | 50 23 | 36 07 | 43.4 | 49 40 | 35 03 | 42.6 | 48 55 | 34 01 | 41.8 | 48 10 | 33 01 | 41.1 | 47 25 | 32 03 | 40.4 | 244 | 296 |
| 65 | 115 | 51 43 | 36 12 | 43.0 | 50 58 | 35 07 | 42.2 | 50 14 | 34 04 | 41.3 | 49 28 | 33 03 | 40.6 | 48 43 | 32 04 | 39.8 | 47 56 | 31 07 | 39.1 | 245 | 295 |
| 66 | 114 | 52 18 | 35 10 | 41.7 | 51 33 | 34 06 | 40.8 | 50 47 | 33 04 | 40.0 | 50 01 | 32 04 | 39.3 | 49 14 | 31 05 | 38.5 | 48 27 | 30 09 | 37.8 | 246 | 294 |
| 67 | 113 | 52 52 | 34 05 | 40.3 | 52 06 | 33 02 | 39.5 | 51 19 | 32 01 | 38.7 | 50 32 | 31 02 | 37.9 | 49 44 | 30 05 | 37.2 | 48 56 | 29 10 | 36.5 | 247 | 293 |
| 68 | 112 | 53 25 | 32 59 | 38.9 | 52 38 | 31 56 | 38.1 | 51 50 | 30 57 | 37.3 | 51 02 | 29 59 | 36.6 | 50 14 | 29 03 | 35.8 | 49 25 | 28 09 | 35.2 | 248 | 292 |
| 69 | 111 | 53 57 | 31 50 | 37.5 | 53 09 | 30 49 | 36.7 | 52 21 | 29 50 | 35.9 | 51 32 | 28 53 | 35.2 | 50 43 | 27 59 | 34.5 | 49 53 | 27 06 | 33.8 | 249 | 291 |
| 70 | 110 | 54 28 | 30 39 | 36.1 | 53 39 | 29 39 | 35.2 | 52 50 | 28 42 | 34.5 | 52 00 | 27 46 | 33.8 | 51 10 | 26 53 | 33.1 | 50 20 | 26 02 | 32.4 | 250 | 290 |
| 71 | 109 | 54 58 | 29 25 | 34.6 | 54 08 | 28 27 | 33.8 | 53 18 | 27 31 | 33.0 | 52 28 | 26 38 | 32.3 | 51 37 | 25 46 | 31.6 | 50 46 | 24 56 | 31.0 | 251 | 289 |
| 72 | 108 | 55 27 | 28 09 | 33.0 | 54 37 | 27 13 | 32.2 | 53 46 | 26 19 | 31.5 | 52 54 | 25 27 | 30.8 | 52 03 | 24 37 | 30.2 | 51 10 | 23 49 | 29.5 | 252 | 288 |
| 73 | 107 | 55 55 | 26 51 | 31.4 | 55 03 | 25 57 | 30.7 | 54 12 | 25 04 | 30.3 | 53 19 | 24 14 | 29.3 | 52 27 | 23 26 | 28.7 | 51 34 | 22 40 | 28.1 | 253 | 287 |
| 74 | 106 | 56 21 | 25 31 | 29.8 | 55 29 | 24 39 | 29.1 | 54 36 | 23 48 | 28.4 | 53 43 | 23 00 | 27.8 | 52 50 | 22 14 | 27.1 | 51 57 | 21 29 | 26.6 | 254 | 286 |
| 75 | 105 | 56 46 | 24 09 | 28.2 | 55 53 | 23 18 | 27.5 | 55 00 | 22 30 | 26.8 | 54 06 | 21 44 | 26.2 | 53 12 | 21 00 | 25.6 | 52 18 | 20 17 | 25.0 | 255 | 285 |
| 76 | 104 | 57 10 | 22 44 | 26.5 | 56 16 | 21 56 | 25.8 | 55 22 | 21 10 | 25.2 | 54 28 | 20 26 | 24.6 | 53 33 | 19 44 | 24.0 | 52 38 | 19 04 | 23.5 | 256 | 284 |
| 77 | 103 | 57 33 | 21 17 | 24.8 | 56 38 | 20 31 | 24.1 | 55 43 | 19 48 | 23.5 | 54 48 | 19 06 | 23.0 | 53 53 | 18 27 | 22.4 | 52 57 | 17 49 | 21.9 | 257 | 283 |
| 78 | 102 | 57 54 | 19 48 | 23.0 | 56 59 | 19 05 | 22.4 | 56 03 | 18 24 | 21.9 | 55 07 | 17 45 | 21.3 | 54 11 | 17 08 | 20.8 | 53 15 | 16 32 | 20.3 | 258 | 282 |
| 79 | 101 | 58 13 | 18 17 | 21.2 | 57 17 | 17 37 | 20.7 | 56 21 | 16 59 | 20.1 | 55 25 | 16 22 | 19.6 | 54 28 | 15 48 | 19.2 | 53 31 | 15 15 | 18.7 | 259 | 281 |
| 80 | 100 | 58 32 | 16 44 | 19.4 | 57 35 | 16 07 | 18.9 | 56 38 | 15 32 | 18.4 | 55 41 | 14 58 | 17.9 | 54 44 | 14 26 | 17.5 | 53 47 | 13 56 | 17.1 | 260 | 280 |
| 81 | 99 | 58 48 | 15 10 | 17.6 | 57 51 | 14 36 | 17.1 | 56 53 | 14 03 | 16.6 | 55 56 | 13 33 | 16.2 | 54 58 | 13 03 | 15.8 | 54 00 | 12 36 | 15.4 | 261 | 279 |
| 82 | 98 | 59 03 | 13 33 | 15.7 | 58 05 | 13 02 | 15.3 | 57 07 | 12 33 | 14.9 | 56 09 | 12 06 | 14.5 | 55 11 | 11 40 | 14.1 | 54 13 | 11 14 | 13.8 | 262 | 278 |
| 83 | 97 | 59 16 | 11 55 | 13.8 | 58 18 | 11 28 | 13.4 | 57 19 | 11 02 | 13.0 | 56 21 | 10 38 | 12.7 | 55 22 | 10 14 | 12.4 | 54 24 | 9 52 | 12.1 | 263 | 277 |
| 84 | 96 | 59 28 | 10 16 | 11.9 | 58 29 | 9 52 | 11.5 | 57 30 | 9 30 | 11.2 | 56 31 | 9 09 | 10.9 | 55 32 | 8 49 | 10.6 | 54 33 | 8 29 | 10.4 | 264 | 276 |
| 85 | 95 | 59 37 | 8 35 | 9.9 | 58 38 | 8 15 | 9.6 | 57 39 | 7 56 | 9.4 | 56 40 | 7 39 | 9.1 | 55 41 | 7 22 | 8.9 | 54 41 | 7 06 | 8.7 | 265 | 275 |
| 86 | 94 | 59 46 | 6 53 | 8.0 | 58 46 | 6 37 | 7.7 | 57 47 | 6 22 | 7.5 | 56 47 | 6 08 | 7.3 | 55 48 | 5 54 | 7.1 | 54 48 | 5 41 | 7.0 | 266 | 274 |
| 87 | 93 | 59 52 | 5 11 | 6.0 | 58 52 | 4 59 | 5.8 | 57 52 | 4 47 | 5.6 | 56 53 | 4 36 | 5.5 | 55 53 | 4 26 | 5.4 | 54 53 | 4 16 | 5.2 | 267 | 273 |
| 88 | 92 | 59 56 | 3 28 | 4.0 | 58 57 | 3 19 | 3.9 | 57 57 | 3 12 | 3.8 | 56 57 | 3 05 | 3.7 | 55 57 | 2 58 | 3.6 | 54 57 | 2 51 | 3.5 | 268 | 272 |
| 89 | 91 | 59 59 | 1 44 | 2.0 | 58 59 | 1 40 | 1.9 | 57 59 | 1 36 | 1.9 | 56 59 | 1 32 | 1.8 | 55 59 | 1 29 | 1.8 | 54 59 | 1 26 | 1.7 | 269 | 271 |
| 90 | 90 | 60 00 | 0 00 | 0.0 | 59 00 | 0 00 | 0.0 | 58 00 | 0 00 | 0.0 | 57 00 | 0 00 | 0.0 | 56 00 | 0 00 | 0.0 | 55 00 | 0 00 | 0.0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para $90^\circ < \text{AHL} < 270^\circ$
 Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z_1 : mismo signo que B
 Z_2 : (—) para $F > 90^\circ$

| Lat. / A | 36° | | | 37° | | | 38° | | | 39° | | | 40° | | | 41° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 54 00 | 90 0 | 0 00 | 53 00 | 90 0 | 0 00 | 52 00 | 90 0 | 0 00 | 51 00 | 90 0 | 0 00 | 50 00 | 90 0 | 0 00 | 49 00 | 90 0 | 180 360 |
| 1 179 | 0 49 | 54 00 | 89 4 | 0 48 | 53 00 | 89 4 | 0 47 | 52 00 | 89 4 | 0 47 | 51 00 | 89 4 | 0 46 | 50 00 | 89 4 | 0 45 | 49 00 | 89 3 | 181 359 |
| 2 178 | 1 37 | 53 59 | 88 8 | 1 36 | 52 59 | 88 8 | 1 35 | 51 59 | 88 8 | 1 33 | 50 59 | 88 7 | 1 32 | 49 59 | 88 7 | 1 31 | 48 59 | 88 7 | 182 358 |
| 3 177 | 2 26 | 53 58 | 88 2 | 2 24 | 52 58 | 88 2 | 2 22 | 51 58 | 88 2 | 2 20 | 50 58 | 88 1 | 2 18 | 49 58 | 88 1 | 2 16 | 48 58 | 88 0 | 183 357 |
| 4 176 | 3 14 | 53 56 | 87 6 | 3 12 | 52 56 | 87 6 | 3 09 | 51 56 | 87 5 | 3 06 | 50 56 | 87 5 | 3 04 | 49 56 | 87 4 | 3 01 | 48 56 | 87 4 | 184 356 |
| 5 175 | 4 03 | 53 54 | 87 1 | 3 59 | 52 54 | 87 0 | 3 56 | 51 54 | 86 9 | 3 53 | 50 54 | 86 8 | 3 50 | 49 54 | 86 8 | 3 46 | 48 54 | 86 7 | 185 355 |
| 6 174 | 4 51 | 53 51 | 86 5 | 4 47 | 52 51 | 86 4 | 4 43 | 51 51 | 86 3 | 4 40 | 50 51 | 86 2 | 4 36 | 49 51 | 86 1 | 4 31 | 48 51 | 86 1 | 186 354 |
| 7 173 | 5 39 | 53 48 | 85 9 | 5 35 | 52 48 | 85 8 | 5 31 | 51 48 | 85 7 | 5 26 | 50 47 | 85 6 | 5 21 | 49 47 | 85 5 | 5 17 | 48 47 | 85 4 | 187 353 |
| 8 172 | 6 28 | 53 44 | 85 3 | 6 23 | 52 44 | 85 2 | 6 18 | 51 44 | 85 1 | 6 13 | 50 44 | 84 9 | 6 07 | 49 43 | 84 8 | 6 02 | 48 43 | 84 7 | 188 352 |
| 9 171 | 7 16 | 53 40 | 84 7 | 7 11 | 52 39 | 84 6 | 7 05 | 51 39 | 84 4 | 6 59 | 50 39 | 84 3 | 6 53 | 49 39 | 84 2 | 6 47 | 48 39 | 84 1 | 189 351 |
| 10 170 | 8 05 | 53 35 | 84 1 | 7 58 | 52 35 | 83 9 | 7 52 | 51 34 | 83 8 | 7 45 | 50 34 | 83 7 | 7 39 | 49 34 | 83 5 | 7 32 | 48 34 | 83 4 | 190 350 |
| 11 169 | 8 53 | 53 30 | 83 5 | 8 46 | 52 29 | 83 3 | 8 39 | 51 29 | 83 2 | 8 32 | 50 29 | 83 0 | 8 24 | 49 29 | 82 9 | 8 17 | 48 28 | 82 7 | 191 349 |
| 12 168 | 9 41 | 53 24 | 82 9 | 9 33 | 52 23 | 82 7 | 9 26 | 51 23 | 82 5 | 9 18 | 50 23 | 82 4 | 9 10 | 49 23 | 82 2 | 9 02 | 48 22 | 82 1 | 192 348 |
| 13 167 | 10 29 | 53 17 | 82 3 | 10 21 | 52 17 | 82 1 | 10 13 | 51 17 | 81 9 | 10 04 | 50 16 | 81 7 | 9 55 | 49 16 | 81 6 | 9 46 | 48 16 | 81 4 | 193 347 |
| 14 166 | 11 17 | 53 10 | 81 7 | 11 08 | 52 10 | 81 5 | 10 59 | 51 10 | 81 3 | 10 50 | 50 09 | 81 1 | 10 41 | 49 09 | 80 9 | 10 31 | 48 09 | 80 7 | 194 346 |
| 15 165 | 12 05 | 53 03 | 81 0 | 11 56 | 52 02 | 80 8 | 11 46 | 51 02 | 80 6 | 11 36 | 50 02 | 80 4 | 11 26 | 49 01 | 80 2 | 11 16 | 48 01 | 80 0 | 195 345 |
| 16 164 | 12 53 | 52 55 | 80 4 | 12 43 | 51 54 | 80 2 | 12 33 | 50 54 | 80 0 | 12 22 | 49 53 | 79 8 | 12 11 | 48 53 | 79 6 | 12 00 | 47 53 | 79 3 | 196 344 |
| 17 163 | 13 41 | 52 46 | 79 8 | 13 30 | 51 46 | 79 6 | 13 19 | 50 45 | 79 3 | 13 08 | 49 45 | 79 1 | 12 57 | 48 44 | 78 9 | 12 45 | 47 44 | 78 7 | 197 343 |
| 18 162 | 14 29 | 52 37 | 79 2 | 14 17 | 51 37 | 78 9 | 14 06 | 50 36 | 78 7 | 13 54 | 49 35 | 78 4 | 13 42 | 48 35 | 78 2 | 13 29 | 47 34 | 78 0 | 198 342 |
| 19 161 | 15 16 | 52 28 | 78 6 | 15 04 | 51 27 | 78 3 | 14 52 | 50 26 | 78 0 | 14 39 | 49 25 | 77 8 | 14 27 | 48 25 | 77 5 | 14 13 | 47 24 | 77 3 | 199 341 |
| 20 160 | 16 04 | 52 17 | 77 9 | 15 51 | 51 16 | 77 6 | 15 38 | 50 16 | 77 4 | 15 25 | 49 15 | 77 1 | 15 11 | 48 14 | 76 8 | 15 00 | 47 14 | 76 6 | 200 340 |
| 21 159 | 16 51 | 52 07 | 77 3 | 16 38 | 51 05 | 77 0 | 16 24 | 50 05 | 76 7 | 16 10 | 49 04 | 76 4 | 15 56 | 48 03 | 76 1 | 15 42 | 47 03 | 75 9 | 201 339 |
| 22 158 | 17 39 | 51 55 | 76 6 | 17 24 | 50 54 | 76 3 | 17 10 | 49 53 | 76 0 | 16 56 | 48 52 | 75 7 | 16 41 | 47 51 | 75 4 | 16 25 | 46 51 | 75 2 | 202 338 |
| 23 157 | 18 26 | 51 43 | 76 0 | 18 11 | 50 42 | 75 7 | 17 56 | 49 41 | 75 4 | 17 41 | 48 40 | 75 0 | 17 25 | 47 39 | 74 7 | 17 09 | 46 38 | 74 4 | 203 337 |
| 24 156 | 19 13 | 51 30 | 75 3 | 18 57 | 50 29 | 75 0 | 18 42 | 49 28 | 74 7 | 18 26 | 48 27 | 74 3 | 18 09 | 47 26 | 74 0 | 17 53 | 46 25 | 73 7 | 204 336 |
| 25 155 | 20 00 | 51 17 | 74 7 | 19 44 | 50 15 | 74 3 | 19 27 | 49 14 | 74 0 | 19 10 | 48 13 | 73 6 | 18 53 | 47 12 | 73 3 | 18 36 | 46 12 | 73 0 | 205 335 |
| 26 154 | 20 46 | 51 03 | 74 0 | 20 30 | 50 01 | 73 6 | 20 13 | 49 00 | 73 3 | 19 55 | 47 59 | 72 9 | 19 37 | 46 58 | 72 6 | 19 19 | 45 57 | 72 3 | 206 334 |
| 27 153 | 21 33 | 50 48 | 73 3 | 21 15 | 49 47 | 73 0 | 20 58 | 48 45 | 72 6 | 20 40 | 47 44 | 72 2 | 20 21 | 46 43 | 71 9 | 20 02 | 45 42 | 71 5 | 207 333 |
| 28 152 | 22 19 | 50 33 | 72 6 | 22 01 | 49 31 | 72 3 | 21 43 | 48 30 | 71 9 | 21 24 | 47 28 | 71 5 | 21 05 | 46 28 | 71 1 | 20 45 | 45 27 | 70 8 | 208 332 |
| 29 151 | 23 06 | 50 17 | 72 0 | 22 47 | 49 15 | 71 6 | 22 28 | 48 14 | 71 2 | 22 08 | 47 12 | 70 8 | 21 48 | 46 11 | 70 4 | 21 28 | 45 11 | 70 0 | 209 331 |
| 30 150 | 23 52 | 50 00 | 71 3 | 23 32 | 48 58 | 70 8 | 23 12 | 47 57 | 70 4 | 22 52 | 46 55 | 70 0 | 22 31 | 45 54 | 69 6 | 22 10 | 44 54 | 69 3 | 210 330 |
| 31 149 | 24 37 | 49 43 | 70 5 | 24 17 | 48 41 | 70 1 | 23 57 | 47 39 | 69 7 | 23 36 | 46 38 | 69 3 | 23 14 | 45 37 | 68 9 | 22 52 | 44 36 | 68 5 | 211 329 |
| 32 148 | 25 23 | 49 25 | 69 8 | 25 02 | 48 23 | 69 4 | 24 41 | 47 21 | 69 0 | 24 19 | 46 19 | 68 5 | 23 57 | 45 18 | 68 1 | 23 34 | 44 17 | 67 7 | 212 328 |
| 33 147 | 26 09 | 49 06 | 69 1 | 25 47 | 48 04 | 68 7 | 25 25 | 47 02 | 68 2 | 25 02 | 46 00 | 67 8 | 24 40 | 44 59 | 67 3 | 24 16 | 43 58 | 66 9 | 213 327 |
| 34 146 | 26 54 | 48 46 | 68 4 | 26 32 | 47 44 | 67 9 | 26 09 | 46 42 | 67 4 | 25 45 | 45 40 | 67 0 | 25 22 | 44 39 | 66 6 | 24 58 | 43 39 | 66 1 | 214 326 |
| 35 145 | 27 39 | 48 26 | 67 6 | 27 16 | 47 23 | 67 1 | 26 52 | 46 21 | 66 7 | 26 28 | 45 20 | 66 2 | 26 04 | 44 19 | 65 8 | 25 39 | 43 18 | 65 3 | 215 325 |
| 36 144 | 28 24 | 48 04 | 66 9 | 28 00 | 47 02 | 66 4 | 27 36 | 46 00 | 65 9 | 27 11 | 44 58 | 65 4 | 26 46 | 43 57 | 65 0 | 26 20 | 42 57 | 64 5 | 216 324 |
| 37 143 | 29 08 | 47 42 | 66 1 | 28 44 | 46 40 | 65 6 | 28 19 | 45 38 | 65 1 | 27 53 | 44 36 | 64 6 | 27 27 | 43 35 | 64 2 | 27 01 | 42 34 | 63 7 | 217 323 |
| 38 142 | 29 52 | 47 19 | 65 3 | 29 27 | 46 17 | 64 8 | 29 01 | 45 15 | 64 3 | 28 35 | 44 13 | 63 8 | 28 08 | 43 12 | 63 3 | 27 41 | 42 12 | 62 9 | 218 322 |
| 39 141 | 30 36 | 46 56 | 64 5 | 30 10 | 45 53 | 64 0 | 29 44 | 44 51 | 63 5 | 29 17 | 43 49 | 63 0 | 28 49 | 42 48 | 62 5 | 28 21 | 41 48 | 62 0 | 219 321 |
| 40 140 | 31 20 | 46 31 | 63 7 | 30 53 | 45 28 | 63 2 | 30 26 | 44 26 | 62 7 | 29 58 | 43 25 | 62 2 | 29 30 | 42 24 | 61 7 | 29 01 | 41 23 | 61 2 | 220 320 |
| 41 139 | 32 03 | 46 05 | 62 9 | 31 36 | 45 03 | 62 4 | 31 08 | 44 01 | 61 8 | 30 39 | 42 59 | 61 3 | 30 10 | 41 58 | 60 8 | 29 41 | 40 58 | 60 3 | 221 319 |
| 42 138 | 32 46 | 45 39 | 62 1 | 32 18 | 44 36 | 61 5 | 31 49 | 43 34 | 61 0 | 31 20 | 42 33 | 60 5 | 30 50 | 41 32 | 59 9 | 30 20 | 40 32 | 59 4 | 222 318 |
| 43 137 | 33 29 | 45 11 | 61 3 | 33 00 | 44 09 | 60 7 | 32 30 | 43 07 | 60 1 | 32 00 | 42 05 | 59 6 | 31 30 | 41 05 | 59 1 | 30 59 | 40 04 | 58 5 | 223 317 |
| 44 136 | 34 12 | 44 43 | 60 4 | 33 42 | 43 40 | 59 8 | 33 11 | 42 38 | 59 3 | 32 40 | 41 37 | 58 7 | 32 09 | 40 36 | 58 2 | 31 37 | 39 36 | 57 6 | 224 316 |
| 45 135 | 34 54 | 44 13 | 59 6 | 34 23 | 43 11 | 59 0 | 33 52 | 42 09 | 58 4 | 33 20 | 41 08 | 57 8 | 32 48 | 40 07 | 57 3 | 32 15 | 39 08 | 56 7 | 225 315 |

| Lat. / A | | 36° | | | | 37° | | | | 38° | | | | 39° | | | | 40° | | | | 41° | | | | Lat. / A | |
|----------|-----|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-----|-----|--------------------------------|-----|--|--|----------|--|
| AHL/F | | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | | | |
| 45 | 135 | 34 54 | 44 13 | 59 6 | 34 23 | 43 11 | 59 0 | 33 52 | 42 09 | 58 4 | 33 20 | 41 08 | 57 8 | 32 48 | 40 07 | 57 3 | 32 15 | 39 08 | 56 7 | 225 | 315 | | | | | | |
| 46 | 134 | 35 35 | 43 43 | 58 7 | 35 04 | 42 40 | 58 1 | 34 32 | 41 38 | 57 5 | 33 59 | 40 37 | 56 9 | 33 26 | 39 37 | 56 4 | 32 53 | 38 38 | 55 8 | 226 | 314 | | | | | | |
| 47 | 133 | 36 17 | 43 11 | 57 8 | 35 44 | 42 09 | 57 2 | 35 12 | 41 07 | 56 6 | 34 38 | 40 06 | 56 0 | 34 04 | 39 06 | 55 4 | 33 30 | 38 07 | 54 9 | 227 | 313 | | | | | | |
| 48 | 132 | 36 57 | 42 39 | 56 9 | 36 24 | 41 36 | 56 2 | 35 51 | 40 35 | 55 6 | 35 17 | 39 34 | 55 0 | 34 42 | 38 34 | 54 5 | 34 07 | 37 35 | 53 9 | 228 | 312 | | | | | | |
| 49 | 131 | 37 38 | 42 05 | 55 9 | 37 04 | 41 03 | 55 3 | 36 30 | 40 01 | 54 7 | 35 55 | 39 01 | 54 1 | 35 19 | 38 01 | 53 5 | 34 43 | 37 03 | 53 0 | 229 | 311 | | | | | | |
| 50 | 130 | 38 18 | 41 30 | 55 0 | 37 43 | 40 28 | 54 4 | 37 08 | 39 27 | 53 7 | 36 32 | 38 27 | 53 1 | 35 56 | 37 27 | 52 5 | 35 19 | 36 29 | 52 0 | 230 | 310 | | | | | | |
| 51 | 129 | 38 57 | 40 54 | 54 0 | 38 22 | 39 52 | 53 4 | 37 46 | 38 51 | 52 8 | 37 09 | 37 51 | 52 1 | 36 32 | 36 52 | 51 6 | 35 55 | 35 54 | 51 0 | 231 | 309 | | | | | | |
| 52 | 128 | 39 36 | 40 17 | 53 0 | 39 00 | 39 15 | 52 4 | 38 23 | 38 14 | 51 8 | 37 46 | 37 15 | 51 1 | 37 08 | 36 16 | 50 6 | 36 30 | 35 18 | 50 0 | 232 | 308 | | | | | | |
| 53 | 127 | 40 15 | 39 38 | 52 0 | 39 38 | 38 37 | 51 4 | 39 00 | 37 36 | 50 8 | 38 22 | 36 37 | 50 1 | 37 43 | 35 39 | 49 5 | 37 04 | 34 42 | 49 0 | 233 | 307 | | | | | | |
| 54 | 126 | 40 53 | 38 58 | 51 0 | 40 15 | 37 57 | 50 4 | 39 36 | 36 57 | 49 7 | 38 57 | 35 58 | 49 1 | 38 18 | 35 01 | 48 5 | 37 38 | 34 04 | 47 9 | 234 | 306 | | | | | | |
| 55 | 125 | 41 30 | 38 17 | 50 0 | 40 52 | 37 17 | 49 3 | 40 12 | 36 17 | 48 7 | 39 32 | 35 19 | 48 1 | 38 52 | 34 21 | 47 4 | 38 11 | 33 25 | 46 9 | 235 | 305 | | | | | | |
| 56 | 124 | 42 07 | 37 35 | 48 9 | 41 28 | 36 35 | 48 3 | 40 47 | 35 36 | 47 6 | 40 07 | 34 38 | 47 0 | 39 26 | 33 41 | 46 4 | 38 44 | 32 45 | 45 8 | 236 | 304 | | | | | | |
| 57 | 123 | 42 44 | 36 51 | 47 9 | 42 03 | 35 51 | 47 2 | 41 22 | 34 53 | 46 5 | 40 41 | 33 55 | 45 9 | 39 59 | 32 59 | 45 3 | 39 16 | 32 04 | 44 7 | 237 | 303 | | | | | | |
| 58 | 122 | 43 19 | 36 06 | 46 8 | 42 38 | 35 07 | 46 1 | 41 56 | 34 09 | 45 4 | 41 14 | 33 12 | 44 8 | 40 31 | 32 16 | 44 2 | 39 48 | 31 22 | 43 6 | 238 | 302 | | | | | | |
| 59 | 121 | 43 54 | 35 20 | 45 6 | 43 12 | 34 21 | 45 0 | 42 29 | 33 24 | 44 3 | 41 46 | 32 27 | 43 7 | 41 03 | 31 32 | 43 1 | 40 19 | 30 39 | 42 5 | 239 | 301 | | | | | | |
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| 85 | 95 | 53 42 | 6 50 | 8 5 | 52 43 | 6 36 | 8 3 | 51 43 | 6 22 | 8 1 | 50 44 | 6 09 | 7 9 | 49 44 | 5 56 | 7 8 | 48 45 | 5 44 | 7 6 | 265 | 275 | | | | | | |
| 86 | 94 | 53 49 | 5 29 | 6 8 | 52 49 | 5 17 | 6 6 | 51 49 | 5 06 | 6 5 | 50 50 | 4 55 | 6 3 | 49 50 | 4 45 | 6 2 | 48 50 | 4 35 | 6 1 | 266 | 274 | | | | | | |
| 87 | 93 | 53 54 | 4 07 | 5 1 | 52 54 | 3 58 | 5 0 | 51 54 | 3 50 | 4 9 | 50 54 | 3 42 | 4 8 | 49 54 | 3 34 | 4 7 | 48 55 | 3 27 | 4 6 | 267 | 273 | | | | | | |
| 88 | 92 | 53 57 | 2 45 | 3 4 | 52 57 | 2 39 | 3 3 | 51 57 | 2 33 | 3 2 | 50 57 | 2 28 | 3 2 | 49 58 | 2 23 | 3 1 | 48 58 | 2 18 | 3 0 | 268 | 272 | | | | | | |
| 89 | 91 | 53 59 | 1 23 | 1 7 | 52 59 | 1 20 | 1 7 | 51 59 | 1 17 | 1 6 | 50 59 | 1 14 | 1 6 | 49 59 | 1 11 | 1 6 | 48 59 | 1 09 | 1 5 | 269 | 271 | | | | | | |
| 90 | 90 | 54 00 | 0 00 | 0 0 | 53 00 | 0 00 | 0 0 | 52 00 | 0 00 | 0 0 | 51 00 | 0 00 | 0 0 | 50 00 | 0 00 | 0 0 | 49 00 | 0 00 | 0 0 | 270 | 270 | | | | | | |

Lat. N.: para AHL > 180°... Z_n = Z
para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
para AHL < 180°... Z_n = 180° + Z

B: (-) para $90^\circ < \text{AHL} < 270^\circ$

Dec: (-) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que BZ₂: (-) para F > 90°

| Lat. / A | 42° | | | 43° | | | 44° | | | 45° | | | 46° | | | 47° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 48 00 | 90 0 | 0 00 | 47 00 | 90 0 | 0 00 | 46 00 | 90 0 | 0 00 | 45 00 | 90 0 | 0 00 | 44 00 | 90 0 | 0 00 | 43 00 | 90 0 | 180 360 |
| 1 179 | 0 45 | 48 00 | 89 3 | 0 44 | 47 00 | 89 3 | 0 43 | 46 00 | 89 3 | 0 42 | 45 00 | 89 3 | 0 42 | 44 00 | 89 3 | 0 41 | 43 00 | 89 3 | 181 359 |
| 2 178 | 1 29 | 47 59 | 88 7 | 1 28 | 46 59 | 88 6 | 1 26 | 45 59 | 88 6 | 1 25 | 44 59 | 88 6 | 1 23 | 43 59 | 88 6 | 1 22 | 42 59 | 88 5 | 182 358 |
| 3 177 | 2 14 | 47 58 | 88 0 | 2 12 | 46 58 | 88 0 | 2 09 | 45 58 | 87 9 | 2 07 | 44 58 | 87 9 | 2 05 | 43 58 | 87 8 | 2 03 | 42 58 | 87 8 | 183 357 |
| 4 176 | 2 58 | 47 56 | 87 3 | 2 55 | 46 56 | 87 3 | 2 53 | 45 56 | 87 2 | 2 50 | 44 56 | 87 2 | 2 47 | 43 56 | 87 1 | 2 44 | 42 56 | 87 1 | 184 356 |
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| 6 174 | 4 27 | 47 51 | 86 0 | 4 23 | 46 51 | 85 9 | 4 19 | 45 51 | 85 8 | 4 14 | 44 51 | 85 7 | 4 10 | 43 51 | 85 7 | 4 05 | 42 51 | 85 6 | 186 354 |
| 7 173 | 5 12 | 47 47 | 85 3 | 5 07 | 46 47 | 85 2 | 5 02 | 45 47 | 85 1 | 4 57 | 44 47 | 85 0 | 4 51 | 43 47 | 85 0 | 4 46 | 42 47 | 84 9 | 187 353 |
| 8 172 | 5 56 | 47 43 | 84 6 | 5 51 | 46 43 | 84 5 | 5 45 | 45 43 | 84 4 | 5 39 | 44 43 | 84 3 | 5 33 | 43 43 | 84 2 | 5 27 | 42 43 | 84 1 | 188 352 |
| 9 171 | 6 41 | 47 39 | 84 0 | 6 34 | 46 39 | 83 8 | 6 28 | 45 39 | 83 7 | 6 21 | 44 39 | 83 6 | 6 14 | 43 39 | 83 5 | 6 07 | 42 39 | 83 4 | 189 351 |
| 10 170 | 7 25 | 47 34 | 83 3 | 7 18 | 46 34 | 83 1 | 7 11 | 45 34 | 83 0 | 7 03 | 44 34 | 82 9 | 6 56 | 43 34 | 82 8 | 6 48 | 42 34 | 82 7 | 190 350 |
| 11 169 | 8 09 | 47 28 | 82 6 | 8 01 | 46 28 | 82 4 | 7 53 | 45 28 | 82 3 | 7 45 | 44 28 | 82 2 | 7 37 | 43 28 | 82 0 | 7 29 | 42 28 | 81 9 | 191 349 |
| 12 168 | 8 53 | 47 22 | 81 9 | 8 45 | 46 22 | 81 8 | 8 36 | 45 22 | 81 6 | 8 27 | 44 22 | 81 5 | 8 18 | 43 22 | 81 3 | 8 09 | 42 22 | 81 2 | 192 348 |
| 13 167 | 9 37 | 47 16 | 81 2 | 9 28 | 46 15 | 81 1 | 9 19 | 45 15 | 80 9 | 9 09 | 44 15 | 80 7 | 8 59 | 43 15 | 80 6 | 8 49 | 42 16 | 80 4 | 193 347 |
| 14 166 | 10 21 | 47 08 | 80 5 | 10 11 | 46 08 | 80 3 | 10 01 | 45 08 | 80 2 | 9 51 | 44 08 | 80 0 | 9 40 | 43 08 | 79 8 | 9 30 | 42 08 | 79 7 | 194 346 |
| 15 165 | 11 05 | 47 01 | 79 8 | 10 55 | 46 00 | 79 6 | 10 44 | 45 00 | 79 5 | 10 33 | 44 00 | 79 3 | 10 21 | 43 00 | 79 1 | 10 10 | 42 01 | 78 9 | 195 345 |
| 16 164 | 11 49 | 46 52 | 79 1 | 11 38 | 45 52 | 78 9 | 11 26 | 44 52 | 78 7 | 11 14 | 43 52 | 78 5 | 11 02 | 42 52 | 78 3 | 10 50 | 41 52 | 78 2 | 196 344 |
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| 18 162 | 13 17 | 46 34 | 77 7 | 13 04 | 45 34 | 77 5 | 12 51 | 44 34 | 77 3 | 12 37 | 43 34 | 77 1 | 12 24 | 42 34 | 76 8 | 12 10 | 41 34 | 76 6 | 198 342 |
| 19 161 | 14 00 | 46 24 | 77 0 | 13 46 | 45 24 | 76 8 | 13 33 | 44 24 | 76 5 | 13 19 | 43 24 | 76 3 | 13 04 | 42 24 | 76 1 | 12 50 | 41 24 | 75 9 | 199 341 |
| 20 160 | 14 43 | 46 13 | 76 3 | 14 29 | 45 13 | 76 1 | 14 15 | 44 13 | 75 8 | 14 00 | 43 13 | 75 6 | 13 45 | 42 13 | 75 3 | 13 29 | 41 14 | 75 1 | 200 340 |
| 21 159 | 15 27 | 46 02 | 75 6 | 15 12 | 45 02 | 75 3 | 14 56 | 44 02 | 75 1 | 14 41 | 43 02 | 74 8 | 14 25 | 42 02 | 74 6 | 14 09 | 41 03 | 74 3 | 201 339 |
| 22 158 | 16 10 | 45 50 | 74 9 | 15 54 | 44 50 | 74 6 | 15 38 | 43 50 | 74 3 | 15 22 | 42 50 | 74 1 | 15 05 | 41 50 | 73 8 | 14 48 | 40 51 | 73 5 | 202 338 |
| 23 157 | 16 53 | 45 38 | 74 1 | 16 36 | 44 38 | 73 9 | 16 19 | 43 38 | 73 6 | 16 02 | 42 38 | 73 3 | 15 45 | 41 38 | 73 0 | 15 27 | 40 39 | 72 8 | 203 337 |
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| 27 153 | 19 43 | 44 42 | 71 2 | 19 24 | 43 42 | 70 8 | 19 04 | 42 42 | 70 5 | 18 43 | 41 42 | 70 2 | 18 23 | 40 43 | 69 9 | 18 02 | 39 43 | 69 6 | 207 333 |
| 28 152 | 20 25 | 44 26 | 70 4 | 20 05 | 43 26 | 70 1 | 19 44 | 42 26 | 69 7 | 19 23 | 41 27 | 69 4 | 19 02 | 40 27 | 69 1 | 18 40 | 39 28 | 68 8 | 208 332 |
| 29 151 | 21 07 | 44 10 | 69 6 | 20 46 | 43 10 | 69 3 | 20 25 | 42 10 | 68 9 | 20 03 | 41 10 | 68 6 | 19 41 | 40 11 | 68 3 | 19 18 | 39 12 | 67 9 | 209 331 |
| 30 150 | 21 49 | 43 53 | 68 9 | 21 27 | 42 53 | 68 5 | 21 05 | 41 53 | 68 1 | 20 42 | 40 54 | 67 8 | 20 19 | 39 54 | 67 4 | 19 56 | 38 55 | 67 1 | 210 330 |
| 31 149 | 22 30 | 43 35 | 68 1 | 22 08 | 42 35 | 67 7 | 21 45 | 41 36 | 67 3 | 21 21 | 40 36 | 67 0 | 20 58 | 39 37 | 66 6 | 20 34 | 38 38 | 66 3 | 211 329 |
| 32 148 | 23 11 | 43 17 | 67 3 | 22 48 | 42 17 | 66 9 | 22 24 | 41 17 | 66 5 | 22 00 | 40 18 | 66 2 | 21 36 | 39 19 | 65 8 | 21 11 | 38 20 | 65 4 | 212 328 |
| 33 147 | 23 53 | 42 58 | 66 5 | 23 28 | 41 58 | 66 1 | 23 04 | 40 58 | 65 7 | 22 39 | 39 59 | 65 3 | 22 14 | 39 00 | 65 0 | 21 48 | 38 02 | 64 6 | 213 327 |
| 34 146 | 24 33 | 42 38 | 65 7 | 24 08 | 41 38 | 65 3 | 23 43 | 40 39 | 64 9 | 23 17 | 39 40 | 64 5 | 22 51 | 38 41 | 64 1 | 22 25 | 37 42 | 63 7 | 214 326 |
| 35 145 | 25 14 | 42 18 | 64 9 | 24 48 | 41 18 | 64 5 | 24 22 | 40 18 | 64 1 | 23 56 | 39 19 | 63 7 | 23 29 | 38 21 | 63 3 | 23 02 | 37 23 | 62 9 | 215 325 |
| 36 144 | 25 54 | 41 56 | 64 1 | 25 28 | 40 57 | 63 6 | 25 01 | 39 57 | 63 2 | 24 34 | 38 58 | 62 8 | 24 06 | 38 00 | 62 4 | 23 38 | 37 02 | 62 0 | 216 324 |
| 37 143 | 26 34 | 41 34 | 63 2 | 26 07 | 40 35 | 62 8 | 25 39 | 39 35 | 62 4 | 25 11 | 38 37 | 61 9 | 24 43 | 37 38 | 61 5 | 24 14 | 36 41 | 61 1 | 217 323 |
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| 39 141 | 27 53 | 40 48 | 61 5 | 27 24 | 39 48 | 61 1 | 26 55 | 38 50 | 60 6 | 26 25 | 37 51 | 60 2 | 25 55 | 36 53 | 59 8 | 25 25 | 35 56 | 59 4 | 219 321 |
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| 44 136 | 31 05 | 38 37 | 57 1 | 30 32 | 37 39 | 56 6 | 29 59 | 36 41 | 56 1 | 29 25 | 35 44 | 55 7 | 28 51 | 34 47 | 55 2 | 28 17 | 33 51 | 54 8 | 224 316 |
| 45 135 | 31 42 | 38 09 | 56 2 | 31 08 | 37 10 | 55 7 | 30 34 | 36 13 | 55 2 | 30 00 | 35 16 | 54 7 | 29 25 | 34 20 | 54 3 | 28 50 | 33 24 | 53 8 | 225 315 |

LATITUD / A: 42° - 47°

| Lat. / A | | 42° | | | 43° | | | 44° | | | 45° | | | 46° | | | 47° | | | Lat. / A | |
|----------|-----|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|-----|
| AHL/F | | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | |
| 45 | 135 | 31 42 | 38 09 | 56 2 | 31 08 | 37 10 | 55 7 | 30 34 | 36 13 | 55 2 | 30 00 | 35 16 | 54 7 | 29 25 | 34 20 | 54 3 | 28 50 | 33 24 | 53 8 | 225 | 315 |
| 46 | 134 | 32 19 | 37 39 | 55 3 | 31 45 | 36 41 | 54 8 | 31 10 | 35 44 | 54 3 | 30 34 | 34 47 | 53 8 | 29 59 | 33 51 | 53 3 | 29 23 | 32 56 | 52 9 | 226 | 314 |
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| 76 | 104 | 46 09 | 15 02 | 20 4 | 45 12 | 14 33 | 20 1 | 44 16 | 14 04 | 19 7 | 43 19 | 13 36 | 19 4 | 42 23 | 13 09 | 19 1 | 41 26 | 12 43 | 18 8 | 256 | 284 |
| 77 | 103 | 46 24 | 14 02 | 19 0 | 45 27 | 13 34 | 18 7 | 44 30 | 13 07 | 18 4 | 43 33 | 12 41 | 18 1 | 42 36 | 12 15 | 17 8 | 41 39 | 11 51 | 17 5 | 257 | 283 |
| 78 | 102 | 46 38 | 13 00 | 17 6 | 45 40 | 12 34 | 17 3 | 44 43 | 12 09 | 17 0 | 43 46 | 11 45 | 16 7 | 42 48 | 11 21 | 16 5 | 41 51 | 10 58 | 16 2 | 258 | 282 |
| 79 | 101 | 46 51 | 11 58 | 16 2 | 45 53 | 11 34 | 15 9 | 44 55 | 11 11 | 15 6 | 43 57 | 10 48 | 15 4 | 43 00 | 10 26 | 15 1 | 42 02 | 10 05 | 14 9 | 259 | 281 |
| 80 | 100 | 47 03 | 10 55 | 14 8 | 46 04 | 10 33 | 14 5 | 45 06 | 10 12 | 14 2 | 44 08 | 9 51 | 14 0 | 43 10 | 9 31 | 13 8 | 42 12 | 9 12 | 13 6 | 260 | 280 |
| 81 | 99 | 47 13 | 9 51 | 13 3 | 46 15 | 9 31 | 13 1 | 45 16 | 9 12 | 12 8 | 44 18 | 8 53 | 12 6 | 43 19 | 8 35 | 12 4 | 42 21 | 8 18 | 12 2 | 261 | 279 |
| 82 | 98 | 47 23 | 8 47 | 11 9 | 46 24 | 8 29 | 11 6 | 45 26 | 8 12 | 11 4 | 44 27 | 7 55 | 11 2 | 43 28 | 7 39 | 11 1 | 42 29 | 7 24 | 10 9 | 262 | 278 |
| 83 | 97 | 47 32 | 7 42 | 10 4 | 46 33 | 7 27 | 10 2 | 45 34 | 7 12 | 10 0 | 44 34 | 6 57 | 9 9 | 43 35 | 6 43 | 9 7 | 42 36 | 6 29 | 9 5 | 263 | 277 |
| 84 | 96 | 47 39 | 6 37 | 8 9 | 46 40 | 6 24 | 8 8 | 45 41 | 6 11 | 8 6 | 44 41 | 5 58 | 8 5 | 43 42 | 5 46 | 8 3 | 42 42 | 5 34 | 8 2 | 264 | 276 |
| 85 | 95 | 47 46 | 5 32 | 7 4 | 46 46 | 5 20 | 7 3 | 45 46 | 5 09 | 7 2 | 44 47 | 4 59 | 7 1 | 43 47 | 4 49 | 6 9 | 42 48 | 4 39 | 6 8 | 265 | 275 |
| 86 | 94 | 47 51 | 4 26 | 6 0 | 46 51 | 4 17 | 5 9 | 45 51 | 4 08 | 5 7 | 44 52 | 3 59 | 5 6 | 43 52 | 3 51 | 5 6 | 42 52 | 3 43 | 5 5 | 266 | 274 |
| 87 | 93 | 47 55 | 3 20 | 4 5 | 46 55 | 3 13 | 4 4 | 45 55 | 3 06 | 4 3 | 44 55 | 3 00 | 4 2 | 43 55 | 2 54 | 4 2 | 42 56 | 2 48 | 4 1 | 267 | 273 |
| 88 | 92 | 47 58 | 2 13 | 3 0 | 46 58 | 2 09 | 2 9 | 45 58 | 2 04 | 2 9 | 44 58 | 2 00 | 2 8 | 43 58 | 1 56 | 2 8 | 42 58 | 1 52 | 2 7 | 268 | 272 |
| 89 | 91 | 47 59 | 1 07 | 1 5 | 46 59 | 1 04 | 1 5 | 45 59 | 1 02 | 1 4 | 44 59 | 1 00 | 1 4 | 43 59 | 0 58 | 1 4 | 43 00 | 0 56 | 1 4 | 269 | 271 |
| 90 | 90 | 48 00 | 0 00 | 0 0 | 47 00 | 0 00 | 0 0 | 46 00 | 0 00 | 0 0 | 45 00 | 0 00 | 0 0 | 44 00 | 0 00 | 0 0 | 43 00 | 0 00 | 0 0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para $90^\circ < \text{AHL} < 270^\circ$
 Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
 Z₂: (—) para F > 90°

| Lat. / A | 48° | | | 49° | | | 50° | | | 51° | | | 52° | | | 53° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 42 00 | 90.0 | 0 00 | 41 00 | 90.0 | 0 00 | 40 00 | 90.0 | 0 00 | 39 00 | 90.0 | 0 00 | 38 00 | 90.0 | 0 00 | 37 00 | 90.0 | 180 360 |
| 1 179 | 0 40 | 42 00 | 89.3 | 0 39 | 41 00 | 89.2 | 0 39 | 40 00 | 89.2 | 0 38 | 39 00 | 89.2 | 0 37 | 38 00 | 89.2 | 0 36 | 37 00 | 89.2 | 181 359 |
| 2 178 | 1 20 | 41 59 | 88.5 | 1 19 | 40 59 | 88.5 | 1 17 | 39 59 | 88.5 | 1 16 | 38 59 | 88.4 | 1 14 | 37 59 | 88.4 | 1 12 | 36 59 | 88.4 | 182 358 |
| 3 177 | 2 00 | 41 58 | 87.8 | 1 58 | 40 58 | 87.7 | 1 56 | 39 58 | 87.7 | 1 53 | 38 58 | 87.7 | 1 51 | 37 58 | 87.6 | 1 48 | 36 58 | 87.6 | 183 357 |
| 4 176 | 2 41 | 41 56 | 87.0 | 2 37 | 40 56 | 87.0 | 2 34 | 39 56 | 86.9 | 2 31 | 38 56 | 86.9 | 2 28 | 37 56 | 86.8 | 2 24 | 36 56 | 86.8 | 184 356 |
| 5 175 | 3 21 | 41 53 | 86.3 | 3 17 | 40 54 | 86.2 | 3 13 | 39 54 | 86.2 | 3 09 | 38 54 | 86.1 | 3 05 | 37 54 | 86.1 | 3 00 | 36 54 | 86.0 | 185 355 |
| 6 174 | 4 01 | 41 51 | 85.5 | 3 56 | 40 51 | 85.5 | 3 51 | 39 51 | 85.4 | 3 46 | 38 51 | 85.3 | 3 41 | 37 51 | 85.3 | 3 36 | 36 51 | 85.2 | 186 354 |
| 7 173 | 4 41 | 41 47 | 84.8 | 4 35 | 40 47 | 84.7 | 4 30 | 39 47 | 84.6 | 4 24 | 38 47 | 84.5 | 4 18 | 37 48 | 84.5 | 4 12 | 36 48 | 84.4 | 187 353 |
| 8 172 | 5 21 | 41 43 | 84.0 | 5 14 | 40 43 | 83.9 | 5 08 | 39 43 | 83.9 | 5 01 | 38 44 | 83.8 | 4 55 | 37 44 | 83.7 | 4 48 | 36 44 | 83.6 | 188 352 |
| 9 171 | 6 01 | 41 39 | 83.3 | 5 53 | 40 39 | 83.2 | 5 46 | 39 39 | 83.1 | 5 39 | 38 39 | 83.0 | 5 32 | 37 39 | 82.9 | 5 24 | 36 40 | 82.8 | 189 351 |
| 10 170 | 6 40 | 41 34 | 82.5 | 6 32 | 40 34 | 82.4 | 6 25 | 39 34 | 82.3 | 6 16 | 38 34 | 82.2 | 6 08 | 37 35 | 82.1 | 6 00 | 36 35 | 82.0 | 190 350 |
| 11 169 | 7 20 | 41 28 | 81.8 | 7 11 | 40 28 | 81.7 | 7 03 | 39 29 | 81.5 | 6 54 | 38 29 | 81.4 | 6 45 | 37 29 | 81.3 | 6 36 | 36 29 | 81.2 | 191 349 |
| 12 168 | 8 00 | 41 22 | 81.0 | 7 50 | 40 22 | 80.9 | 7 41 | 39 23 | 80.8 | 7 31 | 38 23 | 80.6 | 7 21 | 37 23 | 80.5 | 7 11 | 36 24 | 80.4 | 192 348 |
| 13 167 | 8 39 | 41 16 | 80.3 | 8 29 | 40 16 | 80.1 | 8 19 | 39 16 | 80.0 | 8 08 | 38 16 | 79.8 | 7 58 | 37 17 | 79.7 | 7 47 | 36 17 | 79.6 | 193 347 |
| 14 166 | 9 19 | 41 09 | 79.5 | 9 08 | 40 09 | 79.3 | 8 57 | 39 09 | 79.2 | 8 45 | 38 09 | 79.0 | 8 34 | 37 10 | 78.9 | 8 22 | 36 10 | 78.7 | 194 346 |
| 15 165 | 9 58 | 41 01 | 78.7 | 9 47 | 40 01 | 78.6 | 9 35 | 39 02 | 78.4 | 9 22 | 38 02 | 78.2 | 9 10 | 37 02 | 78.1 | 8 58 | 36 03 | 77.9 | 195 345 |
| 16 164 | 10 38 | 40 53 | 78.0 | 10 25 | 39 53 | 77.8 | 10 12 | 38 53 | 77.6 | 9 59 | 37 54 | 77.4 | 9 46 | 36 54 | 77.3 | 9 33 | 35 55 | 77.1 | 196 344 |
| 17 163 | 11 17 | 40 44 | 77.2 | 11 04 | 39 44 | 77.0 | 10 50 | 38 45 | 76.8 | 10 36 | 37 45 | 76.6 | 10 22 | 36 46 | 76.5 | 10 08 | 35 47 | 76.3 | 197 343 |
| 18 162 | 11 56 | 40 34 | 76.4 | 11 42 | 39 35 | 76.2 | 11 27 | 38 35 | 76.0 | 11 13 | 37 36 | 75.8 | 10 58 | 36 37 | 75.6 | 10 43 | 35 38 | 75.5 | 198 342 |
| 19 161 | 12 35 | 40 25 | 75.6 | 12 20 | 39 25 | 75.4 | 12 05 | 38 26 | 75.2 | 11 49 | 37 26 | 75.0 | 11 34 | 36 27 | 74.8 | 11 18 | 35 28 | 74.6 | 199 341 |
| 20 160 | 13 14 | 40 14 | 74.9 | 12 58 | 39 15 | 74.6 | 12 42 | 38 15 | 74.4 | 12 26 | 37 16 | 74.2 | 12 09 | 36 17 | 74.0 | 11 53 | 35 18 | 73.8 | 200 340 |
| 21 159 | 13 52 | 40 03 | 74.1 | 13 36 | 39 04 | 73.8 | 13 19 | 38 04 | 73.6 | 13 02 | 37 05 | 73.4 | 12 45 | 36 06 | 73.2 | 12 27 | 35 08 | 73.0 | 201 339 |
| 22 158 | 14 31 | 39 51 | 73.3 | 14 14 | 38 52 | 73.0 | 13 56 | 37 53 | 72.8 | 13 38 | 36 54 | 72.6 | 13 20 | 35 55 | 72.3 | 13 02 | 34 56 | 72.1 | 202 338 |
| 23 157 | 15 09 | 39 39 | 72.5 | 14 51 | 38 40 | 72.2 | 14 33 | 37 41 | 72.0 | 14 14 | 36 42 | 71.7 | 13 55 | 35 43 | 71.5 | 13 36 | 34 45 | 71.3 | 203 337 |
| 24 156 | 15 48 | 39 26 | 71.7 | 15 29 | 38 27 | 71.4 | 15 09 | 37 28 | 71.2 | 14 50 | 36 30 | 70.9 | 14 30 | 35 31 | 70.7 | 14 10 | 34 33 | 70.4 | 204 336 |
| 25 155 | 16 26 | 39 13 | 70.9 | 16 06 | 38 14 | 70.6 | 15 46 | 37 15 | 70.3 | 15 25 | 36 17 | 70.1 | 15 05 | 35 18 | 69.8 | 14 44 | 34 20 | 69.6 | 205 335 |
| 26 154 | 17 03 | 38 59 | 70.1 | 16 43 | 38 00 | 69.8 | 16 22 | 37 01 | 69.5 | 16 01 | 36 03 | 69.2 | 15 39 | 35 05 | 69.0 | 15 18 | 34 07 | 68.7 | 206 334 |
| 27 153 | 17 41 | 38 44 | 69.3 | 17 20 | 37 46 | 69.0 | 16 58 | 36 47 | 68.7 | 16 36 | 35 49 | 68.4 | 16 14 | 34 51 | 68.1 | 15 51 | 33 53 | 67.9 | 207 333 |
| 28 152 | 18 19 | 38 29 | 68.4 | 17 56 | 37 30 | 68.1 | 17 34 | 36 32 | 67.8 | 17 11 | 35 34 | 67.5 | 16 48 | 34 36 | 67.3 | 16 25 | 33 38 | 67.0 | 208 332 |
| 29 151 | 18 56 | 38 13 | 67.6 | 18 33 | 37 15 | 67.3 | 18 09 | 36 16 | 67.0 | 17 46 | 35 18 | 66.7 | 17 22 | 34 21 | 66.4 | 16 58 | 33 23 | 66.1 | 209 331 |
| 30 150 | 19 33 | 37 57 | 66.8 | 19 09 | 36 58 | 66.5 | 18 45 | 36 00 | 66.1 | 18 20 | 35 03 | 65.8 | 17 56 | 34 05 | 65.5 | 17 31 | 33 08 | 65.2 | 210 330 |
| 31 149 | 20 10 | 37 40 | 65.9 | 19 45 | 36 41 | 65.6 | 19 20 | 35 44 | 65.3 | 18 55 | 34 46 | 65.0 | 18 29 | 33 49 | 64.7 | 18 03 | 32 52 | 64.4 | 211 329 |
| 32 148 | 20 46 | 37 22 | 65.1 | 20 21 | 36 24 | 64.8 | 19 55 | 35 26 | 64.4 | 19 29 | 34 29 | 64.1 | 19 02 | 33 32 | 63.8 | 18 36 | 32 35 | 63.5 | 212 328 |
| 33 147 | 21 22 | 37 03 | 64.2 | 20 56 | 36 06 | 63.9 | 20 30 | 35 08 | 63.6 | 20 03 | 34 11 | 63.2 | 19 35 | 33 14 | 62.9 | 19 08 | 32 18 | 62.6 | 213 327 |
| 34 146 | 21 58 | 36 44 | 63.4 | 21 31 | 35 47 | 63.0 | 21 04 | 34 49 | 62.7 | 20 36 | 33 53 | 62.3 | 20 08 | 32 56 | 62.0 | 19 40 | 32 00 | 61.7 | 214 326 |
| 35 145 | 22 34 | 36 25 | 62.5 | 22 06 | 35 27 | 62.1 | 21 38 | 34 30 | 61.8 | 21 10 | 33 33 | 61.4 | 20 41 | 32 37 | 61.1 | 20 12 | 31 41 | 60.8 | 215 325 |
| 36 144 | 23 10 | 36 04 | 61.6 | 22 41 | 35 07 | 61.3 | 22 12 | 34 10 | 60.9 | 21 43 | 33 14 | 60.5 | 21 13 | 32 18 | 60.2 | 20 43 | 31 22 | 59.9 | 216 324 |
| 37 143 | 23 45 | 35 43 | 60.8 | 23 15 | 34 46 | 60.4 | 22 45 | 33 50 | 60.0 | 22 15 | 32 54 | 59.6 | 21 45 | 31 58 | 59.3 | 21 14 | 31 02 | 59.0 | 217 323 |
| 38 142 | 24 20 | 35 21 | 59.9 | 23 49 | 34 25 | 59.5 | 23 19 | 33 28 | 59.1 | 22 48 | 32 33 | 58.7 | 22 16 | 31 37 | 58.4 | 21 45 | 30 42 | 58.0 | 218 322 |
| 39 141 | 24 54 | 34 59 | 59.0 | 24 23 | 34 02 | 58.6 | 23 52 | 33 07 | 58.2 | 23 20 | 32 11 | 57.8 | 22 48 | 31 16 | 57.5 | 22 15 | 30 21 | 57.1 | 219 321 |
| 40 140 | 25 28 | 34 36 | 58.1 | 24 57 | 33 40 | 57.7 | 24 24 | 32 44 | 57.3 | 23 52 | 31 49 | 56.9 | 23 19 | 30 54 | 56.5 | 22 45 | 30 00 | 56.2 | 220 320 |
| 41 139 | 26 02 | 34 12 | 57.1 | 25 30 | 33 16 | 56.7 | 24 57 | 32 21 | 56.3 | 24 23 | 31 26 | 56.0 | 23 49 | 30 32 | 55.6 | 23 15 | 29 38 | 55.2 | 221 319 |
| 42 138 | 26 36 | 33 47 | 56.2 | 26 02 | 32 52 | 55.8 | 25 28 | 31 57 | 55.4 | 24 54 | 31 02 | 55.0 | 24 20 | 30 08 | 54.6 | 23 45 | 29 15 | 54.3 | 222 318 |
| 43 137 | 27 09 | 33 22 | 55.3 | 26 35 | 32 27 | 54.9 | 26 00 | 31 32 | 54.5 | 25 25 | 30 38 | 54.1 | 24 50 | 29 45 | 53.7 | 24 14 | 28 52 | 53.3 | 223 317 |
| 44 136 | 27 42 | 32 56 | 54.3 | 27 07 | 32 01 | 53.9 | 26 31 | 31 07 | 53.5 | 25 55 | 30 13 | 53.1 | 25 19 | 29 20 | 52.7 | 24 43 | 28 28 | 52.4 | 224 316 |
| 45 135 | 28 14 | 32 29 | 53.4 | 27 38 | 31 35 | 53.0 | 27 02 | 30 41 | 52.5 | 26 25 | 29 48 | 52.1 | 25 48 | 28 55 | 51.8 | 25 11 | 28 03 | 51.4 | 225 315 |

LATITUD / A: 48° - 53°

| Lat. / A | 48° | | | 49° | | | 50° | | | 51° | | | 52° | | | 53° | | | Lat. / A | | |
|----------|-----|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|----------|-----|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | |
| 45 | 135 | 28 14 | 32 29 | 53.4 | 27 38 | 31 35 | 53.0 | 27 02 | 30 41 | 52.5 | 26 25 | 29 48 | 52.1 | 25 48 | 28 55 | 51.8 | 25 11 | 28 03 | 51.4 | 225 | 315 |
| 46 | 134 | 28 46 | 32 01 | 52.4 | 28 10 | 31 08 | 52.0 | 27 32 | 30 14 | 51.6 | 26 55 | 29 22 | 51.2 | 26 17 | 28 29 | 50.8 | 25 39 | 27 38 | 50.4 | 226 | 314 |
| 47 | 133 | 29 18 | 31 33 | 51.4 | 28 40 | 30 40 | 51.0 | 28 02 | 29 47 | 50.6 | 27 24 | 28 55 | 50.2 | 26 46 | 28 03 | 49.8 | 26 07 | 27 12 | 49.4 | 227 | 313 |
| 48 | 132 | 29 49 | 31 04 | 50.5 | 29 11 | 30 11 | 50.0 | 28 32 | 29 19 | 49.6 | 27 53 | 28 27 | 49.2 | 27 14 | 27 36 | 48.8 | 26 34 | 26 46 | 48.4 | 228 | 312 |
| 49 | 131 | 30 20 | 30 34 | 49.5 | 29 41 | 29 42 | 49.0 | 29 01 | 28 50 | 48.6 | 28 21 | 27 59 | 48.2 | 27 41 | 27 08 | 47.8 | 27 01 | 26 18 | 47.4 | 229 | 311 |
| 50 | 130 | 30 50 | 30 04 | 48.5 | 30 10 | 29 12 | 48.0 | 29 30 | 28 20 | 47.6 | 28 49 | 27 30 | 47.2 | 28 08 | 26 40 | 46.8 | 27 27 | 25 51 | 46.4 | 230 | 310 |
| 51 | 129 | 31 20 | 29 32 | 47.5 | 30 39 | 28 41 | 47.0 | 29 58 | 27 50 | 46.6 | 29 17 | 27 00 | 46.2 | 28 35 | 26 11 | 45.8 | 27 53 | 25 22 | 45.4 | 231 | 309 |
| 52 | 128 | 31 49 | 29 00 | 46.4 | 31 08 | 28 09 | 46.0 | 30 26 | 27 19 | 45.6 | 29 44 | 26 30 | 45.2 | 29 01 | 25 41 | 44.8 | 28 19 | 24 53 | 44.4 | 232 | 308 |
| 53 | 127 | 32 18 | 28 27 | 45.4 | 31 36 | 27 37 | 45.0 | 30 53 | 26 48 | 44.5 | 30 10 | 25 59 | 44.1 | 29 27 | 25 11 | 43.7 | 28 44 | 24 24 | 43.3 | 233 | 307 |
| 54 | 126 | 32 46 | 27 53 | 44.4 | 32 03 | 27 04 | 43.9 | 31 20 | 26 15 | 43.5 | 30 36 | 25 27 | 43.1 | 29 52 | 24 40 | 42.7 | 29 08 | 23 53 | 42.3 | 234 | 306 |
| 55 | 125 | 33 14 | 27 19 | 43.3 | 32 30 | 26 30 | 42.9 | 31 46 | 25 42 | 42.4 | 31 02 | 24 55 | 42.0 | 30 17 | 24 08 | 41.6 | 29 32 | 23 23 | 41.2 | 235 | 305 |
| 56 | 124 | 33 42 | 26 44 | 42.2 | 32 57 | 25 55 | 41.8 | 32 12 | 25 08 | 41.4 | 31 27 | 24 22 | 41.0 | 30 41 | 23 36 | 40.6 | 29 56 | 22 51 | 40.2 | 236 | 304 |
| 57 | 123 | 34 08 | 26 07 | 41.1 | 33 23 | 25 20 | 40.7 | 32 37 | 24 34 | 40.3 | 31 51 | 23 48 | 39.9 | 31 05 | 23 03 | 39.5 | 30 19 | 22 19 | 39.1 | 237 | 303 |
| 58 | 122 | 34 34 | 25 30 | 40.1 | 33 48 | 24 44 | 39.6 | 33 02 | 23 58 | 39.2 | 32 15 | 23 14 | 38.8 | 31 28 | 22 29 | 38.4 | 30 41 | 21 46 | 38.0 | 238 | 302 |
| 59 | 121 | 35 00 | 24 53 | 39.0 | 34 13 | 24 07 | 38.5 | 33 26 | 23 22 | 38.1 | 32 39 | 22 38 | 37.7 | 31 51 | 21 55 | 37.3 | 31 03 | 21 13 | 37.0 | 239 | 301 |
| 60 | 120 | 35 25 | 24 14 | 37.8 | 34 37 | 23 30 | 37.4 | 33 50 | 22 46 | 37.0 | 33 02 | 22 03 | 36.6 | 32 13 | 21 20 | 36.2 | 31 25 | 20 39 | 35.9 | 240 | 300 |
| 61 | 119 | 35 49 | 23 35 | 36.7 | 35 01 | 22 51 | 36.3 | 34 12 | 22 08 | 35.9 | 33 24 | 21 26 | 35.5 | 32 35 | 20 45 | 35.1 | 31 46 | 20 04 | 34.8 | 241 | 299 |
| 62 | 118 | 36 13 | 22 55 | 35.6 | 35 24 | 22 12 | 35.2 | 34 35 | 21 30 | 34.8 | 33 45 | 20 49 | 34.4 | 32 56 | 20 09 | 34.0 | 32 06 | 19 29 | 33.7 | 242 | 298 |
| 63 | 117 | 36 36 | 22 14 | 34.4 | 35 46 | 21 32 | 34.0 | 34 56 | 20 51 | 33.6 | 34 06 | 20 11 | 33.3 | 33 16 | 19 32 | 32.9 | 32 26 | 18 53 | 32.5 | 243 | 297 |
| 64 | 116 | 36 58 | 21 32 | 33.3 | 36 08 | 20 52 | 32.9 | 35 17 | 20 12 | 32.5 | 34 27 | 19 33 | 32.1 | 33 36 | 18 54 | 31.8 | 32 45 | 18 17 | 31.4 | 244 | 296 |
| 65 | 115 | 37 20 | 20 50 | 32.1 | 36 29 | 20 10 | 31.7 | 35 38 | 19 32 | 31.3 | 34 47 | 18 54 | 31.0 | 33 55 | 18 16 | 30.6 | 33 03 | 17 40 | 30.3 | 245 | 295 |
| 66 | 114 | 37 41 | 20 07 | 30.9 | 36 49 | 19 28 | 30.5 | 35 58 | 18 51 | 30.2 | 35 06 | 18 14 | 29.8 | 34 13 | 17 38 | 29.5 | 33 21 | 17 02 | 29.1 | 246 | 294 |
| 67 | 113 | 38 01 | 19 23 | 29.7 | 37 09 | 18 46 | 29.4 | 36 17 | 18 09 | 29.0 | 35 24 | 17 33 | 28.6 | 34 31 | 16 59 | 28.3 | 33 38 | 16 24 | 28.0 | 247 | 293 |
| 68 | 112 | 38 21 | 18 38 | 28.5 | 37 28 | 18 02 | 28.2 | 36 35 | 17 27 | 27.8 | 35 42 | 16 53 | 27.5 | 34 48 | 16 19 | 27.1 | 33 55 | 15 46 | 26.8 | 248 | 292 |
| 69 | 111 | 38 40 | 17 53 | 27.3 | 37 46 | 17 18 | 27.0 | 36 53 | 16 44 | 26.6 | 35 59 | 16 11 | 26.3 | 35 05 | 15 38 | 26.0 | 34 11 | 15 07 | 25.7 | 249 | 291 |
| 70 | 110 | 38 58 | 17 07 | 26.1 | 38 04 | 16 33 | 25.7 | 37 10 | 16 01 | 25.4 | 36 15 | 15 29 | 25.1 | 35 21 | 14 58 | 24.8 | 34 26 | 14 27 | 24.5 | 250 | 290 |
| 71 | 109 | 39 15 | 16 20 | 24.9 | 38 20 | 15 48 | 24.5 | 37 26 | 15 17 | 24.2 | 36 31 | 14 46 | 23.9 | 35 36 | 14 16 | 23.6 | 34 41 | 13 47 | 23.3 | 251 | 289 |
| 72 | 108 | 39 31 | 15 33 | 23.6 | 38 36 | 15 02 | 23.3 | 37 41 | 14 32 | 23.0 | 36 46 | 14 03 | 22.7 | 35 50 | 13 34 | 22.4 | 34 55 | 13 07 | 22.1 | 252 | 288 |
| 73 | 107 | 39 47 | 14 45 | 22.4 | 38 51 | 14 16 | 22.1 | 37 56 | 13 47 | 21.8 | 37 00 | 13 19 | 21.5 | 36 04 | 12 52 | 21.2 | 35 08 | 12 25 | 20.9 | 253 | 287 |
| 74 | 106 | 40 02 | 13 56 | 21.1 | 39 06 | 13 28 | 20.8 | 38 10 | 13 01 | 20.5 | 37 13 | 12 35 | 20.3 | 36 17 | 12 09 | 20.0 | 35 21 | 11 44 | 19.8 | 254 | 286 |
| 75 | 105 | 40 16 | 13 07 | 19.8 | 39 19 | 12 41 | 19.5 | 38 23 | 12 15 | 19.3 | 37 26 | 11 50 | 19.0 | 36 29 | 11 26 | 18.8 | 35 33 | 11 02 | 18.5 | 255 | 285 |
| 76 | 104 | 40 29 | 12 17 | 18.5 | 39 32 | 11 53 | 18.3 | 38 35 | 11 28 | 18.0 | 37 38 | 11 05 | 17.8 | 36 41 | 10 42 | 17.6 | 35 44 | 10 20 | 17.3 | 256 | 284 |
| 77 | 103 | 40 41 | 11 27 | 17.3 | 39 44 | 11 04 | 17.0 | 38 47 | 10 41 | 16.8 | 37 49 | 10 19 | 16.5 | 36 52 | 9 58 | 16.3 | 35 54 | 9 37 | 16.1 | 257 | 283 |
| 78 | 102 | 40 53 | 10 36 | 16.0 | 39 55 | 10 15 | 15.7 | 38 57 | 9 54 | 15.5 | 38 00 | 9 33 | 15.3 | 37 02 | 9 14 | 15.1 | 36 04 | 8 54 | 14.9 | 258 | 282 |
| 79 | 101 | 41 04 | 9 45 | 14.7 | 40 05 | 9 25 | 14.4 | 39 07 | 9 06 | 14.2 | 38 09 | 8 47 | 14.0 | 37 11 | 8 29 | 13.9 | 36 13 | 8 11 | 13.7 | 259 | 281 |
| 80 | 100 | 41 13 | 8 53 | 13.3 | 40 15 | 8 35 | 13.2 | 39 16 | 8 17 | 13.0 | 38 18 | 8 00 | 12.8 | 37 19 | 7 44 | 12.6 | 36 21 | 7 27 | 12.5 | 260 | 280 |
| 81 | 99 | 41 22 | 8 01 | 12.0 | 40 23 | 7 45 | 11.9 | 39 25 | 7 29 | 11.7 | 38 26 | 7 13 | 11.5 | 37 27 | 6 58 | 11.4 | 36 28 | 6 43 | 11.2 | 261 | 279 |
| 82 | 98 | 41 30 | 7 09 | 10.7 | 40 31 | 6 54 | 10.5 | 39 32 | 6 40 | 10.4 | 38 33 | 6 26 | 10.3 | 37 34 | 6 12 | 10.1 | 36 35 | 5 59 | 10.0 | 262 | 278 |
| 83 | 97 | 41 37 | 6 16 | 9.4 | 40 38 | 6 03 | 9.2 | 39 39 | 5 50 | 9.1 | 38 39 | 5 38 | 9.0 | 37 40 | 5 26 | 8.9 | 36 41 | 5 15 | 8.7 | 263 | 277 |
| 84 | 96 | 41 43 | 5 23 | 8.1 | 40 44 | 5 12 | 7.9 | 39 44 | 5 01 | 7.8 | 38 45 | 4 50 | 7.7 | 37 45 | 4 40 | 7.6 | 36 46 | 4 30 | 7.5 | 264 | 276 |
| 85 | 95 | 41 48 | 4 29 | 6.7 | 40 49 | 4 20 | 6.6 | 39 49 | 4 11 | 6.5 | 38 49 | 4 02 | 6.4 | 37 50 | 3 54 | 6.3 | 36 50 | 3 45 | 6.3 | 265 | 275 |
| 86 | 94 | 41 52 | 3 36 | 5.4 | 40 53 | 3 28 | 5.3 | 39 53 | 3 21 | 5.2 | 38 53 | 3 14 | 5.1 | 37 53 | 3 07 | 5.1 | 36 54 | 3 01 | 5.0 | 266 | 274 |
| 87 | 93 | 41 56 | 2 42 | 4.0 | 40 56 | 2 36 | 4.0 | 39 56 | 2 31 | 3.9 | 38 56 | 2 26 | 3.9 | 37 56 | 2 20 | 3.8 | 36 56 | 2 16 | 3.8 | 267 | 273 |
| 88 | 92 | 41 58 | 1 48 | 2.7 | 40 58 | 1 44 | 2.6 | 39 58 | 1 41 | 2.6 | 38 58 | 1 37 | 2.6 | 37 58 | 1 34 | 2.5 | 36 58 | 1 30 | 2.5 | 268 | 272 |
| 89 | 91 | 42 00 | 0 54 | 1.3 | 41 00 | 0 52 | 1.3 | 40 00 | 0 50 | 1.3 | 39 00 | 0 49 | 1.3 | 38 00 | 0 47 | 1.3 | 37 00 | 0 45 | 1.3 | 269 | 271 |
| 90 | 90 | 42 00 | 0 00 | 0.0 | 41 00 | 0 00 | 0.0 | 40 00 | 0 00 | 0.0 | 39 00 | 0 00 | 0.0 | 38 00 | 0 00 | 0.0 | 37 00 | 0 00 | 0.0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (-) para 90° < AHL < 270°

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
Z₂: (-) para F > 90°

Dec: (-) para la Lat. especificada y opuesta.

| Lat. / A | 54° | | | 55° | | | 56° | | | 57° | | | 58° | | | 59° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 36 00 | 90.0 | 0 00 | 35 00 | 90.0 | 0 00 | 34 00 | 90.0 | 0 00 | 33 00 | 90.0 | 0 00 | 32 00 | 90.0 | 0 00 | 31 00 | 90.0 | 180 360 |
| 1 179 | 0 35 | 36 00 | 89.2 | 0 34 | 35 00 | 89.2 | 0 34 | 34 00 | 89.2 | 0 33 | 33 00 | 89.2 | 0 32 | 32 00 | 89.2 | 0 31 | 31 00 | 89.1 | 181 359 |
| 2 178 | 1 11 | 35 59 | 88.4 | 1 09 | 34 59 | 88.4 | 1 07 | 33 59 | 88.3 | 1 05 | 32 59 | 88.3 | 1 04 | 31 59 | 88.3 | 1 02 | 30 59 | 88.3 | 182 358 |
| 3 177 | 1 46 | 35 58 | 87.6 | 1 43 | 34 58 | 87.5 | 1 41 | 33 58 | 87.5 | 1 38 | 32 58 | 87.5 | 1 35 | 31 58 | 87.5 | 1 33 | 30 58 | 87.4 | 183 357 |
| 4 176 | 2 21 | 35 56 | 86.8 | 2 18 | 34 56 | 86.7 | 2 14 | 33 56 | 86.7 | 2 11 | 32 56 | 86.6 | 2 07 | 31 56 | 86.6 | 2 04 | 30 56 | 86.6 | 184 356 |
| 5 175 | 2 56 | 35 54 | 86.0 | 2 52 | 34 54 | 85.9 | 2 48 | 33 54 | 85.9 | 2 43 | 32 54 | 85.8 | 2 39 | 31 54 | 85.8 | 2 34 | 30 54 | 85.7 | 185 355 |
| 6 174 | 3 31 | 35 51 | 85.1 | 3 26 | 34 51 | 85.1 | 3 21 | 33 51 | 85.0 | 3 16 | 32 51 | 85.0 | 3 11 | 31 52 | 84.9 | 3 05 | 30 52 | 84.9 | 186 354 |
| 7 173 | 4 06 | 35 48 | 84.3 | 4 00 | 34 48 | 84.3 | 3 54 | 33 48 | 84.2 | 3 48 | 32 48 | 84.1 | 3 42 | 31 48 | 84.1 | 3 36 | 30 49 | 84.0 | 187 353 |
| 8 172 | 4 42 | 35 44 | 83.5 | 4 35 | 34 44 | 83.4 | 4 28 | 33 44 | 83.4 | 4 21 | 32 45 | 83.3 | 4 14 | 31 45 | 83.2 | 4 07 | 30 45 | 83.1 | 188 352 |
| 9 171 | 5 17 | 35 40 | 82.7 | 5 09 | 34 40 | 82.6 | 5 01 | 33 40 | 82.5 | 4 53 | 32 41 | 82.4 | 4 45 | 31 41 | 82.3 | 4 37 | 30 41 | 82.3 | 189 351 |
| 10 170 | 5 51 | 35 35 | 81.9 | 5 43 | 34 35 | 81.8 | 5 34 | 33 36 | 81.7 | 5 26 | 32 36 | 81.6 | 5 17 | 31 36 | 81.5 | 5 08 | 30 37 | 81.4 | 190 350 |
| 11 169 | 6 26 | 35 30 | 81.1 | 6 17 | 34 30 | 81.0 | 6 08 | 33 31 | 80.8 | 5 58 | 32 31 | 80.7 | 5 48 | 31 31 | 80.6 | 5 38 | 30 32 | 80.5 | 191 349 |
| 12 168 | 7 01 | 35 24 | 80.2 | 6 51 | 34 24 | 80.1 | 6 41 | 33 25 | 80.0 | 6 30 | 32 25 | 79.9 | 6 20 | 31 26 | 79.8 | 6 09 | 30 27 | 79.7 | 192 348 |
| 13 167 | 7 36 | 35 18 | 79.4 | 7 25 | 34 18 | 79.3 | 7 14 | 33 19 | 79.2 | 7 02 | 32 19 | 79.0 | 6 51 | 31 20 | 78.9 | 6 39 | 30 21 | 78.8 | 193 347 |
| 14 166 | 8 11 | 35 11 | 78.6 | 7 59 | 34 12 | 78.5 | 7 46 | 33 12 | 78.3 | 7 34 | 32 13 | 78.2 | 7 22 | 31 14 | 78.1 | 7 09 | 30 15 | 77.9 | 194 346 |
| 15 165 | 8 45 | 35 04 | 77.8 | 8 32 | 34 04 | 77.6 | 8 19 | 33 05 | 77.5 | 8 06 | 32 06 | 77.3 | 7 53 | 31 07 | 77.2 | 7 40 | 30 08 | 77.1 | 195 345 |
| 16 164 | 9 19 | 34 56 | 76.9 | 9 06 | 33 57 | 76.8 | 8 52 | 32 58 | 76.6 | 8 38 | 31 58 | 76.5 | 8 24 | 31 00 | 76.3 | 8 10 | 30 01 | 76.2 | 196 344 |
| 17 163 | 9 54 | 34 47 | 76.1 | 9 39 | 33 48 | 75.9 | 9 25 | 32 49 | 75.8 | 9 10 | 31 50 | 75.6 | 8 55 | 30 52 | 75.5 | 8 40 | 29 53 | 75.3 | 197 343 |
| 18 162 | 10 28 | 34 39 | 75.3 | 10 13 | 33 40 | 75.1 | 9 57 | 32 41 | 74.9 | 9 41 | 31 42 | 74.8 | 9 25 | 30 43 | 74.6 | 9 09 | 29 45 | 74.4 | 198 342 |
| 19 161 | 11 02 | 34 29 | 74.4 | 10 46 | 33 30 | 74.2 | 10 29 | 32 32 | 74.1 | 10 13 | 31 33 | 73.9 | 9 56 | 30 35 | 73.7 | 9 39 | 29 36 | 73.6 | 199 341 |
| 20 160 | 11 36 | 34 19 | 73.6 | 11 19 | 33 21 | 73.4 | 11 02 | 32 22 | 73.2 | 10 44 | 31 24 | 73.0 | 10 27 | 30 25 | 72.8 | 10 09 | 29 27 | 72.7 | 200 340 |
| 21 159 | 12 10 | 34 09 | 72.7 | 11 52 | 33 10 | 72.5 | 11 34 | 32 12 | 72.3 | 11 15 | 31 14 | 72.2 | 10 57 | 30 15 | 72.0 | 10 38 | 29 17 | 71.8 | 201 339 |
| 22 158 | 12 43 | 33 58 | 71.9 | 12 24 | 33 00 | 71.7 | 12 06 | 32 01 | 71.5 | 11 46 | 31 03 | 71.3 | 11 27 | 30 05 | 71.1 | 11 07 | 29 07 | 70.9 | 202 338 |
| 23 157 | 13 17 | 33 46 | 71.0 | 12 57 | 32 48 | 70.8 | 12 37 | 31 50 | 70.6 | 12 17 | 30 52 | 70.4 | 11 57 | 29 54 | 70.2 | 11 37 | 28 57 | 70.0 | 203 337 |
| 24 156 | 13 50 | 33 34 | 70.2 | 13 29 | 32 36 | 70.0 | 13 09 | 31 38 | 69.7 | 12 48 | 30 41 | 69.5 | 12 27 | 29 43 | 69.3 | 12 06 | 28 46 | 69.1 | 204 336 |
| 25 155 | 14 23 | 33 22 | 69.3 | 14 02 | 32 24 | 69.1 | 13 40 | 31 26 | 68.8 | 13 18 | 30 29 | 68.6 | 12 56 | 29 31 | 68.4 | 12 34 | 28 34 | 68.2 | 205 335 |
| 26 154 | 14 56 | 33 09 | 68.5 | 14 34 | 32 11 | 68.2 | 14 11 | 31 14 | 68.0 | 13 49 | 30 16 | 67.8 | 13 26 | 29 19 | 67.5 | 13 03 | 28 22 | 67.3 | 206 334 |
| 27 153 | 15 29 | 32 55 | 67.6 | 15 06 | 31 58 | 67.3 | 14 42 | 31 00 | 67.1 | 14 19 | 30 03 | 66.9 | 13 55 | 29 06 | 66.6 | 13 31 | 28 10 | 66.4 | 207 333 |
| 28 152 | 16 01 | 32 41 | 66.7 | 15 37 | 31 44 | 66.5 | 15 13 | 30 47 | 66.2 | 14 49 | 29 50 | 66.0 | 14 24 | 28 53 | 65.7 | 14 00 | 27 57 | 65.5 | 208 332 |
| 29 151 | 16 33 | 32 26 | 65.8 | 16 09 | 31 29 | 65.6 | 15 44 | 30 32 | 65.3 | 15 19 | 29 36 | 65.1 | 14 53 | 28 39 | 64.8 | 14 28 | 27 43 | 64.6 | 209 331 |
| 30 150 | 17 05 | 32 11 | 65.0 | 16 40 | 31 14 | 64.7 | 16 14 | 30 17 | 64.4 | 15 48 | 29 21 | 64.2 | 15 22 | 28 25 | 63.9 | 14 55 | 27 29 | 63.7 | 210 330 |
| 31 149 | 17 37 | 31 55 | 64.1 | 17 11 | 30 58 | 63.8 | 16 44 | 30 02 | 63.5 | 16 17 | 29 06 | 63.3 | 15 50 | 28 10 | 63.0 | 15 23 | 27 15 | 62.7 | 211 329 |
| 32 148 | 18 09 | 31 38 | 63.2 | 17 42 | 30 42 | 62.9 | 17 14 | 29 46 | 62.6 | 16 47 | 28 51 | 62.3 | 16 19 | 27 55 | 62.1 | 15 50 | 27 00 | 61.8 | 212 328 |
| 33 147 | 18 40 | 31 21 | 62.3 | 18 12 | 30 25 | 62.0 | 17 44 | 29 30 | 61.7 | 17 15 | 28 34 | 61.4 | 16 47 | 27 39 | 61.2 | 16 17 | 26 45 | 60.9 | 213 327 |
| 34 146 | 19 11 | 31 04 | 61.4 | 18 42 | 30 08 | 61.1 | 18 13 | 29 13 | 60.8 | 17 44 | 28 18 | 60.5 | 17 14 | 27 23 | 60.2 | 16 44 | 26 29 | 60.0 | 214 326 |
| 35 145 | 19 42 | 30 46 | 60.5 | 19 12 | 29 50 | 60.2 | 18 42 | 28 55 | 59.9 | 18 12 | 28 01 | 59.6 | 17 42 | 27 06 | 59.3 | 17 11 | 26 12 | 59.0 | 215 325 |
| 36 144 | 20 13 | 30 27 | 59.6 | 19 42 | 29 32 | 59.2 | 19 11 | 28 37 | 58.9 | 18 40 | 27 43 | 58.6 | 18 09 | 26 49 | 58.4 | 17 37 | 25 55 | 58.1 | 216 324 |
| 37 143 | 20 43 | 30 07 | 58.6 | 20 12 | 29 13 | 58.3 | 19 40 | 28 19 | 58.0 | 19 08 | 27 25 | 57.7 | 18 36 | 26 31 | 57.4 | 18 03 | 25 38 | 57.1 | 217 323 |
| 38 142 | 21 13 | 29 48 | 57.7 | 20 41 | 28 53 | 57.4 | 20 08 | 27 59 | 57.1 | 19 35 | 27 06 | 56.8 | 19 02 | 26 13 | 56.5 | 18 29 | 25 20 | 56.2 | 218 322 |
| 39 141 | 21 43 | 29 27 | 56.8 | 21 10 | 28 33 | 56.4 | 20 36 | 27 40 | 56.1 | 20 03 | 26 47 | 55.8 | 19 29 | 25 54 | 55.5 | 18 55 | 25 02 | 55.2 | 219 321 |
| 40 140 | 22 12 | 29 06 | 55.8 | 21 38 | 28 13 | 55.5 | 21 04 | 27 20 | 55.2 | 20 30 | 26 27 | 54.9 | 19 55 | 25 35 | 54.6 | 19 20 | 24 43 | 54.3 | 220 320 |
| 41 139 | 22 41 | 28 44 | 54.9 | 22 06 | 27 51 | 54.5 | 21 31 | 26 59 | 54.2 | 20 56 | 26 07 | 53.9 | 20 21 | 25 15 | 53.6 | 19 45 | 24 24 | 53.3 | 221 319 |
| 42 138 | 23 10 | 28 22 | 53.9 | 22 34 | 27 29 | 53.6 | 21 58 | 26 37 | 53.3 | 21 22 | 25 46 | 52.9 | 20 46 | 24 55 | 52.6 | 20 10 | 24 04 | 52.3 | 222 318 |
| 43 137 | 23 38 | 27 59 | 53.0 | 23 02 | 27 07 | 52.6 | 22 25 | 26 15 | 52.3 | 21 48 | 25 24 | 52.0 | 21 11 | 24 34 | 51.7 | 20 34 | 23 43 | 51.4 | 223 317 |
| 44 136 | 24 06 | 27 36 | 52.0 | 23 29 | 26 44 | 51.7 | 22 51 | 25 53 | 51.3 | 22 14 | 25 02 | 51.0 | 21 36 | 24 12 | 50.7 | 20 58 | 23 23 | 50.4 | 224 316 |
| 45 135 | 24 34 | 27 11 | 51.0 | 23 56 | 26 20 | 50.7 | 23 17 | 25 30 | 50.3 | 22 39 | 24 40 | 50.0 | 22 00 | 23 50 | 49.7 | 21 21 | 23 01 | 49.4 | 225 315 |

LATITUD / A: 54° - 59°

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| Lat. / A | 54° | | | | 55° | | | | 56° | | | | 57° | | | | 58° | | | | 59° | | | | Lat. / A | |
|----------|-----|-------|--------------------------------|------|-------|-------|--------------------------------|--|-------|-------|--------------------------------|--|-------|-------|--------------------------------|--|-------|-------|--------------------------------|--|-------|-------|--------------------------------|--|----------|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | | A/H | B/P | Z ₁ /Z ₂ | | A/H | B/P | Z ₁ /Z ₂ | | A/H | B/P | Z ₁ /Z ₂ | | A/H | B/P | Z ₁ /Z ₂ | | A/H | B/P | Z ₁ /Z ₂ | | AHL | |
| 45 | 135 | 24 34 | 27 11 | 51.0 | 23 56 | 26 20 | 50.7 | | 23 17 | 25 30 | 50.3 | | 22 39 | 24 40 | 50.0 | | 22 00 | 23 50 | 49.7 | | 21 21 | 23 01 | 49.4 | | 225 | 315 |
| 46 | 134 | 25 01 | 26 47 | 50.0 | 24 22 | 25 56 | 49.7 | | 23 43 | 25 06 | 49.4 | | 23 04 | 24 17 | 49.0 | | 22 24 | 23 28 | 48.7 | | 21 45 | 22 39 | 48.4 | | 226 | 314 |
| 47 | 133 | 25 28 | 26 22 | 49.1 | 24 48 | 25 32 | 48.7 | | 24 08 | 24 42 | 48.4 | | 23 28 | 23 53 | 48.0 | | 22 48 | 23 05 | 47.7 | | 22 08 | 22 17 | 47.4 | | 227 | 313 |
| 48 | 132 | 25 54 | 25 56 | 48.1 | 25 14 | 25 06 | 47.7 | | 24 33 | 24 17 | 47.4 | | 23 53 | 23 29 | 47.0 | | 23 11 | 22 41 | 46.7 | | 22 30 | 21 54 | 46.4 | | 228 | 312 |
| 49 | 131 | 26 20 | 25 29 | 47.1 | 25 39 | 24 40 | 46.7 | | 24 58 | 23 52 | 46.4 | | 24 16 | 23 05 | 46.0 | | 23 34 | 22 17 | 45.7 | | 22 52 | 21 31 | 45.4 | | 229 | 311 |
| 50 | 130 | 26 46 | 25 02 | 46.0 | 26 04 | 24 14 | 45.7 | | 25 22 | 23 26 | 45.3 | | 24 20 | 22 39 | 45.0 | | 23 57 | 21 53 | 44.7 | | 23 14 | 21 07 | 44.4 | | 230 | 310 |
| 51 | 129 | 27 11 | 24 34 | 45.0 | 26 28 | 23 47 | 44.7 | | 25 45 | 23 00 | 44.3 | | 25 02 | 22 14 | 44.0 | | 24 19 | 21 28 | 43.7 | | 23 36 | 20 43 | 43.4 | | 231 | 309 |
| 52 | 128 | 27 36 | 24 06 | 44.0 | 26 52 | 23 19 | 43.6 | | 26 09 | 22 33 | 43.3 | | 25 25 | 21 48 | 43.0 | | 24 41 | 21 03 | 42.7 | | 23 57 | 20 18 | 42.3 | | 232 | 308 |
| 53 | 127 | 28 00 | 23 37 | 43.0 | 27 16 | 22 51 | 42.6 | | 26 32 | 22 06 | 42.3 | | 25 47 | 21 21 | 41.9 | | 25 02 | 20 37 | 41.6 | | 24 17 | 19 53 | 41.3 | | 233 | 307 |
| 54 | 126 | 28 24 | 23 07 | 41.9 | 27 39 | 22 22 | 41.6 | | 26 54 | 21 38 | 41.2 | | 26 09 | 20 54 | 40.9 | | 25 23 | 20 10 | 40.6 | | 24 37 | 19 27 | 40.3 | | 234 | 306 |
| 55 | 125 | 28 47 | 22 37 | 40.9 | 28 01 | 21 53 | 40.5 | | 27 16 | 21 09 | 40.2 | | 26 30 | 20 26 | 39.9 | | 25 44 | 19 43 | 39.5 | | 24 57 | 19 01 | 39.2 | | 235 | 305 |
| 56 | 124 | 29 10 | 22 07 | 39.8 | 28 24 | 21 23 | 39.5 | | 27 37 | 20 40 | 39.1 | | 26 50 | 19 57 | 38.8 | | 26 04 | 19 16 | 38.5 | | 25 17 | 18 34 | 38.2 | | 236 | 304 |
| 57 | 123 | 29 32 | 21 35 | 38.8 | 28 45 | 20 52 | 38.4 | | 27 58 | 20 10 | 38.1 | | 27 11 | 19 29 | 37.8 | | 26 23 | 18 48 | 37.4 | | 25 35 | 18 07 | 37.1 | | 237 | 303 |
| 58 | 122 | 29 54 | 21 03 | 37.7 | 29 06 | 20 21 | 37.3 | | 28 19 | 19 40 | 37.0 | | 27 31 | 18 59 | 37.6 | | 26 42 | 18 19 | 36.4 | | 25 54 | 17 40 | 36.1 | | 238 | 302 |
| 59 | 121 | 30 15 | 20 31 | 36.6 | 29 27 | 19 50 | 36.3 | | 28 38 | 19 09 | 35.9 | | 27 50 | 18 30 | 36.5 | | 27 01 | 17 50 | 35.3 | | 26 12 | 17 12 | 35.0 | | 239 | 301 |
| 60 | 120 | 30 36 | 19 58 | 35.5 | 29 47 | 19 18 | 35.2 | | 28 58 | 18 38 | 34.9 | | 28 09 | 17 59 | 34.6 | | 27 19 | 17 21 | 34.2 | | 26 29 | 16 43 | 34.0 | | 240 | 300 |
| 61 | 119 | 30 56 | 19 24 | 34.4 | 30 07 | 18 45 | 34.1 | | 29 17 | 18 06 | 33.8 | | 28 27 | 17 29 | 33.5 | | 27 37 | 16 51 | 33.2 | | 26 46 | 16 14 | 32.9 | | 241 | 299 |
| 62 | 118 | 31 16 | 18 50 | 33.3 | 30 26 | 18 12 | 33.0 | | 29 35 | 17 34 | 32.7 | | 28 45 | 16 57 | 32.4 | | 27 54 | 16 21 | 32.1 | | 27 03 | 15 45 | 31.8 | | 242 | 298 |
| 63 | 117 | 31 35 | 18 15 | 32.2 | 30 44 | 17 38 | 31.9 | | 29 53 | 17 02 | 31.6 | | 29 02 | 16 26 | 31.3 | | 28 10 | 15 50 | 31.0 | | 27 19 | 15 15 | 30.7 | | 243 | 297 |
| 64 | 116 | 31 53 | 17 40 | 31.1 | 31 02 | 17 04 | 30.8 | | 30 10 | 16 28 | 30.5 | | 29 19 | 15 53 | 30.2 | | 28 27 | 15 19 | 29.9 | | 27 35 | 14 45 | 29.6 | | 244 | 296 |
| 65 | 115 | 32 11 | 17 04 | 30.0 | 31 19 | 16 29 | 29.7 | | 30 27 | 15 55 | 29.4 | | 29 35 | 15 21 | 29.1 | | 28 42 | 14 48 | 28.8 | | 27 50 | 14 15 | 28.5 | | 245 | 295 |
| 66 | 114 | 32 29 | 16 28 | 28.8 | 31 36 | 15 54 | 28.5 | | 30 43 | 15 20 | 28.2 | | 29 50 | 14 48 | 28.0 | | 28 57 | 14 16 | 27.7 | | 28 04 | 13 44 | 27.4 | | 246 | 294 |
| 67 | 113 | 32 45 | 15 51 | 27.7 | 31 52 | 15 18 | 27.4 | | 30 59 | 14 46 | 27.1 | | 30 05 | 14 14 | 26.8 | | 29 12 | 13 43 | 26.6 | | 28 18 | 13 13 | 26.3 | | 247 | 293 |
| 68 | 112 | 33 01 | 15 14 | 26.5 | 32 08 | 14 42 | 26.3 | | 31 14 | 14 11 | 26.0 | | 30 20 | 13 40 | 25.7 | | 29 26 | 13 10 | 25.5 | | 28 31 | 12 41 | 25.2 | | 248 | 292 |
| 69 | 111 | 33 17 | 14 36 | 25.4 | 32 23 | 14 05 | 25.1 | | 31 28 | 13 35 | 24.8 | | 30 34 | 13 06 | 24.6 | | 29 39 | 12 37 | 24.4 | | 28 44 | 12 09 | 24.1 | | 249 | 291 |
| 70 | 110 | 33 32 | 13 57 | 24.2 | 32 37 | 13 28 | 24.0 | | 31 42 | 12 59 | 23.7 | | 30 47 | 12 31 | 23.5 | | 29 52 | 12 04 | 23.2 | | 28 57 | 11 37 | 23.0 | | 250 | 290 |
| 71 | 109 | 33 46 | 13 18 | 23.1 | 32 51 | 12 51 | 22.8 | | 31 55 | 12 23 | 22.6 | | 31 00 | 11 56 | 22.3 | | 30 04 | 11 30 | 22.1 | | 29 09 | 11 04 | 21.9 | | 251 | 289 |
| 72 | 108 | 33 59 | 12 39 | 21.9 | 33 04 | 12 13 | 21.6 | | 32 08 | 11 46 | 21.4 | | 31 12 | 11 21 | 21.2 | | 30 16 | 10 56 | 21.0 | | 29 20 | 10 31 | 20.8 | | 252 | 288 |
| 73 | 107 | 34 12 | 12 00 | 20.7 | 33 16 | 11 34 | 20.5 | | 32 20 | 11 09 | 20.2 | | 31 23 | 10 45 | 20.0 | | 30 27 | 10 21 | 19.8 | | 29 30 | 9 58 | 19.6 | | 253 | 287 |
| 74 | 106 | 34 24 | 11 19 | 19.5 | 33 28 | 10 55 | 19.3 | | 32 31 | 10 32 | 19.1 | | 31 34 | 10 09 | 18.9 | | 30 37 | 9 46 | 18.7 | | 29 41 | 9 24 | 18.5 | | 254 | 286 |
| 75 | 105 | 34 36 | 10 39 | 18.3 | 33 39 | 10 16 | 18.1 | | 32 42 | 9 54 | 17.9 | | 31 44 | 9 32 | 17.7 | | 30 47 | 9 11 | 17.5 | | 29 50 | 8 50 | 17.4 | | 255 | 285 |
| 76 | 104 | 34 46 | 9 58 | 17.1 | 33 49 | 9 37 | 16.9 | | 32 52 | 9 16 | 16.7 | | 31 54 | 8 56 | 16.6 | | 30 57 | 8 36 | 16.4 | | 29 59 | 8 16 | 16.2 | | 256 | 284 |
| 77 | 103 | 34 56 | 9 17 | 15.9 | 33 59 | 8 57 | 15.7 | | 33 01 | 8 38 | 15.6 | | 32 03 | 8 19 | 15.4 | | 31 05 | 8 00 | 15.2 | | 30 07 | 7 42 | 15.1 | | 257 | 283 |
| 78 | 102 | 35 06 | 8 35 | 14.7 | 34 08 | 8 17 | 14.5 | | 33 10 | 7 59 | 14.4 | | 32 11 | 7 41 | 14.2 | | 31 13 | 7 24 | 14.1 | | 30 15 | 7 07 | 13.9 | | 258 | 282 |
| 79 | 101 | 35 14 | 7 54 | 13.5 | 34 16 | 7 37 | 13.3 | | 33 18 | 7 20 | 13.2 | | 32 19 | 7 04 | 13.0 | | 31 21 | 6 48 | 12.9 | | 30 22 | 6 32 | 12.8 | | 259 | 281 |
| 80 | 100 | 35 22 | 7 11 | 12.3 | 34 24 | 6 56 | 12.1 | | 33 25 | 6 41 | 12.0 | | 32 26 | 6 26 | 11.9 | | 31 27 | 6 12 | 11.7 | | 30 29 | 5 57 | 11.6 | | 260 | 280 |
| 81 | 99 | 35 29 | 6 29 | 11.1 | 34 30 | 6 15 | 10.9 | | 33 32 | 6 01 | 10.8 | | 32 33 | 5 48 | 10.7 | | 31 34 | 5 35 | 10.6 | | 30 35 | 5 22 | 10.5 | | 261 | 279 |
| 82 | 98 | 35 36 | 5 46 | 9.9 | 34 37 | 5 34 | 9.7 | | 33 37 | 5 22 | 9.6 | | 32 38 | 5 10 | 9.5 | | 31 39 | 4 58 | 9.4 | | 30 40 | 4 47 | 9.3 | | 262 | 278 |
| 83 | 97 | 35 41 | 5 04 | 8.6 | 34 42 | 4 53 | 8.5 | | 33 43 | 4 42 | 8.4 | | 32 43 | 4 32 | 8.3 | | 31 44 | 4 21 | 8.2 | | 30 45 | 4 11 | 8.2 | | 263 | 277 |
| 84 | 96 | 35 46 | 4 21 | 7.4 | 34 47 | 4 11 | 7.3 | | 33 47 | 4 02 | 7.2 | | 32 48 | 3 53 | 7.1 | | 31 48 | 3 44 | 7.1 | | 30 49 | 3 36 | 7.0 | | 264 | 276 |
| 85 | 95 | 35 51 | 3 37 | 6.2 | 34 51 | 3 30 | 6.1 | | 33 51 | 3 22 | 6.0 | | 32 52 | 3 14 | 6.0 | | 31 52 | 3 07 | 5.9 | | 30 52 | 3 00 | 5.8 | | 265 | 275 |
| 86 | 94 | 35 54 | 2 54 | 4.9 | 34 54 | 2 48 | 4.9 | | 33 54 | 2 42 | 4.8 | | 32 55 | 2 36 | 4.8 | | 31 55 | 2 30 | 4.7 | | 30 55 | 2 24 | 4.7 | | 266 | 274 |
| 87 | 93 | 35 57 | 2 11 | 3.7 | 34 57 | 2 06 | 3.7 | | 33 57 | 2 01 | 3.6 | | 32 57 | 1 57 | 3.6 | | 31 57 | 1 52 | 3.5 | | 30 57 | 1 48 | 3.5 | | 267 | 273 |
| 88 | 92 | 35 58 | 1 27 | 2.5 | 34 59 | 1 24 | 2.4 | | 33 59 | 1 21 | 2.4 | | 32 59 | 1 18 | 2.4 | | 31 59 | 1 15 | 2.4 | | 30 59 | 1 12 | 2.3 | | 268 | 272 |
| 89 | 91 | 36 00 | 0 44 | 1.2 | 35 00 | 0 42 | 1.2 | | 34 00 | 0 40 | 1.2 | | 33 00 | 0 39 | 1.2 | | 32 00 | 0 37 | 1.2 | | 31 00 | 0 36 | 1.2 | | 269 | 271 |
| 90 | 90 | 36 00 | 0 00 | 0.0 | 35 00 | 0 00 | 0.0 | | 34 00 | 0 00 | 0.0 | | 33 00 | 0 00 | 0.0 | | 32 00 | 0 00 | 0.0 | | 31 00 | 0 00 | 0.0 | | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (-) para $90^\circ < \text{AHL} < 270^\circ$

Dec: (-) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

 Z_1 : mismo signo que B
 Z_2 : (-) para $F > 90^\circ$

| Lat. / A | 60° | | | 61° | | | 62° | | | 63° | | | 64° | | | 65° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 30 00 | 90.0 | 0 00 | 29 00 | 90.0 | 0 00 | 28 00 | 90.0 | 0 00 | 27 00 | 90.0 | 0 00 | 26 00 | 90.0 | 0 00 | 25 00 | 90.0 | 180 360 |
| 1 179 | 0 30 | 30 00 | 89.1 | 0 29 | 29 00 | 89.1 | 0 28 | 28 00 | 89.1 | 0 27 | 27 00 | 89.1 | 0 26 | 26 00 | 89.1 | 0 25 | 25 00 | 89.1 | 181 359 |
| 2 178 | 1 00 | 29 59 | 88.3 | 0 58 | 28 59 | 88.3 | 0 56 | 27 59 | 88.2 | 0 54 | 26 59 | 88.2 | 0 53 | 25 59 | 88.2 | 0 51 | 24 59 | 88.2 | 182 358 |
| 3 177 | 1 30 | 29 58 | 87.4 | 1 27 | 28 58 | 87.4 | 1 24 | 27 58 | 87.4 | 1 22 | 26 58 | 87.3 | 1 19 | 25 58 | 87.3 | 1 16 | 24 58 | 87.3 | 183 357 |
| 4 176 | 2 00 | 29 56 | 86.5 | 1 56 | 28 56 | 86.5 | 1 53 | 27 57 | 86.5 | 1 49 | 26 57 | 86.4 | 1 45 | 25 57 | 86.4 | 1 41 | 24 57 | 86.4 | 184 356 |
| 5 175 | 2 30 | 29 54 | 85.7 | 2 25 | 28 54 | 85.6 | 2 21 | 27 55 | 85.6 | 2 16 | 26 55 | 85.5 | 2 11 | 25 55 | 85.5 | 2 07 | 24 55 | 85.5 | 185 355 |
| 6 174 | 3 00 | 29 52 | 84.8 | 2 54 | 28 52 | 84.7 | 2 49 | 27 52 | 84.7 | 2 43 | 26 52 | 84.6 | 2 38 | 25 53 | 84.6 | 2 32 | 24 53 | 84.6 | 186 354 |
| 7 173 | 3 30 | 29 49 | 83.9 | 3 23 | 28 49 | 83.9 | 3 17 | 27 49 | 83.8 | 3 10 | 26 50 | 83.8 | 3 04 | 25 50 | 83.7 | 2 57 | 24 50 | 83.7 | 187 353 |
| 8 172 | 3 59 | 29 45 | 83.1 | 3 52 | 28 46 | 83.0 | 3 45 | 27 46 | 82.9 | 3 37 | 26 46 | 82.9 | 3 30 | 25 47 | 82.8 | 3 22 | 24 47 | 82.8 | 188 352 |
| 9 171 | 4 29 | 29 42 | 82.2 | 4 21 | 28 42 | 82.1 | 4 13 | 27 42 | 82.0 | 4 04 | 26 43 | 82.0 | 3 56 | 25 43 | 81.9 | 3 47 | 24 44 | 81.8 | 189 351 |
| 10 170 | 4 59 | 29 37 | 81.3 | 4 50 | 28 38 | 81.2 | 4 41 | 27 38 | 81.2 | 4 31 | 26 39 | 81.1 | 4 22 | 25 39 | 81.0 | 4 13 | 24 40 | 80.9 | 190 350 |
| 11 169 | 5 28 | 29 33 | 80.4 | 5 18 | 28 33 | 80.4 | 5 08 | 27 34 | 80.3 | 4 58 | 26 34 | 80.2 | 4 48 | 25 35 | 80.1 | 4 38 | 24 36 | 80.0 | 191 349 |
| 12 168 | 5 58 | 29 27 | 79.6 | 5 47 | 28 28 | 79.5 | 5 36 | 27 29 | 79.4 | 5 25 | 26 29 | 79.3 | 5 14 | 25 30 | 79.2 | 5 02 | 24 31 | 79.1 | 192 348 |
| 13 167 | 6 27 | 29 22 | 78.7 | 6 16 | 28 22 | 78.6 | 6 04 | 27 23 | 78.5 | 5 52 | 26 24 | 78.4 | 5 40 | 25 25 | 78.3 | 5 27 | 24 26 | 78.2 | 193 347 |
| 14 166 | 6 57 | 29 15 | 77.8 | 6 44 | 28 16 | 77.7 | 6 31 | 27 17 | 77.6 | 6 18 | 26 18 | 77.5 | 6 05 | 25 20 | 77.4 | 5 52 | 24 21 | 77.3 | 194 346 |
| 15 165 | 7 26 | 29 09 | 76.9 | 7 13 | 28 10 | 76.8 | 6 59 | 27 11 | 76.7 | 6 45 | 26 12 | 76.6 | 6 31 | 25 14 | 76.5 | 6 17 | 24 15 | 76.4 | 195 345 |
| 16 164 | 7 55 | 29 02 | 76.1 | 7 41 | 28 03 | 75.9 | 7 26 | 27 04 | 75.8 | 7 11 | 26 06 | 75.7 | 6 56 | 25 07 | 75.5 | 6 41 | 24 09 | 75.4 | 196 344 |
| 17 163 | 8 24 | 28 54 | 75.2 | 8 09 | 27 56 | 75.0 | 7 53 | 26 57 | 74.9 | 7 38 | 25 59 | 74.8 | 7 22 | 25 00 | 74.6 | 7 06 | 24 02 | 74.5 | 197 343 |
| 18 162 | 8 53 | 28 46 | 74.3 | 8 37 | 27 48 | 74.1 | 8 20 | 26 50 | 74.0 | 8 04 | 25 51 | 73.9 | 7 47 | 24 53 | 73.7 | 7 30 | 23 55 | 73.6 | 198 342 |
| 19 161 | 9 22 | 28 38 | 73.4 | 9 05 | 27 40 | 73.2 | 8 48 | 26 41 | 73.1 | 8 30 | 25 43 | 72.9 | 8 12 | 24 45 | 72.8 | 7 55 | 23 48 | 72.7 | 199 341 |
| 20 160 | 9 51 | 28 29 | 72.5 | 9 33 | 27 31 | 72.3 | 9 14 | 26 33 | 72.2 | 8 56 | 25 35 | 72.0 | 8 37 | 24 37 | 71.9 | 8 19 | 23 40 | 71.7 | 200 340 |
| 21 159 | 10 19 | 28 19 | 71.6 | 10 00 | 27 22 | 71.4 | 9 41 | 26 24 | 71.3 | 9 22 | 25 26 | 71.1 | 9 02 | 24 29 | 71.0 | 8 43 | 23 32 | 70.8 | 201 339 |
| 22 158 | 10 48 | 28 10 | 70.7 | 10 28 | 27 12 | 70.5 | 10 08 | 26 15 | 70.4 | 9 48 | 25 17 | 70.2 | 9 27 | 24 20 | 70.0 | 9 07 | 23 23 | 69.9 | 202 338 |
| 23 157 | 11 16 | 27 59 | 69.8 | 10 55 | 27 02 | 69.6 | 10 34 | 26 05 | 69.5 | 10 13 | 25 08 | 69.3 | 9 52 | 24 11 | 69.1 | 9 30 | 23 14 | 69.0 | 203 337 |
| 24 156 | 11 44 | 27 49 | 68.9 | 11 22 | 26 51 | 68.7 | 11 00 | 25 54 | 68.5 | 10 38 | 24 58 | 68.4 | 10 16 | 24 01 | 68.2 | 9 54 | 23 04 | 68.0 | 204 336 |
| 25 155 | 12 12 | 27 37 | 68.0 | 11 49 | 26 40 | 67.8 | 11 27 | 25 44 | 67.6 | 11 04 | 24 47 | 67.4 | 10 41 | 23 51 | 67.3 | 10 17 | 22 55 | 67.1 | 205 335 |
| 26 154 | 12 40 | 27 26 | 67.1 | 12 16 | 26 29 | 66.9 | 11 53 | 25 33 | 66.7 | 11 29 | 24 36 | 66.5 | 11 05 | 23 40 | 66.3 | 10 41 | 22 44 | 66.2 | 206 334 |
| 27 153 | 13 07 | 27 13 | 66.2 | 12 43 | 26 17 | 66.0 | 12 18 | 25 21 | 65.8 | 11 54 | 24 25 | 65.6 | 11 29 | 23 29 | 65.4 | 11 04 | 22 34 | 65.2 | 207 333 |
| 28 152 | 13 35 | 27 01 | 65.3 | 13 09 | 26 05 | 65.1 | 12 44 | 25 09 | 64.9 | 12 18 | 24 13 | 64.7 | 11 53 | 23 18 | 64.5 | 11 27 | 22 23 | 64.3 | 208 332 |
| 29 151 | 14 02 | 26 48 | 64.4 | 13 36 | 25 52 | 64.1 | 13 09 | 24 56 | 63.9 | 12 43 | 24 01 | 63.7 | 12 16 | 23 06 | 63.5 | 11 49 | 22 11 | 63.3 | 209 331 |
| 30 150 | 14 29 | 26 34 | 63.4 | 14 02 | 25 39 | 63.2 | 13 35 | 24 43 | 63.0 | 13 07 | 23 49 | 62.8 | 12 40 | 22 54 | 62.6 | 12 12 | 21 59 | 62.4 | 210 330 |
| 31 149 | 14 55 | 26 20 | 62.5 | 14 28 | 25 25 | 62.3 | 14 00 | 24 30 | 62.1 | 13 31 | 23 36 | 61.8 | 13 03 | 22 41 | 61.6 | 12 34 | 21 47 | 61.4 | 211 329 |
| 32 148 | 15 22 | 26 05 | 61.6 | 14 53 | 25 11 | 61.3 | 14 24 | 24 16 | 61.1 | 13 55 | 23 22 | 60.9 | 13 26 | 22 28 | 60.7 | 12 56 | 21 35 | 60.5 | 212 328 |
| 33 147 | 15 48 | 25 50 | 60.6 | 15 19 | 24 56 | 60.4 | 14 49 | 24 02 | 60.2 | 14 19 | 23 08 | 59.9 | 13 49 | 22 15 | 59.7 | 13 18 | 21 22 | 59.5 | 213 327 |
| 34 146 | 16 14 | 25 35 | 59.7 | 15 44 | 24 41 | 59.5 | 15 13 | 23 47 | 59.2 | 14 42 | 22 54 | 59.0 | 14 11 | 22 01 | 58.8 | 13 40 | 21 08 | 58.6 | 214 326 |
| 35 145 | 16 40 | 25 19 | 58.8 | 16 09 | 24 25 | 58.5 | 15 37 | 23 32 | 58.3 | 15 06 | 22 39 | 58.0 | 14 34 | 21 47 | 57.8 | 14 02 | 20 54 | 57.6 | 215 325 |
| 36 144 | 17 05 | 25 02 | 57.8 | 16 33 | 24 09 | 57.6 | 16 01 | 23 17 | 57.3 | 15 29 | 22 24 | 57.1 | 14 56 | 21 32 | 56.9 | 14 23 | 20 40 | 56.6 | 216 324 |
| 37 143 | 17 31 | 24 45 | 56.9 | 16 58 | 23 53 | 56.6 | 16 25 | 23 00 | 56.4 | 15 51 | 22 09 | 56.1 | 15 18 | 21 17 | 55.9 | 14 44 | 20 26 | 55.7 | 217 323 |
| 38 142 | 17 56 | 24 28 | 55.9 | 17 22 | 23 36 | 55.7 | 16 48 | 22 44 | 55.4 | 16 14 | 21 53 | 55.2 | 15 39 | 21 01 | 54.9 | 15 05 | 20 11 | 54.7 | 218 322 |
| 39 141 | 18 20 | 24 10 | 55.0 | 17 46 | 23 18 | 54.7 | 17 11 | 22 27 | 54.4 | 16 36 | 21 36 | 54.2 | 16 01 | 20 46 | 54.0 | 15 25 | 19 55 | 53.7 | 219 321 |
| 40 140 | 18 45 | 23 52 | 54.0 | 18 09 | 23 00 | 53.7 | 17 34 | 22 10 | 53.5 | 16 58 | 21 19 | 53.2 | 16 22 | 20 29 | 53.0 | 15 46 | 19 39 | 52.7 | 220 320 |
| 41 139 | 19 09 | 23 33 | 53.0 | 18 33 | 22 42 | 52.8 | 17 56 | 21 52 | 52.5 | 17 20 | 21 02 | 52.2 | 16 43 | 20 13 | 52.0 | 16 06 | 19 23 | 51.8 | 221 319 |
| 42 138 | 19 33 | 23 13 | 52.1 | 18 56 | 22 23 | 51.8 | 18 19 | 21 34 | 51.5 | 17 41 | 20 44 | 51.3 | 17 03 | 19 55 | 51.0 | 16 26 | 19 07 | 50.8 | 222 318 |
| 43 137 | 19 56 | 22 54 | 51.1 | 19 18 | 22 04 | 50.8 | 18 40 | 21 15 | 50.5 | 18 02 | 20 26 | 50.3 | 17 24 | 19 38 | 50.0 | 16 45 | 18 50 | 49.8 | 223 317 |
| 44 136 | 20 19 | 22 33 | 50.1 | 19 41 | 21 44 | 49.8 | 19 02 | 20 56 | 49.5 | 18 23 | 20 08 | 49.3 | 17 44 | 19 20 | 49.0 | 17 04 | 18 33 | 48.8 | 224 316 |
| 45 135 | 20 42 | 22 12 | 49.1 | 20 03 | 21 24 | 48.8 | 19 23 | 20 36 | 48.6 | 18 43 | 19 49 | 48.3 | 18 03 | 19 02 | 48.1 | 17 23 | 18 15 | 47.8 | 225 315 |

LATITUD / A: 60° - 65°

| Lat. / A | | 60° | | | 61° | | | 62° | | | 63° | | | 64° | | | 65° | | | Lat. / A | |
|----------|-----|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|----------|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | |
| 45 | 135 | 20 42 | 22 12 | 49.1 | 20 03 | 21 24 | 48.8 | 19 23 | 20 36 | 48.6 | 18 43 | 19 49 | 48.3 | 18 03 | 19 02 | 48.1 | 17 23 | 18 15 | 47.8 | 225 | 315 |
| 46 | 134 | 21 05 | 21 51 | 48.1 | 20 25 | 21 04 | 47.8 | 19 44 | 20 16 | 47.6 | 19 04 | 19 29 | 47.3 | 18 23 | 18 43 | 47.1 | 17 42 | 17 57 | 46.8 | 226 | 314 |
| 47 | 133 | 21 27 | 21 30 | 47.1 | 20 46 | 20 43 | 46.8 | 20 05 | 19 56 | 46.6 | 19 24 | 19 10 | 46.3 | 18 42 | 18 24 | 46.1 | 18 00 | 17 39 | 45.8 | 227 | 313 |
| 48 | 132 | 21 49 | 21 07 | 46.1 | 21 07 | 20 21 | 45.8 | 20 25 | 19 35 | 45.6 | 19 43 | 18 50 | 45.3 | 19 01 | 18 04 | 45.1 | 18 18 | 17 20 | 44.8 | 228 | 312 |
| 49 | 131 | 22 10 | 20 45 | 45.1 | 21 28 | 19 59 | 44.8 | 20 45 | 19 14 | 44.6 | 20 02 | 18 29 | 44.3 | 19 19 | 17 45 | 44.0 | 18 36 | 17 01 | 43.8 | 229 | 311 |
| 50 | 130 | 22 31 | 20 22 | 44.1 | 21 48 | 19 37 | 43.8 | 21 05 | 18 52 | 43.5 | 20 21 | 18 08 | 43.3 | 19 37 | 17 24 | 43.0 | 18 53 | 16 41 | 42.8 | 230 | 310 |
| 51 | 129 | 22 52 | 19 58 | 43.1 | 22 08 | 19 14 | 42.8 | 21 24 | 18 30 | 42.5 | 20 40 | 17 47 | 42.3 | 19 55 | 17 04 | 42.0 | 19 10 | 16 21 | 41.8 | 231 | 309 |
| 52 | 128 | 23 12 | 19 34 | 42.1 | 22 28 | 18 51 | 41.8 | 21 43 | 18 08 | 41.5 | 20 58 | 17 25 | 41.2 | 20 13 | 16 43 | 41.0 | 19 27 | 16 01 | 40.8 | 232 | 308 |
| 53 | 127 | 23 32 | 19 10 | 41.0 | 22 47 | 18 27 | 40.7 | 22 01 | 17 45 | 40.5 | 21 15 | 17 03 | 40.2 | 20 30 | 16 21 | 40.0 | 19 44 | 15 41 | 39.7 | 233 | 307 |
| 54 | 126 | 23 52 | 18 45 | 40.0 | 23 06 | 18 03 | 39.7 | 22 19 | 17 21 | 39.4 | 21 33 | 16 40 | 39.2 | 20 46 | 16 00 | 39.0 | 20 00 | 15 20 | 38.7 | 234 | 306 |
| 55 | 125 | 24 11 | 18 19 | 39.0 | 23 24 | 17 38 | 38.7 | 22 37 | 16 58 | 38.4 | 21 50 | 16 17 | 38.2 | 21 03 | 15 38 | 37.9 | 20 15 | 14 58 | 37.7 | 235 | 305 |
| 56 | 124 | 24 29 | 17 54 | 37.9 | 23 42 | 17 13 | 37.6 | 22 54 | 16 34 | 37.4 | 22 07 | 15 54 | 37.1 | 21 19 | 15 15 | 36.9 | 20 31 | 14 37 | 36.7 | 236 | 304 |
| 57 | 123 | 24 48 | 17 27 | 36.9 | 23 59 | 16 48 | 36.6 | 23 11 | 16 09 | 36.3 | 22 23 | 15 31 | 36.1 | 21 34 | 14 53 | 35.8 | 20 46 | 14 15 | 35.6 | 237 | 303 |
| 58 | 122 | 25 05 | 17 01 | 35.8 | 24 17 | 16 22 | 35.5 | 23 28 | 15 44 | 35.3 | 22 39 | 15 07 | 35.0 | 21 49 | 14 29 | 34.8 | 21 00 | 13 53 | 34.6 | 238 | 302 |
| 59 | 121 | 25 23 | 16 34 | 34.8 | 24 33 | 15 56 | 34.5 | 23 44 | 15 19 | 34.2 | 22 54 | 14 42 | 34.0 | 22 04 | 14 06 | 33.8 | 21 14 | 13 30 | 33.5 | 239 | 301 |
| 60 | 120 | 25 40 | 16 06 | 33.7 | 24 50 | 15 29 | 33.4 | 23 59 | 14 53 | 33.2 | 23 09 | 14 18 | 32.9 | 22 19 | 13 42 | 32.7 | 21 28 | 13 07 | 32.5 | 240 | 300 |
| 61 | 119 | 25 56 | 15 38 | 32.6 | 25 05 | 15 03 | 32.4 | 24 15 | 14 27 | 32.1 | 23 24 | 13 53 | 31.9 | 22 33 | 13 18 | 31.7 | 21 42 | 12 44 | 31.5 | 241 | 299 |
| 62 | 118 | 26 12 | 15 10 | 31.5 | 25 21 | 14 35 | 31.3 | 24 29 | 14 01 | 31.1 | 23 38 | 13 27 | 30.8 | 22 46 | 12 54 | 30.6 | 21 55 | 12 21 | 30.4 | 242 | 298 |
| 63 | 117 | 26 27 | 14 41 | 30.5 | 25 36 | 14 08 | 30.2 | 24 44 | 13 34 | 30.0 | 23 52 | 13 01 | 29.8 | 22 59 | 12 29 | 29.5 | 22 07 | 11 57 | 29.3 | 243 | 297 |
| 64 | 116 | 26 42 | 14 12 | 29.4 | 25 50 | 13 39 | 29.1 | 24 57 | 13 07 | 28.9 | 24 05 | 12 35 | 28.7 | 23 12 | 12 04 | 28.5 | 22 19 | 11 33 | 28.3 | 244 | 296 |
| 65 | 115 | 26 57 | 13 43 | 28.3 | 26 04 | 13 11 | 28.1 | 25 11 | 12 40 | 28.4 | 24 18 | 12 09 | 27.6 | 23 25 | 11 39 | 27.4 | 22 31 | 11 09 | 27.2 | 245 | 295 |
| 66 | 114 | 27 11 | 13 13 | 27.2 | 26 17 | 12 42 | 27.0 | 25 24 | 12 12 | 26.8 | 24 30 | 11 43 | 26.6 | 23 36 | 11 13 | 26.4 | 22 43 | 10 44 | 26.2 | 246 | 294 |
| 67 | 113 | 27 24 | 12 43 | 26.1 | 26 30 | 12 13 | 25.9 | 25 36 | 11 44 | 25.7 | 24 42 | 11 16 | 25.5 | 23 48 | 10 47 | 25.3 | 22 54 | 10 20 | 25.1 | 247 | 293 |
| 68 | 112 | 27 37 | 12 12 | 25.0 | 26 43 | 11 44 | 24.8 | 25 48 | 11 16 | 24.6 | 24 54 | 10 48 | 24.4 | 23 59 | 10 21 | 24.2 | 23 04 | 9 55 | 24.0 | 248 | 292 |
| 69 | 111 | 27 50 | 11 41 | 23.9 | 26 55 | 11 14 | 23.7 | 26 00 | 10 47 | 23.5 | 25 05 | 10 21 | 23.3 | 24 09 | 9 55 | 23.1 | 23 14 | 9 29 | 23.0 | 249 | 291 |
| 70 | 110 | 28 01 | 11 10 | 22.8 | 27 06 | 10 44 | 22.6 | 26 11 | 10 18 | 22.4 | 25 15 | 9 53 | 22.2 | 24 20 | 9 28 | 22.0 | 23 24 | 9 04 | 21.9 | 250 | 290 |
| 71 | 109 | 28 13 | 10 39 | 21.7 | 27 17 | 10 14 | 21.5 | 26 21 | 9 49 | 21.3 | 25 25 | 9 25 | 21.1 | 24 29 | 9 01 | 21.0 | 23 33 | 8 38 | 20.8 | 251 | 289 |
| 72 | 108 | 28 24 | 10 07 | 20.6 | 27 27 | 9 43 | 20.4 | 26 31 | 9 20 | 20.2 | 25 35 | 8 57 | 20.0 | 24 38 | 8 34 | 19.9 | 23 42 | 8 12 | 19.7 | 252 | 288 |
| 73 | 107 | 28 34 | 9 35 | 19.4 | 27 37 | 9 12 | 19.3 | 26 41 | 8 50 | 19.1 | 25 44 | 8 28 | 18.9 | 24 47 | 8 07 | 18.8 | 23 50 | 7 46 | 18.6 | 253 | 287 |
| 74 | 106 | 28 44 | 9 03 | 18.3 | 27 47 | 8 41 | 18.2 | 26 50 | 8 20 | 18.0 | 25 52 | 8 00 | 17.8 | 24 55 | 7 39 | 17.7 | 23 58 | 7 19 | 17.6 | 254 | 286 |
| 75 | 105 | 28 53 | 8 30 | 17.2 | 27 55 | 8 10 | 17.0 | 26 58 | 7 50 | 16.9 | 26 01 | 7 31 | 16.7 | 25 03 | 7 12 | 16.6 | 24 06 | 6 53 | 16.5 | 255 | 285 |
| 76 | 104 | 29 01 | 7 57 | 16.1 | 28 04 | 7 38 | 15.9 | 27 06 | 7 20 | 15.8 | 26 08 | 7 02 | 15.6 | 25 10 | 6 44 | 15.5 | 24 13 | 6 26 | 15.4 | 256 | 284 |
| 77 | 103 | 29 09 | 7 24 | 14.9 | 28 11 | 7 06 | 14.8 | 27 13 | 6 49 | 14.7 | 26 15 | 6 32 | 14.5 | 25 17 | 6 16 | 14.4 | 24 19 | 5 59 | 14.3 | 257 | 283 |
| 78 | 102 | 29 17 | 6 51 | 13.8 | 28 18 | 6 34 | 13.7 | 27 20 | 6 19 | 13.5 | 26 22 | 6 03 | 13.4 | 25 23 | 5 47 | 13.3 | 24 25 | 5 32 | 13.2 | 258 | 282 |
| 79 | 101 | 29 24 | 6 17 | 12.7 | 28 25 | 6 02 | 12.5 | 27 27 | 5 48 | 12.4 | 26 28 | 5 33 | 12.3 | 25 29 | 5 19 | 12.2 | 24 31 | 5 05 | 12.1 | 259 | 281 |
| 80 | 100 | 29 30 | 5 44 | 11.5 | 28 31 | 5 30 | 11.4 | 27 32 | 5 17 | 11.3 | 26 33 | 5 03 | 11.2 | 25 35 | 4 50 | 11.1 | 24 36 | 4 38 | 11.0 | 260 | 280 |
| 81 | 99 | 29 36 | 5 10 | 10.4 | 28 37 | 4 57 | 10.3 | 27 38 | 4 45 | 10.2 | 26 38 | 4 33 | 10.1 | 25 39 | 4 22 | 10.0 | 24 40 | 4 10 | 9.9 | 261 | 279 |
| 82 | 98 | 29 41 | 4 36 | 9.2 | 28 41 | 4 25 | 9.1 | 27 42 | 4 14 | 9.0 | 26 43 | 4 03 | 9.0 | 25 44 | 3 53 | 8.9 | 24 44 | 3 43 | 8.8 | 262 | 278 |
| 83 | 97 | 29 45 | 4 01 | 8.1 | 28 46 | 3 52 | 8.0 | 27 46 | 3 42 | 7.9 | 26 47 | 3 33 | 7.8 | 25 48 | 3 24 | 7.8 | 24 48 | 3 15 | 7.7 | 263 | 277 |
| 84 | 96 | 29 49 | 3 27 | 6.9 | 28 50 | 3 19 | 6.9 | 27 50 | 3 11 | 6.8 | 26 50 | 3 03 | 6.7 | 25 51 | 2 55 | 6.7 | 24 51 | 2 47 | 6.6 | 264 | 276 |
| 85 | 95 | 29 52 | 2 53 | 5.8 | 28 53 | 2 46 | 5.7 | 27 53 | 2 39 | 5.7 | 26 53 | 2 33 | 5.6 | 25 54 | 2 26 | 5.6 | 24 54 | 2 20 | 5.5 | 265 | 275 |
| 86 | 94 | 29 55 | 2 18 | 4.6 | 28 55 | 2 13 | 4.6 | 27 56 | 2 07 | 4.5 | 26 56 | 2 02 | 4.5 | 25 56 | 1 57 | 4.4 | 24 56 | 1 52 | 4.4 | 266 | 274 |
| 87 | 93 | 29 57 | 1 44 | 3.5 | 28 57 | 1 40 | 3.4 | 27 57 | 1 36 | 3.4 | 26 58 | 1 32 | 3.4 | 25 58 | 1 28 | 3.3 | 24 58 | 1 24 | 3.3 | 267 | 273 |
| 88 | 92 | 29 59 | 1 09 | 2.3 | 28 59 | 1 06 | 2.3 | 27 59 | 1 04 | 2.3 | 26 59 | 1 01 | 2.2 | 25 59 | 0 59 | 2.2 | 24 59 | 0 56 | 2.2 | 268 | 272 |
| 89 | 91 | 30 00 | 0 35 | 1.2 | 29 00 | 0 33 | 1.1 | 28 00 | 0 32 | 1.1 | 27 00 | 0 31 | 1.1 | 26 00 | 0 29 | 1.1 | 25 00 | 0 28 | 1.1 | 269 | 271 |
| 90 | 90 | 30 00 | 0 00 | 0.0 | 29 00 | 0 00 | 0.0 | 28 00 | 0 00 | 0.0 | 27 00 | 0 00 | 0.0 | 26 00 | 0 00 | 0.0 | 25 00 | 0 00 | 0.0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para 90° < AHL < 270°

Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
Z₂: (—) para F > 90°

| Lat. / A | 66° | | | 67° | | | 68° | | | 69° | | | 70° | | | 71° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 24 00 | 90.0 | 0 00 | 23 00 | 90.0 | 0 00 | 22 00 | 90.0 | 0 00 | 21 00 | 90.0 | 0 00 | 20 00 | 90.0 | 0 00 | 19 00 | 90.0 | 180 360 |
| 1 179 | 0 24 | 24 00 | 89.1 | 0 23 | 23 00 | 89.1 | 0 22 | 22 00 | 89.1 | 0 22 | 21 00 | 89.1 | 0 21 | 20 00 | 89.1 | 0 20 | 19 00 | 89.1 | 181 359 |
| 2 178 | 0 49 | 23 59 | 88.2 | 0 47 | 22 59 | 88.2 | 0 45 | 21 59 | 88.1 | 0 43 | 20 59 | 88.1 | 0 41 | 19 59 | 88.1 | 0 39 | 18 59 | 88.1 | 182 358 |
| 3 177 | 1 13 | 23 58 | 87.3 | 1 10 | 22 58 | 87.2 | 1 07 | 21 58 | 87.2 | 1 04 | 20 58 | 87.2 | 1 02 | 19 58 | 87.2 | 0 59 | 18 59 | 87.2 | 183 357 |
| 4 176 | 1 38 | 23 57 | 86.3 | 1 34 | 22 57 | 86.3 | 1 30 | 21 57 | 86.3 | 1 26 | 20 57 | 86.3 | 1 22 | 19 57 | 86.2 | 1 18 | 18 57 | 86.2 | 184 356 |
| 5 175 | 2 02 | 23 55 | 85.4 | 1 57 | 22 55 | 85.4 | 1 52 | 21 55 | 85.4 | 1 47 | 20 56 | 85.3 | 1 42 | 19 56 | 85.3 | 1 38 | 18 56 | 85.3 | 185 355 |
| 6 174 | 2 26 | 23 53 | 84.5 | 2 20 | 22 53 | 84.5 | 2 15 | 21 53 | 84.4 | 2 09 | 20 54 | 84.4 | 2 03 | 19 54 | 84.4 | 1 57 | 18 54 | 84.3 | 186 354 |
| 7 173 | 2 50 | 23 50 | 83.6 | 2 44 | 22 51 | 83.6 | 2 37 | 21 51 | 83.5 | 2 30 | 20 51 | 83.5 | 2 23 | 19 52 | 83.4 | 2 16 | 18 52 | 83.4 | 187 353 |
| 8 172 | 3 15 | 23 48 | 82.7 | 3 07 | 22 48 | 82.6 | 2 59 | 21 48 | 82.6 | 2 52 | 20 49 | 82.5 | 2 44 | 19 49 | 82.5 | 2 36 | 18 50 | 82.4 | 188 352 |
| 9 171 | 3 39 | 23 44 | 81.8 | 3 30 | 22 45 | 81.7 | 3 22 | 21 45 | 81.6 | 3 13 | 20 46 | 81.6 | 3 04 | 19 46 | 81.5 | 2 55 | 18 47 | 81.5 | 189 351 |
| 10 170 | 4 03 | 23 41 | 80.8 | 3 53 | 22 41 | 80.8 | 3 44 | 21 42 | 80.7 | 3 34 | 20 42 | 80.7 | 3 24 | 19 43 | 80.6 | 3 14 | 18 44 | 80.5 | 190 350 |
| 11 169 | 4 27 | 23 36 | 79.9 | 4 17 | 22 37 | 79.9 | 4 06 | 21 38 | 79.8 | 3 55 | 20 39 | 79.7 | 3 45 | 19 40 | 79.6 | 3 34 | 18 41 | 79.6 | 191 349 |
| 12 168 | 4 51 | 23 32 | 79.0 | 4 40 | 22 33 | 78.9 | 4 28 | 21 34 | 78.9 | 4 16 | 20 35 | 78.8 | 4 05 | 19 36 | 78.7 | 3 53 | 18 37 | 78.6 | 192 348 |
| 13 167 | 5 15 | 23 27 | 78.1 | 5 03 | 22 28 | 78.0 | 4 50 | 21 29 | 77.9 | 4 37 | 20 30 | 77.8 | 4 25 | 19 32 | 77.8 | 4 12 | 18 33 | 77.7 | 193 347 |
| 14 166 | 5 39 | 23 22 | 77.2 | 5 25 | 22 23 | 77.1 | 5 12 | 21 24 | 77.0 | 4 58 | 20 26 | 76.9 | 4 45 | 19 27 | 76.8 | 4 31 | 18 28 | 76.7 | 194 346 |
| 15 165 | 6 03 | 23 16 | 76.2 | 5 48 | 22 18 | 76.1 | 5 34 | 21 19 | 76.0 | 5 19 | 20 21 | 76.0 | 5 05 | 19 22 | 75.9 | 4 50 | 18 24 | 75.8 | 195 345 |
| 16 164 | 6 26 | 23 10 | 75.3 | 6 11 | 22 12 | 75.2 | 5 56 | 21 13 | 75.1 | 5 40 | 20 15 | 75.0 | 5 25 | 19 17 | 74.9 | 5 09 | 18 19 | 74.8 | 196 344 |
| 17 163 | 6 50 | 23 04 | 74.4 | 6 34 | 22 06 | 74.3 | 6 17 | 21 08 | 74.2 | 6 01 | 20 09 | 74.1 | 5 44 | 19 11 | 74.0 | 5 28 | 18 14 | 73.9 | 197 343 |
| 18 162 | 7 13 | 22 57 | 73.5 | 6 56 | 21 59 | 73.3 | 6 39 | 21 01 | 73.2 | 6 21 | 20 03 | 73.1 | 6 04 | 19 06 | 73.0 | 5 46 | 18 08 | 72.9 | 198 342 |
| 19 161 | 7 37 | 22 50 | 72.5 | 7 19 | 21 52 | 72.4 | 7 00 | 20 54 | 72.3 | 6 42 | 19 57 | 72.2 | 6 24 | 18 59 | 72.1 | 6 05 | 18 02 | 72.0 | 199 341 |
| 20 160 | 8 00 | 22 42 | 71.6 | 7 41 | 21 45 | 71.5 | 7 22 | 20 47 | 71.4 | 7 02 | 19 50 | 71.2 | 6 43 | 18 53 | 71.1 | 6 24 | 17 56 | 71.0 | 200 340 |
| 21 159 | 8 23 | 22 34 | 70.7 | 8 03 | 21 37 | 70.5 | 7 43 | 20 40 | 70.4 | 7 23 | 19 43 | 70.3 | 7 02 | 18 46 | 70.2 | 6 42 | 17 49 | 70.1 | 201 339 |
| 22 158 | 8 46 | 22 26 | 69.7 | 8 25 | 21 29 | 69.6 | 8 04 | 20 32 | 69.5 | 7 43 | 19 35 | 69.3 | 7 22 | 18 39 | 69.2 | 7 00 | 17 42 | 69.1 | 202 338 |
| 23 157 | 9 09 | 22 17 | 68.8 | 8 47 | 21 21 | 68.7 | 8 25 | 20 24 | 68.5 | 8 03 | 19 28 | 68.4 | 7 41 | 18 31 | 68.3 | 7 19 | 17 35 | 68.1 | 203 337 |
| 24 156 | 9 31 | 22 08 | 67.9 | 9 09 | 21 12 | 67.7 | 8 46 | 20 16 | 67.6 | 8 23 | 19 19 | 67.4 | 8 00 | 18 24 | 67.3 | 7 37 | 17 28 | 67.2 | 204 336 |
| 25 155 | 9 54 | 21 58 | 66.9 | 9 30 | 21 03 | 66.8 | 9 07 | 20 07 | 66.6 | 8 43 | 19 11 | 66.5 | 8 19 | 18 15 | 66.3 | 7 55 | 17 20 | 66.2 | 205 335 |
| 26 154 | 10 16 | 21 49 | 66.0 | 9 52 | 20 53 | 65.8 | 9 27 | 19 57 | 65.7 | 9 02 | 19 02 | 65.5 | 8 37 | 18 07 | 65.4 | 8 12 | 17 12 | 65.2 | 206 334 |
| 27 153 | 10 38 | 21 38 | 65.0 | 10 13 | 20 43 | 64.9 | 9 48 | 19 48 | 64.7 | 9 22 | 18 53 | 64.6 | 8 56 | 17 58 | 64.4 | 8 30 | 17 03 | 64.3 | 207 333 |
| 28 152 | 11 00 | 21 28 | 64.1 | 10 34 | 20 33 | 63.9 | 10 08 | 19 38 | 63.8 | 9 41 | 18 43 | 63.6 | 9 14 | 17 49 | 63.5 | 8 48 | 16 55 | 63.3 | 208 332 |
| 29 151 | 11 22 | 21 17 | 63.1 | 10 55 | 20 22 | 63.0 | 10 28 | 19 28 | 62.8 | 10 00 | 18 34 | 62.6 | 9 33 | 17 39 | 62.5 | 9 05 | 16 46 | 62.3 | 209 331 |
| 30 150 | 11 44 | 21 05 | 62.2 | 11 16 | 20 11 | 62.0 | 10 48 | 19 17 | 61.8 | 10 19 | 18 23 | 61.7 | 9 51 | 17 30 | 61.5 | 9 22 | 16 36 | 61.4 | 210 330 |
| 31 149 | 12 06 | 20 53 | 61.2 | 11 37 | 20 00 | 61.1 | 11 07 | 19 06 | 60.9 | 10 38 | 18 13 | 60.7 | 10 09 | 17 20 | 60.5 | 9 39 | 16 27 | 60.4 | 211 329 |
| 32 148 | 12 27 | 20 41 | 60.3 | 11 57 | 19 48 | 60.1 | 11 27 | 18 55 | 59.9 | 10 57 | 18 02 | 59.7 | 10 27 | 17 09 | 59.6 | 9 56 | 16 17 | 59.4 | 212 328 |
| 33 147 | 12 48 | 20 29 | 59.3 | 12 17 | 19 36 | 59.1 | 11 46 | 18 43 | 58.9 | 11 15 | 17 51 | 58.8 | 10 44 | 16 58 | 58.6 | 10 13 | 16 06 | 58.4 | 213 327 |
| 34 146 | 13 09 | 20 16 | 58.4 | 12 37 | 19 23 | 58.2 | 12 06 | 18 31 | 58.0 | 11 34 | 17 39 | 57.8 | 11 02 | 16 47 | 57.6 | 10 29 | 15 56 | 57.5 | 214 326 |
| 35 145 | 13 29 | 20 02 | 57.4 | 12 57 | 19 10 | 57.2 | 12 24 | 18 19 | 57.0 | 11 52 | 17 27 | 56.8 | 11 19 | 16 36 | 56.7 | 10 46 | 15 45 | 56.5 | 215 325 |
| 36 144 | 13 50 | 19 49 | 56.4 | 13 17 | 18 57 | 56.2 | 12 43 | 18 06 | 56.0 | 12 10 | 17 15 | 55.9 | 11 36 | 16 24 | 55.7 | 11 02 | 15 34 | 55.5 | 216 324 |
| 37 143 | 14 10 | 19 34 | 55.5 | 13 36 | 18 44 | 55.3 | 13 02 | 17 53 | 55.1 | 12 27 | 17 03 | 54.9 | 11 53 | 16 12 | 54.7 | 11 18 | 15 23 | 54.5 | 217 323 |
| 38 142 | 14 30 | 19 20 | 54.5 | 13 55 | 18 30 | 54.3 | 13 20 | 17 40 | 54.1 | 12 45 | 16 50 | 53.9 | 12 09 | 16 00 | 53.7 | 11 34 | 15 11 | 53.5 | 218 322 |
| 39 141 | 14 50 | 19 05 | 53.5 | 14 14 | 18 15 | 53.3 | 13 38 | 17 26 | 53.1 | 13 02 | 16 37 | 52.9 | 12 26 | 15 48 | 52.7 | 11 49 | 14 59 | 52.6 | 219 321 |
| 40 140 | 15 09 | 18 50 | 52.5 | 14 33 | 18 01 | 52.3 | 13 56 | 17 12 | 52.1 | 13 19 | 16 23 | 51.9 | 12 42 | 15 35 | 51.7 | 12 05 | 14 47 | 51.6 | 220 320 |
| 41 139 | 15 29 | 18 34 | 51.5 | 14 51 | 17 46 | 51.3 | 14 14 | 16 57 | 51.1 | 13 36 | 16 09 | 50.9 | 12 58 | 15 22 | 50.8 | 12 20 | 14 34 | 50.6 | 221 319 |
| 42 138 | 15 48 | 18 18 | 50.6 | 15 09 | 17 30 | 50.3 | 14 31 | 16 43 | 50.1 | 13 52 | 15 55 | 49.9 | 13 14 | 15 08 | 49.8 | 12 35 | 14 21 | 49.6 | 222 318 |
| 43 137 | 16 06 | 18 02 | 49.6 | 15 27 | 17 15 | 49.4 | 14 48 | 16 28 | 49.2 | 14 09 | 15 41 | 49.0 | 13 29 | 14 54 | 48.8 | 12 50 | 14 08 | 48.6 | 223 317 |
| 44 136 | 16 25 | 17 46 | 48.6 | 15 45 | 16 59 | 48.4 | 15 05 | 16 12 | 48.2 | 14 25 | 15 26 | 48.0 | 13 45 | 14 40 | 47.8 | 13 04 | 13 55 | 47.6 | 224 316 |
| 45 135 | 16 43 | 17 29 | 47.6 | 16 02 | 16 42 | 47.4 | 15 22 | 15 57 | 47.2 | 14 41 | 15 11 | 47.0 | 14 00 | 14 26 | 46.8 | 13 19 | 13 41 | 46.6 | 225 315 |

LATTITUD / A: 66° - 71°

| Lat. / A | 66° | | | 67° | | | 68° | | | 69° | | | 70° | | | 71° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 16 43 | 17 29 | 47.6 | 16 02 | 16 42 | 47.4 | 15 22 | 15 57 | 47.2 | 14 41 | 15 11 | 47.0 | 14 00 | 14 26 | 46.8 | 13 19 | 13 41 | 46.6 | 225 315 |
| 46 134 | 17 01 | 17 11 | 46.6 | 16 19 | 16 26 | 46.4 | 15 38 | 15 41 | 46.2 | 14 56 | 14 56 | 46.0 | 14 15 | 14 11 | 45.8 | 13 33 | 13 27 | 45.6 | 226 314 |
| 47 133 | 17 18 | 16 53 | 45.6 | 16 36 | 16 09 | 45.4 | 15 54 | 15 24 | 45.2 | 15 12 | 14 40 | 45.0 | 14 29 | 13 56 | 44.8 | 13 46 | 13 13 | 44.6 | 227 313 |
| 48 132 | 17 36 | 16 35 | 44.6 | 16 53 | 15 51 | 44.4 | 16 10 | 15 08 | 44.2 | 15 27 | 14 24 | 44.0 | 14 43 | 14 41 | 43.8 | 14 00 | 12 58 | 43.6 | 228 312 |
| 49 131 | 17 53 | 16 17 | 43.6 | 17 09 | 15 34 | 43.4 | 16 25 | 14 51 | 43.2 | 15 42 | 14 08 | 43.0 | 14 58 | 13 26 | 42.8 | 14 13 | 12 44 | 42.6 | 229 311 |
| 50 130 | 18 09 | 15 58 | 42.6 | 17 25 | 15 16 | 42.4 | 16 41 | 14 33 | 42.1 | 15 56 | 13 52 | 41.9 | 15 11 | 13 10 | 41.8 | 14 27 | 12 29 | 41.6 | 230 310 |
| 51 129 | 18 26 | 15 39 | 41.6 | 17 41 | 14 57 | 41.3 | 16 56 | 14 16 | 41.1 | 16 10 | 13 35 | 40.9 | 15 25 | 12 54 | 40.8 | 14 39 | 12 14 | 40.6 | 231 309 |
| 52 128 | 18 42 | 15 20 | 40.5 | 17 56 | 14 39 | 40.3 | 17 10 | 13 58 | 40.1 | 16 24 | 13 18 | 39.9 | 15 38 | 12 38 | 39.7 | 14 52 | 11 58 | 39.6 | 232 308 |
| 53 127 | 18 57 | 15 00 | 39.5 | 18 11 | 14 20 | 39.3 | 17 24 | 13 40 | 39.1 | 16 38 | 13 00 | 38.9 | 15 51 | 12 21 | 38.7 | 15 04 | 11 42 | 38.6 | 233 307 |
| 54 126 | 19 13 | 14 40 | 38.5 | 18 26 | 14 01 | 38.3 | 17 39 | 13 22 | 38.1 | 16 51 | 12 43 | 37.9 | 16 04 | 12 05 | 37.7 | 15 16 | 11 26 | 37.5 | 234 306 |
| 55 125 | 19 28 | 14 20 | 37.5 | 18 40 | 13 41 | 37.3 | 17 52 | 13 03 | 37.1 | 17 04 | 12 25 | 36.9 | 16 16 | 11 48 | 36.7 | 15 28 | 11 10 | 36.5 | 235 305 |
| 56 124 | 19 42 | 13 59 | 36.4 | 18 54 | 13 21 | 36.2 | 18 06 | 12 44 | 36.0 | 17 17 | 12 07 | 35.8 | 16 28 | 11 30 | 35.7 | 15 40 | 10 54 | 35.5 | 236 304 |
| 57 123 | 19 57 | 13 38 | 35.4 | 19 08 | 13 01 | 35.2 | 18 19 | 12 25 | 35.0 | 17 29 | 11 49 | 34.8 | 16 40 | 11 13 | 34.6 | 15 51 | 10 37 | 34.5 | 237 303 |
| 58 122 | 20 11 | 13 17 | 34.4 | 19 21 | 12 41 | 34.2 | 18 31 | 12 05 | 34.0 | 17 42 | 11 30 | 33.8 | 16 52 | 10 55 | 33.6 | 16 02 | 10 20 | 33.5 | 238 302 |
| 59 121 | 20 24 | 12 55 | 33.3 | 19 34 | 12 20 | 33.1 | 18 44 | 11 45 | 32.9 | 17 53 | 11 11 | 32.8 | 17 03 | 10 37 | 32.6 | 16 12 | 10 03 | 32.4 | 239 301 |
| 60 120 | 20 37 | 12 33 | 32.3 | 19 47 | 11 59 | 32.1 | 18 56 | 11 25 | 31.9 | 18 05 | 10 52 | 31.7 | 17 14 | 10 19 | 31.6 | 16 23 | 9 46 | 31.4 | 240 300 |
| 61 119 | 20 50 | 12 11 | 31.2 | 19 59 | 11 38 | 31.1 | 19 08 | 11 05 | 30.9 | 18 16 | 10 33 | 30.7 | 17 24 | 10 00 | 30.5 | 16 33 | 9 29 | 30.4 | 241 299 |
| 62 118 | 21 03 | 11 48 | 30.2 | 20 11 | 11 16 | 30.0 | 19 19 | 10 44 | 29.8 | 18 27 | 10 13 | 29.7 | 17 35 | 9 42 | 29.5 | 16 42 | 9 11 | 29.4 | 242 298 |
| 63 117 | 21 15 | 11 26 | 29.2 | 20 22 | 10 54 | 29.0 | 19 30 | 10 24 | 28.8 | 18 37 | 9 53 | 28.6 | 17 45 | 9 23 | 28.5 | 16 52 | 8 53 | 28.3 | 243 297 |
| 64 116 | 21 27 | 11 03 | 28.1 | 20 34 | 10 32 | 27.9 | 19 41 | 10 03 | 27.7 | 18 47 | 9 33 | 27.6 | 17 54 | 9 04 | 27.4 | 17 01 | 8 35 | 27.3 | 244 296 |
| 65 115 | 21 38 | 10 39 | 27.0 | 20 44 | 10 10 | 26.9 | 19 51 | 9 41 | 26.7 | 18 57 | 9 13 | 26.5 | 18 03 | 8 45 | 26.4 | 17 10 | 8 17 | 26.3 | 245 295 |
| 66 114 | 21 49 | 10 16 | 26.0 | 20 55 | 9 48 | 25.8 | 20 01 | 9 20 | 25.7 | 19 07 | 8 52 | 25.5 | 18 12 | 8 25 | 25.4 | 17 18 | 7 58 | 25.2 | 246 294 |
| 67 113 | 21 59 | 9 52 | 24.9 | 21 05 | 9 25 | 24.8 | 20 10 | 8 58 | 24.6 | 19 16 | 8 32 | 24.5 | 18 21 | 8 06 | 24.3 | 17 26 | 7 40 | 24.2 | 247 293 |
| 68 112 | 22 09 | 9 28 | 23.9 | 21 14 | 9 02 | 23.7 | 20 19 | 8 36 | 23.5 | 19 24 | 8 11 | 23.4 | 18 29 | 7 46 | 23.3 | 17 34 | 7 21 | 23.1 | 248 292 |
| 69 111 | 22 19 | 9 04 | 22.8 | 21 24 | 8 39 | 22.6 | 20 28 | 8 14 | 22.5 | 19 33 | 7 50 | 22.4 | 18 37 | 7 26 | 22.2 | 17 42 | 7 02 | 22.1 | 249 291 |
| 70 110 | 22 28 | 8 40 | 21.7 | 21 32 | 8 16 | 21.6 | 20 37 | 7 52 | 21.4 | 19 41 | 7 29 | 21.3 | 18 45 | 7 06 | 21.2 | 17 49 | 6 43 | 21.1 | 250 290 |
| 71 109 | 22 37 | 8 15 | 20.7 | 21 41 | 7 52 | 20.5 | 20 45 | 7 30 | 20.4 | 19 48 | 7 07 | 20.2 | 18 52 | 6 45 | 20.1 | 17 56 | 6 24 | 20.0 | 251 289 |
| 72 108 | 22 45 | 7 50 | 19.6 | 21 49 | 7 28 | 19.4 | 20 52 | 7 07 | 19.3 | 19 56 | 6 46 | 19.2 | 18 59 | 6 25 | 19.1 | 18 02 | 6 04 | 19.0 | 252 288 |
| 73 107 | 22 53 | 7 25 | 18.5 | 21 56 | 7 04 | 18.4 | 21 00 | 6 44 | 18.2 | 20 03 | 6 24 | 18.1 | 19 05 | 6 04 | 18.0 | 18 08 | 5 45 | 17.9 | 253 287 |
| 74 106 | 23 01 | 7 00 | 17.4 | 22 04 | 6 40 | 17.3 | 21 06 | 6 21 | 17.2 | 20 09 | 6 02 | 17.1 | 19 12 | 5 44 | 17.0 | 18 14 | 5 25 | 16.9 | 254 286 |
| 75 105 | 23 08 | 6 34 | 16.3 | 22 10 | 6 16 | 16.2 | 21 13 | 5 58 | 16.1 | 20 15 | 5 40 | 16.0 | 19 17 | 5 23 | 15.9 | 18 20 | 5 06 | 15.8 | 255 285 |
| 76 104 | 23 15 | 6 09 | 15.3 | 22 17 | 5 52 | 15.2 | 21 19 | 5 35 | 15.1 | 20 21 | 5 18 | 15.0 | 19 23 | 5 02 | 14.9 | 18 25 | 4 46 | 14.8 | 256 284 |
| 77 103 | 23 21 | 5 43 | 14.2 | 22 23 | 5 27 | 14.1 | 21 24 | 5 12 | 14.0 | 20 26 | 4 56 | 13.9 | 19 28 | 4 41 | 13.8 | 18 30 | 4 26 | 13.7 | 257 283 |
| 78 102 | 23 27 | 5 17 | 13.1 | 22 28 | 5 03 | 13.0 | 21 30 | 4 48 | 12.9 | 20 31 | 4 34 | 12.8 | 19 33 | 4 20 | 12.7 | 18 34 | 4 06 | 12.7 | 258 282 |
| 79 101 | 23 32 | 4 51 | 12.0 | 22 33 | 4 38 | 11.9 | 21 35 | 4 24 | 11.8 | 20 36 | 4 11 | 11.8 | 19 37 | 3 58 | 11.7 | 18 38 | 3 46 | 11.6 | 259 281 |
| 80 100 | 23 37 | 4 25 | 10.9 | 22 38 | 4 13 | 10.8 | 21 39 | 4 01 | 10.8 | 20 40 | 3 49 | 10.7 | 19 41 | 3 37 | 10.6 | 18 42 | 3 25 | 10.6 | 260 280 |
| 81 99 | 23 41 | 3 59 | 9.8 | 22 42 | 3 48 | 9.8 | 21 43 | 3 37 | 9.7 | 20 44 | 3 26 | 9.6 | 19 45 | 3 16 | 9.6 | 18 45 | 3 05 | 9.5 | 261 279 |
| 82 98 | 23 45 | 3 33 | 8.7 | 22 46 | 3 23 | 8.7 | 21 46 | 3 13 | 8.6 | 20 47 | 3 03 | 8.6 | 19 48 | 2 54 | 8.5 | 18 48 | 2 45 | 8.5 | 262 278 |
| 83 97 | 23 49 | 3 06 | 7.7 | 22 49 | 2 58 | 7.6 | 21 50 | 2 49 | 7.5 | 20 50 | 2 41 | 7.5 | 19 51 | 2 32 | 7.4 | 18 51 | 2 24 | 7.4 | 263 277 |
| 84 96 | 23 52 | 2 40 | 6.6 | 22 52 | 2 32 | 6.5 | 21 52 | 2 25 | 6.5 | 20 53 | 2 18 | 6.4 | 19 53 | 2 11 | 6.4 | 18 54 | 2 04 | 6.3 | 264 276 |
| 85 95 | 23 54 | 2 13 | 5.5 | 22 54 | 2 07 | 5.4 | 21 55 | 2 01 | 5.4 | 20 55 | 1 55 | 5.4 | 19 55 | 1 49 | 5.3 | 18 55 | 1 43 | 5.3 | 265 275 |
| 86 94 | 23 56 | 1 47 | 4.4 | 22 56 | 1 42 | 4.3 | 21 57 | 1 37 | 4.3 | 20 57 | 1 32 | 4.3 | 19 57 | 1 27 | 4.3 | 18 57 | 1 23 | 4.2 | 266 274 |
| 87 93 | 23 58 | 1 20 | 3.3 | 22 58 | 1 16 | 3.3 | 21 58 | 1 13 | 3.2 | 20 58 | 1 09 | 3.2 | 19 58 | 1 05 | 3.2 | 18 58 | 1 02 | 3.2 | 267 273 |
| 88 92 | 23 59 | 0 53 | 2.2 | 22 59 | 0 51 | 2.2 | 21 59 | 0 48 | 2.2 | 20 59 | 0 46 | 2.1 | 19 59 | 0 44 | 2.1 | 18 59 | 0 41 | 2.1 | 268 272 |
| 89 91 | 24 00 | 0 27 | 1.1 | 23 00 | 0 25 | 1.1 | 22 00 | 0 24 | 1.1 | 21 00 | 0 23 | 1.1 | 20 00 | 0 22 | 1.1 | 19 00 | 0 21 | 1.1 | 269 271 |
| 90 90 | 24 00 | 0 00 | 0.0 | 23 00 | 0 00 | 0.0 | 22 00 | 0 00 | 0.0 | 21 00 | 0 00 | 0.0 | 20 00 | 0 00 | 0.0 | 19 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para 90° < AHL < 270°

TABLA PARA REDUCCION DE VISUALES

Z₁: mismo signo que B
Z₂: (—) para F > 90°

Dec: (—) para la Lat. especificada y opuesta.

| Lat. / A | 72° | | | 73° | | | 74° | | | 75° | | | 76° | | | 77° | | | Lat. / A |
|----------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|-------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 18 00 | 90.0 | 0 00 | 17 00 | 90.0 | 0 00 | 16 00 | 90.0 | 0 00 | 15 00 | 90.0 | 0 00 | 14 00 | 90.0 | 0 00 | 13 00 | 90.0 | 180 360 |
| 1 179 | 0 19 | 18 00 | 89.0 | 0 18 | 17 00 | 89.0 | 0 17 | 16 00 | 89.0 | 0 16 | 15 00 | 89.0 | 0 15 | 14 00 | 89.0 | 0 13 | 13 00 | 89.0 | 181 359 |
| 2 178 | 0 37 | 17 59 | 88.1 | 0 35 | 16 59 | 88.1 | 0 33 | 15 59 | 88.1 | 0 31 | 14 59 | 88.1 | 0 29 | 14 00 | 88.1 | 0 27 | 13 00 | 88.1 | 182 358 |
| 3 177 | 0 56 | 17 59 | 87.1 | 0 53 | 16 59 | 87.1 | 0 50 | 15 59 | 87.1 | 0 47 | 14 59 | 87.1 | 0 44 | 13 59 | 87.1 | 0 40 | 12 59 | 87.1 | 183 357 |
| 4 176 | 1 14 | 17 58 | 86.2 | 1 10 | 16 58 | 86.2 | 1 06 | 15 58 | 86.2 | 1 02 | 14 58 | 86.1 | 0 58 | 13 58 | 86.1 | 0 54 | 12 58 | 86.1 | 184 356 |
| 5 175 | 1 33 | 17 56 | 85.2 | 1 28 | 16 56 | 85.2 | 1 23 | 15 57 | 85.2 | 1 18 | 14 57 | 85.2 | 1 12 | 13 57 | 85.1 | 1 07 | 12 57 | 85.1 | 185 355 |
| 6 174 | 1 51 | 17 54 | 84.3 | 1 45 | 16 55 | 84.3 | 1 39 | 15 55 | 84.2 | 1 33 | 14 55 | 84.2 | 1 27 | 13 56 | 84.2 | 1 21 | 12 56 | 84.2 | 186 354 |
| 7 173 | 2 09 | 17 52 | 83.3 | 2 03 | 16 53 | 83.3 | 1 56 | 15 53 | 83.3 | 1 48 | 14 54 | 83.2 | 1 41 | 13 54 | 83.2 | 1 34 | 12 54 | 83.2 | 187 353 |
| 8 172 | 2 28 | 17 50 | 82.4 | 2 20 | 16 51 | 82.3 | 2 12 | 15 51 | 82.3 | 2 04 | 14 52 | 82.3 | 1 56 | 13 52 | 82.2 | 1 48 | 12 53 | 82.2 | 188 352 |
| 9 171 | 2 46 | 17 48 | 81.4 | 2 37 | 16 48 | 81.4 | 2 28 | 15 49 | 81.3 | 2 19 | 14 49 | 81.3 | 2 10 | 13 50 | 81.3 | 2 01 | 12 51 | 81.2 | 189 351 |
| 10 170 | 3 05 | 17 45 | 80.5 | 2 55 | 16 45 | 80.4 | 2 45 | 15 46 | 80.4 | 2 35 | 14 47 | 80.3 | 2 24 | 13 48 | 80.3 | 2 14 | 12 49 | 80.3 | 190 350 |
| 11 169 | 3 23 | 17 41 | 79.5 | 3 12 | 16 42 | 79.5 | 3 01 | 15 43 | 79.4 | 2 50 | 14 44 | 79.4 | 2 39 | 13 45 | 79.3 | 2 28 | 12 46 | 79.3 | 191 349 |
| 12 168 | 3 41 | 17 38 | 78.6 | 3 29 | 16 39 | 78.5 | 3 17 | 15 40 | 78.5 | 3 05 | 14 41 | 78.4 | 2 53 | 13 42 | 78.3 | 2 41 | 12 44 | 78.3 | 192 348 |
| 13 167 | 3 59 | 17 34 | 77.6 | 3 46 | 16 35 | 77.5 | 3 33 | 15 37 | 77.5 | 3 20 | 14 38 | 77.4 | 3 07 | 13 39 | 77.4 | 2 54 | 12 41 | 77.3 | 193 347 |
| 14 166 | 4 17 | 17 30 | 76.7 | 4 03 | 16 31 | 76.6 | 3 49 | 15 33 | 76.5 | 3 35 | 14 34 | 76.5 | 3 21 | 13 36 | 76.4 | 3 07 | 12 38 | 76.3 | 194 346 |
| 15 165 | 4 35 | 17 25 | 75.7 | 4 20 | 16 27 | 75.6 | 4 05 | 15 29 | 75.6 | 3 50 | 14 31 | 75.5 | 3 35 | 13 32 | 75.4 | 3 20 | 12 34 | 75.4 | 195 345 |
| 16 164 | 4 53 | 17 21 | 74.7 | 4 37 | 16 23 | 74.7 | 4 21 | 15 25 | 74.6 | 4 05 | 14 27 | 74.5 | 3 49 | 13 29 | 74.5 | 3 33 | 12 31 | 74.4 | 196 344 |
| 17 163 | 5 11 | 17 16 | 73.8 | 4 54 | 16 18 | 73.7 | 4 37 | 15 20 | 73.6 | 4 20 | 14 22 | 73.5 | 4 03 | 13 25 | 73.5 | 3 46 | 12 27 | 73.4 | 197 343 |
| 18 162 | 5 29 | 17 10 | 72.8 | 5 11 | 16 13 | 72.7 | 4 53 | 15 15 | 72.7 | 4 35 | 14 18 | 72.6 | 4 17 | 13 20 | 72.5 | 3 59 | 12 23 | 72.4 | 198 342 |
| 19 161 | 5 46 | 17 05 | 71.9 | 5 28 | 16 07 | 71.8 | 5 09 | 15 10 | 71.7 | 4 50 | 14 13 | 71.6 | 4 31 | 13 16 | 71.5 | 4 12 | 12 19 | 71.5 | 199 341 |
| 20 160 | 6 04 | 16 59 | 70.9 | 5 44 | 16 02 | 70.8 | 5 25 | 15 05 | 70.7 | 5 05 | 14 08 | 70.6 | 4 45 | 13 11 | 70.5 | 4 25 | 12 14 | 70.5 | 200 340 |
| 21 159 | 6 21 | 16 52 | 69.9 | 6 01 | 15 56 | 69.8 | 5 40 | 14 59 | 69.7 | 5 19 | 14 03 | 69.7 | 4 58 | 13 06 | 69.6 | 4 37 | 12 10 | 69.5 | 201 339 |
| 22 158 | 6 39 | 16 46 | 69.0 | 6 17 | 15 50 | 68.9 | 5 56 | 14 53 | 68.8 | 5 34 | 13 57 | 68.7 | 5 12 | 13 01 | 68.6 | 4 50 | 12 05 | 68.5 | 202 338 |
| 23 157 | 6 56 | 16 39 | 68.0 | 6 34 | 15 43 | 67.9 | 6 11 | 14 47 | 67.8 | 5 48 | 13 51 | 67.7 | 5 25 | 12 56 | 67.6 | 5 03 | 12 00 | 67.5 | 203 337 |
| 24 156 | 7 13 | 16 32 | 67.1 | 6 50 | 15 36 | 66.9 | 6 26 | 14 41 | 66.8 | 6 03 | 13 45 | 66.7 | 5 39 | 12 50 | 66.6 | 5 15 | 11 55 | 66.5 | 204 336 |
| 25 155 | 7 30 | 16 25 | 66.1 | 7 06 | 15 29 | 66.0 | 6 41 | 14 34 | 65.9 | 6 17 | 13 39 | 65.8 | 5 52 | 12 44 | 65.7 | 5 27 | 11 49 | 65.6 | 205 335 |
| 26 154 | 7 47 | 16 17 | 65.1 | 7 22 | 15 22 | 65.0 | 6 56 | 14 27 | 64.9 | 6 31 | 13 32 | 64.8 | 6 05 | 12 38 | 64.7 | 5 40 | 11 43 | 64.6 | 206 334 |
| 27 153 | 8 04 | 16 09 | 64.1 | 7 38 | 15 14 | 64.0 | 7 11 | 14 20 | 63.9 | 6 45 | 13 26 | 63.8 | 6 18 | 12 32 | 63.7 | 5 52 | 11 37 | 63.6 | 207 333 |
| 28 152 | 8 20 | 16 00 | 63.2 | 7 53 | 15 06 | 63.0 | 7 26 | 14 12 | 62.9 | 6 59 | 13 19 | 62.8 | 6 31 | 12 25 | 62.7 | 6 04 | 11 31 | 62.6 | 208 332 |
| 29 151 | 8 37 | 15 52 | 62.2 | 8 09 | 14 58 | 62.1 | 7 41 | 14 05 | 61.9 | 7 13 | 13 11 | 61.8 | 6 44 | 12 18 | 61.7 | 6 16 | 11 25 | 61.6 | 209 331 |
| 30 150 | 8 53 | 15 43 | 61.2 | 8 24 | 14 50 | 61.1 | 7 55 | 13 57 | 61.0 | 7 26 | 13 04 | 60.9 | 6 57 | 12 11 | 60.7 | 6 27 | 11 18 | 60.6 | 210 330 |
| 31 149 | 9 09 | 15 34 | 60.3 | 8 40 | 14 41 | 60.1 | 8 10 | 13 49 | 60.0 | 7 40 | 12 56 | 59.9 | 7 09 | 12 04 | 59.8 | 6 39 | 11 12 | 59.7 | 211 329 |
| 32 148 | 9 25 | 15 24 | 59.3 | 8 55 | 14 32 | 59.1 | 8 24 | 13 40 | 59.0 | 7 53 | 12 48 | 58.9 | 7 22 | 11 56 | 58.8 | 6 51 | 11 05 | 58.7 | 212 328 |
| 33 147 | 9 41 | 15 15 | 58.3 | 9 10 | 14 23 | 58.2 | 8 38 | 13 31 | 58.0 | 8 06 | 12 40 | 57.9 | 7 34 | 11 49 | 57.8 | 7 02 | 10 57 | 57.7 | 213 327 |
| 34 146 | 9 57 | 15 05 | 57.3 | 9 25 | 14 13 | 57.2 | 8 52 | 13 22 | 57.0 | 8 19 | 12 31 | 56.9 | 7 46 | 11 41 | 56.8 | 7 14 | 10 50 | 56.7 | 214 326 |
| 35 145 | 10 13 | 14 54 | 56.3 | 9 39 | 14 04 | 56.2 | 9 06 | 13 13 | 56.1 | 8 32 | 12 23 | 55.9 | 7 59 | 11 33 | 55.8 | 7 25 | 10 43 | 55.7 | 215 325 |
| 36 144 | 10 28 | 14 44 | 55.4 | 9 54 | 13 54 | 55.2 | 9 19 | 13 04 | 55.1 | 8 45 | 12 14 | 54.9 | 8 11 | 11 24 | 54.8 | 7 36 | 10 35 | 54.7 | 216 324 |
| 37 143 | 10 43 | 14 33 | 54.4 | 10 08 | 13 43 | 54.2 | 9 33 | 12 54 | 54.1 | 8 58 | 12 05 | 53.9 | 8 22 | 11 16 | 53.8 | 7 47 | 10 27 | 53.7 | 217 323 |
| 38 142 | 10 58 | 14 22 | 53.4 | 10 22 | 13 33 | 53.2 | 9 46 | 12 44 | 53.1 | 9 10 | 11 55 | 53.0 | 8 34 | 11 07 | 52.8 | 7 58 | 10 19 | 52.7 | 218 322 |
| 39 141 | 11 13 | 14 10 | 52.4 | 10 36 | 13 22 | 52.2 | 9 59 | 12 34 | 52.1 | 9 22 | 11 46 | 52.0 | 8 45 | 10 58 | 51.8 | 8 08 | 10 10 | 51.7 | 219 321 |
| 40 140 | 11 27 | 13 59 | 51.4 | 10 50 | 13 11 | 51.3 | 10 12 | 12 23 | 51.1 | 9 35 | 11 36 | 51.0 | 8 57 | 10 49 | 50.8 | 8 19 | 10 02 | 50.7 | 220 320 |
| 41 139 | 11 42 | 13 47 | 50.4 | 11 04 | 13 00 | 50.3 | 10 25 | 12 13 | 50.1 | 9 47 | 11 26 | 50.0 | 9 08 | 10 39 | 49.9 | 8 29 | 9 53 | 49.7 | 221 319 |
| 42 138 | 11 56 | 13 34 | 49.4 | 11 17 | 12 48 | 49.3 | 10 38 | 12 02 | 49.1 | 9 58 | 11 16 | 49.0 | 9 19 | 10 30 | 48.9 | 8 39 | 9 44 | 48.7 | 222 318 |
| 43 137 | 12 10 | 13 22 | 48.4 | 11 30 | 12 36 | 48.3 | 10 50 | 11 51 | 48.1 | 10 10 | 11 05 | 48.0 | 9 30 | 10 20 | 47.9 | 8 49 | 9 35 | 47.7 | 223 317 |
| 44 136 | 12 24 | 13 09 | 47.4 | 11 43 | 12 24 | 47.3 | 11 02 | 11 39 | 47.1 | 10 21 | 10 55 | 47.0 | 9 40 | 10 10 | 46.9 | 8 59 | 9 26 | 46.7 | 224 316 |
| 45 135 | 12 37 | 12 56 | 46.4 | 11 56 | 12 12 | 46.3 | 11 14 | 11 28 | 46.1 | 10 33 | 10 44 | 46.0 | 9 51 | 10 00 | 45.9 | 9 09 | 9 16 | 45.7 | 225 315 |

LATITUD / A: 72° - 77°

319

| Lat. / A | | 72° | | | 73° | | | 74° | | | 75° | | | 76° | | | 77° | | | Lat. / A | |
|----------|-----|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|----------|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | F | |
| 45 | 135 | 12 37 | 12 56 | 46.4 | 11 56 | 12 12 | 46.3 | 11 14 | 11 28 | 46.1 | 10 33 | 10 44 | 46.0 | 9 51 | 10 00 | 45.9 | 9 09 | 9 16 | 45.7 | 225 | 315 |
| 46 | 134 | 12 51 | 12 43 | 45.4 | 12 08 | 11 59 | 45.3 | 11 26 | 11 16 | 45.1 | 10 44 | 10 33 | 45.0 | 10 01 | 9 50 | 44.9 | 9 19 | 9 07 | 44.7 | 226 | 314 |
| 47 | 133 | 13 04 | 12 30 | 44.4 | 12 21 | 11 47 | 44.3 | 11 38 | 11 04 | 44.1 | 10 55 | 10 21 | 44.0 | 10 11 | 9 39 | 43.9 | 9 28 | 8 57 | 43.7 | 227 | 313 |
| 48 | 132 | 13 17 | 12 16 | 43.4 | 12 33 | 11 34 | 43.3 | 11 49 | 10 52 | 43.1 | 11 05 | 10 10 | 43.0 | 10 21 | 9 28 | 42.9 | 9 37 | 8 47 | 42.7 | 228 | 312 |
| 49 | 131 | 13 29 | 12 02 | 42.4 | 12 45 | 11 21 | 42.3 | 12 00 | 10 39 | 42.1 | 11 16 | 9 58 | 42.0 | 10 31 | 9 17 | 41.9 | 9 46 | 8 37 | 41.7 | 229 | 311 |
| 50 | 130 | 13 42 | 11 48 | 41.4 | 12 57 | 11 07 | 41.3 | 12 11 | 10 27 | 41.1 | 11 26 | 9 46 | 41.0 | 10 41 | 9 06 | 40.9 | 9 55 | 8 26 | 40.7 | 230 | 310 |
| 51 | 129 | 13 54 | 11 33 | 40.4 | 13 08 | 10 53 | 40.3 | 12 22 | 10 14 | 40.1 | 11 36 | 9 34 | 40.0 | 10 50 | 8 55 | 39.8 | 10 04 | 8 16 | 39.7 | 231 | 309 |
| 52 | 128 | 14 06 | 11 19 | 39.4 | 13 19 | 10 40 | 39.2 | 12 33 | 10 01 | 39.1 | 11 46 | 9 22 | 39.0 | 10 59 | 8 44 | 38.8 | 10 13 | 8 05 | 38.7 | 232 | 308 |
| 53 | 127 | 14 17 | 11 04 | 38.4 | 13 30 | 10 26 | 38.2 | 12 43 | 9 47 | 38.1 | 11 56 | 9 10 | 38.0 | 11 08 | 8 32 | 37.8 | 10 21 | 7 55 | 37.7 | 233 | 307 |
| 54 | 126 | 14 29 | 10 49 | 37.4 | 13 41 | 10 11 | 37.2 | 12 53 | 9 34 | 37.1 | 12 05 | 8 57 | 36.9 | 11 17 | 8 20 | 36.8 | 10 29 | 7 44 | 36.7 | 234 | 306 |
| 55 | 125 | 14 40 | 10 33 | 36.4 | 13 51 | 9 57 | 36.2 | 13 03 | 9 20 | 36.1 | 12 14 | 8 44 | 35.9 | 11 26 | 8 08 | 35.8 | 10 37 | 7 33 | 35.7 | 235 | 305 |
| 56 | 124 | 14 51 | 10 18 | 35.3 | 14 02 | 9 42 | 35.2 | 13 13 | 9 07 | 35.1 | 12 23 | 8 31 | 34.9 | 11 34 | 7 56 | 34.8 | 10 45 | 7 21 | 34.7 | 236 | 304 |
| 57 | 123 | 15 01 | 10 02 | 34.3 | 14 12 | 9 27 | 34.2 | 13 22 | 8 53 | 34.0 | 12 32 | 8 18 | 33.9 | 11 42 | 7 44 | 33.8 | 10 52 | 7 10 | 33.7 | 237 | 303 |
| 58 | 122 | 15 12 | 9 46 | 33.3 | 14 21 | 9 12 | 33.2 | 13 31 | 8 38 | 33.0 | 12 41 | 8 05 | 32.9 | 11 50 | 7 32 | 32.8 | 11 00 | 6 59 | 32.7 | 238 | 302 |
| 59 | 121 | 15 22 | 9 30 | 32.3 | 14 31 | 8 57 | 32.1 | 13 40 | 8 24 | 32.0 | 12 49 | 7 51 | 31.9 | 11 58 | 7 19 | 31.8 | 11 07 | 6 47 | 31.7 | 239 | 301 |
| 60 | 120 | 15 31 | 9 14 | 31.3 | 14 40 | 8 41 | 31.1 | 13 49 | 8 10 | 31.0 | 12 57 | 7 38 | 30.9 | 12 06 | 7 06 | 30.8 | 11 14 | 6 35 | 30.6 | 240 | 300 |
| 61 | 119 | 15 41 | 8 57 | 30.2 | 14 49 | 8 26 | 30.1 | 13 57 | 7 55 | 30.0 | 13 05 | 7 24 | 29.8 | 12 13 | 6 54 | 29.7 | 11 21 | 6 23 | 29.6 | 241 | 299 |
| 62 | 118 | 15 50 | 8 40 | 29.2 | 14 58 | 8 10 | 29.1 | 14 05 | 7 40 | 28.9 | 13 13 | 7 10 | 28.8 | 12 20 | 6 41 | 28.7 | 11 27 | 6 11 | 28.6 | 242 | 298 |
| 63 | 117 | 15 59 | 8 23 | 28.2 | 15 06 | 7 54 | 28.0 | 14 13 | 7 25 | 27.9 | 13 20 | 6 56 | 27.8 | 12 27 | 6 27 | 27.7 | 11 34 | 5 59 | 27.6 | 243 | 297 |
| 64 | 116 | 16 08 | 8 06 | 27.2 | 15 14 | 7 38 | 27.0 | 14 21 | 7 10 | 26.9 | 13 27 | 6 42 | 26.8 | 12 34 | 6 14 | 26.7 | 11 40 | 5 47 | 26.6 | 244 | 296 |
| 65 | 115 | 16 16 | 7 49 | 26.1 | 15 22 | 7 22 | 26.0 | 14 28 | 6 55 | 25.9 | 13 34 | 6 28 | 25.8 | 12 40 | 6 01 | 25.7 | 11 46 | 5 34 | 25.6 | 245 | 295 |
| 66 | 114 | 16 24 | 7 32 | 25.1 | 15 29 | 7 05 | 25.0 | 14 35 | 6 39 | 24.9 | 13 41 | 6 13 | 24.7 | 12 46 | 5 47 | 24.6 | 11 52 | 5 22 | 24.6 | 246 | 294 |
| 67 | 113 | 16 32 | 7 14 | 24.1 | 15 37 | 6 49 | 23.9 | 14 42 | 6 24 | 23.8 | 13 47 | 5 59 | 23.7 | 12 52 | 5 34 | 23.6 | 11 57 | 5 09 | 23.5 | 247 | 293 |
| 68 | 112 | 16 39 | 6 56 | 23.0 | 15 44 | 6 32 | 22.9 | 14 48 | 6 08 | 22.8 | 13 53 | 5 44 | 22.7 | 12 58 | 5 20 | 22.6 | 12 02 | 4 57 | 22.5 | 248 | 292 |
| 69 | 111 | 16 46 | 6 39 | 22.0 | 15 50 | 6 15 | 21.9 | 14 55 | 5 52 | 21.8 | 13 59 | 5 29 | 21.7 | 13 03 | 5 06 | 21.6 | 12 07 | 4 44 | 21.5 | 249 | 291 |
| 70 | 110 | 16 53 | 6 20 | 20.9 | 15 57 | 5 58 | 20.8 | 15 01 | 5 36 | 20.7 | 14 05 | 5 14 | 20.6 | 13 08 | 4 52 | 20.6 | 12 12 | 4 31 | 20.5 | 250 | 290 |
| 71 | 109 | 16 59 | 6 02 | 19.9 | 16 03 | 5 41 | 19.8 | 15 06 | 5 20 | 19.7 | 14 10 | 4 59 | 19.6 | 13 13 | 4 38 | 19.5 | 12 17 | 4 18 | 19.5 | 251 | 289 |
| 72 | 108 | 17 05 | 5 44 | 18.9 | 16 09 | 5 24 | 18.8 | 15 12 | 5 04 | 18.7 | 14 15 | 4 44 | 18.6 | 13 18 | 4 24 | 18.5 | 12 21 | 4 05 | 18.4 | 252 | 288 |
| 73 | 107 | 17 11 | 5 26 | 17.8 | 16 14 | 5 06 | 17.7 | 15 17 | 4 48 | 17.6 | 14 20 | 4 29 | 17.5 | 13 23 | 4 10 | 17.5 | 12 25 | 3 52 | 17.4 | 253 | 287 |
| 74 | 106 | 17 17 | 5 07 | 16.8 | 16 19 | 4 49 | 16.7 | 15 22 | 4 31 | 16.6 | 14 24 | 4 13 | 16.5 | 13 27 | 3 56 | 16.5 | 12 29 | 3 38 | 16.4 | 254 | 286 |
| 75 | 105 | 17 22 | 4 48 | 15.7 | 16 24 | 4 31 | 15.7 | 15 26 | 4 15 | 15.6 | 14 29 | 3 58 | 15.5 | 13 31 | 3 42 | 15.4 | 12 33 | 3 25 | 15.4 | 255 | 285 |
| 76 | 104 | 17 27 | 4 30 | 14.7 | 16 29 | 4 14 | 14.6 | 15 31 | 3 58 | 14.5 | 14 33 | 3 43 | 14.5 | 13 35 | 3 27 | 14.4 | 12 36 | 3 12 | 14.4 | 256 | 284 |
| 77 | 103 | 17 31 | 4 11 | 13.6 | 16 33 | 3 56 | 13.6 | 15 35 | 3 41 | 13.5 | 14 36 | 3 27 | 13.4 | 13 38 | 3 13 | 13.4 | 12 40 | 2 58 | 13.3 | 257 | 283 |
| 78 | 102 | 17 36 | 3 52 | 12.6 | 16 37 | 3 38 | 12.5 | 15 38 | 3 25 | 12.5 | 14 40 | 3 11 | 12.4 | 13 41 | 2 58 | 12.4 | 12 43 | 2 45 | 12.3 | 258 | 282 |
| 79 | 101 | 17 39 | 3 33 | 11.6 | 16 41 | 3 20 | 11.5 | 15 42 | 3 08 | 11.4 | 14 43 | 2 56 | 11.4 | 13 44 | 2 43 | 11.3 | 12 45 | 2 31 | 11.3 | 259 | 281 |
| 80 | 100 | 17 43 | 3 14 | 10.5 | 16 44 | 3 02 | 10.4 | 15 45 | 2 51 | 10.4 | 14 46 | 2 40 | 10.3 | 13 47 | 2 29 | 10.3 | 12 48 | 2 18 | 10.3 | 260 | 280 |
| 81 | 99 | 17 46 | 2 55 | 9.5 | 16 47 | 2 44 | 9.4 | 15 48 | 2 34 | 9.4 | 14 49 | 2 24 | 9.3 | 13 49 | 2 14 | 9.3 | 12 50 | 2 04 | 9.2 | 261 | 279 |
| 82 | 98 | 17 49 | 2 35 | 8.4 | 16 50 | 2 26 | 8.4 | 15 50 | 2 17 | 8.3 | 14 51 | 2 08 | 8.3 | 13 52 | 1 59 | 8.2 | 12 52 | 1 50 | 8.2 | 262 | 278 |
| 83 | 97 | 17 52 | 2 16 | 7.4 | 16 52 | 2 08 | 7.3 | 15 53 | 2 00 | 7.3 | 14 53 | 1 52 | 7.2 | 13 54 | 1 44 | 7.2 | 12 54 | 1 37 | 7.2 | 263 | 277 |
| 84 | 96 | 17 54 | 1 57 | 6.3 | 16 54 | 1 50 | 6.3 | 15 55 | 1 43 | 6.2 | 14 55 | 1 36 | 6.2 | 13 55 | 1 30 | 6.2 | 12 56 | 1 23 | 6.2 | 264 | 276 |
| 85 | 95 | 17 56 | 1 37 | 5.3 | 16 56 | 1 32 | 5.2 | 15 56 | 1 26 | 5.2 | 14 56 | 1 20 | 5.2 | 13 57 | 1 15 | 5.2 | 12 57 | 1 09 | 5.1 | 265 | 275 |
| 86 | 94 | 17 57 | 1 18 | 4.2 | 16 57 | 1 13 | 4.2 | 15 58 | 1 09 | 4.2 | 14 58 | 1 04 | 4.1 | 13 58 | 1 00 | 4.1 | 12 58 | 0 55 | 4.1 | 266 | 274 |
| 87 | 93 | 17 58 | 0 58 | 3.2 | 16 59 | 0 55 | 3.1 | 15 59 | 0 52 | 3.1 | 14 59 | 0 48 | 3.1 | 13 59 | 0 45 | 3.1 | 12 59 | 0 42 | 3.1 | 267 | 273 |
| 88 | 92 | 17 59 | 0 39 | 2.1 | 16 59 | 0 37 | 2.1 | 15 59 | 0 34 | 2.1 | 14 59 | 0 32 | 2.1 | 13 59 | 0 30 | 2.1 | 13 00 | 0 28 | 2.1 | 268 | 272 |
| 89 | 91 | 18 00 | 0 19 | 1.1 | 17 00 | 0 18 | 1.0 | 16 00 | 0 17 | 1.0 | 15 00 | 0 16 | 1.0 | 14 00 | 0 15 | 1.0 | 13 00 | 0 14 | 1.0 | 269 | 271 |
| 90 | 90 | 18 00 | 0 00 | 0.0 | 17 00 | 0 00 | 0.0 | 16 00 | 0 00 | 0.0 | 15 00 | 0 00 | 0.0 | 14 00 | 0 00 | 0.0 | 13 00 | 0 00 | 0.0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (-) para 90° < AHL < 270°

TABLA PARA REDUCCION DE VISUALES

Z₁ : mismo signo que B
Z₂ : (-) para F > 90°

Dec: (-) para la Lat. especificada y opuesta.

| Lat / A | 78° | | | 79° | | | 80° | | | 81° | | | 82° | | | 83° | | | Lat. / A | | |
|---------|-----|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|----------|-----|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | |
| 0 | 180 | 0.00 | 12.00 | 90.0 | 0.00 | 11.00 | 90.0 | 0.00 | 10.00 | 90.0 | 0.00 | 9.00 | 90.0 | 0.00 | 8.00 | 90.0 | 0.00 | 7.00 | 90.0 | 180 | 360 |
| 1 | 179 | 0.12 | 12.00 | 89.0 | 0.11 | 11.00 | 89.0 | 0.10 | 10.00 | 89.0 | 0.09 | 9.00 | 89.0 | 0.08 | 8.00 | 89.0 | 0.07 | 7.00 | 89.0 | 181 | 359 |
| 2 | 178 | 0.25 | 12.00 | 88.0 | 0.23 | 11.00 | 88.0 | 0.21 | 10.00 | 88.0 | 0.19 | 9.00 | 88.0 | 0.17 | 8.00 | 88.0 | 0.15 | 7.00 | 88.0 | 182 | 358 |
| 3 | 177 | 0.37 | 11.59 | 87.1 | 0.34 | 10.59 | 87.1 | 0.31 | 9.59 | 87.0 | 0.28 | 8.59 | 87.0 | 0.25 | 7.59 | 87.0 | 0.22 | 6.59 | 87.0 | 183 | 357 |
| 4 | 176 | 0.50 | 11.58 | 86.1 | 0.46 | 10.58 | 86.1 | 0.42 | 9.59 | 86.1 | 0.38 | 8.59 | 86.0 | 0.33 | 7.59 | 86.0 | 0.29 | 6.59 | 86.0 | 184 | 356 |
| 5 | 175 | 1.02 | 11.57 | 85.1 | 0.57 | 10.58 | 85.1 | 0.52 | 9.58 | 85.1 | 0.47 | 8.58 | 85.1 | 0.42 | 7.58 | 85.0 | 0.37 | 6.58 | 85.0 | 185 | 355 |
| 6 | 174 | 1.15 | 11.56 | 84.1 | 1.09 | 10.56 | 84.1 | 1.02 | 9.57 | 84.1 | 0.56 | 8.57 | 84.1 | 0.50 | 7.57 | 84.1 | 0.44 | 6.58 | 84.0 | 186 | 354 |
| 7 | 173 | 1.27 | 11.55 | 83.2 | 1.20 | 10.55 | 83.1 | 1.13 | 9.56 | 83.1 | 1.06 | 8.56 | 83.1 | 0.58 | 7.56 | 83.1 | 0.51 | 6.57 | 83.1 | 187 | 353 |
| 8 | 172 | 1.39 | 11.53 | 82.2 | 1.31 | 10.54 | 82.1 | 1.23 | 9.54 | 82.1 | 1.15 | 8.55 | 82.1 | 1.07 | 7.55 | 82.1 | 0.58 | 6.56 | 82.1 | 188 | 352 |
| 9 | 171 | 1.52 | 11.51 | 81.2 | 1.43 | 10.52 | 81.2 | 1.33 | 9.53 | 81.1 | 1.24 | 8.53 | 81.1 | 1.15 | 7.54 | 81.1 | 1.06 | 6.55 | 81.1 | 189 | 351 |
| 10 | 170 | 2.04 | 11.49 | 80.2 | 1.54 | 10.50 | 80.2 | 1.44 | 9.51 | 80.1 | 1.33 | 8.52 | 80.1 | 1.23 | 7.53 | 80.1 | 1.13 | 6.54 | 80.1 | 190 | 350 |
| 11 | 169 | 2.16 | 11.47 | 79.2 | 2.05 | 10.48 | 79.2 | 1.54 | 9.49 | 79.2 | 1.43 | 8.50 | 79.1 | 1.31 | 7.51 | 79.1 | 1.20 | 6.52 | 79.1 | 191 | 349 |
| 12 | 168 | 2.29 | 11.45 | 78.3 | 2.16 | 10.46 | 78.2 | 2.04 | 9.47 | 78.2 | 1.52 | 8.48 | 78.1 | 1.39 | 7.50 | 78.1 | 1.27 | 6.51 | 78.1 | 192 | 348 |
| 13 | 167 | 2.41 | 11.42 | 77.3 | 2.28 | 10.43 | 77.2 | 2.14 | 9.45 | 77.2 | 2.01 | 8.46 | 77.2 | 1.48 | 7.48 | 77.1 | 1.34 | 6.49 | 77.1 | 193 | 347 |
| 14 | 166 | 2.53 | 11.39 | 76.3 | 2.39 | 10.41 | 76.2 | 2.24 | 9.43 | 76.2 | 2.10 | 8.44 | 76.2 | 1.56 | 7.46 | 76.1 | 1.41 | 6.48 | 76.1 | 194 | 346 |
| 15 | 165 | 3.05 | 11.36 | 75.3 | 2.50 | 10.38 | 75.3 | 2.35 | 9.40 | 75.2 | 2.19 | 8.42 | 75.2 | 2.04 | 7.44 | 75.1 | 1.48 | 6.46 | 75.1 | 195 | 345 |
| 16 | 164 | 3.17 | 11.33 | 74.3 | 3.01 | 10.35 | 74.3 | 2.45 | 9.37 | 74.2 | 2.28 | 8.39 | 74.2 | 2.12 | 7.42 | 74.1 | 1.56 | 6.44 | 74.1 | 196 | 344 |
| 17 | 163 | 3.29 | 11.29 | 73.4 | 3.12 | 10.32 | 73.3 | 2.55 | 9.34 | 73.2 | 2.37 | 8.37 | 73.2 | 2.20 | 7.39 | 73.2 | 2.03 | 6.42 | 73.1 | 197 | 343 |
| 18 | 162 | 3.41 | 11.26 | 72.4 | 3.23 | 10.28 | 72.3 | 3.05 | 9.31 | 72.3 | 2.46 | 8.34 | 72.2 | 2.28 | 7.37 | 72.2 | 2.09 | 6.40 | 72.1 | 198 | 342 |
| 19 | 161 | 3.53 | 11.22 | 71.4 | 3.34 | 10.25 | 71.3 | 3.14 | 9.28 | 71.3 | 2.55 | 8.31 | 71.2 | 2.36 | 7.34 | 71.2 | 2.16 | 6.37 | 71.1 | 199 | 341 |
| 20 | 160 | 4.05 | 11.18 | 70.4 | 3.45 | 10.21 | 70.3 | 3.24 | 9.24 | 70.3 | 3.04 | 8.28 | 70.2 | 2.44 | 7.31 | 70.2 | 2.23 | 6.35 | 70.1 | 200 | 340 |
| 21 | 159 | 4.16 | 11.13 | 69.4 | 3.55 | 10.17 | 69.4 | 3.34 | 9.21 | 69.3 | 3.13 | 8.25 | 69.2 | 2.52 | 7.28 | 69.2 | 2.30 | 6.32 | 69.1 | 201 | 339 |
| 22 | 158 | 4.28 | 11.09 | 68.4 | 4.06 | 10.13 | 68.4 | 3.44 | 9.17 | 68.4 | 3.22 | 8.21 | 68.2 | 2.59 | 7.25 | 68.2 | 2.37 | 6.30 | 68.1 | 202 | 338 |
| 23 | 157 | 4.40 | 11.04 | 67.5 | 4.17 | 10.09 | 67.4 | 3.53 | 9.13 | 67.3 | 3.30 | 8.18 | 67.3 | 3.07 | 7.22 | 67.2 | 2.44 | 6.27 | 67.2 | 203 | 337 |
| 24 | 156 | 4.51 | 10.59 | 66.5 | 4.27 | 10.04 | 66.4 | 4.03 | 9.09 | 66.3 | 3.39 | 8.14 | 66.3 | 3.15 | 7.19 | 66.2 | 2.50 | 6.24 | 66.2 | 204 | 336 |
| 25 | 155 | 5.02 | 10.54 | 65.5 | 4.38 | 9.59 | 65.4 | 4.13 | 9.05 | 65.3 | 3.47 | 8.10 | 65.3 | 3.22 | 7.16 | 65.2 | 2.57 | 6.21 | 65.2 | 205 | 335 |
| 26 | 154 | 5.14 | 10.49 | 64.5 | 4.48 | 9.55 | 64.4 | 4.22 | 9.00 | 64.3 | 3.56 | 8.06 | 64.3 | 3.30 | 7.12 | 64.2 | 3.04 | 6.18 | 64.2 | 206 | 334 |
| 27 | 153 | 5.25 | 10.43 | 63.5 | 4.58 | 9.50 | 63.4 | 4.31 | 8.56 | 63.4 | 4.04 | 8.02 | 63.3 | 3.37 | 7.08 | 63.2 | 3.10 | 6.15 | 63.2 | 207 | 333 |
| 28 | 152 | 5.36 | 10.38 | 62.5 | 5.08 | 9.44 | 62.4 | 4.41 | 8.51 | 62.4 | 4.13 | 7.58 | 62.3 | 3.45 | 7.04 | 62.2 | 3.17 | 6.11 | 62.2 | 208 | 332 |
| 29 | 151 | 5.47 | 10.32 | 61.5 | 5.18 | 9.39 | 61.4 | 4.50 | 8.46 | 61.4 | 4.21 | 7.53 | 61.3 | 3.52 | 7.00 | 61.2 | 3.23 | 6.08 | 61.2 | 209 | 331 |
| 30 | 150 | 5.58 | 10.26 | 60.5 | 5.28 | 9.33 | 60.5 | 4.59 | 8.41 | 60.4 | 4.29 | 7.49 | 60.3 | 3.59 | 6.56 | 60.2 | 3.30 | 6.04 | 60.2 | 210 | 330 |
| 31 | 149 | 6.09 | 10.20 | 59.6 | 5.38 | 9.28 | 59.5 | 5.08 | 8.36 | 59.4 | 4.37 | 7.44 | 59.3 | 4.07 | 6.52 | 59.2 | 3.36 | 6.00 | 59.2 | 211 | 329 |
| 32 | 148 | 6.20 | 10.13 | 58.6 | 5.48 | 9.22 | 58.6 | 5.17 | 8.30 | 58.4 | 4.45 | 7.39 | 58.3 | 4.14 | 6.48 | 58.3 | 3.42 | 5.57 | 58.2 | 212 | 328 |
| 33 | 147 | 6.30 | 10.06 | 57.6 | 5.58 | 9.16 | 57.5 | 5.26 | 8.25 | 57.4 | 4.53 | 7.34 | 57.3 | 4.21 | 6.43 | 57.3 | 3.48 | 5.53 | 57.2 | 213 | 327 |
| 34 | 146 | 6.41 | 10.00 | 56.6 | 6.08 | 9.09 | 56.5 | 5.34 | 8.19 | 56.4 | 5.01 | 7.29 | 56.3 | 4.28 | 6.39 | 56.3 | 3.54 | 5.49 | 56.2 | 214 | 326 |
| 35 | 145 | 6.51 | 9.53 | 55.6 | 6.17 | 9.03 | 55.5 | 5.43 | 8.13 | 55.4 | 5.09 | 7.24 | 55.3 | 4.35 | 6.34 | 55.3 | 4.00 | 5.45 | 55.2 | 215 | 325 |
| 36 | 144 | 7.01 | 9.45 | 54.6 | 6.26 | 8.56 | 54.5 | 5.51 | 8.07 | 54.4 | 5.17 | 7.18 | 54.3 | 4.42 | 6.29 | 54.3 | 4.06 | 5.40 | 54.2 | 216 | 324 |
| 37 | 143 | 7.11 | 9.38 | 53.6 | 6.36 | 8.49 | 53.5 | 6.00 | 8.01 | 53.4 | 5.24 | 7.13 | 53.3 | 4.48 | 6.24 | 53.3 | 4.12 | 5.36 | 53.2 | 217 | 323 |
| 38 | 142 | 7.21 | 9.31 | 52.6 | 6.45 | 8.43 | 52.5 | 6.08 | 7.55 | 52.4 | 5.32 | 7.07 | 52.3 | 4.55 | 6.19 | 52.3 | 4.18 | 5.32 | 52.2 | 218 | 322 |
| 39 | 141 | 7.31 | 9.23 | 51.6 | 6.54 | 8.35 | 51.5 | 6.16 | 7.48 | 51.4 | 5.39 | 7.01 | 51.3 | 5.01 | 6.14 | 51.3 | 4.24 | 5.27 | 51.2 | 219 | 321 |
| 40 | 140 | 7.41 | 9.15 | 50.6 | 7.03 | 8.28 | 50.5 | 6.25 | 7.42 | 50.4 | 5.46 | 6.55 | 50.3 | 5.08 | 6.09 | 50.3 | 4.30 | 5.22 | 50.2 | 220 | 320 |
| 41 | 139 | 7.50 | 9.07 | 49.6 | 7.11 | 8.21 | 49.5 | 6.32 | 7.35 | 49.4 | 5.53 | 6.49 | 49.3 | 5.14 | 6.03 | 49.3 | 4.35 | 5.18 | 49.2 | 221 | 319 |
| 42 | 138 | 8.00 | 8.59 | 48.6 | 7.20 | 8.13 | 48.5 | 6.40 | 7.28 | 48.4 | 6.01 | 6.43 | 48.4 | 5.21 | 5.58 | 48.3 | 4.41 | 5.13 | 48.2 | 222 | 318 |
| 43 | 137 | 8.09 | 8.50 | 47.6 | 7.29 | 8.05 | 47.5 | 6.48 | 7.21 | 47.4 | 6.07 | 6.36 | 47.4 | 5.27 | 5.52 | 47.3 | 4.46 | 5.08 | 47.2 | 223 | 317 |
| 44 | 136 | 8.18 | 8.42 | 46.6 | 7.37 | 7.58 | 46.5 | 6.56 | 7.14 | 46.4 | 6.14 | 6.30 | 46.4 | 5.33 | 5.46 | 46.3 | 4.51 | 5.03 | 46.2 | 224 | 316 |
| 45 | 135 | 8.27 | 8.33 | 45.6 | 7.45 | 7.50 | 45.5 | 7.03 | 7.06 | 45.4 | 6.21 | 6.23 | 45.4 | 5.39 | 5.41 | 45.3 | 4.57 | 4.58 | 45.2 | 225 | 315 |

LATITUD / A: 78° - 83°

| Lat. / A | 78° | | | 79° | | | 80° | | | 81° | | | 82° | | | 83° | | | Lat. / A | | |
|----------|-----|-------|--------------------------------|------|-------|--------------------------------|------|-------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|----------|-----|-----|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL | | |
| 45 | 135 | 8 27 | 8 33 | 45 6 | 7 45 | 7 50 | 45 5 | 7 03 | 7 06 | 45 4 | 6 21 | 6 23 | 45 4 | 5 39 | 5 41 | 45 3 | 4 57 | 4 58 | 45 2 | 225 | 315 |
| 46 | 134 | 8 36 | 8 24 | 44 6 | 7 53 | 7 41 | 44 5 | 7 11 | 6 59 | 44 4 | 6 28 | 6 17 | 44 4 | 5 45 | 5 35 | 44 3 | 5 02 | 4 53 | 44 2 | 226 | 314 |
| 47 | 133 | 8 45 | 8 15 | 43 6 | 8 01 | 7 33 | 43 5 | 7 18 | 6 51 | 43 4 | 6 34 | 6 10 | 43 4 | 5 51 | 5 29 | 43 3 | 5 07 | 4 47 | 43 2 | 227 | 313 |
| 48 | 132 | 8 53 | 8 06 | 42 6 | 8 09 | 7 25 | 42 5 | 7 25 | 6 44 | 42 4 | 6 41 | 6 03 | 42 4 | 5 56 | 5 22 | 42 3 | 5 12 | 4 42 | 42 2 | 228 | 312 |
| 49 | 131 | 9 02 | 7 56 | 41 6 | 8 17 | 7 16 | 41 5 | 7 32 | 6 36 | 41 4 | 6 47 | 5 56 | 41 4 | 6 02 | 5 16 | 41 3 | 5 17 | 4 36 | 41 2 | 229 | 311 |
| 50 | 130 | 9 10 | 7 47 | 40 6 | 8 24 | 7 07 | 40 5 | 7 39 | 6 28 | 40 4 | 6 53 | 5 49 | 40 3 | 6 07 | 5 10 | 40 3 | 5 21 | 4 31 | 40 2 | 230 | 310 |
| 51 | 129 | 9 18 | 7 37 | 39 6 | 8 32 | 6 58 | 39 5 | 7 45 | 6 20 | 39 4 | 6 59 | 5 42 | 39 3 | 6 13 | 5 03 | 39 3 | 5 26 | 4 25 | 39 2 | 231 | 309 |
| 52 | 128 | 9 26 | 7 27 | 38 6 | 8 39 | 6 49 | 38 5 | 7 52 | 6 12 | 38 4 | 7 05 | 5 34 | 38 3 | 6 18 | 4 57 | 38 3 | 5 31 | 4 19 | 38 2 | 232 | 308 |
| 53 | 127 | 9 33 | 7 17 | 37 6 | 8 46 | 6 40 | 37 5 | 7 58 | 6 03 | 37 4 | 7 11 | 5 27 | 37 3 | 6 23 | 4 50 | 37 3 | 5 35 | 4 14 | 37 2 | 233 | 307 |
| 54 | 126 | 9 41 | 7 07 | 36 6 | 8 53 | 6 31 | 36 5 | 8 05 | 5 55 | 36 4 | 7 16 | 5 19 | 36 3 | 6 28 | 4 43 | 36 3 | 5 39 | 4 08 | 36 2 | 234 | 306 |
| 55 | 125 | 9 48 | 6 57 | 35 6 | 9 00 | 6 22 | 35 5 | 8 11 | 5 47 | 35 4 | 7 22 | 5 11 | 35 3 | 6 33 | 4 37 | 35 3 | 5 44 | 4 02 | 35 2 | 235 | 305 |
| 56 | 124 | 9 56 | 6 47 | 34 6 | 9 06 | 6 12 | 34 5 | 8 17 | 5 38 | 34 4 | 7 27 | 5 04 | 34 3 | 6 38 | 4 30 | 34 3 | 5 48 | 3 56 | 34 2 | 236 | 304 |
| 57 | 123 | 10 03 | 6 36 | 33 6 | 9 13 | 6 03 | 33 5 | 8 22 | 5 29 | 33 4 | 7 32 | 4 56 | 33 3 | 6 42 | 4 23 | 33 3 | 5 52 | 3 50 | 33 2 | 237 | 303 |
| 58 | 122 | 10 09 | 6 26 | 32 6 | 9 19 | 5 53 | 32 5 | 8 28 | 5 20 | 32 4 | 7 37 | 4 48 | 32 3 | 6 47 | 4 16 | 32 3 | 5 56 | 3 43 | 32 2 | 238 | 302 |
| 59 | 121 | 10 16 | 6 15 | 31 6 | 9 25 | 5 43 | 31 5 | 8 34 | 5 11 | 31 4 | 7 42 | 4 40 | 31 3 | 6 51 | 4 08 | 31 2 | 6 00 | 3 37 | 31 2 | 239 | 301 |
| 60 | 120 | 10 22 | 6 04 | 30 6 | 9 31 | 5 33 | 30 5 | 8 39 | 5 02 | 30 4 | 7 47 | 4 32 | 30 3 | 6 55 | 4 01 | 30 2 | 6 04 | 3 31 | 30 2 | 240 | 300 |
| 61 | 119 | 10 29 | 5 53 | 29 5 | 9 36 | 5 23 | 29 5 | 8 44 | 4 53 | 29 4 | 7 52 | 4 23 | 29 3 | 6 59 | 3 54 | 29 2 | 6 07 | 3 24 | 29 2 | 241 | 299 |
| 62 | 118 | 10 35 | 5 42 | 28 5 | 9 42 | 5 13 | 28 4 | 8 49 | 4 44 | 28 4 | 7 56 | 4 15 | 28 3 | 7 04 | 3 46 | 28 2 | 6 11 | 3 18 | 28 2 | 242 | 298 |
| 63 | 117 | 10 41 | 5 31 | 27 5 | 9 47 | 5 03 | 27 4 | 8 54 | 4 35 | 27 4 | 8 01 | 4 07 | 27 3 | 7 07 | 3 39 | 27 2 | 6 14 | 3 11 | 27 2 | 243 | 297 |
| 64 | 116 | 10 46 | 5 19 | 26 5 | 9 52 | 4 52 | 26 4 | 8 59 | 4 25 | 26 3 | 8 05 | 3 58 | 26 3 | 7 11 | 3 32 | 26 2 | 6 17 | 3 05 | 26 2 | 244 | 296 |
| 65 | 115 | 10 52 | 5 08 | 25 5 | 9 57 | 4 42 | 25 4 | 9 03 | 4 16 | 25 3 | 8 09 | 3 50 | 25 3 | 7 15 | 3 24 | 25 2 | 6 20 | 2 58 | 25 2 | 245 | 295 |
| 66 | 114 | 10 57 | 4 56 | 24 5 | 10 02 | 4 31 | 24 4 | 9 08 | 4 06 | 24 3 | 8 13 | 3 41 | 24 3 | 7 18 | 3 16 | 24 2 | 6 24 | 2 52 | 24 2 | 246 | 294 |
| 67 | 113 | 11 02 | 4 45 | 23 5 | 10 07 | 4 21 | 23 4 | 9 12 | 3 56 | 23 3 | 8 17 | 3 32 | 23 3 | 7 22 | 3 09 | 23 2 | 6 26 | 2 45 | 23 2 | 247 | 293 |
| 68 | 112 | 11 07 | 4 33 | 22 4 | 10 11 | 4 10 | 22 4 | 9 16 | 3 47 | 22 3 | 8 20 | 3 24 | 22 2 | 7 25 | 3 01 | 22 2 | 6 29 | 2 38 | 22 1 | 248 | 292 |
| 69 | 111 | 11 12 | 4 21 | 21 4 | 10 16 | 3 59 | 21 4 | 9 20 | 3 37 | 21 3 | 8 24 | 3 15 | 21 2 | 7 28 | 2 53 | 21 2 | 6 32 | 2 31 | 21 1 | 249 | 291 |
| 70 | 110 | 11 16 | 4 09 | 20 4 | 10 20 | 3 48 | 20 3 | 9 23 | 3 27 | 20 3 | 8 27 | 3 06 | 20 2 | 7 31 | 2 45 | 20 2 | 6 35 | 2 24 | 20 1 | 250 | 290 |
| 71 | 109 | 11 20 | 3 58 | 19 4 | 10 24 | 3 37 | 19 3 | 9 27 | 3 17 | 19 3 | 8 30 | 2 57 | 19 2 | 7 34 | 2 37 | 19 2 | 6 37 | 2 17 | 19 1 | 251 | 289 |
| 72 | 108 | 11 24 | 3 45 | 18 4 | 10 27 | 3 26 | 18 3 | 9 30 | 3 07 | 18 3 | 8 33 | 2 48 | 18 2 | 7 36 | 2 29 | 18 2 | 6 39 | 2 10 | 18 1 | 252 | 288 |
| 73 | 107 | 11 28 | 3 33 | 17 4 | 10 31 | 3 15 | 17 3 | 9 34 | 2 57 | 17 2 | 8 36 | 2 39 | 17 2 | 7 39 | 2 21 | 17 2 | 6 42 | 2 03 | 17 1 | 253 | 287 |
| 74 | 106 | 11 32 | 3 21 | 16 3 | 10 34 | 3 04 | 16 3 | 9 37 | 2 47 | 16 2 | 8 39 | 2 30 | 16 2 | 7 41 | 2 13 | 16 1 | 6 44 | 1 56 | 16 1 | 254 | 286 |
| 75 | 105 | 11 35 | 3 09 | 15 3 | 10 37 | 2 53 | 15 3 | 9 39 | 2 37 | 15 2 | 8 41 | 2 21 | 15 2 | 7 44 | 2 05 | 15 1 | 6 46 | 1 49 | 15 1 | 255 | 285 |
| 76 | 104 | 11 38 | 2 57 | 14 3 | 10 40 | 2 42 | 14 3 | 9 42 | 2 27 | 14 2 | 8 44 | 2 12 | 14 2 | 7 46 | 1 57 | 14 1 | 6 47 | 1 42 | 14 1 | 256 | 284 |
| 77 | 103 | 11 41 | 2 44 | 13 3 | 10 43 | 2 30 | 13 2 | 9 44 | 2 16 | 13 2 | 8 46 | 2 02 | 13 2 | 7 48 | 1 49 | 13 1 | 6 49 | 1 35 | 13 1 | 257 | 283 |
| 78 | 102 | 11 44 | 2 32 | 12 3 | 10 45 | 2 19 | 12 2 | 9 47 | 2 06 | 12 2 | 8 48 | 1 53 | 12 1 | 7 49 | 1 40 | 12 1 | 6 51 | 1 28 | 12 1 | 258 | 282 |
| 79 | 101 | 11 47 | 2 19 | 11 2 | 10 48 | 2 07 | 11 2 | 9 49 | 1 56 | 11 2 | 8 50 | 1 44 | 11 1 | 7 51 | 1 32 | 11 1 | 6 52 | 1 21 | 11 1 | 259 | 281 |
| 80 | 100 | 11 49 | 2 07 | 10 2 | 10 50 | 1 56 | 10 2 | 9 51 | 1 45 | 10 2 | 8 52 | 1 35 | 10 1 | 7 53 | 1 24 | 10 1 | 6 54 | 1 13 | 10 1 | 260 | 280 |
| 81 | 99 | 11 51 | 1 54 | 9 2 | 10 52 | 1 45 | 9 2 | 9 53 | 1 35 | 9 1 | 8 53 | 1 25 | 9 1 | 7 54 | 1 16 | 9 1 | 6 55 | 1 06 | 9 1 | 261 | 279 |
| 82 | 98 | 11 53 | 1 42 | 8 2 | 10 53 | 1 33 | 8 1 | 9 54 | 1 24 | 8 1 | 8 55 | 1 16 | 8 1 | 7 55 | 1 07 | 8 1 | 6 56 | 0 59 | 8 1 | 262 | 278 |
| 83 | 97 | 11 55 | 1 29 | 7 2 | 10 55 | 1 21 | 7 1 | 9 55 | 1 14 | 7 1 | 8 56 | 1 06 | 7 1 | 7 56 | 0 59 | 7 1 | 6 57 | 0 51 | 7 1 | 263 | 277 |
| 84 | 96 | 11 56 | 1 16 | 6 1 | 10 56 | 1 10 | 6 1 | 9 57 | 1 03 | 6 1 | 8 57 | 0 57 | 6 1 | 7 57 | 0 50 | 6 1 | 6 58 | 0 44 | 6 0 | 264 | 276 |
| 85 | 95 | 11 57 | 1 04 | 5 1 | 10 57 | 0 58 | 5 1 | 9 58 | 0 53 | 5 1 | 8 58 | 0 47 | 5 1 | 7 58 | 0 42 | 5 0 | 6 58 | 0 37 | 5 0 | 265 | 275 |
| 86 | 94 | 11 58 | 0 51 | 4 1 | 10 58 | 0 47 | 4 1 | 9 59 | 0 42 | 4 1 | 8 59 | 0 38 | 4 0 | 7 59 | 0 34 | 4 0 | 6 59 | 0 29 | 4 0 | 266 | 274 |
| 87 | 93 | 11 59 | 0 38 | 3 1 | 10 59 | 0 35 | 3 1 | 9 59 | 0 32 | 3 0 | 8 59 | 0 28 | 3 0 | 7 59 | 0 25 | 3 0 | 6 59 | 0 22 | 3 0 | 267 | 273 |
| 88 | 92 | 12 00 | 0 26 | 2 0 | 11 00 | 0 23 | 2 0 | 10 00 | 0 21 | 2 0 | 9 00 | 0 19 | 2 0 | 8 00 | 0 17 | 2 0 | 7 00 | 0 15 | 2 0 | 268 | 272 |
| 89 | 91 | 12 00 | 0 13 | 1 0 | 11 00 | 0 12 | 1 0 | 10 00 | 0 11 | 1 0 | 9 00 | 0 10 | 1 0 | 8 00 | 0 08 | 1 0 | 7 00 | 0 07 | 1 0 | 269 | 271 |
| 90 | 90 | 12 00 | 0 00 | 0 0 | 11 00 | 0 00 | 0 0 | 10 00 | 0 00 | 0 0 | 9 00 | 0 00 | 0 0 | 8 00 | 0 00 | 0 0 | 7 00 | 0 00 | 0 0 | 270 | 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

B: (—) para $90^\circ < \text{AHL} < 270^\circ$

Dec: (—) para la Lat. especificada y opuesta.

TABLA PARA REDUCCION DE VISUALES

 Z_1 : mismo signo que B Z_2 : (—) para $F > 90^\circ$

| Lat. / A | 84° | | | 85° | | | 86° | | | 87° | | | 88° | | | 89° | | | Lat. / A |
|----------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 0 180 | 0 00 | 6 00 | 90 0 | 0 00 | 5 00 | 90 0 | 0 00 | 4 00 | 90 0 | 0 00 | 3 00 | 90 0 | 0 00 | 2 00 | 90 0 | 0 00 | 1 00 | 90 0 | 180 360 |
| 1 179 | 0 06 | 6 00 | 89 0 | 0 05 | 5 00 | 89 0 | 0 04 | 4 00 | 89 0 | 0 03 | 3 00 | 89 0 | 0 02 | 2 00 | 89 0 | 0 01 | 1 00 | 89 0 | 181 359 |
| 2 178 | 0 13 | 6 00 | 88 0 | 0 10 | 5 00 | 88 0 | 0 08 | 4 00 | 88 0 | 0 06 | 3 00 | 88 0 | 0 04 | 2 00 | 88 0 | 0 02 | 1 00 | 88 0 | 182 358 |
| 3 177 | 0 19 | 6 00 | 87 0 | 0 16 | 5 00 | 87 0 | 0 13 | 4 00 | 87 0 | 0 09 | 3 00 | 87 0 | 0 06 | 2 00 | 87 0 | 0 03 | 1 00 | 87 0 | 183 357 |
| 4 176 | 0 25 | 5 59 | 86 0 | 0 21 | 4 59 | 86 0 | 0 17 | 3 59 | 86 0 | 0 13 | 3 00 | 86 0 | 0 08 | 2 00 | 86 0 | 0 04 | 1 00 | 86 0 | 184 356 |
| 5 175 | 0 31 | 5 59 | 85 0 | 0 26 | 4 59 | 85 0 | 0 21 | 3 59 | 85 0 | 0 16 | 2 59 | 85 0 | 0 10 | 2 00 | 85 0 | 0 05 | 1 00 | 85 0 | 185 355 |
| 6 174 | 0 38 | 5 58 | 84 0 | 0 31 | 4 58 | 84 0 | 0 25 | 3 59 | 84 0 | 0 19 | 2 59 | 84 0 | 0 13 | 1 59 | 84 0 | 0 06 | 1 00 | 84 0 | 186 354 |
| 7 173 | 0 44 | 5 57 | 83 0 | 0 37 | 4 58 | 83 0 | 0 29 | 3 58 | 83 0 | 0 22 | 2 59 | 83 0 | 0 15 | 1 59 | 83 0 | 0 07 | 1 00 | 83 0 | 187 353 |
| 8 172 | 0 50 | 5 57 | 82 0 | 0 42 | 4 57 | 82 0 | 0 33 | 3 58 | 82 0 | 0 25 | 2 58 | 82 0 | 0 17 | 1 59 | 82 0 | 0 08 | 0 59 | 82 0 | 188 352 |
| 9 171 | 0 56 | 5 56 | 81 0 | 0 47 | 4 56 | 81 0 | 0 38 | 3 57 | 81 0 | 0 28 | 2 58 | 81 0 | 0 19 | 1 59 | 81 0 | 0 09 | 0 59 | 81 0 | 189 351 |
| 10 170 | 1 02 | 5 55 | 80 1 | 0 52 | 4 55 | 80 0 | 0 42 | 3 56 | 80 0 | 0 31 | 2 57 | 80 0 | 0 21 | 1 58 | 80 0 | 0 10 | 0 59 | 80 0 | 190 350 |
| 11 169 | 1 09 | 5 53 | 79 1 | 0 57 | 4 55 | 79 0 | 0 46 | 3 56 | 79 0 | 0 34 | 2 57 | 79 0 | 0 23 | 1 58 | 79 0 | 0 11 | 0 59 | 79 0 | 191 349 |
| 12 168 | 1 15 | 5 52 | 78 1 | 1 02 | 4 53 | 78 0 | 0 50 | 3 55 | 78 0 | 0 37 | 2 56 | 78 0 | 0 25 | 1 57 | 78 0 | 0 12 | 0 59 | 78 0 | 192 348 |
| 13 167 | 1 21 | 5 51 | 77 1 | 1 07 | 4 52 | 77 0 | 0 54 | 3 54 | 77 0 | 0 40 | 2 55 | 77 0 | 0 27 | 1 57 | 77 0 | 0 13 | 0 58 | 77 0 | 193 347 |
| 14 166 | 1 27 | 5 49 | 76 1 | 1 12 | 4 51 | 76 1 | 0 58 | 3 53 | 76 0 | 0 44 | 2 55 | 76 0 | 0 29 | 1 56 | 76 0 | 0 15 | 0 58 | 76 0 | 194 346 |
| 15 165 | 1 33 | 5 48 | 75 1 | 1 18 | 4 50 | 75 1 | 1 02 | 3 52 | 75 0 | 0 47 | 2 54 | 75 0 | 0 31 | 1 56 | 75 0 | 0 16 | 0 58 | 75 0 | 195 345 |
| 16 164 | 1 39 | 5 46 | 74 1 | 1 23 | 4 48 | 74 1 | 1 06 | 3 51 | 74 0 | 0 50 | 2 53 | 74 0 | 0 33 | 1 55 | 74 0 | 0 17 | 0 58 | 74 0 | 196 344 |
| 17 163 | 1 45 | 5 44 | 73 1 | 1 28 | 4 47 | 73 1 | 1 10 | 3 50 | 73 0 | 0 53 | 2 52 | 73 0 | 0 35 | 1 55 | 73 0 | 0 18 | 0 57 | 73 0 | 197 343 |
| 18 162 | 1 51 | 5 43 | 72 1 | 1 33 | 4 45 | 72 1 | 1 14 | 3 48 | 72 0 | 0 56 | 2 51 | 72 0 | 0 37 | 1 54 | 72 0 | 0 19 | 0 57 | 72 0 | 198 342 |
| 19 161 | 1 57 | 5 41 | 71 1 | 1 38 | 4 44 | 71 1 | 1 18 | 3 47 | 71 0 | 0 59 | 2 50 | 71 0 | 0 39 | 1 53 | 71 0 | 0 20 | 0 57 | 71 0 | 199 341 |
| 20 160 | 2 03 | 5 38 | 70 1 | 1 42 | 4 42 | 70 1 | 1 22 | 3 46 | 70 0 | 1 02 | 2 49 | 70 0 | 0 41 | 1 53 | 70 0 | 0 21 | 0 56 | 70 0 | 200 340 |
| 21 159 | 2 09 | 5 36 | 69 1 | 1 47 | 4 40 | 69 1 | 1 26 | 3 44 | 69 0 | 1 04 | 2 48 | 69 0 | 0 43 | 1 52 | 69 0 | 0 22 | 0 56 | 69 0 | 201 339 |
| 22 158 | 2 15 | 5 34 | 68 1 | 1 52 | 4 38 | 68 1 | 1 30 | 3 43 | 68 0 | 1 07 | 2 47 | 68 0 | 0 45 | 1 51 | 68 0 | 0 22 | 0 56 | 68 0 | 202 338 |
| 23 157 | 2 20 | 5 32 | 67 1 | 1 57 | 4 36 | 67 1 | 1 34 | 3 41 | 67 1 | 1 10 | 2 46 | 67 0 | 0 47 | 1 50 | 67 0 | 0 23 | 0 55 | 67 0 | 203 337 |
| 24 156 | 2 26 | 5 29 | 66 1 | 2 02 | 4 34 | 66 1 | 1 38 | 3 39 | 66 1 | 1 13 | 2 44 | 66 0 | 0 49 | 1 50 | 66 0 | 0 24 | 0 55 | 66 0 | 204 336 |
| 25 155 | 2 32 | 5 26 | 65 1 | 2 07 | 4 32 | 65 1 | 1 41 | 3 38 | 65 1 | 1 16 | 2 43 | 65 0 | 0 51 | 1 49 | 65 0 | 0 25 | 0 54 | 65 0 | 205 335 |
| 26 154 | 2 38 | 5 24 | 64 1 | 2 11 | 4 30 | 64 1 | 1 45 | 3 36 | 64 1 | 1 19 | 2 42 | 64 0 | 0 53 | 1 48 | 64 0 | 0 26 | 0 54 | 64 0 | 206 334 |
| 27 153 | 2 43 | 5 21 | 63 1 | 2 16 | 4 27 | 63 1 | 1 49 | 3 34 | 63 1 | 1 22 | 2 40 | 63 0 | 0 54 | 1 47 | 63 0 | 0 27 | 0 53 | 63 0 | 207 333 |
| 28 152 | 2 49 | 5 18 | 62 1 | 2 21 | 4 25 | 62 1 | 1 53 | 3 32 | 62 1 | 1 24 | 2 39 | 62 0 | 0 56 | 1 46 | 62 0 | 0 28 | 0 53 | 62 0 | 208 332 |
| 29 151 | 2 54 | 5 15 | 61 1 | 2 25 | 4 23 | 61 1 | 1 56 | 3 30 | 61 1 | 1 27 | 2 37 | 61 0 | 0 58 | 1 45 | 61 0 | 0 29 | 0 52 | 61 0 | 209 331 |
| 30 150 | 3 00 | 5 12 | 60 1 | 2 30 | 4 20 | 60 1 | 2 00 | 3 28 | 60 1 | 1 30 | 2 36 | 60 0 | 1 00 | 1 44 | 60 0 | 0 30 | 0 52 | 60 0 | 210 330 |
| 31 149 | 3 05 | 5 09 | 59 1 | 2 34 | 4 17 | 59 1 | 2 04 | 3 26 | 59 1 | 1 33 | 2 34 | 59 0 | 1 02 | 1 43 | 59 0 | 0 31 | 0 51 | 59 0 | 211 329 |
| 32 148 | 3 11 | 5 06 | 58 1 | 2 39 | 4 15 | 58 1 | 2 07 | 3 24 | 58 1 | 1 35 | 2 33 | 58 0 | 1 04 | 1 42 | 58 0 | 0 32 | 0 51 | 58 0 | 212 328 |
| 33 147 | 3 16 | 5 02 | 57 1 | 2 43 | 4 12 | 57 1 | 2 11 | 3 21 | 57 1 | 1 38 | 2 31 | 57 0 | 1 05 | 1 41 | 57 0 | 0 33 | 0 50 | 57 0 | 213 327 |
| 34 146 | 3 21 | 4 59 | 56 1 | 2 48 | 4 09 | 56 1 | 2 14 | 3 19 | 56 1 | 1 41 | 2 29 | 56 0 | 1 07 | 1 39 | 56 0 | 0 34 | 0 50 | 56 0 | 214 326 |
| 35 145 | 3 26 | 4 55 | 55 1 | 2 52 | 4 06 | 55 1 | 2 18 | 3 17 | 55 1 | 1 43 | 2 27 | 55 0 | 1 09 | 1 38 | 55 0 | 0 34 | 0 49 | 55 0 | 215 325 |
| 36 144 | 3 31 | 4 52 | 54 1 | 2 56 | 4 03 | 54 1 | 2 21 | 3 14 | 54 1 | 1 46 | 2 26 | 54 0 | 1 11 | 1 37 | 54 0 | 0 35 | 0 49 | 54 0 | 216 324 |
| 37 143 | 3 36 | 4 48 | 53 2 | 3 00 | 4 00 | 53 1 | 2 24 | 3 12 | 53 1 | 1 48 | 2 24 | 53 0 | 1 12 | 1 36 | 53 0 | 0 36 | 0 48 | 53 0 | 217 323 |
| 38 142 | 3 41 | 4 44 | 52 2 | 3 05 | 3 57 | 52 1 | 2 28 | 3 09 | 52 1 | 1 51 | 2 22 | 52 0 | 1 14 | 1 35 | 52 0 | 0 37 | 0 47 | 52 0 | 218 322 |
| 39 141 | 3 46 | 4 40 | 51 2 | 3 09 | 3 53 | 51 1 | 2 31 | 3 07 | 51 1 | 1 53 | 2 20 | 51 0 | 1 16 | 1 33 | 51 0 | 0 38 | 0 47 | 51 0 | 219 321 |
| 40 140 | 3 51 | 4 36 | 50 2 | 3 13 | 3 50 | 50 1 | 2 34 | 3 04 | 50 1 | 1 56 | 2 18 | 50 0 | 1 17 | 1 32 | 50 0 | 0 39 | 0 46 | 50 0 | 220 320 |
| 41 139 | 3 56 | 4 32 | 49 2 | 3 17 | 3 47 | 49 1 | 2 37 | 3 01 | 49 1 | 1 58 | 2 16 | 49 0 | 1 19 | 1 31 | 49 0 | 0 39 | 0 45 | 49 0 | 221 319 |
| 42 138 | 4 01 | 4 28 | 48 2 | 3 21 | 3 43 | 48 1 | 2 41 | 2 58 | 48 1 | 2 00 | 2 14 | 48 0 | 1 20 | 1 29 | 48 0 | 0 40 | 0 45 | 48 0 | 222 318 |
| 43 137 | 4 05 | 4 24 | 47 2 | 3 24 | 3 40 | 47 1 | 2 44 | 2 56 | 47 1 | 2 03 | 2 12 | 47 0 | 1 22 | 1 28 | 47 0 | 0 41 | 0 44 | 47 0 | 223 317 |
| 44 136 | 4 10 | 4 19 | 46 2 | 3 28 | 3 36 | 46 1 | 2 47 | 2 53 | 46 1 | 2 05 | 2 10 | 46 0 | 1 23 | 1 26 | 46 0 | 0 42 | 0 43 | 46 0 | 224 316 |
| 45 135 | 4 14 | 4 15 | 45 2 | 3 32 | 3 32 | 45 1 | 2 50 | 2 50 | 45 1 | 2 07 | 2 07 | 45 0 | 1 25 | 1 25 | 45 0 | 0 42 | 0 42 | 45 0 | 225 315 |

| Lat. / A | 84° | | | 85° | | | 86° | | | 87° | | | 88° | | | 89° | | | Lat. / A |
|----------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|------|------|--------------------------------|----------|
| AHL/F | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | A/H | B/P | Z ₁ /Z ₂ | AHL |
| 45 135 | 4 14 | 4 15 | 45.2 | 3 32 | 3 32 | 45.1 | 2 50 | 2 50 | 45.1 | 2 07 | 2 07 | 45.0 | 1 25 | 1 25 | 45.0 | 0 42 | 0 42 | 45.0 | 225 315 |
| 46 134 | 4 19 | 4 11 | 44.2 | 3 36 | 3 29 | 44.1 | 2 53 | 2 47 | 44.1 | 2 09 | 2 05 | 44.0 | 1 26 | 1 23 | 44.0 | 0 43 | 0 42 | 44.0 | 226 314 |
| 47 133 | 4 23 | 4 06 | 43.2 | 3 39 | 3 25 | 43.1 | 2 55 | 2 44 | 43.1 | 2 12 | 2 03 | 43.0 | 1 28 | 1 22 | 43.0 | 0 44 | 0 41 | 43.0 | 227 313 |
| 48 132 | 4 27 | 4 01 | 42.2 | 3 43 | 3 21 | 42.1 | 2 58 | 2 41 | 42.1 | 2 14 | 2 01 | 42.0 | 1 29 | 1 20 | 42.0 | 0 45 | 0 40 | 42.0 | 228 312 |
| 49 131 | 4 31 | 3 57 | 41.2 | 3 46 | 3 17 | 41.1 | 3 01 | 2 38 | 41.1 | 2 16 | 1 58 | 41.0 | 1 31 | 1 19 | 41.0 | 0 45 | 0 39 | 41.0 | 229 311 |
| 50 130 | 4 36 | 3 52 | 40.2 | 3 50 | 3 13 | 40.1 | 3 04 | 2 34 | 40.1 | 2 18 | 1 56 | 40.0 | 1 32 | 1 17 | 40.0 | 0 46 | 0 39 | 40.0 | 230 310 |
| 51 129 | 4 40 | 3 47 | 39.2 | 3 53 | 3 09 | 39.1 | 3 06 | 2 31 | 39.1 | 2 20 | 1 53 | 39.0 | 1 33 | 1 16 | 39.0 | 0 47 | 0 38 | 39.0 | 231 309 |
| 52 128 | 4 43 | 3 42 | 38.2 | 3 56 | 3 05 | 38.1 | 3 09 | 2 28 | 38.1 | 2 22 | 1 51 | 38.0 | 1 35 | 1 14 | 38.0 | 0 47 | 0 37 | 38.0 | 232 308 |
| 53 127 | 4 47 | 3 37 | 37.2 | 3 59 | 3 01 | 37.1 | 3 12 | 2 25 | 37.1 | 2 24 | 1 48 | 37.0 | 1 36 | 1 12 | 37.0 | 0 48 | 0 36 | 37.0 | 233 307 |
| 54 126 | 4 51 | 3 32 | 36.1 | 4 03 | 2 57 | 36.1 | 3 14 | 2 21 | 36.1 | 2 26 | 1 46 | 36.0 | 1 37 | 1 11 | 36.0 | 0 49 | 0 35 | 36.0 | 234 306 |
| 55 125 | 4 55 | 3 27 | 35.1 | 4 06 | 2 52 | 35.1 | 3 17 | 2 18 | 35.1 | 2 27 | 1 43 | 35.0 | 1 38 | 1 09 | 35.0 | 0 49 | 0 34 | 35.0 | 235 305 |
| 56 124 | 4 58 | 3 22 | 34.1 | 4 09 | 2 48 | 34.1 | 3 19 | 2 14 | 34.1 | 2 29 | 1 41 | 34.0 | 1 39 | 1 07 | 34.0 | 0 50 | 0 34 | 34.0 | 236 304 |
| 57 123 | 5 02 | 3 17 | 33.1 | 4 12 | 2 44 | 33.1 | 3 21 | 2 11 | 33.1 | 2 31 | 1 38 | 33.0 | 1 41 | 1 05 | 33.0 | 0 50 | 0 33 | 33.0 | 237 303 |
| 58 122 | 5 05 | 3 11 | 32.1 | 4 14 | 2 39 | 32.1 | 3 23 | 2 07 | 32.1 | 2 33 | 1 35 | 32.0 | 1 42 | 1 04 | 32.0 | 0 51 | 0 32 | 32.0 | 238 302 |
| 59 121 | 5 08 | 3 06 | 31.1 | 4 17 | 2 35 | 31.1 | 3 26 | 2 04 | 31.1 | 2 34 | 1 33 | 31.0 | 1 43 | 1 02 | 31.0 | 0 51 | 0 31 | 31.0 | 239 301 |
| 60 120 | 5 12 | 3 00 | 30.1 | 4 20 | 2 30 | 30.1 | 3 28 | 2 00 | 30.1 | 2 36 | 1 30 | 30.0 | 1 44 | 1 00 | 30.0 | 0 52 | 0 30 | 30.0 | 240 300 |
| 61 119 | 5 15 | 2 55 | 29.1 | 4 22 | 2 26 | 29.1 | 3 30 | 1 56 | 29.1 | 2 37 | 1 27 | 29.0 | 1 45 | 0 58 | 29.0 | 0 52 | 0 29 | 29.0 | 241 299 |
| 62 118 | 5 18 | 2 49 | 28.1 | 4 25 | 2 21 | 28.1 | 3 32 | 1 53 | 28.1 | 2 39 | 1 25 | 28.0 | 1 46 | 0 56 | 28.0 | 0 53 | 0 28 | 28.0 | 242 298 |
| 63 117 | 5 21 | 2 44 | 27.1 | 4 27 | 2 16 | 27.1 | 3 34 | 1 49 | 27.1 | 2 40 | 1 22 | 27.0 | 1 47 | 0 54 | 27.0 | 0 53 | 0 27 | 27.0 | 243 297 |
| 64 116 | 5 23 | 2 38 | 26.1 | 4 30 | 2 12 | 26.1 | 3 36 | 1 45 | 26.1 | 2 42 | 1 19 | 26.0 | 1 48 | 0 53 | 26.0 | 0 54 | 0 26 | 26.0 | 244 296 |
| 65 115 | 5 26 | 2 33 | 25.1 | 4 32 | 2 07 | 25.1 | 3 37 | 1 42 | 25.1 | 2 43 | 1 16 | 25.0 | 1 49 | 0 51 | 25.0 | 0 54 | 0 25 | 25.0 | 245 295 |
| 66 114 | 5 29 | 2 27 | 24.1 | 4 34 | 2 02 | 24.1 | 3 39 | 1 38 | 24.1 | 2 44 | 1 13 | 24.0 | 1 50 | 0 49 | 24.0 | 0 55 | 0 24 | 24.0 | 246 294 |
| 67 113 | 5 31 | 2 21 | 23.1 | 4 36 | 1 57 | 23.1 | 3 41 | 1 34 | 23.1 | 2 46 | 1 10 | 23.0 | 1 50 | 0 47 | 23.0 | 0 55 | 0 23 | 23.0 | 247 293 |
| 68 112 | 5 34 | 2 15 | 22.1 | 4 38 | 1 53 | 22.1 | 3 42 | 1 30 | 22.0 | 2 47 | 1 07 | 22.0 | 1 51 | 0 45 | 22.0 | 0 56 | 0 22 | 22.0 | 248 292 |
| 69 111 | 5 36 | 2 09 | 21.1 | 4 40 | 1 48 | 21.1 | 3 44 | 1 26 | 21.0 | 2 48 | 1 05 | 21.0 | 1 52 | 0 43 | 21.0 | 0 56 | 0 22 | 21.0 | 249 291 |
| 70 110 | 5 38 | 2 04 | 20.1 | 4 42 | 1 43 | 20.1 | 3 46 | 1 22 | 20.0 | 2 49 | 1 02 | 20.0 | 1 53 | 0 41 | 20.0 | 0 56 | 0 21 | 20.0 | 250 290 |
| 71 109 | 5 40 | 1 58 | 19.1 | 4 44 | 1 38 | 19.1 | 3 47 | 1 18 | 19.0 | 2 50 | 0 59 | 19.0 | 1 53 | 0 39 | 19.0 | 0 57 | 0 20 | 19.0 | 251 289 |
| 72 108 | 5 42 | 1 52 | 18.1 | 4 45 | 1 33 | 18.1 | 3 48 | 1 14 | 18.0 | 2 51 | 0 56 | 18.0 | 1 54 | 0 37 | 18.0 | 0 57 | 0 19 | 18.0 | 252 288 |
| 73 107 | 5 44 | 1 46 | 17.1 | 4 47 | 1 28 | 17.1 | 3 49 | 1 10 | 17.0 | 2 52 | 0 53 | 17.0 | 1 55 | 0 35 | 17.0 | 0 57 | 0 18 | 17.0 | 253 287 |
| 74 106 | 5 46 | 1 40 | 16.1 | 4 48 | 1 23 | 16.1 | 3 51 | 1 06 | 16.0 | 2 53 | 0 50 | 16.0 | 1 55 | 0 33 | 16.0 | 0 58 | 0 17 | 16.0 | 254 286 |
| 75 105 | 5 48 | 1 33 | 15.1 | 4 50 | 1 18 | 15.1 | 3 52 | 1 02 | 15.0 | 2 54 | 0 47 | 15.0 | 1 56 | 0 31 | 15.0 | 0 58 | 0 16 | 15.0 | 255 285 |
| 76 104 | 5 49 | 1 27 | 14.1 | 4 51 | 1 13 | 14.1 | 3 53 | 0 58 | 14.0 | 2 55 | 0 44 | 14.0 | 1 56 | 0 29 | 14.0 | 0 58 | 0 15 | 14.0 | 256 284 |
| 77 103 | 5 51 | 1 21 | 13.1 | 4 52 | 1 08 | 13.0 | 3 54 | 0 54 | 13.0 | 2 55 | 0 41 | 13.0 | 1 57 | 0 27 | 13.0 | 0 58 | 0 13 | 13.0 | 257 283 |
| 78 102 | 5 52 | 1 15 | 12.1 | 4 53 | 1 03 | 12.0 | 3 55 | 0 50 | 12.0 | 2 56 | 0 37 | 12.0 | 1 57 | 0 25 | 12.0 | 0 59 | 0 12 | 12.0 | 258 282 |
| 79 101 | 5 53 | 1 09 | 11.1 | 4 54 | 0 57 | 11.0 | 3 56 | 0 46 | 11.0 | 2 57 | 0 34 | 11.0 | 1 58 | 0 23 | 11.0 | 0 59 | 0 11 | 11.0 | 259 281 |
| 80 100 | 5 55 | 1 03 | 10.1 | 4 55 | 0 52 | 10.0 | 3 56 | 0 42 | 10.0 | 2 57 | 0 31 | 10.0 | 1 58 | 0 21 | 10.0 | 0 59 | 0 10 | 10.0 | 260 280 |
| 81 99 | 5 56 | 0 57 | 9.0 | 4 56 | 0 47 | 9.0 | 3 57 | 0 38 | 9.0 | 2 58 | 0 28 | 9.0 | 1 59 | 0 19 | 9.0 | 0 59 | 0 09 | 9.0 | 261 279 |
| 82 98 | 5 56 | 0 50 | 8.0 | 4 57 | 0 42 | 8.0 | 3 58 | 0 33 | 8.0 | 2 58 | 0 25 | 8.0 | 1 59 | 0 17 | 8.0 | 0 59 | 0 08 | 8.0 | 262 278 |
| 83 97 | 5 57 | 0 44 | 7.0 | 4 58 | 0 37 | 7.0 | 3 58 | 0 29 | 7.0 | 2 59 | 0 22 | 7.0 | 1 59 | 0 15 | 7.0 | 1 00 | 0 07 | 7.0 | 263 277 |
| 84 96 | 5 58 | 0 38 | 6.0 | 4 58 | 0 31 | 6.0 | 3 59 | 0 25 | 6.0 | 2 59 | 0 19 | 6.0 | 1 59 | 0 13 | 6.0 | 1 00 | 0 06 | 6.0 | 264 276 |
| 85 95 | 5 59 | 0 31 | 5.0 | 4 59 | 0 26 | 5.0 | 3 59 | 0 21 | 5.0 | 2 59 | 0 16 | 5.0 | 2 00 | 0 10 | 5.0 | 1 00 | 0 05 | 5.0 | 265 275 |
| 86 94 | 5 59 | 0 25 | 4.0 | 4 59 | 0 21 | 4.0 | 3 59 | 0 17 | 4.0 | 3 00 | 0 13 | 4.0 | 2 00 | 0 08 | 4.0 | 1 00 | 0 04 | 4.0 | 266 274 |
| 87 93 | 6 00 | 0 19 | 3.0 | 5 00 | 0 16 | 3.0 | 4 00 | 0 13 | 3.0 | 3 00 | 0 09 | 3.0 | 2 00 | 0 06 | 3.0 | 1 00 | 0 03 | 3.0 | 267 273 |
| 88 92 | 6 00 | 0 13 | 2.0 | 5 00 | 0 10 | 2.0 | 4 00 | 0 08 | 2.0 | 3 00 | 0 06 | 2.0 | 2 00 | 0 04 | 2.0 | 1 00 | 0 02 | 2.0 | 268 272 |
| 89 91 | 6 00 | 0 06 | 1.0 | 5 00 | 0 05 | 1.0 | 4 00 | 0 04 | 1.0 | 3 00 | 0 03 | 1.0 | 2 00 | 0 02 | 1.0 | 1 00 | 0 01 | 1.0 | 269 271 |
| 90 90 | 6 00 | 0 00 | 0.0 | 5 00 | 0 00 | 0.0 | 4 00 | 0 00 | 0.0 | 3 00 | 0 00 | 0.0 | 2 00 | 0 00 | 0.0 | 1 00 | 0 00 | 0.0 | 270 270 |

Lat. N.: para AHL > 180°... Z_n = Z
 para AHL < 180°... Z_n = 360° - Z

Lat. S.: para AHL > 180°... Z_n = 180° - Z
 para AHL < 180°... Z_n = 180° + Z

F < 90° y F' > 29': (-) corr.
 F > 90° y F' < 30': (-) corr.

TABLA AUXILIAR

A' < 30': (-) corr.

| F' / A' | 1' 59 | 2' 58 | 3' 57 | 4' 56 | 5' 55 | 6' 54 | 7' 53 | 8' 52 | 9' 51 | 10' 50 | 11' 49 | 12' 48 | 13' 47 | 14' 46 | 15' 45 | 16' 44 | 17' 43 | 18' 42 | 19' 41 | 20' 40 | 21' 39 | 22' 38 | 23' 37 | 24' 36 | 25' 35 | 26' 34 | 27' 33 | 28' 32 | 29' 31 | 30' 30 | F' / A' | |
|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------------|----|
| P | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | Z ₂ | |
| 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 89 |
| 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 88 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 87 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 86 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 85 |
| 6 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 84 |
| 7 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 83 |
| 8 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 82 |
| 9 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 81 |
| 10 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 80 |
| 11 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 79 |
| 12 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 78 |
| 13 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 77 |
| 14 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 76 |
| 15 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 75 |
| 16 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 74 |
| 17 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 73 |
| 18 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 72 |
| 19 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 71 |
| 20 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 70 |
| 21 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 69 |
| 22 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 68 |
| 23 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 67 |
| 24 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 66 |
| 25 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 65 |
| 26 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 64 |
| 27 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 63 |
| 28 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 62 |
| 29 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 61 |
| 30 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 60 |
| 31 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 59 |
| 32 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 58 |
| 33 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 57 |
| 34 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 56 |
| 35 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 55 |
| 36 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 54 |
| 37 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 53 |
| 38 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 52 |
| 39 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 51 |
| 40 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 50 |

| F' / A' | 1' | 2' | 3' | 4' | 5' | 6' | 7' | 8' | 9' | 10' | 11' | 12' | 13' | 14' | 15' | 16' | 17' | 18' | 19' | 20' | 21' | 22' | 23' | 24' | 25' | 26' | 27' | 28' | 29' | 30' | F' / A' |
|----------------|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----------------|
| P ₅ | 59 | 58 | 57 | 56 | 55 | 54 | 53 | 52 | 51 | 50 | 49 | 48 | 47 | 46 | 45 | 44 | 43 | 42 | 41 | 40 | 39 | 38 | 37 | 36 | 35 | 34 | 33 | 32 | 31 | 30 | Z ₂ |
| 41 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 10 | 11 | 12 | 12 | 13 | 14 | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 19 | 20 | 49 |
| 42 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 9 | 9 | 10 | 11 | 11 | 12 | 13 | 13 | 14 | 15 | 15 | 16 | 17 | 17 | 18 | 19 | 19 | 20 | 48 |
| 43 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 12 | 12 | 13 | 14 | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 19 | 20 | 20 | 47 |
| 44 | 1 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 46 | |
| 45 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 18 | 19 | 20 | 21 | 45 | |
| 46 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 19 | 20 | 21 | 44 | |
| 47 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 | 22 | 43 | |
| 48 | 1 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 | 21 | 22 | 42 | |
| 49 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 41 | |
| 50 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 | 21 | 22 | 40 | |
| 51 | 1 | 2 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 19 | 20 | 21 | 22 | 23 | 39 | |
| 52 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 | 38 | |
| 53 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 37 | |
| 54 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 19 | 20 | 21 | 22 | 23 | 24 | 36 | |
| 55 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 | 24 | 35 | |
| 56 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 23 | 24 | 34 | |
| 57 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 33 | |
| 58 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 | 24 | 25 | 32 | |
| 59 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 | 23 | 24 | 25 | 31 | |
| 60 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 23 | 24 | 25 | 30 | |
| 61 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 29 | |
| 62 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 28 | |
| 63 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 27 | |
| 64 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 22 | 23 | 24 | 25 | 26 | 26 | |
| 65 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 24 | 25 | 26 | 25 | |
| 66 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 26 | 24 | |
| 67 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 23 | |
| 68 | 1 | 2 | 3 | 4 | 5 | 6 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 22 | |
| 69 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 21 | |
| 70 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 23 | 24 | 25 | 26 | 27 | 20 | |
| 71 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 26 | 27 | 19 | |
| 72 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 18 | |
| 73 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 17 | |
| 74 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 16 | |
| 75 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 15 | |
| 76 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 14 | |
| 77 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 13 | |
| 78 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 12 | |
| 79 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 11 | |
| 80 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 10 | |

Para P > 80°, utilice 80°

Para Z₂ < 10°, utilice 10°

PROCEDIMIENTOS DE REDUCCION DE LAS VISUALES
USO DE LAS TABLAS ABREVIADAS DE REDUCCION DE VISUALES
 (continuación)

4. Ejemplo. (b) Obtener la altura y el azimut de Vega para el 29 de julio de 1993, a las 4^h 50^m de T.U., de la posición estimada de 152° oeste y 15° sur.

| | | |
|---|--|--|
| 1. Latitud supuesta | $Lat = 15^{\circ} S$ | |
| Conforme al almanaque | $AHG = 100^{\circ} 10'$ | |
| Longitud supuesta | $Long = \underline{152^{\circ} 10'} W.G$ | |
| Angulo horario local | $AHL = 308$ | |
| 2. Primera entrada, a la tabla de reducción | | |
| $(Lat, AHL) = (15, 308)$ | $A = 49 \quad 34$ | $A^{\circ} = 50, A' = 34$ |
| | $B = +66 \quad 29$ | $Z_1 = +71.7, \quad AHL > 270^{\circ}$ |
| 3. Conforme al almanaque | $Dec = \underline{-38 \quad 47}$ | $Lat \text{ y } Dec \text{ opuestas}$ |
| Suma = $B + Dec$ | $F = +27 \quad 42$ | $F^{\circ} = 28, F' = 42$ |
| 4. Segunda entrada a la tabla de reducción | | |
| $(A^{\circ}, F^{\circ}) = (50, 28)$ | $H = 17 \quad 34$ | $P^{\circ} = 37$ |
| | | $Z_2 = 67.8$ |
| 5. Primera entrada a la tabla auxiliar | | |
| $(F', P^{\circ}) = (42, 37)$ | $corr_1 = \frac{-11}{17 \quad 23}$ | $F < 90^{\circ}, F' > 29'$ |
| Suma | | |
| 6. Segunda entrada a la tabla auxiliar | | |
| $(A', Z_2^{\circ}) = (34, 68)$ | $corr_2 = \frac{+10}{17 \quad 23}$ | $A' > 30'$ |
| 7. Suma = altura calculada | $H_c = +17^{\circ} 33'$ | $F > 0^{\circ}$ |
| 8. Azimut: primer componente | $Z_1 = +71.7$ | mismo signo al igual que B . |
| Segundo componente | $Z_2 = \underline{+67.8}$ | $F < 90^{\circ}, F > 0^{\circ}$ |
| Suma = ángulo azimutal | $Z = 139.5$ | |
| Azimut verdadero | $Z_n = 40^{\circ}$ | $Lat, S. AHL > 180^{\circ}$ |

CONVERSION DE ARCO A TIEMPO

| 0°-59° | | | 60°-119° | | | 120°-179° | | | 180°-239° | | | 240°-299° | | | 300°-359° | | | 0' 00 | 0' 25 | 0' 50 | 0' 75 | | |
|--------|---|----|----------|---|----|-----------|----|----|-----------|----|----|-----------|----|----|-----------|----|----|-------|-------|-------|-------|----|---|
| a | h | m | ° | h | m | ° | h | m | ° | h | m | ° | h | m | ° | h | m | m | s | m | s | m | s |
| 0 | 0 | 00 | 60 | 4 | 00 | 120 | 8 | 00 | 180 | 12 | 00 | 240 | 16 | 00 | 300 | 20 | 00 | 0 | 0 | 00 | 0 | 03 | |
| 1 | 0 | 04 | 61 | 4 | 04 | 121 | 8 | 04 | 181 | 12 | 04 | 241 | 16 | 04 | 301 | 20 | 04 | 1 | 0 | 04 | 0 | 07 | |
| 2 | 0 | 08 | 62 | 4 | 08 | 122 | 8 | 08 | 182 | 12 | 08 | 242 | 16 | 08 | 302 | 20 | 08 | 2 | 0 | 08 | 0 | 11 | |
| 3 | 0 | 12 | 63 | 4 | 12 | 123 | 8 | 12 | 183 | 12 | 12 | 243 | 16 | 12 | 303 | 20 | 12 | 3 | 0 | 12 | 0 | 15 | |
| 4 | 0 | 16 | 64 | 4 | 16 | 124 | 8 | 16 | 184 | 12 | 16 | 244 | 16 | 16 | 304 | 20 | 16 | 4 | 0 | 16 | 0 | 19 | |
| 5 | 0 | 20 | 65 | 4 | 20 | 125 | 8 | 20 | 185 | 12 | 20 | 245 | 16 | 20 | 305 | 20 | 20 | 5 | 0 | 20 | 0 | 23 | |
| 6 | 0 | 24 | 66 | 4 | 24 | 126 | 8 | 24 | 186 | 12 | 24 | 246 | 16 | 24 | 306 | 20 | 24 | 6 | 0 | 24 | 0 | 27 | |
| 7 | 0 | 28 | 67 | 4 | 28 | 127 | 8 | 28 | 187 | 12 | 28 | 247 | 16 | 28 | 307 | 20 | 28 | 7 | 0 | 28 | 0 | 31 | |
| 8 | 0 | 32 | 68 | 4 | 32 | 128 | 8 | 32 | 188 | 12 | 32 | 248 | 16 | 32 | 308 | 20 | 32 | 8 | 0 | 32 | 0 | 35 | |
| 9 | 0 | 36 | 69 | 4 | 36 | 129 | 8 | 36 | 189 | 12 | 36 | 249 | 16 | 36 | 309 | 20 | 36 | 9 | 0 | 36 | 0 | 39 | |
| 10 | 0 | 40 | 70 | 4 | 40 | 130 | 8 | 40 | 190 | 12 | 40 | 250 | 16 | 40 | 310 | 20 | 40 | 10 | 0 | 40 | 0 | 43 | |
| 11 | 0 | 44 | 71 | 4 | 44 | 131 | 8 | 44 | 191 | 12 | 44 | 251 | 16 | 44 | 311 | 20 | 44 | 11 | 0 | 44 | 0 | 47 | |
| 12 | 0 | 48 | 72 | 4 | 48 | 132 | 8 | 48 | 192 | 12 | 48 | 252 | 16 | 48 | 312 | 20 | 48 | 12 | 0 | 48 | 0 | 51 | |
| 13 | 0 | 52 | 73 | 4 | 52 | 133 | 8 | 52 | 193 | 12 | 52 | 253 | 16 | 52 | 313 | 20 | 52 | 13 | 0 | 52 | 0 | 55 | |
| 14 | 0 | 56 | 74 | 4 | 56 | 134 | 8 | 56 | 194 | 12 | 56 | 254 | 16 | 56 | 314 | 20 | 56 | 14 | 0 | 56 | 0 | 59 | |
| 15 | 1 | 00 | 75 | 5 | 00 | 135 | 9 | 00 | 195 | 13 | 00 | 255 | 17 | 00 | 315 | 21 | 00 | 15 | 1 | 00 | 1 | 03 | |
| 16 | 1 | 04 | 76 | 5 | 04 | 136 | 9 | 04 | 196 | 13 | 04 | 256 | 17 | 04 | 316 | 21 | 04 | 16 | 1 | 04 | 1 | 07 | |
| 17 | 1 | 08 | 77 | 5 | 08 | 137 | 9 | 08 | 197 | 13 | 08 | 257 | 17 | 08 | 317 | 21 | 08 | 17 | 1 | 08 | 1 | 11 | |
| 18 | 1 | 12 | 78 | 5 | 12 | 138 | 9 | 12 | 198 | 13 | 12 | 258 | 17 | 12 | 318 | 21 | 12 | 18 | 1 | 12 | 1 | 15 | |
| 19 | 1 | 16 | 79 | 5 | 16 | 139 | 9 | 16 | 199 | 13 | 16 | 259 | 17 | 16 | 319 | 21 | 16 | 19 | 1 | 16 | 1 | 19 | |
| 20 | 1 | 20 | 80 | 5 | 20 | 140 | 9 | 20 | 200 | 13 | 20 | 260 | 17 | 20 | 320 | 21 | 20 | 20 | 1 | 20 | 1 | 23 | |
| 21 | 1 | 24 | 81 | 5 | 24 | 141 | 9 | 24 | 201 | 13 | 24 | 261 | 17 | 24 | 321 | 21 | 24 | 21 | 1 | 24 | 1 | 27 | |
| 22 | 1 | 28 | 82 | 5 | 28 | 142 | 9 | 28 | 202 | 13 | 28 | 262 | 17 | 28 | 322 | 21 | 28 | 22 | 1 | 28 | 1 | 31 | |
| 23 | 1 | 32 | 83 | 5 | 32 | 143 | 9 | 32 | 203 | 13 | 32 | 263 | 17 | 32 | 323 | 21 | 32 | 23 | 1 | 32 | 1 | 35 | |
| 24 | 1 | 36 | 84 | 5 | 36 | 144 | 9 | 36 | 204 | 13 | 36 | 264 | 17 | 36 | 324 | 21 | 36 | 24 | 1 | 36 | 1 | 39 | |
| 25 | 1 | 40 | 85 | 5 | 40 | 145 | 9 | 40 | 205 | 13 | 40 | 265 | 17 | 40 | 325 | 21 | 40 | 25 | 1 | 40 | 1 | 43 | |
| 26 | 1 | 44 | 86 | 5 | 44 | 146 | 9 | 44 | 206 | 13 | 44 | 266 | 17 | 44 | 326 | 21 | 44 | 26 | 1 | 44 | 1 | 47 | |
| 27 | 1 | 48 | 87 | 5 | 48 | 147 | 9 | 48 | 207 | 13 | 48 | 267 | 17 | 48 | 327 | 21 | 48 | 27 | 1 | 48 | 1 | 51 | |
| 28 | 1 | 52 | 88 | 5 | 52 | 148 | 9 | 52 | 208 | 13 | 52 | 268 | 17 | 52 | 328 | 21 | 52 | 28 | 1 | 52 | 1 | 55 | |
| 29 | 1 | 56 | 89 | 5 | 56 | 149 | 9 | 56 | 209 | 13 | 56 | 269 | 17 | 56 | 329 | 21 | 56 | 29 | 1 | 56 | 1 | 59 | |
| 30 | 2 | 00 | 90 | 6 | 00 | 150 | 10 | 00 | 210 | 14 | 00 | 270 | 18 | 00 | 330 | 22 | 00 | 30 | 2 | 00 | 2 | 03 | |
| 31 | 2 | 04 | 91 | 6 | 04 | 151 | 10 | 04 | 211 | 14 | 04 | 271 | 18 | 04 | 331 | 22 | 04 | 31 | 2 | 04 | 2 | 07 | |
| 32 | 2 | 08 | 92 | 6 | 08 | 152 | 10 | 08 | 212 | 14 | 08 | 272 | 18 | 08 | 332 | 22 | 08 | 32 | 2 | 08 | 2 | 11 | |
| 33 | 2 | 12 | 93 | 6 | 12 | 153 | 10 | 12 | 213 | 14 | 12 | 273 | 18 | 12 | 333 | 22 | 12 | 33 | 2 | 12 | 2 | 15 | |
| 34 | 2 | 16 | 94 | 6 | 16 | 154 | 10 | 16 | 214 | 14 | 16 | 274 | 18 | 16 | 334 | 22 | 16 | 34 | 2 | 16 | 2 | 19 | |
| 35 | 2 | 20 | 95 | 6 | 20 | 155 | 10 | 20 | 215 | 14 | 20 | 275 | 18 | 20 | 335 | 22 | 20 | 35 | 2 | 20 | 2 | 23 | |
| 36 | 2 | 24 | 96 | 6 | 24 | 156 | 10 | 24 | 216 | 14 | 24 | 276 | 18 | 24 | 336 | 22 | 24 | 36 | 2 | 24 | 2 | 27 | |
| 37 | 2 | 28 | 97 | 6 | 28 | 157 | 10 | 28 | 217 | 14 | 28 | 277 | 18 | 28 | 337 | 22 | 28 | 37 | 2 | 28 | 2 | 31 | |
| 38 | 2 | 32 | 98 | 6 | 32 | 158 | 10 | 32 | 218 | 14 | 32 | 278 | 18 | 32 | 338 | 22 | 32 | 38 | 2 | 32 | 2 | 35 | |
| 39 | 2 | 36 | 99 | 6 | 36 | 159 | 10 | 36 | 219 | 14 | 36 | 279 | 18 | 36 | 339 | 22 | 36 | 39 | 2 | 36 | 2 | 39 | |
| 40 | 2 | 40 | 100 | 6 | 40 | 160 | 10 | 40 | 220 | 14 | 40 | 280 | 18 | 40 | 340 | 22 | 40 | 40 | 2 | 40 | 2 | 43 | |
| 41 | 2 | 44 | 101 | 6 | 44 | 161 | 10 | 44 | 221 | 14 | 44 | 281 | 18 | 44 | 341 | 22 | 44 | 41 | 2 | 44 | 2 | 47 | |
| 42 | 2 | 48 | 102 | 6 | 48 | 162 | 10 | 48 | 222 | 14 | 48 | 282 | 18 | 48 | 342 | 22 | 48 | 42 | 2 | 48 | 2 | 51 | |
| 43 | 2 | 52 | 103 | 6 | 52 | 163 | 10 | 52 | 223 | 14 | 52 | 283 | 18 | 52 | 343 | 22 | 52 | 43 | 2 | 52 | 2 | 55 | |
| 44 | 2 | 56 | 104 | 6 | 56 | 164 | 10 | 56 | 224 | 14 | 56 | 284 | 18 | 56 | 344 | 22 | 56 | 44 | 2 | 56 | 2 | 59 | |
| 45 | 3 | 00 | 105 | 7 | 00 | 165 | 11 | 00 | 225 | 15 | 00 | 285 | 19 | 00 | 345 | 23 | 00 | 45 | 3 | 00 | 3 | 03 | |
| 46 | 3 | 04 | 106 | 7 | 04 | 166 | 11 | 04 | 226 | 15 | 04 | 286 | 19 | 04 | 346 | 23 | 04 | 46 | 3 | 04 | 3 | 07 | |
| 47 | 3 | 08 | 107 | 7 | 08 | 167 | 11 | 08 | 227 | 15 | 08 | 287 | 19 | 08 | 347 | 23 | 08 | 47 | 3 | 08 | 3 | 11 | |
| 48 | 3 | 12 | 108 | 7 | 12 | 168 | 11 | 12 | 228 | 15 | 12 | 288 | 19 | 12 | 348 | 23 | 12 | 48 | 3 | 12 | 3 | 15 | |
| 49 | 3 | 16 | 109 | 7 | 16 | 169 | 11 | 16 | 229 | 15 | 16 | 289 | 19 | 16 | 349 | 23 | 16 | 49 | 3 | 16 | 3 | 19 | |
| 50 | 3 | 20 | 110 | 7 | 20 | 170 | 11 | 20 | 230 | 15 | 20 | 290 | 19 | 20 | 350 | 23 | 20 | 50 | 3 | 20 | 3 | 23 | |
| 51 | 3 | 24 | 111 | 7 | 24 | 171 | 11 | 24 | 231 | 15 | 24 | 291 | 19 | 24 | 351 | 23 | 24 | 51 | 3 | 24 | 3 | 27 | |
| 52 | 3 | 28 | 112 | 7 | 28 | 172 | 11 | 28 | 232 | 15 | 28 | 292 | 19 | 28 | 352 | 23 | 28 | 52 | 3 | 28 | 3 | 31 | |
| 53 | 3 | 32 | 113 | 7 | 32 | 173 | 11 | 32 | 233 | 15 | 32 | 293 | 19 | 32 | 353 | 23 | 32 | 53 | 3 | 32 | 3 | 35 | |
| 54 | 3 | 36 | 114 | 7 | 36 | 174 | 11 | 36 | 234 | 15 | 36 | 294 | 19 | 36 | 354 | 23 | 36 | 54 | 3 | 36 | 3 | 39 | |
| 55 | 3 | 40 | 115 | 7 | 40 | 175 | 11 | 40 | 235 | 15 | 40 | 295 | 19 | 40 | 355 | 23 | 40 | 55 | 3 | 40 | 3 | 43 | |
| 56 | 3 | 44 | 116 | 7 | 44 | 176 | 11 | 44 | 236 | 15 | 44 | 296 | 19 | 44 | 356 | 23 | 44 | 56 | 3 | 44 | 3 | 47 | |
| 57 | 3 | 48 | 117 | 7 | 48 | 177 | 11 | 48 | 237 | 15 | 48 | 297 | 19 | 48 | 357 | 23 | 48 | 57 | 3 | 48 | 3 | 51 | |
| 58 | 3 | 52 | 118 | 7 | 52 | 178 | 11 | 52 | 238 | 15 | 52 | 298 | 19 | 52 | 358 | 23 | 52 | 58 | 3 | 52 | 3 | 55 | |
| 59 | 3 | 56 | 119 | 7 | 56 | 179 | 11 | 56 | 239 | 15 | 56 | 299 | 19 | 56 | 359 | 23 | 56 | 59 | 3 | 56 | 3 | 59 | |

La tabla anterior se usa para convertir expresiones en arco a sus equivalentes en tiempo; su uso principal en este Almanaque es para la conversión de valores de la longitud para aplicarse a T. M. L. (Sumadas al oeste, restadas al este) para obtener T. M. G. o viceversa, particularmente en el caso de orto y ocaso del Sol, etc.

| m 0 | SOL PLANETAS | | | v o d | Corr ⁿ | | v o d | Corr ⁿ | | v o d | Corr ⁿ | |
|--------|--------------|--------|--------|-------------|-------------------|------|-------------|-------------------|-----|-------------|-------------------|--|
| | ARIES | LUNA | | | | | | | | | | |
| 00 | 0 00-0 | 0 00-0 | 0 00-0 | 0-0 | 0-0 | 6-0 | 0-1 | 12-0 | 0-1 | | | |
| 01 | 0 00-3 | 0 00-3 | 0 00-2 | 0-1 | 0-0 | 6-1 | 0-1 | 12-1 | 0-1 | | | |
| 02 | 0 00-5 | 0 00-5 | 0 00-5 | 0-2 | 0-0 | 6-2 | 0-1 | 12-2 | 0-1 | | | |
| 03 | 0 00-8 | 0 00-8 | 0 00-7 | 0-3 | 0-0 | 6-3 | 0-1 | 12-3 | 0-1 | | | |
| 04 | 0 01-0 | 0 01-0 | 0 01-0 | 0-4 | 0-0 | 6-4 | 0-1 | 12-4 | 0-1 | | | |
| 05 | 0 01-3 | 0 01-3 | 0 01-2 | 0-5 | 0-0 | 6-5 | 0-1 | 12-5 | 0-1 | | | |
| 06 | 0 01-5 | 0 01-5 | 0 01-4 | 0-6 | 0-0 | 6-6 | 0-1 | 12-6 | 0-1 | | | |
| 07 | 0 01-8 | 0 01-8 | 0 01-7 | 0-7 | 0-0 | 6-7 | 0-1 | 12-7 | 0-1 | | | |
| 08 | 0 02-0 | 0 02-0 | 0 01-9 | 0-8 | 0-0 | 6-8 | 0-1 | 12-8 | 0-1 | | | |
| 09 | 0 02-3 | 0 02-3 | 0 02-1 | 0-9 | 0-0 | 6-9 | 0-1 | 12-9 | 0-1 | | | |
| 10 | 0 02-5 | 0 02-5 | 0 02-4 | 1-0 | 0-0 | 7-0 | 0-1 | 13-0 | 0-1 | | | |
| 11 | 0 02-8 | 0 02-8 | 0 02-6 | 1-1 | 0-0 | 7-1 | 0-1 | 13-1 | 0-1 | | | |
| 12 | 0 03-0 | 0 03-0 | 0 02-9 | 1-2 | 0-0 | 7-2 | 0-1 | 13-2 | 0-1 | | | |
| 13 | 0 03-3 | 0 03-3 | 0 03-1 | 1-3 | 0-0 | 7-3 | 0-1 | 13-3 | 0-1 | | | |
| 14 | 0 03-5 | 0 03-5 | 0 03-3 | 1-4 | 0-0 | 7-4 | 0-1 | 13-4 | 0-1 | | | |
| 15 | 0 03-8 | 0 03-8 | 0 03-6 | 1-5 | 0-0 | 7-5 | 0-1 | 13-5 | 0-1 | | | |
| 16 | 0 04-0 | 0 04-0 | 0 03-8 | 1-6 | 0-0 | 7-6 | 0-1 | 13-6 | 0-1 | | | |
| 17 | 0 04-3 | 0 04-3 | 0 04-1 | 1-7 | 0-0 | 7-7 | 0-1 | 13-7 | 0-1 | | | |
| 18 | 0 04-5 | 0 04-5 | 0 04-3 | 1-8 | 0-0 | 7-8 | 0-1 | 13-8 | 0-1 | | | |
| 19 | 0 04-8 | 0 04-8 | 0 04-5 | 1-9 | 0-0 | 7-9 | 0-1 | 13-9 | 0-1 | | | |
| 20 | 0 05-0 | 0 05-0 | 0 04-8 | 2-0 | 0-0 | 8-0 | 0-1 | 14-0 | 0-1 | | | |
| 21 | 0 05-3 | 0 05-3 | 0 05-0 | 2-1 | 0-0 | 8-1 | 0-1 | 14-1 | 0-1 | | | |
| 22 | 0 05-5 | 0 05-5 | 0 05-2 | 2-2 | 0-0 | 8-2 | 0-1 | 14-2 | 0-1 | | | |
| 23 | 0 05-8 | 0 05-8 | 0 05-5 | 2-3 | 0-0 | 8-3 | 0-1 | 14-3 | 0-1 | | | |
| 24 | 0 06-0 | 0 06-0 | 0 05-7 | 2-4 | 0-0 | 8-4 | 0-1 | 14-4 | 0-1 | | | |
| 25 | 0 06-3 | 0 06-3 | 0 06-0 | 2-5 | 0-0 | 8-5 | 0-1 | 14-5 | 0-1 | | | |
| 26 | 0 06-5 | 0 06-5 | 0 06-2 | 2-6 | 0-0 | 8-6 | 0-1 | 14-6 | 0-1 | | | |
| 27 | 0 06-8 | 0 06-8 | 0 06-4 | 2-7 | 0-0 | 8-7 | 0-1 | 14-7 | 0-1 | | | |
| 28 | 0 07-0 | 0 07-0 | 0 06-7 | 2-8 | 0-0 | 8-8 | 0-1 | 14-8 | 0-1 | | | |
| 29 | 0 07-3 | 0 07-3 | 0 06-9 | 2-9 | 0-0 | 8-9 | 0-1 | 14-9 | 0-1 | | | |
| 30 | 0 07-5 | 0 07-5 | 0 07-2 | 3-0 | 0-0 | 9-0 | 0-1 | 15-0 | 0-1 | | | |
| 31 | 0 07-8 | 0 07-8 | 0 07-4 | 3-1 | 0-0 | 9-1 | 0-1 | 15-1 | 0-1 | | | |
| 32 | 0 08-0 | 0 08-0 | 0 07-6 | 3-2 | 0-0 | 9-2 | 0-1 | 15-2 | 0-1 | | | |
| 33 | 0 08-3 | 0 08-3 | 0 07-9 | 3-3 | 0-0 | 9-3 | 0-1 | 15-3 | 0-1 | | | |
| 34 | 0 08-5 | 0 08-5 | 0 08-1 | 3-4 | 0-0 | 9-4 | 0-1 | 15-4 | 0-1 | | | |
| 35 | 0 08-8 | 0 08-8 | 0 08-4 | 3-5 | 0-0 | 9-5 | 0-1 | 15-5 | 0-1 | | | |
| 36 | 0 09-0 | 0 09-0 | 0 08-6 | 3-6 | 0-0 | 9-6 | 0-1 | 15-6 | 0-1 | | | |
| 37 | 0 09-3 | 0 09-3 | 0 08-8 | 3-7 | 0-0 | 9-7 | 0-1 | 15-7 | 0-1 | | | |
| 38 | 0 09-5 | 0 09-5 | 0 09-1 | 3-8 | 0-0 | 9-8 | 0-1 | 15-8 | 0-1 | | | |
| 39 | 0 09-8 | 0 09-8 | 0 09-3 | 3-9 | 0-0 | 9-9 | 0-1 | 15-9 | 0-1 | | | |
| 40 | 0 10-0 | 0 10-0 | 0 09-5 | 4-0 | 0-0 | 10-0 | 0-1 | 16-0 | 0-1 | | | |
| 41 | 0 10-3 | 0 10-3 | 0 09-8 | 4-1 | 0-0 | 10-1 | 0-1 | 16-1 | 0-1 | | | |
| 42 | 0 10-5 | 0 10-5 | 0 10-0 | 4-2 | 0-0 | 10-2 | 0-1 | 16-2 | 0-1 | | | |
| 43 | 0 10-8 | 0 10-8 | 0 10-3 | 4-3 | 0-0 | 10-3 | 0-1 | 16-3 | 0-1 | | | |
| 44 | 0 11-0 | 0 11-0 | 0 10-5 | 4-4 | 0-0 | 10-4 | 0-1 | 16-4 | 0-1 | | | |
| 45 | 0 11-3 | 0 11-3 | 0 10-7 | 4-5 | 0-0 | 10-5 | 0-1 | 16-5 | 0-1 | | | |
| 46 | 0 11-5 | 0 11-5 | 0 11-0 | 4-6 | 0-0 | 10-6 | 0-1 | 16-6 | 0-1 | | | |
| 47 | 0 11-8 | 0 11-8 | 0 11-2 | 4-7 | 0-0 | 10-7 | 0-1 | 16-7 | 0-1 | | | |
| 48 | 0 12-0 | 0 12-0 | 0 11-5 | 4-8 | 0-0 | 10-8 | 0-1 | 16-8 | 0-1 | | | |
| 49 | 0 12-3 | 0 12-3 | 0 11-7 | 4-9 | 0-0 | 10-9 | 0-1 | 16-9 | 0-1 | | | |
| 50 | 0 12-5 | 0 12-5 | 0 11-9 | 5-0 | 0-0 | 11-0 | 0-1 | 17-0 | 0-1 | | | |
| 51 | 0 12-8 | 0 12-8 | 0 12-2 | 5-1 | 0-0 | 11-1 | 0-1 | 17-1 | 0-1 | | | |
| 52 | 0 13-0 | 0 13-0 | 0 12-4 | 5-2 | 0-0 | 11-2 | 0-1 | 17-2 | 0-1 | | | |
| 53 | 0 13-3 | 0 13-3 | 0 12-6 | 5-3 | 0-0 | 11-3 | 0-1 | 17-3 | 0-1 | | | |
| 54 | 0 13-5 | 0 13-5 | 0 12-9 | 5-4 | 0-0 | 11-4 | 0-1 | 17-4 | 0-1 | | | |
| 55 | 0 13-8 | 0 13-8 | 0 13-1 | 5-5 | 0-0 | 11-5 | 0-1 | 17-5 | 0-1 | | | |
| 56 | 0 14-0 | 0 14-0 | 0 13-4 | 5-6 | 0-0 | 11-6 | 0-1 | 17-6 | 0-1 | | | |
| 57 | 0 14-3 | 0 14-3 | 0 13-6 | 5-7 | 0-0 | 11-7 | 0-1 | 17-7 | 0-1 | | | |
| 58 | 0 14-5 | 0 14-5 | 0 13-8 | 5-8 | 0-0 | 11-8 | 0-1 | 17-8 | 0-1 | | | |
| 59 | 0 14-8 | 0 14-8 | 0 14-1 | 5-9 | 0-0 | 11-9 | 0-1 | 17-9 | 0-1 | | | |
| 60 | 0 15-0 | 0 15-0 | 0 14-3 | 6-0 | 0-1 | 12-0 | 0-1 | 18-0 | 0-2 | | | |
| 00 | 0 15-0 | 0 15-0 | 0 14-3 | 0-0 | 0-0 | 6-0 | 0-2 | 12-0 | 0-3 | | | |
| 01 | 0 15-3 | 0 15-3 | 0 14-6 | 0-1 | 0-0 | 6-1 | 0-2 | 12-1 | 0-3 | | | |
| 02 | 0 15-5 | 0 15-5 | 0 14-8 | 0-2 | 0-0 | 6-2 | 0-2 | 12-2 | 0-3 | | | |
| 03 | 0 15-8 | 0 15-8 | 0 15-0 | 0-3 | 0-0 | 6-3 | 0-2 | 12-3 | 0-3 | | | |
| 04 | 0 16-0 | 0 16-0 | 0 15-3 | 0-4 | 0-0 | 6-4 | 0-2 | 12-4 | 0-3 | | | |
| 05 | 0 16-3 | 0 16-3 | 0 15-5 | 0-5 | 0-0 | 6-5 | 0-2 | 12-5 | 0-3 | | | |
| 06 | 0 16-5 | 0 16-5 | 0 15-7 | 0-6 | 0-0 | 6-6 | 0-2 | 12-6 | 0-3 | | | |
| 07 | 0 16-8 | 0 16-8 | 0 16-0 | 0-7 | 0-0 | 6-7 | 0-2 | 12-7 | 0-3 | | | |
| 08 | 0 17-0 | 0 17-0 | 0 16-2 | 0-8 | 0-0 | 6-8 | 0-2 | 12-8 | 0-3 | | | |
| 09 | 0 17-3 | 0 17-3 | 0 16-5 | 0-9 | 0-0 | 6-9 | 0-2 | 12-9 | 0-3 | | | |
| 10 | 0 17-5 | 0 17-5 | 0 16-7 | 1-0 | 0-0 | 7-0 | 0-2 | 13-0 | 0-3 | | | |
| 11 | 0 17-8 | 0 17-8 | 0 16-9 | 1-1 | 0-0 | 7-1 | 0-2 | 13-1 | 0-3 | | | |
| 12 | 0 18-0 | 0 18-0 | 0 17-2 | 1-2 | 0-0 | 7-2 | 0-2 | 13-2 | 0-3 | | | |
| 13 | 0 18-3 | 0 18-3 | 0 17-4 | 1-3 | 0-0 | 7-3 | 0-2 | 13-3 | 0-3 | | | |
| 14 | 0 18-5 | 0 18-6 | 0 17-7 | 1-4 | 0-0 | 7-4 | 0-2 | 13-4 | 0-3 | | | |
| 15 | 0 18-8 | 0 18-8 | 0 17-9 | 1-5 | 0-0 | 7-5 | 0-2 | 13-5 | 0-3 | | | |
| 16 | 0 19-0 | 0 19-1 | 0 18-1 | 1-6 | 0-0 | 7-6 | 0-2 | 13-6 | 0-3 | | | |
| 17 | 0 19-3 | 0 19-3 | 0 18-4 | 1-7 | 0-0 | 7-7 | 0-2 | 13-7 | 0-3 | | | |
| 18 | 0 19-5 | 0 19-6 | 0 18-6 | 1-8 | 0-0 | 7-8 | 0-2 | 13-8 | 0-3 | | | |
| 19 | 0 19-8 | 0 19-8 | 0 18-9 | 1-9 | 0-0 | 7-9 | 0-2 | 13-9 | 0-3 | | | |
| 20 | 0 20-0 | 0 20-1 | 0 19-1 | 2-0 | 0-1 | 8-0 | 0-2 | 14-0 | 0-4 | | | |
| 21 | 0 20-3 | 0 20-3 | 0 19-3 | 2-1 | 0-1 | 8-1 | 0-2 | 14-1 | 0-4 | | | |
| 22 | 0 20-5 | 0 20-6 | 0 19-6 | 2-2 | 0-1 | 8-2 | 0-2 | 14-2 | 0-4 | | | |
| 23 | 0 20-8 | 0 20-8 | 0 19-8 | 2-3 | 0-1 | 8-3 | 0-2 | 14-3 | 0-4 | | | |
| 24 | 0 21-0 | 0 21-1 | 0 20-0 | 2-4 | 0-1 | 8-4 | 0-2 | 14-4 | 0-4 | | | |
| 25 | 0 21-3 | 0 21-3 | 0 20-3 | 2-5 | 0-1 | 8-5 | 0-2 | 14-5 | 0-4 | | | |
| 26 | 0 21-5 | 0 21-6 | 0 20-5 | 2-6 | 0-1 | 8-6 | 0-2 | 14-6 | 0-4 | | | |
| 27 | 0 21-8 | 0 21-8 | 0 20-8 | 2-7 | 0-1 | 8-7 | 0-2 | 14-7 | 0-4 | | | |
| 28 | 0 22-0 | 0 22-1 | 0 21-0 | 2-8 | 0-1 | 8-8 | 0-2 | 14-8 | 0-4 | | | |
| 29 | 0 22-3 | 0 22-3 | 0 21-2 | 2-9 | 0-1 | 8-9 | 0-2 | 14-9 | 0-4 | | | |
| 30 | 0 22-5 | 0 22-6 | 0 21-5 | 3-0 | 0-1 | 9-0 | 0-2 | 15-0 | 0-4 | | | |
| 31 | 0 22-8 | 0 22-8 | 0 21-7 | 3-1 | 0-1 | 9-1 | 0-2 | 15-1 | 0-4 | | | |
| 32 | 0 23-0 | 0 23-1 | 0 22-0 | 3-2 | 0-1 | 9-2 | 0-2 | 15-2 | 0-4 | | | |
| 33 | 0 23-3 | 0 23-3 | 0 22-2 | 3-3 | 0-1 | 9-3 | 0-2 | 15-3 | 0-4 | | | |
| 34 | 0 23-5 | 0 23-6 | 0 22-4 | 3-4 | 0-1 | 9-4 | 0-2 | 15-4 | 0-4 | | | |
| 35 | 0 23-8 | 0 23-8 | 0 22-7 | 3-5 | 0-1 | 9-5 | 0-2 | 15-5 | 0-4 | | | |
| 36 | 0 24-0 | 0 24-1 | 0 22-9 | 3-6 | 0-1 | 9-6 | 0-2 | 15-6 | 0-4 | | | |
| 37 | 0 24-3 | 0 24-3 | 0 23-1 | 3-7 | 0-1 | 9-7 | 0-2 | 15-7 | 0-4 | | | |
| 38 | 0 24-5 | 0 24-6 | 0 23-4 | 3-8 | 0-1 | 9-8 | 0-2 | 15-8 | 0-4 | | | |
| 39 | 0 24-8 | 0 24-8 | 0 23-6 | 3-9 | 0-1 | 9-9 | 0-2 | 15-9 | 0-4 | | | |
| 40 | 0 25-0 | 0 25-1 | 0 23-9 | 4-0 | 0-1 | 10-0 | 0-3 | 16-0 | 0-4 | | | |
| 41 | 0 25-3 | 0 25-3 | 0 24-1 | 4-1 | 0-1 | 10-1 | 0-3 | 16-1 | 0-4 | | | |
| 42 | 0 25-5 | 0 25-6 | 0 24-3 | 4-2 | 0-1 | 10-2 | 0-3 | 16-2 | 0-4 | | | |
| 43 | 0 25-8 | 0 25-8 | 0 24-6 | 4-3 | 0-1 | 10-3 | 0-3 | 16-3 | 0-4 | | | |
| 44 | 0 26-0 | 0 26-1 | 0 24-8 | 4-4 | 0-1 | 10-4 | 0-3 | 16-4 | 0-4 | | | |
| 45 | 0 26-3 | 0 26-3 | 0 25-1 | 4-5 | 0-1 | 10-5 | 0-3 | 16-5 | 0-4 | | | |
| 46 | 0 26-5 | 0 26-6 | 0 25-3 | 4-6 | 0-1 | 10-6 | 0-3 | 16-6 | 0-4 | | | |
| 47 | 0 26-8 | 0 26-8 | 0 25-5 | 4-7 | 0-1 | 10-7 | 0-3 | 16-7 | 0-4 | | | |
| 48 | 0 27-0 | 0 27-1 | 0 25-8 | 4-8 | 0-1 | 10-8 | 0-3 | 16-8 | 0-4 | | | |
| 49 | 0 27-3 | 0 27-3 | 0 26-0 | 4-9 | 0-1 | 10-9 | 0-3 | 16-9 | 0-4 | | | |
| 50 | 0 27-5 | 0 27-6 | 0 26-2 | 5-0 | 0-1 | 11-0 | 0-3 | 17-0 | 0-4 | | | |
| 51 | 0 27-8 | 0 27-8 | 0 26-5 | 5-1 | 0-1 | 11-1 | 0-3 | 17-1 | 0-4 | | | |
| 52 | 0 28-0 | | | | | | | | | | | |

| 2 ^m | | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ | 3 ^m | | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ |
|----------------|--------|--------------|--------|------|-------------|-------------------|-------------|-------------------|-------------|-------------------|----------------|--------|--------------|-------|------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| 00 | 0 30-0 | 0 30-1 | 0 28-6 | 0-0 | 0-0 | 6-0 | 0-3 | 12-0 | 0-5 | 00 | 0 45-0 | 0 45-1 | 0 43-0 | 0-0 | 0-0 | 6-0 | 0-4 | 12-0 | 0-7 | | |
| 01 | 0 30-3 | 0 30-3 | 0 28-9 | 0-1 | 0-0 | 6-1 | 0-3 | 12-1 | 0-5 | 01 | 0 45-3 | 0 45-4 | 0 43-2 | 0-1 | 0-0 | 6-1 | 0-4 | 12-1 | 0-7 | | |
| 02 | 0 30-5 | 0 30-6 | 0 29-1 | 0-2 | 0-0 | 6-2 | 0-3 | 12-2 | 0-5 | 02 | 0 45-5 | 0 45-6 | 0 43-4 | 0-2 | 0-0 | 6-2 | 0-4 | 12-2 | 0-7 | | |
| 03 | 0 30-8 | 0 30-8 | 0 29-3 | 0-3 | 0-0 | 6-3 | 0-3 | 12-3 | 0-5 | 03 | 0 45-8 | 0 45-9 | 0 43-7 | 0-3 | 0-0 | 6-3 | 0-4 | 12-3 | 0-7 | | |
| 04 | 0 31-0 | 0 31-1 | 0 29-6 | 0-4 | 0-0 | 6-4 | 0-3 | 12-4 | 0-5 | 04 | 0 46-0 | 0 46-1 | 0 43-9 | 0-4 | 0-0 | 6-4 | 0-4 | 12-4 | 0-7 | | |
| 05 | 0 31-3 | 0 31-3 | 0 29-8 | 0-5 | 0-0 | 6-5 | 0-3 | 12-5 | 0-5 | 05 | 0 46-3 | 0 46-4 | 0 44-1 | 0-5 | 0-0 | 6-5 | 0-4 | 12-5 | 0-7 | | |
| 06 | 0 31-5 | 0 31-6 | 0 30-1 | 0-6 | 0-0 | 6-6 | 0-3 | 12-6 | 0-5 | 06 | 0 46-5 | 0 46-6 | 0 44-4 | 0-6 | 0-0 | 6-6 | 0-4 | 12-6 | 0-7 | | |
| 07 | 0 31-8 | 0 31-8 | 0 30-3 | 0-7 | 0-0 | 6-7 | 0-3 | 12-7 | 0-5 | 07 | 0 46-8 | 0 46-9 | 0 44-6 | 0-7 | 0-0 | 6-7 | 0-4 | 12-7 | 0-7 | | |
| 08 | 0 32-0 | 0 32-1 | 0 30-5 | 0-8 | 0-0 | 6-8 | 0-3 | 12-8 | 0-5 | 08 | 0 47-0 | 0 47-1 | 0 44-9 | 0-8 | 0-0 | 6-8 | 0-4 | 12-8 | 0-7 | | |
| 09 | 0 32-3 | 0 32-3 | 0 30-8 | 0-9 | 0-0 | 6-9 | 0-3 | 12-9 | 0-5 | 09 | 0 47-3 | 0 47-4 | 0 45-1 | 0-9 | 0-1 | 6-9 | 0-4 | 12-9 | 0-8 | | |
| 10 | 0 32-5 | 0 32-6 | 0 31-0 | 1-0 | 0-0 | 7-0 | 0-3 | 13-0 | 0-5 | 10 | 0 47-5 | 0 47-6 | 0 45-3 | 1-0 | 0-1 | 7-0 | 0-4 | 13-0 | 0-8 | | |
| 11 | 0 32-8 | 0 32-8 | 0 31-3 | 1-1 | 0-0 | 7-1 | 0-3 | 13-1 | 0-5 | 11 | 0 47-8 | 0 47-9 | 0 45-6 | 1-1 | 0-1 | 7-1 | 0-4 | 13-1 | 0-8 | | |
| 12 | 0 33-0 | 0 33-1 | 0 31-5 | 1-2 | 0-1 | 7-2 | 0-3 | 13-2 | 0-6 | 12 | 0 48-0 | 0 48-1 | 0 45-8 | 1-2 | 0-1 | 7-2 | 0-4 | 13-2 | 0-8 | | |
| 13 | 0 33-3 | 0 33-3 | 0 31-7 | 1-3 | 0-1 | 7-3 | 0-3 | 13-3 | 0-6 | 13 | 0 48-3 | 0 48-4 | 0 46-1 | 1-3 | 0-1 | 7-3 | 0-4 | 13-3 | 0-8 | | |
| 14 | 0 33-5 | 0 33-6 | 0 32-0 | 1-4 | 0-1 | 7-4 | 0-3 | 13-4 | 0-6 | 14 | 0 48-5 | 0 48-6 | 0 46-3 | 1-4 | 0-1 | 7-4 | 0-4 | 13-4 | 0-8 | | |
| 15 | 0 33-8 | 0 33-8 | 0 32-2 | 1-5 | 0-1 | 7-5 | 0-3 | 13-5 | 0-6 | 15 | 0 48-8 | 0 48-9 | 0 46-5 | 1-5 | 0-1 | 7-5 | 0-4 | 13-5 | 0-8 | | |
| 16 | 0 34-0 | 0 34-1 | 0 32-5 | 1-6 | 0-1 | 7-6 | 0-3 | 13-6 | 0-6 | 16 | 0 49-0 | 0 49-1 | 0 46-8 | 1-6 | 0-1 | 7-6 | 0-4 | 13-6 | 0-8 | | |
| 17 | 0 34-3 | 0 34-3 | 0 32-7 | 1-7 | 0-1 | 7-7 | 0-3 | 13-7 | 0-6 | 17 | 0 49-3 | 0 49-4 | 0 47-0 | 1-7 | 0-1 | 7-7 | 0-4 | 13-7 | 0-8 | | |
| 18 | 0 34-5 | 0 34-6 | 0 32-9 | 1-8 | 0-1 | 7-8 | 0-3 | 13-8 | 0-6 | 18 | 0 49-5 | 0 49-6 | 0 47-2 | 1-8 | 0-1 | 7-8 | 0-5 | 13-8 | 0-8 | | |
| 19 | 0 34-8 | 0 34-8 | 0 33-2 | 1-9 | 0-1 | 7-9 | 0-3 | 13-9 | 0-6 | 19 | 0 49-8 | 0 49-9 | 0 47-5 | 1-9 | 0-1 | 7-9 | 0-5 | 13-9 | 0-8 | | |
| 20 | 0 35-0 | 0 35-1 | 0 33-4 | 2-0 | 0-1 | 8-0 | 0-3 | 14-0 | 0-6 | 20 | 0 50-0 | 0 50-1 | 0 47-7 | 2-0 | 0-1 | 8-0 | 0-5 | 14-0 | 0-8 | | |
| 21 | 0 35-3 | 0 35-3 | 0 33-6 | 2-1 | 0-1 | 8-1 | 0-3 | 14-1 | 0-6 | 21 | 0 50-3 | 0 50-4 | 0 48-0 | 2-1 | 0-1 | 8-1 | 0-5 | 14-1 | 0-8 | | |
| 22 | 0 35-5 | 0 35-6 | 0 33-9 | 2-2 | 0-1 | 8-2 | 0-3 | 14-2 | 0-6 | 22 | 0 50-5 | 0 50-6 | 0 48-2 | 2-2 | 0-1 | 8-2 | 0-5 | 14-2 | 0-8 | | |
| 23 | 0 35-8 | 0 35-8 | 0 34-1 | 2-3 | 0-1 | 8-3 | 0-3 | 14-3 | 0-6 | 23 | 0 50-8 | 0 50-9 | 0 48-4 | 2-3 | 0-1 | 8-3 | 0-5 | 14-3 | 0-8 | | |
| 24 | 0 36-0 | 0 36-1 | 0 34-4 | 2-4 | 0-1 | 8-4 | 0-4 | 14-4 | 0-6 | 24 | 0 51-0 | 0 51-1 | 0 48-7 | 2-4 | 0-1 | 8-4 | 0-5 | 14-4 | 0-8 | | |
| 25 | 0 36-3 | 0 36-3 | 0 34-6 | 2-5 | 0-1 | 8-5 | 0-4 | 14-5 | 0-6 | 25 | 0 51-3 | 0 51-4 | 0 48-9 | 2-5 | 0-1 | 8-5 | 0-5 | 14-5 | 0-8 | | |
| 26 | 0 36-5 | 0 36-6 | 0 34-8 | 2-6 | 0-1 | 8-6 | 0-4 | 14-6 | 0-6 | 26 | 0 51-5 | 0 51-6 | 0 49-2 | 2-6 | 0-2 | 8-6 | 0-5 | 14-6 | 0-9 | | |
| 27 | 0 36-8 | 0 36-9 | 0 35-1 | 2-7 | 0-1 | 8-7 | 0-4 | 14-7 | 0-6 | 27 | 0 51-8 | 0 51-9 | 0 49-4 | 2-7 | 0-2 | 8-7 | 0-5 | 14-7 | 0-9 | | |
| 28 | 0 37-0 | 0 37-1 | 0 35-3 | 2-8 | 0-1 | 8-8 | 0-4 | 14-8 | 0-6 | 28 | 0 52-0 | 0 52-1 | 0 49-6 | 2-8 | 0-2 | 8-8 | 0-5 | 14-8 | 0-9 | | |
| 29 | 0 37-3 | 0 37-4 | 0 35-6 | 2-9 | 0-1 | 8-9 | 0-4 | 14-9 | 0-6 | 29 | 0 52-3 | 0 52-4 | 0 49-9 | 2-9 | 0-2 | 8-9 | 0-5 | 14-9 | 0-9 | | |
| 30 | 0 37-5 | 0 37-6 | 0 35-8 | 3-0 | 0-1 | 9-0 | 0-4 | 15-0 | 0-6 | 30 | 0 52-5 | 0 52-6 | 0 50-1 | 3-0 | 0-2 | 9-0 | 0-5 | 15-0 | 0-9 | | |
| 31 | 0 37-8 | 0 37-9 | 0 36-0 | 3-1 | 0-1 | 9-1 | 0-4 | 15-1 | 0-6 | 31 | 0 52-8 | 0 52-9 | 0 50-3 | 3-1 | 0-2 | 9-1 | 0-5 | 15-1 | 0-9 | | |
| 32 | 0 38-0 | 0 38-1 | 0 36-3 | 3-2 | 0-1 | 9-2 | 0-4 | 15-2 | 0-6 | 32 | 0 53-0 | 0 53-1 | 0 50-6 | 3-2 | 0-2 | 9-2 | 0-5 | 15-2 | 0-9 | | |
| 33 | 0 38-3 | 0 38-4 | 0 36-5 | 3-3 | 0-1 | 9-3 | 0-4 | 15-3 | 0-6 | 33 | 0 53-3 | 0 53-4 | 0 50-8 | 3-3 | 0-2 | 9-3 | 0-5 | 15-3 | 0-9 | | |
| 34 | 0 38-5 | 0 38-6 | 0 36-7 | 3-4 | 0-1 | 9-4 | 0-4 | 15-4 | 0-6 | 34 | 0 53-5 | 0 53-6 | 0 51-1 | 3-4 | 0-2 | 9-4 | 0-5 | 15-4 | 0-9 | | |
| 35 | 0 38-8 | 0 38-9 | 0 37-0 | 3-5 | 0-1 | 9-5 | 0-4 | 15-5 | 0-6 | 35 | 0 53-8 | 0 53-9 | 0 51-3 | 3-5 | 0-2 | 9-5 | 0-6 | 15-5 | 0-9 | | |
| 36 | 0 39-0 | 0 39-1 | 0 37-2 | 3-6 | 0-2 | 9-6 | 0-4 | 15-6 | 0-7 | 36 | 0 54-0 | 0 54-1 | 0 51-5 | 3-6 | 0-2 | 9-6 | 0-6 | 15-6 | 0-9 | | |
| 37 | 0 39-3 | 0 39-4 | 0 37-5 | 3-7 | 0-2 | 9-7 | 0-4 | 15-7 | 0-7 | 37 | 0 54-3 | 0 54-4 | 0 51-8 | 3-7 | 0-2 | 9-7 | 0-6 | 15-7 | 0-9 | | |
| 38 | 0 39-5 | 0 39-6 | 0 37-7 | 3-8 | 0-2 | 9-8 | 0-4 | 15-8 | 0-7 | 38 | 0 54-5 | 0 54-6 | 0 52-0 | 3-8 | 0-2 | 9-8 | 0-6 | 15-8 | 0-9 | | |
| 39 | 0 39-8 | 0 39-9 | 0 37-9 | 3-9 | 0-2 | 9-9 | 0-4 | 15-9 | 0-7 | 39 | 0 54-8 | 0 54-9 | 0 52-3 | 3-9 | 0-2 | 9-9 | 0-6 | 15-9 | 0-9 | | |
| 40 | 0 40-0 | 0 40-1 | 0 38-2 | 4-0 | 0-2 | 10-0 | 0-4 | 16-0 | 0-7 | 40 | 0 55-0 | 0 55-2 | 0 52-5 | 4-0 | 0-2 | 10-0 | 0-6 | 16-0 | 0-9 | | |
| 41 | 0 40-3 | 0 40-4 | 0 38-4 | 4-1 | 0-2 | 10-1 | 0-4 | 16-1 | 0-7 | 41 | 0 55-3 | 0 55-4 | 0 52-7 | 4-1 | 0-2 | 10-1 | 0-6 | 16-1 | 0-9 | | |
| 42 | 0 40-5 | 0 40-6 | 0 38-7 | 4-2 | 0-2 | 10-2 | 0-4 | 16-2 | 0-7 | 42 | 0 55-5 | 0 55-7 | 0 53-0 | 4-2 | 0-2 | 10-2 | 0-6 | 16-2 | 0-9 | | |
| 43 | 0 40-8 | 0 40-9 | 0 38-9 | 4-3 | 0-2 | 10-3 | 0-4 | 16-3 | 0-7 | 43 | 0 55-8 | 0 55-9 | 0 53-2 | 4-3 | 0-3 | 10-3 | 0-6 | 16-3 | 1-0 | | |
| 44 | 0 41-0 | 0 41-1 | 0 39-1 | 4-4 | 0-2 | 10-4 | 0-4 | 16-4 | 0-7 | 44 | 0 56-0 | 0 56-2 | 0 53-4 | 4-4 | 0-3 | 10-4 | 0-6 | 16-4 | 1-0 | | |
| 45 | 0 41-3 | 0 41-4 | 0 39-4 | 4-5 | 0-2 | 10-5 | 0-4 | 16-5 | 0-7 | 45 | 0 56-3 | 0 56-4 | 0 53-7 | 4-5 | 0-3 | 10-5 | 0-6 | 16-5 | 1-0 | | |
| 46 | 0 41-5 | 0 41-6 | 0 39-6 | 4-6 | 0-2 | 10-6 | 0-4 | 16-6 | 0-7 | 46 | 0 56-5 | 0 56-7 | 0 53-9 | 4-6 | 0-3 | 10-6 | 0-6 | 16-6 | 1-0 | | |
| 47 | 0 41-8 | 0 41-9 | 0 39-8 | 4-7 | 0-2 | 10-7 | 0-4 | 16-7 | 0-7 | 47 | 0 56-8 | 0 56-9 | 0 54-2 | 4-7 | 0-3 | 10-7 | 0-6 | 16-7 | 1-0 | | |
| 48 | 0 42-0 | 0 42-1 | 0 40-1 | 4-8 | 0-2 | 10-8 | 0-5 | 16-8 | 0-7 | 48 | 0 57-0 | 0 57-2 | 0 54-4 | 4-8 | 0-3 | 10-8 | 0-6 | 16-8 | 1-0 | | |
| 49 | 0 42-3 | 0 42-4 | 0 40-3 | 4-9 | 0-2 | 10-9 | 0-5 | 16-9 | 0-7 | 49 | 0 57-3 | 0 57-4 | 0 54-6 | 4-9 | 0-3 | 10-9 | 0-6 | 16-9 | 1-0 | | |
| 50 | 0 42-5 | 0 42-6 | 0 40-6 | 5-0 | 0-2 | 11-0 | 0-5 | 17-0 | 0-7 | 50 | 0 57-5 | 0 57-7 | 0 54-9 | 5-0 | 0-3 | 11-0 | 0-6 | 17-0 | 1-0 | | |
| 51 | 0 42-8 | 0 42-9 | 0 40-8 | 5-1 | 0-2 | 11-1 | 0-5 | 17-1 | 0-7 | 51 | 0 57-8 | 0 57-9 | 0 55-1 | 5-1 | 0-3 | 11-1 | 0-6 | 17-1 | 1-0 | | |
| 52 | 0 43-0 | 0 43-1 | 0 41-0 | 5-2 | 0-2 | 11-2 | 0-5 | 17-2 | 0-7 | 52 | 0 58-0 | 0 58-2 | 0 55-4 | 5-2 | 0-3 | 11-2 | 0-7 | 17-2 | 1-0 | | |
| 53 | 0 43-3 | 0 43-4 | 0 41-3 | 5-3 | 0-2 | 11-3 | 0-5 | 17-3 | 0-7 | 53 | 0 58-3 | 0 58-4 | 0 55-6 | 5-3 | 0-3 | 11-3 | 0-7 | 17-3 | 1-0 | | |
| 54 | 0 43-5 | 0 43-6 | 0 41-5 | 5-4 | 0-2 | 11-4 | 0-5 | 17-4 | 0-7 | 54 | 0 58-5 | 0 58-7 | 0 55-8 | 5-4 | 0-3 | 11-4 | 0-7 | 17-4 | 1-0 | | |
| 55 | 0 43-8 | 0 43-9 | 0 41-8 | 5-5 | 0-2 | 11-5 | 0-5 | 17-5 | 0-7 | 55 | 0 58-8 | 0 58-9 | 0 56-1 | 5-5 | 0-3 | 11-5 | 0-7 | 17-5 | 1-0 | | |
| 56 | 0 44-0 | 0 44-1 | 0 42-0 | 5-6 | 0-2 | 11-6 | 0-5 | 17-6 | 0-7 | 56 | 0 59-0 | 0 59-2 | 0 56-3 | 5-6 | 0-3 | 11-6 | 0-7 | 17-6 | 1-0 | | |
| 57 | 0 44-3 | 0 44-4 | 0 42-2 | 5-7 | 0-2 | 11-7 | 0-5 | 17-7 | 0-7 | 57 | 0 59-3 | 0 59-4 | 0 56-6 | 5-7 | 0-3 | 11-7 | 0-7 | 17-7 | 1-0 | | |
| 58 | 0 44-5 | 0 44-6 | 0 42-5 | 5-8 | 0-2 | 11-8 | 0-5 | 17-8 | 0-7 | 58 | 0 59-5 | 0 59-7 | 0 56-8 | 5-8 | 0-3 | 11-8 | 0-7 | 17-8 | 1-0 | | |
| 59 | 0 44-8 | 0 44-9 | 0 42-7 | 5-9 | 0-2 | 11-9 | 0-5 | 17-9 | 0-7 | 59 | 0 59-8 | 0 59-9 | 0 57-0 | 5-9 | 0-3 | 11-9 | 0-7 | 17-9 | 1-0 | | |
| 60 | 0 45-0 | 0 45-1 | 0 43-0 | 6-0 | 0-3 | 12-0 | 0-5 | 18-0 | 0-8 | 60 | 1 00-0 | 1 00-2 | 0 57-3 | 6-0 | 0-4 | 12-0 | 0-7 | 18-0 | 1-0 | | |

| m 4 | SOL PLANETAS | | ARIES | LUNA | v o d | | v o d | | v o d | |
|--------|-----------------|---|--------|--------|-------------|-----|-------------|-----|-------------|-----|
| | o | ' | | | o | ' | o | ' | o | ' |
| 00 | 1 00-0 | | 1 00-2 | 0 57-3 | 0-0 | 0-0 | 6-0 | 0-5 | 12-0 | 0-9 |
| 01 | 1 00-3 | | 1 00-4 | 0 57-5 | 0-1 | 0-0 | 6-1 | 0-5 | 12-1 | 0-9 |
| 02 | 1 00-5 | | 1 00-7 | 0 57-7 | 0-2 | 0-0 | 6-2 | 0-5 | 12-2 | 0-9 |
| 03 | 1 00-8 | | 1 00-9 | 0 58-0 | 0-3 | 0-0 | 6-3 | 0-5 | 12-3 | 0-9 |
| 04 | 1 01-0 | | 1 01-2 | 0 58-2 | 0-4 | 0-0 | 6-4 | 0-5 | 12-4 | 0-9 |
| 05 | 1 01-3 | | 1 01-4 | 0 58-5 | 0-5 | 0-0 | 6-5 | 0-5 | 12-5 | 0-9 |
| 06 | 1 01-5 | | 1 01-7 | 0 58-7 | 0-6 | 0-0 | 6-6 | 0-5 | 12-6 | 0-9 |
| 07 | 1 01-8 | | 1 01-9 | 0 58-9 | 0-7 | 0-1 | 6-7 | 0-5 | 12-7 | 1-0 |
| 08 | 1 02-0 | | 1 02-2 | 0 59-2 | 0-8 | 0-1 | 6-8 | 0-5 | 12-8 | 1-0 |
| 09 | 1 02-3 | | 1 02-4 | 0 59-4 | 0-9 | 0-1 | 6-9 | 0-5 | 12-9 | 1-0 |
| 10 | 1 02-5 | | 1 02-7 | 0 59-7 | 1-0 | 0-1 | 7-0 | 0-5 | 13-0 | 1-0 |
| 11 | 1 02-8 | | 1 02-9 | 0 59-9 | 1-1 | 0-1 | 7-1 | 0-5 | 13-1 | 1-0 |
| 12 | 1 03-0 | | 1 03-2 | 1 00-1 | 1-2 | 0-1 | 7-2 | 0-5 | 13-2 | 1-0 |
| 13 | 1 03-3 | | 1 03-4 | 1 00-4 | 1-3 | 0-1 | 7-3 | 0-5 | 13-3 | 1-0 |
| 14 | 1 03-5 | | 1 03-7 | 1 00-6 | 1-4 | 0-1 | 7-4 | 0-6 | 13-4 | 1-0 |
| 15 | 1 03-8 | | 1 03-9 | 1 00-8 | 1-5 | 0-1 | 7-5 | 0-6 | 13-5 | 1-0 |
| 16 | 1 04-0 | | 1 04-2 | 1 01-1 | 1-6 | 0-1 | 7-6 | 0-6 | 13-6 | 1-0 |
| 17 | 1 04-3 | | 1 04-4 | 1 01-3 | 1-7 | 0-1 | 7-7 | 0-6 | 13-7 | 1-0 |
| 18 | 1 04-5 | | 1 04-7 | 1 01-6 | 1-8 | 0-1 | 7-8 | 0-6 | 13-8 | 1-0 |
| 19 | 1 04-8 | | 1 04-9 | 1 01-8 | 1-9 | 0-1 | 7-9 | 0-6 | 13-9 | 1-0 |
| 20 | 1 05-0 | | 1 05-2 | 1 02-0 | 2-0 | 0-2 | 8-0 | 0-6 | 14-0 | 1-1 |
| 21 | 1 05-3 | | 1 05-4 | 1 02-3 | 2-1 | 0-2 | 8-1 | 0-6 | 14-1 | 1-1 |
| 22 | 1 05-5 | | 1 05-7 | 1 02-5 | 2-2 | 0-2 | 8-2 | 0-6 | 14-2 | 1-1 |
| 23 | 1 05-8 | | 1 05-9 | 1 02-8 | 2-3 | 0-2 | 8-3 | 0-6 | 14-3 | 1-1 |
| 24 | 1 06-0 | | 1 06-2 | 1 03-0 | 2-4 | 0-2 | 8-4 | 0-6 | 14-4 | 1-1 |
| 25 | 1 06-3 | | 1 06-4 | 1 03-2 | 2-5 | 0-2 | 8-5 | 0-6 | 14-5 | 1-1 |
| 26 | 1 06-5 | | 1 06-7 | 1 03-5 | 2-6 | 0-2 | 8-6 | 0-6 | 14-6 | 1-1 |
| 27 | 1 06-8 | | 1 06-9 | 1 03-7 | 2-7 | 0-2 | 8-7 | 0-7 | 14-7 | 1-1 |
| 28 | 1 07-0 | | 1 07-2 | 1 03-9 | 2-8 | 0-2 | 8-8 | 0-7 | 14-8 | 1-1 |
| 29 | 1 07-3 | | 1 07-4 | 1 04-2 | 2-9 | 0-2 | 8-9 | 0-7 | 14-9 | 1-1 |
| 30 | 1 07-5 | | 1 07-7 | 1 04-4 | 3-0 | 0-2 | 9-0 | 0-7 | 15-0 | 1-1 |
| 31 | 1 07-8 | | 1 07-9 | 1 04-7 | 3-1 | 0-2 | 9-1 | 0-7 | 15-1 | 1-1 |
| 32 | 1 08-0 | | 1 08-2 | 1 04-9 | 3-2 | 0-2 | 9-2 | 0-7 | 15-2 | 1-1 |
| 33 | 1 08-3 | | 1 08-4 | 1 05-1 | 3-3 | 0-2 | 9-3 | 0-7 | 15-3 | 1-1 |
| 34 | 1 08-5 | | 1 08-7 | 1 05-4 | 3-4 | 0-3 | 9-4 | 0-7 | 15-4 | 1-2 |
| 35 | 1 08-8 | | 1 08-9 | 1 05-6 | 3-5 | 0-3 | 9-5 | 0-7 | 15-5 | 1-2 |
| 36 | 1 09-0 | | 1 09-2 | 1 05-9 | 3-6 | 0-3 | 9-6 | 0-7 | 15-6 | 1-2 |
| 37 | 1 09-3 | | 1 09-4 | 1 06-1 | 3-7 | 0-3 | 9-7 | 0-7 | 15-7 | 1-2 |
| 38 | 1 09-5 | | 1 09-7 | 1 06-3 | 3-8 | 0-3 | 9-8 | 0-7 | 15-8 | 1-2 |
| 39 | 1 09-8 | | 1 09-9 | 1 06-6 | 3-9 | 0-3 | 9-9 | 0-7 | 15-9 | 1-2 |
| 40 | 1 10-0 | | 1 10-2 | 1 06-8 | 4-0 | 0-3 | 10-0 | 0-8 | 16-0 | 1-2 |
| 41 | 1 10-3 | | 1 10-4 | 1 07-0 | 4-1 | 0-3 | 10-1 | 0-8 | 16-1 | 1-2 |
| 42 | 1 10-5 | | 1 10-7 | 1 07-3 | 4-2 | 0-3 | 10-2 | 0-8 | 16-2 | 1-2 |
| 43 | 1 10-8 | | 1 10-9 | 1 07-5 | 4-3 | 0-3 | 10-3 | 0-8 | 16-3 | 1-2 |
| 44 | 1 11-0 | | 1 11-2 | 1 07-8 | 4-4 | 0-3 | 10-4 | 0-8 | 16-4 | 1-2 |
| 45 | 1 11-3 | | 1 11-4 | 1 08-0 | 4-5 | 0-3 | 10-5 | 0-8 | 16-5 | 1-2 |
| 46 | 1 11-5 | | 1 11-7 | 1 08-2 | 4-6 | 0-3 | 10-6 | 0-8 | 16-6 | 1-2 |
| 47 | 1 11-8 | | 1 11-9 | 1 08-5 | 4-7 | 0-4 | 10-7 | 0-8 | 16-7 | 1-3 |
| 48 | 1 12-0 | | 1 12-2 | 1 08-7 | 4-8 | 0-4 | 10-8 | 0-8 | 16-8 | 1-3 |
| 49 | 1 12-3 | | 1 12-4 | 1 09-0 | 4-9 | 0-4 | 10-9 | 0-8 | 16-9 | 1-3 |
| 50 | 1 12-5 | | 1 12-7 | 1 09-2 | 5-0 | 0-4 | 11-0 | 0-8 | 17-0 | 1-3 |
| 51 | 1 12-8 | | 1 12-9 | 1 09-4 | 5-1 | 0-4 | 11-1 | 0-8 | 17-1 | 1-3 |
| 52 | 1 13-0 | | 1 13-2 | 1 09-7 | 5-2 | 0-4 | 11-2 | 0-8 | 17-2 | 1-3 |
| 53 | 1 13-3 | | 1 13-5 | 1 09-9 | 5-3 | 0-4 | 11-3 | 0-8 | 17-3 | 1-3 |
| 54 | 1 13-5 | | 1 13-7 | 1 10-2 | 5-4 | 0-4 | 11-4 | 0-9 | 17-4 | 1-3 |
| 55 | 1 13-8 | | 1 14-0 | 1 10-4 | 5-5 | 0-4 | 11-5 | 0-9 | 17-5 | 1-3 |
| 56 | 1 14-0 | | 1 14-2 | 1 10-6 | 5-6 | 0-4 | 11-6 | 0-9 | 17-6 | 1-3 |
| 57 | 1 14-3 | | 1 14-5 | 1 10-9 | 5-7 | 0-4 | 11-7 | 0-9 | 17-7 | 1-3 |
| 58 | 1 14-5 | | 1 14-7 | 1 11-1 | 5-8 | 0-4 | 11-8 | 0-9 | 17-8 | 1-3 |
| 59 | 1 14-8 | | 1 15-0 | 1 11-3 | 5-9 | 0-4 | 11-9 | 0-9 | 17-9 | 1-3 |
| 60 | 1 15-0 | | 1 15-2 | 1 11-6 | 6-0 | 0-5 | 12-0 | 0-9 | 18-0 | 1-4 |

| m 5 | SOL PLANETAS | | ARIES | LUNA | v o d | | v o d | | v o d | |
|--------|-----------------|---|--------|--------|-------------|-----|-------------|-----|-------------|-----|
| | o | ' | | | o | ' | o | ' | o | ' |
| 00 | 1 15-0 | | 1 15-2 | 1 11-6 | 0-0 | 0-0 | 6-0 | 0-6 | 12-0 | 1-1 |
| 01 | 1 15-3 | | 1 15-5 | 1 11-8 | 0-1 | 0-0 | 6-1 | 0-6 | 12-1 | 1-1 |
| 02 | 1 15-5 | | 1 15-7 | 1 12-1 | 0-2 | 0-0 | 6-2 | 0-6 | 12-2 | 1-1 |
| 03 | 1 15-8 | | 1 16-0 | 1 12-3 | 0-3 | 0-0 | 6-3 | 0-6 | 12-3 | 1-1 |
| 04 | 1 16-0 | | 1 16-2 | 1 12-5 | 0-4 | 0-0 | 6-4 | 0-6 | 12-4 | 1-1 |
| 05 | 1 16-3 | | 1 16-5 | 1 12-8 | 0-5 | 0-0 | 6-5 | 0-6 | 12-5 | 1-1 |
| 06 | 1 16-5 | | 1 16-7 | 1 13-0 | 0-6 | 0-1 | 6-6 | 0-6 | 12-6 | 1-2 |
| 07 | 1 16-8 | | 1 17-0 | 1 13-3 | 0-7 | 0-1 | 6-7 | 0-6 | 12-7 | 1-2 |
| 08 | 1 17-0 | | 1 17-2 | 1 13-5 | 0-8 | 0-1 | 6-8 | 0-6 | 12-8 | 1-2 |
| 09 | 1 17-3 | | 1 17-5 | 1 13-7 | 0-9 | 0-1 | 6-9 | 0-6 | 12-9 | 1-2 |
| 10 | 1 17-5 | | 1 17-7 | 1 14-0 | 1-0 | 0-1 | 7-0 | 0-6 | 13-0 | 1-2 |
| 11 | 1 17-8 | | 1 18-0 | 1 14-2 | 1-1 | 0-1 | 7-1 | 0-7 | 13-1 | 1-2 |
| 12 | 1 18-0 | | 1 18-2 | 1 14-4 | 1-2 | 0-1 | 7-2 | 0-7 | 13-2 | 1-2 |
| 13 | 1 18-3 | | 1 18-5 | 1 14-7 | 1-3 | 0-1 | 7-3 | 0-7 | 13-3 | 1-2 |
| 14 | 1 18-5 | | 1 18-7 | 1 14-9 | 1-4 | 0-1 | 7-4 | 0-7 | 13-4 | 1-2 |
| 15 | 1 18-8 | | 1 19-0 | 1 15-2 | 1-5 | 0-1 | 7-5 | 0-7 | 13-5 | 1-2 |
| 16 | 1 19-0 | | 1 19-2 | 1 15-4 | 1-6 | 0-1 | 7-6 | 0-7 | 13-6 | 1-2 |
| 17 | 1 19-3 | | 1 19-5 | 1 15-6 | 1-7 | 0-2 | 7-7 | 0-7 | 13-7 | 1-3 |
| 18 | 1 19-5 | | 1 19-7 | 1 15-9 | 1-8 | 0-2 | 7-8 | 0-7 | 13-8 | 1-3 |
| 19 | 1 19-8 | | 1 20-0 | 1 16-1 | 1-9 | 0-2 | 7-9 | 0-7 | 13-9 | 1-3 |
| 20 | 1 20-0 | | 1 20-2 | 1 16-4 | 2-0 | 0-2 | 8-0 | 0-7 | 14-0 | 1-3 |
| 21 | 1 20-3 | | 1 20-5 | 1 16-6 | 2-1 | 0-2 | 8-1 | 0-7 | 14-1 | 1-3 |
| 22 | 1 20-5 | | 1 20-7 | 1 16-8 | 2-2 | 0-2 | 8-2 | 0-8 | 14-2 | 1-3 |
| 23 | 1 20-8 | | 1 21-0 | 1 17-1 | 2-3 | 0-2 | 8-3 | 0-8 | 14-3 | 1-3 |
| 24 | 1 21-0 | | 1 21-2 | 1 17-3 | 2-4 | 0-2 | 8-4 | 0-8 | 14-4 | 1-3 |
| 25 | 1 21-3 | | 1 21-5 | 1 17-5 | 2-5 | 0-2 | 8-5 | 0-8 | 14-5 | 1-3 |
| 26 | 1 21-5 | | 1 21-7 | 1 17-8 | 2-6 | 0-2 | 8-6 | 0-8 | 14-6 | 1-3 |
| 27 | 1 21-8 | | 1 22-0 | 1 18-0 | 2-7 | 0-2 | 8-7 | 0-8 | 14-7 | 1-3 |
| 28 | 1 22-0 | | 1 22-2 | 1 18-3 | 2-8 | 0-3 | 8-8 | 0-8 | 14-8 | 1-4 |
| 29 | 1 22-3 | | 1 22-5 | 1 18-5 | 2-9 | 0-3 | 8-9 | 0-8 | 14-9 | 1-4 |
| 30 | 1 22-5 | | 1 22-7 | 1 18-7 | 3-0 | 0-3 | 9-0 | 0-8 | 15-0 | 1-4 |
| 31 | 1 22-8 | | 1 23-0 | 1 19-0 | 3-1 | 0-3 | 9-1 | 0-8 | 15-1 | 1-4 |
| 32 | 1 23-0 | | 1 23-2 | 1 19-2 | 3-2 | 0-3 | 9-2 | 0-8 | 15-2 | 1-4 |
| 33 | 1 23-3 | | 1 23-5 | 1 19-5 | 3-3 | 0-3 | 9-3 | 0-9 | 15-3 | 1-4 |
| 34 | 1 23-5 | | 1 23-7 | 1 19-7 | 3-4 | 0-3 | 9-4 | 0-9 | 15-4 | 1-4 |
| 35 | 1 23-8 | | 1 24-0 | 1 19-9 | 3-5 | 0-3 | 9-5 | 0-9 | 15-5 | 1-4 |
| 36 | 1 24-0 | | 1 24-2 | 1 20-2 | 3-6 | 0-3 | 9-6 | 0-9 | 15-6 | 1-4 |
| 37 | 1 24-3 | | 1 24-5 | 1 20-4 | 3-7 | 0-3 | 9-7 | 0-9 | 15-7 | 1-4 |
| 38 | 1 24-5 | | 1 24-7 | 1 20-7 | 3-8 | 0-3 | 9-8 | 0-9 | 15-8 | 1-4 |
| 39 | 1 24-8 | | 1 25-0 | 1 20-9 | 3-9 | 0-4 | 9-9 | 0-9 | 15-9 | 1-5 |
| 40 | 1 25-0 | | 1 25-2 | 1 21-1 | 4-0 | 0-4 | 10-0 | 0-9 | 16-0 | 1-5 |
| 41 | 1 25-3 | | 1 25-5 | 1 21-4 | 4-1 | 0-4 | 10-1 | 0-9 | 16-1 | 1-5 |
| 42 | 1 25-5 | | 1 25-7 | 1 21-6 | 4-2 | 0-4 | 10-2 | 0-9 | 16-2 | 1-5 |
| 43 | 1 25-8 | | 1 26-0 | 1 21-8 | 4-3 | 0-4 | 10-3 | 0-9 | 16-3 | 1-5 |
| 44 | 1 26-0 | | 1 26-2 | 1 22-1 | 4-4 | 0-4 | 10-4 | 1-0 | 16-4 | 1-5 |
| 45 | 1 26-3 | | 1 26-5 | 1 22-3 | 4-5 | 0-4 | 10-5 | 1-0 | 16-5 | 1-5 |
| 46 | 1 26-5 | | 1 26-7 | 1 22-6 | 4-6 | 0-4 | 10-6 | 1-0 | 16-6 | 1-5 |
| 47 | 1 26-8 | | 1 27-0 | 1 22-8 | 4-7 | 0-4 | 10-7 | 1-0 | 16-7 | 1-5 |
| 48 | 1 27-0 | | 1 27-2 | 1 23-0 | 4-8 | 0-4 | 10-8 | 1-0 | 16-8 | 1-5 |
| 49 | 1 27-3 | | 1 27-5 | 1 23-3 | 4-9 | 0-4 | 10-9 | 1-0 | 16-9 | 1-5 |
| 50 | 1 27-5 | | 1 27-7 | 1 23-5 | 5-0 | 0-5 | 11-0 | 1-0 | 17-0 | 1-6 |
| 51 | 1 27-8 | | 1 28-0 | 1 23-8 | 5-1 | 0-5 | 11-1 | 1-0 | 17-1 | 1-6 |
| 52 | 1 28-0 | | 1 28-2 | 1 24-0 | 5-2 | 0-5 | 11-2 | 1-0 | 17-2 | 1-6 |
| 53 | 1 28-3 | | 1 28-5 | 1 24-2 | 5-3 | 0-5 | 11-3 | 1-0 | 17-3 | 1-6 |
| 54 | 1 28-5 | | 1 28-7 | 1 24-5 | 5-4 | 0-5 | 11-4 | 1-0 | 17-4 | 1-6 |
| 55 | 1 28-8 | | 1 29-0 | 1 24-7 | 5-5 | 0-5 | 11-5 | 1-1 | 17-5 | 1-6 |
| 56 | 1 29-0 | | 1 29-2 | 1 24-9 | 5-6 | 0-5 | 11-6 | 1-1 | 17-6 | 1-6 |
| 57 | 1 29-3 | | 1 29-5 | 1 25-2 | 5-7 | 0-5 | 11-7 | 1-1 | 17-7 | 1-6 |
| 58 | 1 29-5 | | 1 29-7 | 1 25-4 | 5-8 | 0-5 | 11-8 | 1-1 | 17-8 | 1-6 |

| 6 ^m | SOL PLANETAS | | ARIES | LUNA | v o d Corr ⁿ | | v o d Corr ⁿ | | v o d Corr ⁿ | | |
|----------------|--------------|--------|--------|------|-------------------------|------|-------------------------|------|-------------------------|----|---|
| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 1 30-0 | 1 30-2 | 1 25-9 | 0-0 | 0-0 | 6-0 | 0-7 | 12-0 | 1-3 | | |
| 01 | 1 30-3 | 1 30-5 | 1 26-1 | 0-1 | 0-0 | 6-1 | 0-7 | 12-1 | 1-3 | | |
| 02 | 1 30-5 | 1 30-7 | 1 26-4 | 0-2 | 0-0 | 6-2 | 0-7 | 12-2 | 1-3 | | |
| 03 | 1 30-8 | 1 31-0 | 1 26-6 | 0-3 | 0-0 | 6-3 | 0-7 | 12-3 | 1-3 | | |
| 04 | 1 31-0 | 1 31-2 | 1 26-9 | 0-4 | 0-0 | 6-4 | 0-7 | 12-4 | 1-3 | | |
| 05 | 1 31-3 | 1 31-5 | 1 27-1 | 0-5 | 0-1 | 6-5 | 0-7 | 12-5 | 1-4 | | |
| 06 | 1 31-5 | 1 31-8 | 1 27-3 | 0-6 | 0-1 | 6-6 | 0-7 | 12-6 | 1-4 | | |
| 07 | 1 31-8 | 1 32-0 | 1 27-6 | 0-7 | 0-1 | 6-7 | 0-7 | 12-7 | 1-4 | | |
| 08 | 1 32-0 | 1 32-3 | 1 27-8 | 0-8 | 0-1 | 6-8 | 0-7 | 12-8 | 1-4 | | |
| 09 | 1 32-3 | 1 32-5 | 1 28-0 | 0-9 | 0-1 | 6-9 | 0-7 | 12-9 | 1-4 | | |
| 10 | 1 32-5 | 1 32-8 | 1 28-3 | 1-0 | 0-1 | 7-0 | 0-8 | 13-0 | 1-4 | | |
| 11 | 1 32-8 | 1 33-0 | 1 28-5 | 1-1 | 0-1 | 7-1 | 0-8 | 13-1 | 1-4 | | |
| 12 | 1 33-0 | 1 33-3 | 1 28-8 | 1-2 | 0-1 | 7-2 | 0-8 | 13-2 | 1-4 | | |
| 13 | 1 33-3 | 1 33-5 | 1 29-0 | 1-3 | 0-1 | 7-3 | 0-8 | 13-3 | 1-4 | | |
| 14 | 1 33-5 | 1 33-8 | 1 29-2 | 1-4 | 0-2 | 7-4 | 0-8 | 13-4 | 1-5 | | |
| 15 | 1 33-8 | 1 34-0 | 1 29-5 | 1-5 | 0-2 | 7-5 | 0-8 | 13-5 | 1-5 | | |
| 16 | 1 34-0 | 1 34-3 | 1 29-7 | 1-6 | 0-2 | 7-6 | 0-8 | 13-6 | 1-5 | | |
| 17 | 1 34-3 | 1 34-5 | 1 30-0 | 1-7 | 0-2 | 7-7 | 0-8 | 13-7 | 1-5 | | |
| 18 | 1 34-5 | 1 34-8 | 1 30-2 | 1-8 | 0-2 | 7-8 | 0-8 | 13-8 | 1-5 | | |
| 19 | 1 34-8 | 1 35-0 | 1 30-4 | 1-9 | 0-2 | 7-9 | 0-9 | 13-9 | 1-5 | | |
| 20 | 1 35-0 | 1 35-3 | 1 30-7 | 2-0 | 0-2 | 8-0 | 0-9 | 14-0 | 1-5 | | |
| 21 | 1 35-3 | 1 35-5 | 1 30-9 | 2-1 | 0-2 | 8-1 | 0-9 | 14-1 | 1-5 | | |
| 22 | 1 35-5 | 1 35-8 | 1 31-1 | 2-2 | 0-2 | 8-2 | 0-9 | 14-2 | 1-5 | | |
| 23 | 1 35-8 | 1 36-0 | 1 31-4 | 2-3 | 0-2 | 8-3 | 0-9 | 14-3 | 1-5 | | |
| 24 | 1 36-0 | 1 36-3 | 1 31-6 | 2-4 | 0-3 | 8-4 | 0-9 | 14-4 | 1-6 | | |
| 25 | 1 36-3 | 1 36-5 | 1 31-9 | 2-5 | 0-3 | 8-5 | 0-9 | 14-5 | 1-6 | | |
| 26 | 1 36-5 | 1 36-8 | 1 32-1 | 2-6 | 0-3 | 8-6 | 0-9 | 14-6 | 1-6 | | |
| 27 | 1 36-8 | 1 37-0 | 1 32-3 | 2-7 | 0-3 | 8-7 | 0-9 | 14-7 | 1-6 | | |
| 28 | 1 37-0 | 1 37-3 | 1 32-6 | 2-8 | 0-3 | 8-8 | 1-0 | 14-8 | 1-6 | | |
| 29 | 1 37-3 | 1 37-5 | 1 32-8 | 2-9 | 0-3 | 8-9 | 1-0 | 14-9 | 1-6 | | |
| 30 | 1 37-5 | 1 37-8 | 1 33-1 | 3-0 | 0-3 | 9-0 | 1-0 | 15-0 | 1-6 | | |
| 31 | 1 37-8 | 1 38-0 | 1 33-3 | 3-1 | 0-3 | 9-1 | 1-0 | 15-1 | 1-6 | | |
| 32 | 1 38-0 | 1 38-3 | 1 33-5 | 3-2 | 0-3 | 9-2 | 1-0 | 15-2 | 1-6 | | |
| 33 | 1 38-3 | 1 38-5 | 1 33-8 | 3-3 | 0-4 | 9-3 | 1-0 | 15-3 | 1-7 | | |
| 34 | 1 38-5 | 1 38-8 | 1 34-0 | 3-4 | 0-4 | 9-4 | 1-0 | 15-4 | 1-7 | | |
| 35 | 1 38-8 | 1 39-0 | 1 34-3 | 3-5 | 0-4 | 9-5 | 1-0 | 15-5 | 1-7 | | |
| 36 | 1 39-0 | 1 39-3 | 1 34-5 | 3-6 | 0-4 | 9-6 | 1-0 | 15-6 | 1-7 | | |
| 37 | 1 39-3 | 1 39-5 | 1 34-7 | 3-7 | 0-4 | 9-7 | 1-1 | 15-7 | 1-7 | | |
| 38 | 1 39-5 | 1 39-8 | 1 35-0 | 3-8 | 0-4 | 9-8 | 1-1 | 15-8 | 1-7 | | |
| 39 | 1 39-8 | 1 40-0 | 1 35-2 | 3-9 | 0-4 | 9-9 | 1-1 | 15-9 | 1-7 | | |
| 40 | 1 40-0 | 1 40-3 | 1 35-4 | 4-0 | 0-4 | 10-0 | 1-1 | 16-0 | 1-7 | | |
| 41 | 1 40-3 | 1 40-5 | 1 35-7 | 4-1 | 0-4 | 10-1 | 1-1 | 16-1 | 1-7 | | |
| 42 | 1 40-5 | 1 40-8 | 1 35-9 | 4-2 | 0-5 | 10-2 | 1-1 | 16-2 | 1-8 | | |
| 43 | 1 40-8 | 1 41-0 | 1 36-2 | 4-3 | 0-5 | 10-3 | 1-1 | 16-3 | 1-8 | | |
| 44 | 1 41-0 | 1 41-3 | 1 36-4 | 4-4 | 0-5 | 10-4 | 1-1 | 16-4 | 1-8 | | |
| 45 | 1 41-3 | 1 41-5 | 1 36-6 | 4-5 | 0-5 | 10-5 | 1-1 | 16-5 | 1-8 | | |
| 46 | 1 41-5 | 1 41-8 | 1 36-9 | 4-6 | 0-5 | 10-6 | 1-1 | 16-6 | 1-8 | | |
| 47 | 1 41-8 | 1 42-0 | 1 37-1 | 4-7 | 0-5 | 10-7 | 1-2 | 16-7 | 1-8 | | |
| 48 | 1 42-0 | 1 42-3 | 1 37-4 | 4-8 | 0-5 | 10-8 | 1-2 | 16-8 | 1-8 | | |
| 49 | 1 42-3 | 1 42-5 | 1 37-6 | 4-9 | 0-5 | 10-9 | 1-2 | 16-9 | 1-8 | | |
| 50 | 1 42-5 | 1 42-8 | 1 37-8 | 5-0 | 0-5 | 11-0 | 1-2 | 17-0 | 1-8 | | |
| 51 | 1 42-8 | 1 43-0 | 1 38-1 | 5-1 | 0-6 | 11-1 | 1-2 | 17-1 | 1-9 | | |
| 52 | 1 43-0 | 1 43-3 | 1 38-3 | 5-2 | 0-6 | 11-2 | 1-2 | 17-2 | 1-9 | | |
| 53 | 1 43-3 | 1 43-5 | 1 38-5 | 5-3 | 0-6 | 11-3 | 1-2 | 17-3 | 1-9 | | |
| 54 | 1 43-5 | 1 43-8 | 1 38-8 | 5-4 | 0-6 | 11-4 | 1-2 | 17-4 | 1-9 | | |
| 55 | 1 43-8 | 1 44-0 | 1 39-0 | 5-5 | 0-6 | 11-5 | 1-2 | 17-5 | 1-9 | | |
| 56 | 1 44-0 | 1 44-3 | 1 39-3 | 5-6 | 0-6 | 11-6 | 1-3 | 17-6 | 1-9 | | |
| 57 | 1 44-3 | 1 44-5 | 1 39-5 | 5-7 | 0-6 | 11-7 | 1-3 | 17-7 | 1-9 | | |
| 58 | 1 44-5 | 1 44-8 | 1 39-7 | 5-8 | 0-6 | 11-8 | 1-3 | 17-8 | 1-9 | | |
| 59 | 1 44-8 | 1 45-0 | 1 40-0 | 5-9 | 0-6 | 11-9 | 1-3 | 17-9 | 1-9 | | |
| 60 | 1 45-0 | 1 45-3 | 1 40-2 | 6-0 | 0-7 | 12-0 | 1-3 | 18-0 | 2-0 | | |

| 7 ^m | SOL PLANETAS | | ARIES | LUNA | v o d Corr ⁿ | | v o d Corr ⁿ | | v o d Corr ⁿ | | |
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| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 1 45-0 | 1 45-3 | 1 40-2 | 0-0 | 0-0 | 6-0 | 0-8 | 12-0 | 1-5 | | |
| 01 | 1 45-3 | 1 45-5 | 1 40-5 | 0-1 | 0-0 | 6-1 | 0-8 | 12-1 | 1-5 | | |
| 02 | 1 45-5 | 1 45-8 | 1 40-7 | 0-2 | 0-0 | 6-2 | 0-8 | 12-2 | 1-5 | | |
| 03 | 1 45-8 | 1 46-0 | 1 40-9 | 0-3 | 0-0 | 6-3 | 0-8 | 12-3 | 1-5 | | |
| 04 | 1 46-0 | 1 46-3 | 1 41-2 | 0-4 | 0-1 | 6-4 | 0-8 | 12-4 | 1-6 | | |
| 05 | 1 46-3 | 1 46-5 | 1 41-4 | 0-5 | 0-1 | 6-5 | 0-8 | 12-5 | 1-6 | | |
| 06 | 1 46-5 | 1 46-8 | 1 41-6 | 0-6 | 0-1 | 6-6 | 0-8 | 12-6 | 1-6 | | |
| 07 | 1 46-8 | 1 47-0 | 1 41-9 | 0-7 | 0-1 | 6-7 | 0-8 | 12-7 | 1-6 | | |
| 08 | 1 47-0 | 1 47-3 | 1 42-1 | 0-8 | 0-1 | 6-8 | 0-9 | 12-8 | 1-6 | | |
| 09 | 1 47-3 | 1 47-5 | 1 42-4 | 0-9 | 0-1 | 6-9 | 0-9 | 12-9 | 1-6 | | |
| 10 | 1 47-5 | 1 47-8 | 1 42-6 | 1-0 | 0-1 | 7-0 | 0-9 | 13-0 | 1-6 | | |
| 11 | 1 47-8 | 1 48-0 | 1 42-8 | 1-1 | 0-1 | 7-1 | 0-9 | 13-1 | 1-6 | | |
| 12 | 1 48-0 | 1 48-3 | 1 43-1 | 1-2 | 0-2 | 7-2 | 0-9 | 13-2 | 1-7 | | |
| 13 | 1 48-3 | 1 48-5 | 1 43-3 | 1-3 | 0-2 | 7-3 | 0-9 | 13-3 | 1-7 | | |
| 14 | 1 48-5 | 1 48-8 | 1 43-6 | 1-4 | 0-2 | 7-4 | 0-9 | 13-4 | 1-7 | | |
| 15 | 1 48-8 | 1 49-0 | 1 43-8 | 1-5 | 0-2 | 7-5 | 0-9 | 13-5 | 1-7 | | |
| 16 | 1 49-0 | 1 49-3 | 1 44-0 | 1-6 | 0-2 | 7-6 | 1-0 | 13-6 | 1-7 | | |
| 17 | 1 49-3 | 1 49-5 | 1 44-3 | 1-7 | 0-2 | 7-7 | 1-0 | 13-7 | 1-7 | | |
| 18 | 1 49-5 | 1 49-8 | 1 44-5 | 1-8 | 0-2 | 7-8 | 1-0 | 13-8 | 1-7 | | |
| 19 | 1 49-8 | 1 50-1 | 1 44-8 | 1-9 | 0-2 | 7-9 | 1-0 | 13-9 | 1-7 | | |
| 20 | 1 50-0 | 1 50-3 | 1 45-0 | 2-0 | 0-3 | 8-0 | 1-0 | 14-0 | 1-8 | | |
| 21 | 1 50-3 | 1 50-6 | 1 45-2 | 2-1 | 0-3 | 8-1 | 1-0 | 14-1 | 1-8 | | |
| 22 | 1 50-5 | 1 50-8 | 1 45-5 | 2-2 | 0-3 | 8-2 | 1-0 | 14-2 | 1-8 | | |
| 23 | 1 50-8 | 1 51-1 | 1 45-7 | 2-3 | 0-3 | 8-3 | 1-0 | 14-3 | 1-8 | | |
| 24 | 1 51-0 | 1 51-3 | 1 45-9 | 2-4 | 0-3 | 8-4 | 1-1 | 14-4 | 1-8 | | |
| 25 | 1 51-3 | 1 51-6 | 1 46-2 | 2-5 | 0-3 | 8-5 | 1-1 | 14-5 | 1-8 | | |
| 26 | 1 51-5 | 1 51-8 | 1 46-4 | 2-6 | 0-3 | 8-6 | 1-1 | 14-6 | 1-8 | | |
| 27 | 1 51-8 | 1 52-1 | 1 46-7 | 2-7 | 0-3 | 8-7 | 1-1 | 14-7 | 1-8 | | |
| 28 | 1 52-0 | 1 52-3 | 1 46-9 | 2-8 | 0-4 | 8-8 | 1-1 | 14-8 | 1-9 | | |
| 29 | 1 52-3 | 1 52-6 | 1 47-1 | 2-9 | 0-4 | 8-9 | 1-1 | 14-9 | 1-9 | | |
| 30 | 1 52-5 | 1 52-8 | 1 47-4 | 3-0 | 0-4 | 9-0 | 1-1 | 15-0 | 1-9 | | |
| 31 | 1 52-8 | 1 53-1 | 1 47-6 | 3-1 | 0-4 | 9-1 | 1-1 | 15-1 | 1-9 | | |
| 32 | 1 53-0 | 1 53-3 | 1 47-9 | 3-2 | 0-4 | 9-2 | 1-2 | 15-2 | 1-9 | | |
| 33 | 1 53-3 | 1 53-6 | 1 48-1 | 3-3 | 0-4 | 9-3 | 1-2 | 15-3 | 1-9 | | |
| 34 | 1 53-5 | 1 53-8 | 1 48-3 | 3-4 | 0-4 | 9-4 | 1-2 | 15-4 | 1-9 | | |
| 35 | 1 53-8 | 1 54-1 | 1 48-6 | 3-5 | 0-4 | 9-5 | 1-2 | 15-5 | 1-9 | | |
| 36 | 1 54-0 | 1 54-3 | 1 48-8 | 3-6 | 0-5 | 9-6 | 1-2 | 15-6 | 2-0 | | |
| 37 | 1 54-3 | 1 54-6 | 1 49-0 | 3-7 | 0-5 | 9-7 | 1-2 | 15-7 | 2-0 | | |
| 38 | 1 54-5 | 1 54-8 | 1 49-3 | 3-8 | 0-5 | 9-8 | 1-2 | 15-8 | 2-0 | | |
| 39 | 1 54-8 | 1 55-1 | 1 49-5 | 3-9 | 0-5 | 9-9 | 1-2 | 15-9 | 2-0 | | |
| 40 | 1 55-0 | 1 55-3 | 1 49-8 | 4-0 | 0-5 | 10-0 | 1-3 | 16-0 | 2-0 | | |
| 41 | 1 55-3 | 1 55-6 | 1 50-0 | 4-1 | 0-5 | 10-1 | 1-3 | 16-1 | 2-0 | | |
| 42 | 1 55-5 | 1 55-8 | 1 50-2 | 4-2 | 0-5 | 10-2 | 1-3 | 16-2 | 2-0 | | |
| 43 | 1 55-8 | 1 56-1 | 1 50-5 | 4-3 | 0-5 | 10-3 | 1-3 | 16-3 | 2-0 | | |
| 44 | 1 56-0 | 1 56-3 | 1 50-7 | 4-4 | 0-6 | 10-4 | 1-3 | 16-4 | 2-1 | | |
| 45 | 1 56-3 | 1 56-6 | 1 51-0 | 4-5 | 0-6 | 10-5 | 1-3 | 16-5 | 2-1 | | |
| 46 | 1 56-5 | 1 56-8 | 1 51-2 | 4-6 | 0-6 | 10-6 | 1-3 | 16-6 | 2-1 | | |
| 47 | 1 56-8 | 1 57-1 | 1 51-4 | 4-7 | 0-6 | 10-7 | 1-3 | 16-7 | 2-1 | | |
| 48 | 1 57-0 | 1 57-3 | 1 51-7 | 4-8 | 0-6 | 10-8 | 1-4 | 16-8 | 2-1 | | |
| 49 | 1 57-3 | 1 57-6 | 1 51-9 | 4-9 | 0-6 | 10-9 | 1-4 | 16-9 | 2-1 | | |
| 50 | 1 57-5 | 1 57-8 | 1 52-1 | 5-0 | 0-6 | 11-0 | 1-4 | 17-0 | 2-1 | | |
| 51 | 1 57-8 | 1 58-1 | 1 52-4 | 5-1 | 0-6 | 11-1 | 1-4 | 17-1 | 2-1 | | |
| 52 | 1 58-0 | 1 58-3 | 1 52-6 | 5-2 | 0-7 | 11-2 | 1-4 | 17-2 | 2-2 | | |
| 53 | 1 58-3 | 1 58-6 | 1 52-9 | 5-3 | 0-7 | 11-3 | 1-4 | 17-3 | 2-2 | | |
| 54 | 1 58-5 | 1 58-8 | 1 53-1 | | | | | | | | |

| 8 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _d Corr ⁿ | | v _c Corr ⁿ | |
|----------------|--------------|--------|--------|---------|----------------------------------|----------|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 2 00-0 | 2 00-3 | 1 54-5 | 0-0 0-0 | 6-0 0-9 | 12-0 1-7 | | | | |
| 01 | 2 00-3 | 2 00-6 | 1 54-8 | 0-1 0-0 | 6-1 0-9 | 12-1 1-7 | | | | |
| 02 | 2 00-5 | 2 00-8 | 1 55-0 | 0-2 0-0 | 6-2 0-9 | 12-2 1-7 | | | | |
| 03 | 2 00-8 | 2 01-1 | 1 55-2 | 0-3 0-0 | 6-3 0-9 | 12-3 1-7 | | | | |
| 04 | 2 01-0 | 2 01-3 | 1 55-5 | 0-4 0-1 | 6-4 0-9 | 12-4 1-8 | | | | |
| 05 | 2 01-3 | 2 01-6 | 1 55-7 | 0-5 0-1 | 6-5 0-9 | 12-5 1-8 | | | | |
| 06 | 2 01-5 | 2 01-8 | 1 56-0 | 0-6 0-1 | 6-6 0-9 | 12-6 1-8 | | | | |
| 07 | 2 01-8 | 2 02-1 | 1 56-2 | 0-7 0-1 | 6-7 0-9 | 12-7 1-8 | | | | |
| 08 | 2 02-0 | 2 02-3 | 1 56-4 | 0-8 0-1 | 6-8 1-0 | 12-8 1-8 | | | | |
| 09 | 2 02-3 | 2 02-6 | 1 56-7 | 0-9 0-1 | 6-9 1-0 | 12-9 1-8 | | | | |
| 10 | 2 02-5 | 2 02-8 | 1 56-9 | 1-0 0-1 | 7-0 1-0 | 13-0 1-8 | | | | |
| 11 | 2 02-8 | 2 03-1 | 1 57-2 | 1-1 0-2 | 7-1 1-0 | 13-1 1-9 | | | | |
| 12 | 2 03-0 | 2 03-3 | 1 57-4 | 1-2 0-2 | 7-2 1-0 | 13-2 1-9 | | | | |
| 13 | 2 03-3 | 2 03-6 | 1 57-6 | 1-3 0-2 | 7-3 1-0 | 13-3 1-9 | | | | |
| 14 | 2 03-5 | 2 03-8 | 1 57-9 | 1-4 0-2 | 7-4 1-0 | 13-4 1-9 | | | | |
| 15 | 2 03-8 | 2 04-1 | 1 58-1 | 1-5 0-2 | 7-5 1-1 | 13-5 1-9 | | | | |
| 16 | 2 04-0 | 2 04-3 | 1 58-4 | 1-6 0-2 | 7-6 1-1 | 13-6 1-9 | | | | |
| 17 | 2 04-3 | 2 04-6 | 1 58-6 | 1-7 0-2 | 7-7 1-1 | 13-7 1-9 | | | | |
| 18 | 2 04-5 | 2 04-8 | 1 58-8 | 1-8 0-3 | 7-8 1-1 | 13-8 2-0 | | | | |
| 19 | 2 04-8 | 2 05-1 | 1 59-1 | 1-9 0-3 | 7-9 1-1 | 13-9 2-0 | | | | |
| 20 | 2 05-0 | 2 05-3 | 1 59-3 | 2-0 0-3 | 8-0 1-1 | 14-0 2-0 | | | | |
| 21 | 2 05-3 | 2 05-6 | 1 59-5 | 2-1 0-3 | 8-1 1-1 | 14-1 2-0 | | | | |
| 22 | 2 05-5 | 2 05-8 | 1 59-8 | 2-2 0-3 | 8-2 1-2 | 14-2 2-0 | | | | |
| 23 | 2 05-8 | 2 06-1 | 2 00-0 | 2-3 0-3 | 8-3 1-2 | 14-3 2-0 | | | | |
| 24 | 2 06-0 | 2 06-3 | 2 00-3 | 2-4 0-3 | 8-4 1-2 | 14-4 2-0 | | | | |
| 25 | 2 06-3 | 2 06-6 | 2 00-5 | 2-5 0-4 | 8-5 1-2 | 14-5 2-1 | | | | |
| 26 | 2 06-5 | 2 06-8 | 2 00-7 | 2-6 0-4 | 8-6 1-2 | 14-6 2-1 | | | | |
| 27 | 2 06-8 | 2 07-1 | 2 01-0 | 2-7 0-4 | 8-7 1-2 | 14-7 2-1 | | | | |
| 28 | 2 07-0 | 2 07-3 | 2 01-2 | 2-8 0-4 | 8-8 1-2 | 14-8 2-1 | | | | |
| 29 | 2 07-3 | 2 07-6 | 2 01-5 | 2-9 0-4 | 8-9 1-3 | 14-9 2-1 | | | | |
| 30 | 2 07-5 | 2 07-8 | 2 01-7 | 3-0 0-4 | 9-0 1-3 | 15-0 2-1 | | | | |
| 31 | 2 07-8 | 2 08-1 | 2 01-9 | 3-1 0-4 | 9-1 1-3 | 15-1 2-1 | | | | |
| 32 | 2 08-0 | 2 08-4 | 2 02-2 | 3-2 0-5 | 9-2 1-3 | 15-2 2-2 | | | | |
| 33 | 2 08-3 | 2 08-6 | 2 02-4 | 3-3 0-5 | 9-3 1-3 | 15-3 2-2 | | | | |
| 34 | 2 08-5 | 2 08-9 | 2 02-6 | 3-4 0-5 | 9-4 1-3 | 15-4 2-2 | | | | |
| 35 | 2 08-8 | 2 09-1 | 2 02-9 | 3-5 0-5 | 9-5 1-3 | 15-5 2-2 | | | | |
| 36 | 2 09-0 | 2 09-4 | 2 03-1 | 3-6 0-5 | 9-6 1-4 | 15-6 2-2 | | | | |
| 37 | 2 09-3 | 2 09-6 | 2 03-4 | 3-7 0-5 | 9-7 1-4 | 15-7 2-2 | | | | |
| 38 | 2 09-5 | 2 09-9 | 2 03-6 | 3-8 0-5 | 9-8 1-4 | 15-8 2-2 | | | | |
| 39 | 2 09-8 | 2 10-1 | 2 03-8 | 3-9 0-6 | 9-9 1-4 | 15-9 2-3 | | | | |
| 40 | 2 10-0 | 2 10-4 | 2 04-1 | 4-0 0-6 | 10-0 1-4 | 16-0 2-3 | | | | |
| 41 | 2 10-3 | 2 10-6 | 2 04-3 | 4-1 0-6 | 10-1 1-4 | 16-1 2-3 | | | | |
| 42 | 2 10-5 | 2 10-9 | 2 04-6 | 4-2 0-6 | 10-2 1-4 | 16-2 2-3 | | | | |
| 43 | 2 10-8 | 2 11-1 | 2 04-8 | 4-3 0-6 | 10-3 1-5 | 16-3 2-3 | | | | |
| 44 | 2 11-0 | 2 11-4 | 2 05-0 | 4-4 0-6 | 10-4 1-5 | 16-4 2-3 | | | | |
| 45 | 2 11-3 | 2 11-6 | 2 05-3 | 4-5 0-6 | 10-5 1-5 | 16-5 2-3 | | | | |
| 46 | 2 11-5 | 2 11-9 | 2 05-5 | 4-6 0-7 | 10-6 1-5 | 16-6 2-4 | | | | |
| 47 | 2 11-8 | 2 12-1 | 2 05-7 | 4-7 0-7 | 10-7 1-5 | 16-7 2-4 | | | | |
| 48 | 2 12-0 | 2 12-4 | 2 06-0 | 4-8 0-7 | 10-8 1-5 | 16-8 2-4 | | | | |
| 49 | 2 12-3 | 2 12-6 | 2 06-2 | 4-9 0-7 | 10-9 1-5 | 16-9 2-4 | | | | |
| 50 | 2 12-5 | 2 12-9 | 2 06-5 | 5-0 0-7 | 11-0 1-6 | 17-0 2-4 | | | | |
| 51 | 2 12-8 | 2 13-1 | 2 06-7 | 5-1 0-7 | 11-1 1-6 | 17-1 2-4 | | | | |
| 52 | 2 13-0 | 2 13-4 | 2 06-9 | 5-2 0-7 | 11-2 1-6 | 17-2 2-4 | | | | |
| 53 | 2 13-3 | 2 13-6 | 2 07-2 | 5-3 0-8 | 11-3 1-6 | 17-3 2-5 | | | | |
| 54 | 2 13-5 | 2 13-9 | 2 07-4 | 5-4 0-8 | 11-4 1-6 | 17-4 2-5 | | | | |
| 55 | 2 13-8 | 2 14-1 | 2 07-7 | 5-5 0-8 | 11-5 1-6 | 17-5 2-5 | | | | |
| 56 | 2 14-0 | 2 14-4 | 2 07-9 | 5-6 0-8 | 11-6 1-6 | 17-6 2-5 | | | | |
| 57 | 2 14-3 | 2 14-6 | 2 08-1 | 5-7 0-8 | 11-7 1-7 | 17-7 2-5 | | | | |
| 58 | 2 14-5 | 2 14-9 | 2 08-4 | 5-8 0-8 | 11-8 1-7 | 17-8 2-5 | | | | |
| 59 | 2 14-8 | 2 15-1 | 2 08-6 | 5-9 0-8 | 11-9 1-7 | 17-9 2-5 | | | | |
| 60 | 2 15-0 | 2 15-4 | 2 08-9 | 6-0 0-9 | 12-0 1-7 | 18-0 2-6 | | | | |

| 9 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _c Corr ⁿ | | v _d Corr ⁿ | |
|----------------|--------------|--------|--------|---------|----------------------------------|----------|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 2 15-0 | 2 15-4 | 2 08-9 | 0-0 0-0 | 6-0 1-0 | 12-0 1-9 | | | | |
| 01 | 2 15-3 | 2 15-6 | 2 09-1 | 0-1 0-0 | 6-1 1-0 | 12-1 1-9 | | | | |
| 02 | 2 15-5 | 2 15-9 | 2 09-3 | 0-2 0-0 | 6-2 1-0 | 12-2 1-9 | | | | |
| 03 | 2 15-8 | 2 16-1 | 2 09-6 | 0-3 0-0 | 6-3 1-0 | 12-3 1-9 | | | | |
| 04 | 2 16-0 | 2 16-4 | 2 09-8 | 0-4 0-1 | 6-4 1-0 | 12-4 2-0 | | | | |
| 05 | 2 16-3 | 2 16-6 | 2 10-0 | 0-5 0-1 | 6-5 1-0 | 12-5 2-0 | | | | |
| 06 | 2 16-5 | 2 16-9 | 2 10-3 | 0-6 0-1 | 6-6 1-0 | 12-6 2-0 | | | | |
| 07 | 2 16-8 | 2 17-1 | 2 10-5 | 0-7 0-1 | 6-7 1-1 | 12-7 2-0 | | | | |
| 08 | 2 17-0 | 2 17-4 | 2 10-8 | 0-8 0-1 | 6-8 1-1 | 12-8 2-0 | | | | |
| 09 | 2 17-3 | 2 17-6 | 2 11-0 | 0-9 0-1 | 6-9 1-1 | 12-9 2-0 | | | | |
| 10 | 2 17-5 | 2 17-9 | 2 11-2 | 1-0 0-2 | 7-0 1-1 | 13-0 2-1 | | | | |
| 11 | 2 17-8 | 2 18-1 | 2 11-5 | 1-1 0-2 | 7-1 1-1 | 13-1 2-1 | | | | |
| 12 | 2 18-0 | 2 18-4 | 2 11-7 | 1-2 0-2 | 7-2 1-1 | 13-2 2-1 | | | | |
| 13 | 2 18-3 | 2 18-6 | 2 12-0 | 1-3 0-2 | 7-3 1-2 | 13-3 2-1 | | | | |
| 14 | 2 18-5 | 2 18-9 | 2 12-2 | 1-4 0-2 | 7-4 1-2 | 13-4 2-1 | | | | |
| 15 | 2 18-8 | 2 19-1 | 2 12-4 | 1-5 0-2 | 7-5 1-2 | 13-5 2-1 | | | | |
| 16 | 2 19-0 | 2 19-4 | 2 12-7 | 1-6 0-3 | 7-6 1-2 | 13-6 2-2 | | | | |
| 17 | 2 19-3 | 2 19-6 | 2 12-9 | 1-7 0-3 | 7-7 1-2 | 13-7 2-2 | | | | |
| 18 | 2 19-5 | 2 19-9 | 2 13-1 | 1-8 0-3 | 7-8 1-2 | 13-8 2-2 | | | | |
| 19 | 2 19-8 | 2 20-1 | 2 13-4 | 1-9 0-3 | 7-9 1-3 | 13-9 2-2 | | | | |
| 20 | 2 20-0 | 2 20-4 | 2 13-6 | 2-0 0-3 | 8-0 1-3 | 14-0 2-2 | | | | |
| 21 | 2 20-3 | 2 20-6 | 2 13-9 | 2-1 0-3 | 8-1 1-3 | 14-1 2-2 | | | | |
| 22 | 2 20-5 | 2 20-9 | 2 14-1 | 2-2 0-3 | 8-2 1-3 | 14-2 2-2 | | | | |
| 23 | 2 20-8 | 2 21-1 | 2 14-3 | 2-3 0-4 | 8-3 1-3 | 14-3 2-3 | | | | |
| 24 | 2 21-0 | 2 21-4 | 2 14-6 | 2-4 0-4 | 8-4 1-3 | 14-4 2-3 | | | | |
| 25 | 2 21-3 | 2 21-6 | 2 14-8 | 2-5 0-4 | 8-5 1-3 | 14-5 2-3 | | | | |
| 26 | 2 21-5 | 2 21-9 | 2 15-1 | 2-6 0-4 | 8-6 1-4 | 14-6 2-3 | | | | |
| 27 | 2 21-8 | 2 22-1 | 2 15-3 | 2-7 0-4 | 8-7 1-4 | 14-7 2-3 | | | | |
| 28 | 2 22-0 | 2 22-4 | 2 15-5 | 2-8 0-4 | 8-8 1-4 | 14-8 2-3 | | | | |
| 29 | 2 22-3 | 2 22-6 | 2 15-8 | 2-9 0-5 | 8-9 1-4 | 14-9 2-4 | | | | |
| 30 | 2 22-5 | 2 22-9 | 2 16-0 | 3-0 0-5 | 9-0 1-4 | 15-0 2-4 | | | | |
| 31 | 2 22-8 | 2 23-1 | 2 16-2 | 3-1 0-5 | 9-1 1-4 | 15-1 2-4 | | | | |
| 32 | 2 23-0 | 2 23-4 | 2 16-5 | 3-2 0-5 | 9-2 1-5 | 15-2 2-4 | | | | |
| 33 | 2 23-3 | 2 23-6 | 2 16-7 | 3-3 0-5 | 9-3 1-5 | 15-3 2-4 | | | | |
| 34 | 2 23-5 | 2 23-9 | 2 17-0 | 3-4 0-5 | 9-4 1-5 | 15-4 2-4 | | | | |
| 35 | 2 23-8 | 2 24-1 | 2 17-2 | 3-5 0-6 | 9-5 1-5 | 15-5 2-5 | | | | |
| 36 | 2 24-0 | 2 24-4 | 2 17-4 | 3-6 0-6 | 9-6 1-5 | 15-6 2-5 | | | | |
| 37 | 2 24-3 | 2 24-6 | 2 17-7 | 3-7 0-6 | 9-7 1-5 | 15-7 2-5 | | | | |
| 38 | 2 24-5 | 2 24-9 | 2 17-9 | 3-8 0-6 | 9-8 1-6 | 15-8 2-5 | | | | |
| 39 | 2 24-8 | 2 25-1 | 2 18-2 | 3-9 0-6 | 9-9 1-6 | 15-9 2-5 | | | | |
| 40 | 2 25-0 | 2 25-4 | 2 18-4 | 4-0 0-6 | 10-0 1-6 | 16-0 2-5 | | | | |
| 41 | 2 25-3 | 2 25-6 | 2 18-6 | 4-1 0-6 | 10-1 1-6 | 16-1 2-5 | | | | |
| 42 | 2 25-5 | 2 25-9 | 2 18-9 | 4-2 0-7 | 10-2 1-6 | 16-2 2-6 | | | | |
| 43 | 2 25-8 | 2 26-1 | 2 19-1 | 4-3 0-7 | 10-3 1-6 | 16-3 2-6 | | | | |
| 44 | 2 26-0 | 2 26-4 | 2 19-3 | 4-4 0-7 | 10-4 1-6 | 16-4 2-6 | | | | |
| 45 | 2 26-3 | 2 26-7 | 2 19-6 | 4-5 0-7 | 10-5 1-7 | 16-5 2-6 | | | | |
| 46 | 2 26-5 | 2 26-9 | 2 19-8 | 4-6 0-7 | 10-6 1-7 | 16-6 2-6 | | | | |
| 47 | 2 26-8 | 2 27-2 | 2 20-1 | 4-7 0-7 | 10-7 1-7 | 16-7 2-6 | | | | |
| 48 | 2 27-0 | 2 27-4 | 2 20-3 | 4-8 0-8 | 10-8 1-7 | 16-8 2-7 | | | | |
| 49 | 2 27-3 | 2 27-7 | 2 20-5 | 4-9 0-8 | 10-9 1-7 | 16-9 2-7 | | | | |
| 50 | 2 27-5 | 2 27-9 | 2 20-8 | 5-0 0-8 | 11-0 1-7 | 17-0 2-7 | | | | |
| 51 | 2 27-8 | 2 28-2 | 2 21-0 | 5-1 0-8 | 11-1 1-8 | 17-1 2-7 | | | | |
| 52 | 2 28-0 | 2 28-4 | 2 21-3 | 5-2 0-8 | 11-2 1-8 | 17-2 2-7 | | | | |
| 53 | 2 28-3 | 2 28-7 | 2 21-5 | 5-3 0-8 | 11-3 1-8 | 17-3 2-7 | | | | |
| 54 | 2 28-5 | 2 28-9 | 2 21-7 | 5-4 0-9 | 11-4 1-8 | 17-4 2-8 | | | | |
| 55 | 2 28-8 | 2 29-2 | 2 22-0 | 5-5 0-9 | 11-5 1-8 | 17-5 2-8 | | | | |
| 56 | 2 29-0 | 2 29-4 | 2 22-2 | 5-6 0-9 | 11-6 1-8 | 17-6 2-8 | | | | |
| 57 | 2 29-3 | 2 29-7 | 2 22-5 | 5-7 0-9 | 11-7 1-9 | 17-7 2-8 | | | | |
| 58 | 2 29-5 | 2 29-9 | 2 22-7 | 5-8 0-9 | 11-8 1-9 | 17-8 2-8 | </ | | | |

| 10 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|--------|--------|------|----------------------------------|------|----------------------------------|------|----------------------------------|-----|
| | s | o / | | | o / | o / | / / | / / | / / | / / |
| 00 | 2 30-0 | 2 30-4 | 2 23-2 | 0-0 | 0-0 | 6-0 | 1-1 | 12-0 | 2-1 | |
| 01 | 2 30-3 | 2 30-7 | 2 23-4 | 0-1 | 0-0 | 6-1 | 1-1 | 12-1 | 2-1 | |
| 02 | 2 30-5 | 2 30-9 | 2 23-6 | 0-2 | 0-0 | 6-2 | 1-1 | 12-2 | 2-1 | |
| 03 | 2 30-8 | 2 31-2 | 2 23-9 | 0-3 | 0-1 | 6-3 | 1-1 | 12-3 | 2-2 | |
| 04 | 2 31-0 | 2 31-4 | 2 24-1 | 0-4 | 0-1 | 6-4 | 1-1 | 12-4 | 2-2 | |
| 05 | 2 31-3 | 2 31-7 | 2 24-4 | 0-5 | 0-1 | 6-5 | 1-1 | 12-5 | 2-2 | |
| 06 | 2 31-5 | 2 31-9 | 2 24-6 | 0-6 | 0-1 | 6-6 | 1-2 | 12-6 | 2-2 | |
| 07 | 2 31-8 | 2 32-2 | 2 24-8 | 0-7 | 0-1 | 6-7 | 1-2 | 12-7 | 2-2 | |
| 08 | 2 32-0 | 2 32-4 | 2 25-1 | 0-8 | 0-1 | 6-8 | 1-2 | 12-8 | 2-2 | |
| 09 | 2 32-3 | 2 32-7 | 2 25-3 | 0-9 | 0-2 | 6-9 | 1-2 | 12-9 | 2-3 | |
| 10 | 2 32-5 | 2 32-9 | 2 25-6 | 1-0 | 0-2 | 7-0 | 1-2 | 13-0 | 2-3 | |
| 11 | 2 32-8 | 2 33-2 | 2 25-8 | 1-1 | 0-2 | 7-1 | 1-2 | 13-1 | 2-3 | |
| 12 | 2 33-0 | 2 33-4 | 2 26-0 | 1-2 | 0-2 | 7-2 | 1-3 | 13-2 | 2-3 | |
| 13 | 2 33-3 | 2 33-7 | 2 26-3 | 1-3 | 0-2 | 7-3 | 1-3 | 13-3 | 2-3 | |
| 14 | 2 33-5 | 2 33-9 | 2 26-5 | 1-4 | 0-2 | 7-4 | 1-3 | 13-4 | 2-3 | |
| 15 | 2 33-8 | 2 34-2 | 2 26-7 | 1-5 | 0-3 | 7-5 | 1-3 | 13-5 | 2-4 | |
| 16 | 2 34-0 | 2 34-4 | 2 27-0 | 1-6 | 0-3 | 7-6 | 1-3 | 13-6 | 2-4 | |
| 17 | 2 34-3 | 2 34-7 | 2 27-2 | 1-7 | 0-3 | 7-7 | 1-3 | 13-7 | 2-4 | |
| 18 | 2 34-5 | 2 34-9 | 2 27-5 | 1-8 | 0-3 | 7-8 | 1-4 | 13-8 | 2-4 | |
| 19 | 2 34-8 | 2 35-2 | 2 27-7 | 1-9 | 0-3 | 7-9 | 1-4 | 13-9 | 2-4 | |
| 20 | 2 35-0 | 2 35-4 | 2 27-9 | 2-0 | 0-4 | 8-0 | 1-4 | 14-0 | 2-5 | |
| 21 | 2 35-3 | 2 35-7 | 2 28-2 | 2-1 | 0-4 | 8-1 | 1-4 | 14-1 | 2-5 | |
| 22 | 2 35-5 | 2 35-9 | 2 28-4 | 2-2 | 0-4 | 8-2 | 1-4 | 14-2 | 2-5 | |
| 23 | 2 35-8 | 2 36-2 | 2 28-7 | 2-3 | 0-4 | 8-3 | 1-5 | 14-3 | 2-5 | |
| 24 | 2 36-0 | 2 36-4 | 2 28-9 | 2-4 | 0-4 | 8-4 | 1-5 | 14-4 | 2-5 | |
| 25 | 2 36-3 | 2 36-7 | 2 29-1 | 2-5 | 0-4 | 8-5 | 1-5 | 14-5 | 2-5 | |
| 26 | 2 36-5 | 2 36-9 | 2 29-4 | 2-6 | 0-5 | 8-6 | 1-5 | 14-6 | 2-6 | |
| 27 | 2 36-8 | 2 37-2 | 2 29-6 | 2-7 | 0-5 | 8-7 | 1-5 | 14-7 | 2-6 | |
| 28 | 2 37-0 | 2 37-4 | 2 29-8 | 2-8 | 0-5 | 8-8 | 1-5 | 14-8 | 2-6 | |
| 29 | 2 37-3 | 2 37-7 | 2 30-1 | 2-9 | 0-5 | 8-9 | 1-6 | 14-9 | 2-6 | |
| 30 | 2 37-5 | 2 37-9 | 2 30-3 | 3-0 | 0-5 | 9-0 | 1-6 | 15-0 | 2-6 | |
| 31 | 2 37-8 | 2 38-2 | 2 30-6 | 3-1 | 0-5 | 9-1 | 1-6 | 15-1 | 2-6 | |
| 32 | 2 38-0 | 2 38-4 | 2 30-8 | 3-2 | 0-6 | 9-2 | 1-6 | 15-2 | 2-7 | |
| 33 | 2 38-3 | 2 38-7 | 2 31-0 | 3-3 | 0-6 | 9-3 | 1-6 | 15-3 | 2-7 | |
| 34 | 2 38-5 | 2 38-9 | 2 31-3 | 3-4 | 0-6 | 9-4 | 1-6 | 15-4 | 2-7 | |
| 35 | 2 38-8 | 2 39-2 | 2 31-5 | 3-5 | 0-6 | 9-5 | 1-7 | 15-5 | 2-7 | |
| 36 | 2 39-0 | 2 39-4 | 2 31-8 | 3-6 | 0-6 | 9-6 | 1-7 | 15-6 | 2-7 | |
| 37 | 2 39-3 | 2 39-7 | 2 32-0 | 3-7 | 0-6 | 9-7 | 1-7 | 15-7 | 2-7 | |
| 38 | 2 39-5 | 2 39-9 | 2 32-2 | 3-8 | 0-7 | 9-8 | 1-7 | 15-8 | 2-8 | |
| 39 | 2 39-8 | 2 40-2 | 2 32-5 | 3-9 | 0-7 | 9-9 | 1-7 | 15-9 | 2-8 | |
| 40 | 2 40-0 | 2 40-4 | 2 32-7 | 4-0 | 0-7 | 10-0 | 1-8 | 16-0 | 2-8 | |
| 41 | 2 40-3 | 2 40-7 | 2 32-9 | 4-1 | 0-7 | 10-1 | 1-8 | 16-1 | 2-8 | |
| 42 | 2 40-5 | 2 40-9 | 2 33-2 | 4-2 | 0-7 | 10-2 | 1-8 | 16-2 | 2-8 | |
| 43 | 2 40-8 | 2 41-2 | 2 33-4 | 4-3 | 0-8 | 10-3 | 1-8 | 16-3 | 2-9 | |
| 44 | 2 41-0 | 2 41-4 | 2 33-7 | 4-4 | 0-8 | 10-4 | 1-8 | 16-4 | 2-9 | |
| 45 | 2 41-3 | 2 41-7 | 2 33-9 | 4-5 | 0-8 | 10-5 | 1-8 | 16-5 | 2-9 | |
| 46 | 2 41-5 | 2 41-9 | 2 34-1 | 4-6 | 0-8 | 10-6 | 1-9 | 16-6 | 2-9 | |
| 47 | 2 41-8 | 2 42-2 | 2 34-4 | 4-7 | 0-8 | 10-7 | 1-9 | 16-7 | 2-9 | |
| 48 | 2 42-0 | 2 42-4 | 2 34-6 | 4-8 | 0-8 | 10-8 | 1-9 | 16-8 | 2-9 | |
| 49 | 2 42-3 | 2 42-7 | 2 34-9 | 4-9 | 0-9 | 10-9 | 1-9 | 16-9 | 3-0 | |
| 50 | 2 42-5 | 2 42-9 | 2 35-1 | 5-0 | 0-9 | 11-0 | 1-9 | 17-0 | 3-0 | |
| 51 | 2 42-8 | 2 43-2 | 2 35-3 | 5-1 | 0-9 | 11-1 | 1-9 | 17-1 | 3-0 | |
| 52 | 2 43-0 | 2 43-4 | 2 35-6 | 5-2 | 0-9 | 11-2 | 2-0 | 17-2 | 3-0 | |
| 53 | 2 43-3 | 2 43-7 | 2 35-8 | 5-3 | 0-9 | 11-3 | 2-0 | 17-3 | 3-0 | |
| 54 | 2 43-5 | 2 43-9 | 2 36-1 | 5-4 | 0-9 | 11-4 | 2-0 | 17-4 | 3-0 | |
| 55 | 2 43-8 | 2 44-2 | 2 36-3 | 5-5 | 1-0 | 11-5 | 2-0 | 17-5 | 3-1 | |
| 56 | 2 44-0 | 2 44-4 | 2 36-5 | 5-6 | 1-0 | 11-6 | 2-0 | 17-6 | 3-1 | |
| 57 | 2 44-3 | 2 44-7 | 2 36-8 | 5-7 | 1-0 | 11-7 | 2-0 | 17-7 | 3-1 | |
| 58 | 2 44-5 | 2 45-0 | 2 37-0 | 5-8 | 1-0 | 11-8 | 2-1 | 17-8 | 3-1 | |
| 59 | 2 44-8 | 2 45-2 | 2 37-2 | 5-9 | 1-0 | 11-9 | 2-1 | 17-9 | 3-1 | |
| 60 | 2 45-0 | 2 45-5 | 2 37-5 | 6-0 | 1-1 | 12-0 | 2-1 | 18-0 | 3-2 | |

| 11 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|--------|--------|------|----------------------------------|------|----------------------------------|------|----------------------------------|-----|
| | s | o / | | | o / | o / | / / | / / | / / | / / |
| 00 | 2 45-0 | 2 45-5 | 2 37-5 | 0-0 | 0-0 | 6-0 | 1-2 | 12-0 | 2-3 | |
| 01 | 2 45-3 | 2 45-7 | 2 37-7 | 0-1 | 0-0 | 6-1 | 1-2 | 12-1 | 2-3 | |
| 02 | 2 45-5 | 2 46-0 | 2 38-0 | 0-2 | 0-0 | 6-2 | 1-2 | 12-2 | 2-3 | |
| 03 | 2 45-8 | 2 46-2 | 2 38-2 | 0-3 | 0-1 | 6-3 | 1-2 | 12-3 | 2-4 | |
| 04 | 2 46-0 | 2 46-5 | 2 38-4 | 0-4 | 0-1 | 6-4 | 1-2 | 12-4 | 2-4 | |
| 05 | 2 46-3 | 2 46-7 | 2 38-7 | 0-5 | 0-1 | 6-5 | 1-2 | 12-5 | 2-4 | |
| 06 | 2 46-5 | 2 47-0 | 2 38-9 | 0-6 | 0-1 | 6-6 | 1-3 | 12-6 | 2-4 | |
| 07 | 2 46-8 | 2 47-2 | 2 39-2 | 0-7 | 0-1 | 6-7 | 1-3 | 12-7 | 2-4 | |
| 08 | 2 47-0 | 2 47-5 | 2 39-4 | 0-8 | 0-2 | 6-8 | 1-3 | 12-8 | 2-5 | |
| 09 | 2 47-3 | 2 47-7 | 2 39-6 | 0-9 | 0-2 | 6-9 | 1-3 | 12-9 | 2-5 | |
| 10 | 2 47-5 | 2 48-0 | 2 39-9 | 1-0 | 0-2 | 7-0 | 1-3 | 13-0 | 2-5 | |
| 11 | 2 47-8 | 2 48-2 | 2 40-1 | 1-1 | 0-2 | 7-1 | 1-4 | 13-1 | 2-5 | |
| 12 | 2 48-0 | 2 48-5 | 2 40-3 | 1-2 | 0-2 | 7-2 | 1-4 | 13-2 | 2-5 | |
| 13 | 2 48-3 | 2 48-7 | 2 40-6 | 1-3 | 0-2 | 7-3 | 1-4 | 13-3 | 2-5 | |
| 14 | 2 48-5 | 2 49-0 | 2 40-8 | 1-4 | 0-3 | 7-4 | 1-4 | 13-4 | 2-6 | |
| 15 | 2 48-8 | 2 49-2 | 2 41-1 | 1-5 | 0-3 | 7-5 | 1-4 | 13-5 | 2-6 | |
| 16 | 2 49-0 | 2 49-5 | 2 41-3 | 1-6 | 0-3 | 7-6 | 1-5 | 13-6 | 2-6 | |
| 17 | 2 49-3 | 2 49-7 | 2 41-5 | 1-7 | 0-3 | 7-7 | 1-5 | 13-7 | 2-6 | |
| 18 | 2 49-5 | 2 50-0 | 2 41-8 | 1-8 | 0-3 | 7-8 | 1-5 | 13-8 | 2-6 | |
| 19 | 2 49-8 | 2 50-2 | 2 42-0 | 1-9 | 0-4 | 7-9 | 1-5 | 13-9 | 2-7 | |
| 20 | 2 50-0 | 2 50-5 | 2 42-3 | 2-0 | 0-4 | 8-0 | 1-5 | 14-0 | 2-7 | |
| 21 | 2 50-3 | 2 50-7 | 2 42-5 | 2-1 | 0-4 | 8-1 | 1-6 | 14-1 | 2-7 | |
| 22 | 2 50-5 | 2 51-0 | 2 42-7 | 2-2 | 0-4 | 8-2 | 1-6 | 14-2 | 2-7 | |
| 23 | 2 50-8 | 2 51-2 | 2 43-0 | 2-3 | 0-4 | 8-3 | 1-6 | 14-3 | 2-7 | |
| 24 | 2 51-0 | 2 51-5 | 2 43-2 | 2-4 | 0-5 | 8-4 | 1-6 | 14-4 | 2-8 | |
| 25 | 2 51-3 | 2 51-7 | 2 43-4 | 2-5 | 0-5 | 8-5 | 1-6 | 14-5 | 2-8 | |
| 26 | 2 51-5 | 2 52-0 | 2 43-7 | 2-6 | 0-5 | 8-6 | 1-6 | 14-6 | 2-8 | |
| 27 | 2 51-8 | 2 52-2 | 2 43-9 | 2-7 | 0-5 | 8-7 | 1-7 | 14-7 | 2-8 | |
| 28 | 2 52-0 | 2 52-5 | 2 44-2 | 2-8 | 0-5 | 8-8 | 1-7 | 14-8 | 2-8 | |
| 29 | 2 52-3 | 2 52-7 | 2 44-4 | 2-9 | 0-6 | 8-9 | 1-7 | 14-9 | 2-9 | |
| 30 | 2 52-5 | 2 53-0 | 2 44-6 | 3-0 | 0-6 | 9-0 | 1-7 | 15-0 | 2-9 | |
| 31 | 2 52-8 | 2 53-2 | 2 44-9 | 3-1 | 0-6 | 9-1 | 1-7 | 15-1 | 2-9 | |
| 32 | 2 53-0 | 2 53-5 | 2 45-1 | 3-2 | 0-6 | 9-2 | 1-8 | 15-2 | 2-9 | |
| 33 | 2 53-3 | 2 53-7 | 2 45-4 | 3-3 | 0-6 | 9-3 | 1-8 | 15-3 | 2-9 | |
| 34 | 2 53-5 | 2 54-0 | 2 45-6 | 3-4 | 0-7 | 9-4 | 1-8 | 15-4 | 3-0 | |
| 35 | 2 53-8 | 2 54-2 | 2 45-8 | 3-5 | 0-7 | 9-5 | 1-8 | 15-5 | 3-0 | |
| 36 | 2 54-0 | 2 54-5 | 2 46-1 | 3-6 | 0-7 | 9-6 | 1-8 | 15-6 | 3-0 | |
| 37 | 2 54-3 | 2 54-7 | 2 46-3 | 3-7 | 0-7 | 9-7 | 1-9 | 15-7 | 3-0 | |
| 38 | 2 54-5 | 2 55-0 | 2 46-6 | 3-8 | 0-7 | 9-8 | 1-9 | 15-8 | 3-0 | |
| 39 | 2 54-8 | 2 55-2 | 2 46-8 | 3-9 | 0-7 | 9-9 | 1-9 | 15-9 | 3-0 | |
| 40 | 2 55-0 | 2 55-5 | 2 47-0 | 4-0 | 0-8 | 10-0 | 1-9 | 16-0 | 3-1 | |
| 41 | 2 55-3 | 2 55-7 | 2 47-3 | 4-1 | 0-8 | 10-1 | 1-9 | 16-1 | 3-1 | |
| 42 | 2 55-5 | 2 56-0 | 2 47-5 | 4-2 | 0-8 | 10-2 | 2-0 | 16-2 | 3-1 | |
| 43 | 2 55-8 | 2 56-2 | 2 47-7 | 4-3 | 0-8 | 10-3 | 2-0 | 16-3 | 3-1 | |
| 44 | 2 56-0 | 2 56-5 | 2 48-0 | 4-4 | 0-8 | 10-4 | 2-0 | 16-4 | 3-1 | |
| 45 | 2 56-3 | 2 56-7 | 2 48-2 | 4-5 | 0-9 | 10-5 | 2-0 | 16-5 | 3-2 | |
| 46 | 2 56-5 | 2 57-0 | 2 48-5 | 4-6 | 0-9 | 10-6 | 2-0 | 16-6 | 3-2 | |
| 47 | 2 56-8 | 2 57-2 | 2 48-7 | 4-7 | 0-9 | 10-7 | 2-1 | 16-7 | 3-2 | |
| 48 | 2 57-0 | 2 57-5 | 2 48-9 | 4-8 | 0-9 | 10-8 | 2-1 | 16-8 | 3-2 | |
| 49 | 2 57-3 | 2 57-7 | 2 49-2 | 4-9 | 0-9 | 10-9 | 2-1 | 16-9 | 3-2 | |
| 50 | 2 57-5 | 2 58-0 | 2 49-4 | 5-0 | 1-0 | 11-0 | 2-1 | 17-0 | 3-3 | |
| 51 | 2 57-8 | 2 58-2 | 2 49-7 | 5-1 | 1-0 | 11-1 | 2-1 | 17-1 | 3-3 | |
| 52 | 2 58-0 | 2 58-5 | 2 49-9 | 5-2 | 1-0 | 11-2 | 2-1 | 17-2 | 3-3 | |
| 53 | 2 58-3 | 2 58-7 | 2 50-1 | 5-3 | 1-0 | 11-3 | 2-2 | 17-3 | 3-3 | |
| 54 | 2 58-5 | 2 59-0 | 2 50-4 | 5-4 | 1-0 | 11-4 | 2-2 | 17-4 | 3-3 | |
| 55 | 2 58-8 | 2 59-2 | 2 50-6 | 5-5 | 1-1 | 11-5 | 2-2 | 17-5 | 3-4 | |
| 56 | 2 59-0 | 2 59-5 | 2 50-8 | 5-6 | 1-1 | 11-6 | 2-2 | 17-6 | 3-4 | |
| 57 | 2 59-3 | 2 59-7 | 2 51-1 | 5-7 | 1-1 | 11-7 | 2-2 | 17-7 | 3-4 | |
| 58 | 2 59-5 | 3 00-0 | 2 51-3 | 5-8 | | | | | | |

| 12 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|-----|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | / | / | / | / | / | / |
| 00 | 3 00-0 | | 3 00-5 | 2 51-8 | 0-0 | 0-0 | 6-0 | 1-3 | 12-0 | 2-5 |
| 01 | 3 00-3 | | 3 00-7 | 2 52-0 | 0-1 | 0-0 | 6-1 | 1-3 | 12-1 | 2-5 |
| 02 | 3 00-5 | | 3 01-0 | 2 52-3 | 0-2 | 0-0 | 6-2 | 1-3 | 12-2 | 2-5 |
| 03 | 3 00-8 | | 3 01-2 | 2 52-5 | 0-3 | 0-1 | 6-3 | 1-3 | 12-3 | 2-6 |
| 04 | 3 01-0 | | 3 01-5 | 2 52-8 | 0-4 | 0-1 | 6-4 | 1-3 | 12-4 | 2-6 |
| 05 | 3 01-3 | | 3 01-7 | 2 53-0 | 0-5 | 0-1 | 6-5 | 1-4 | 12-5 | 2-6 |
| 06 | 3 01-5 | | 3 02-0 | 2 53-2 | 0-6 | 0-1 | 6-6 | 1-4 | 12-6 | 2-6 |
| 07 | 3 01-8 | | 3 02-2 | 2 53-5 | 0-7 | 0-1 | 6-7 | 1-4 | 12-7 | 2-6 |
| 08 | 3 02-0 | | 3 02-5 | 2 53-7 | 0-8 | 0-2 | 6-8 | 1-4 | 12-8 | 2-7 |
| 09 | 3 02-3 | | 3 02-7 | 2 53-9 | 0-9 | 0-2 | 6-9 | 1-4 | 12-9 | 2-7 |
| 10 | 3 02-5 | | 3 03-0 | 2 54-2 | 1-0 | 0-2 | 7-0 | 1-5 | 13-0 | 2-7 |
| 11 | 3 02-8 | | 3 03-3 | 2 54-4 | 1-1 | 0-2 | 7-1 | 1-5 | 13-1 | 2-7 |
| 12 | 3 03-0 | | 3 03-5 | 2 54-7 | 1-2 | 0-3 | 7-2 | 1-5 | 13-2 | 2-8 |
| 13 | 3 03-3 | | 3 03-8 | 2 54-9 | 1-3 | 0-3 | 7-3 | 1-5 | 13-3 | 2-8 |
| 14 | 3 03-5 | | 3 04-0 | 2 55-1 | 1-4 | 0-3 | 7-4 | 1-5 | 13-4 | 2-8 |
| 15 | 3 03-8 | | 3 04-3 | 2 55-4 | 1-5 | 0-3 | 7-5 | 1-6 | 13-5 | 2-8 |
| 16 | 3 04-0 | | 3 04-5 | 2 55-6 | 1-6 | 0-3 | 7-6 | 1-6 | 13-6 | 2-8 |
| 17 | 3 04-3 | | 3 04-8 | 2 55-9 | 1-7 | 0-4 | 7-7 | 1-6 | 13-7 | 2-9 |
| 18 | 3 04-5 | | 3 05-0 | 2 56-1 | 1-8 | 0-4 | 7-8 | 1-6 | 13-8 | 2-9 |
| 19 | 3 04-8 | | 3 05-3 | 2 56-3 | 1-9 | 0-4 | 7-9 | 1-6 | 13-9 | 2-9 |
| 20 | 3 05-0 | | 3 05-5 | 2 56-6 | 2-0 | 0-4 | 8-0 | 1-7 | 14-0 | 2-9 |
| 21 | 3 05-3 | | 3 05-8 | 2 56-8 | 2-1 | 0-4 | 8-1 | 1-7 | 14-1 | 2-9 |
| 22 | 3 05-5 | | 3 06-0 | 2 57-0 | 2-2 | 0-5 | 8-2 | 1-7 | 14-2 | 3-0 |
| 23 | 3 05-8 | | 3 06-3 | 2 57-3 | 2-3 | 0-5 | 8-3 | 1-7 | 14-3 | 3-0 |
| 24 | 3 06-0 | | 3 06-5 | 2 57-5 | 2-4 | 0-5 | 8-4 | 1-8 | 14-4 | 3-0 |
| 25 | 3 06-3 | | 3 06-8 | 2 57-8 | 2-5 | 0-5 | 8-5 | 1-8 | 14-5 | 3-0 |
| 26 | 3 06-5 | | 3 07-0 | 2 58-0 | 2-6 | 0-5 | 8-6 | 1-8 | 14-6 | 3-0 |
| 27 | 3 06-8 | | 3 07-3 | 2 58-2 | 2-7 | 0-6 | 8-7 | 1-8 | 14-7 | 3-1 |
| 28 | 3 07-0 | | 3 07-5 | 2 58-5 | 2-8 | 0-6 | 8-8 | 1-8 | 14-8 | 3-1 |
| 29 | 3 07-3 | | 3 07-8 | 2 58-7 | 2-9 | 0-6 | 8-9 | 1-9 | 14-9 | 3-1 |
| 30 | 3 07-5 | | 3 08-0 | 2 59-0 | 3-0 | 0-6 | 9-0 | 1-9 | 15-0 | 3-1 |
| 31 | 3 07-8 | | 3 08-3 | 2 59-2 | 3-1 | 0-6 | 9-1 | 1-9 | 15-1 | 3-1 |
| 32 | 3 08-0 | | 3 08-5 | 2 59-4 | 3-2 | 0-7 | 9-2 | 1-9 | 15-2 | 3-2 |
| 33 | 3 08-3 | | 3 08-8 | 2 59-7 | 3-3 | 0-7 | 9-3 | 1-9 | 15-3 | 3-2 |
| 34 | 3 08-5 | | 3 09-0 | 2 59-9 | 3-4 | 0-7 | 9-4 | 2-0 | 15-4 | 3-2 |
| 35 | 3 08-8 | | 3 09-3 | 3 00-2 | 3-5 | 0-7 | 9-5 | 2-0 | 15-5 | 3-2 |
| 36 | 3 09-0 | | 3 09-5 | 3 00-4 | 3-6 | 0-8 | 9-6 | 2-0 | 15-6 | 3-3 |
| 37 | 3 09-3 | | 3 09-8 | 3 00-6 | 3-7 | 0-8 | 9-7 | 2-0 | 15-7 | 3-3 |
| 38 | 3 09-5 | | 3 10-0 | 3 00-9 | 3-8 | 0-8 | 9-8 | 2-0 | 15-8 | 3-3 |
| 39 | 3 09-8 | | 3 10-3 | 3 01-1 | 3-9 | 0-8 | 9-9 | 2-1 | 15-9 | 3-3 |
| 40 | 3 10-0 | | 3 10-5 | 3 01-3 | 4-0 | 0-8 | 10-0 | 2-1 | 16-0 | 3-3 |
| 41 | 3 10-3 | | 3 10-8 | 3 01-6 | 4-1 | 0-9 | 10-1 | 2-1 | 16-1 | 3-4 |
| 42 | 3 10-5 | | 3 11-0 | 3 01-8 | 4-2 | 0-9 | 10-2 | 2-1 | 16-2 | 3-4 |
| 43 | 3 10-8 | | 3 11-3 | 3 02-1 | 4-3 | 0-9 | 10-3 | 2-1 | 16-3 | 3-4 |
| 44 | 3 11-0 | | 3 11-5 | 3 02-3 | 4-4 | 0-9 | 10-4 | 2-2 | 16-4 | 3-4 |
| 45 | 3 11-3 | | 3 11-8 | 3 02-5 | 4-5 | 0-9 | 10-5 | 2-2 | 16-5 | 3-4 |
| 46 | 3 11-5 | | 3 12-0 | 3 02-8 | 4-6 | 1-0 | 10-6 | 2-2 | 16-6 | 3-5 |
| 47 | 3 11-8 | | 3 12-3 | 3 03-0 | 4-7 | 1-0 | 10-7 | 2-2 | 16-7 | 3-5 |
| 48 | 3 12-0 | | 3 12-5 | 3 03-3 | 4-8 | 1-0 | 10-8 | 2-3 | 16-8 | 3-5 |
| 49 | 3 12-3 | | 3 12-8 | 3 03-5 | 4-9 | 1-0 | 10-9 | 2-3 | 16-9 | 3-5 |
| 50 | 3 12-5 | | 3 13-0 | 3 03-7 | 5-0 | 1-0 | 11-0 | 2-3 | 17-0 | 3-5 |
| 51 | 3 12-8 | | 3 13-3 | 3 04-0 | 5-1 | 1-1 | 11-1 | 2-3 | 17-1 | 3-6 |
| 52 | 3 13-0 | | 3 13-5 | 3 04-2 | 5-2 | 1-1 | 11-2 | 2-3 | 17-2 | 3-6 |
| 53 | 3 13-3 | | 3 13-8 | 3 04-4 | 5-3 | 1-1 | 11-3 | 2-4 | 17-3 | 3-6 |
| 54 | 3 13-5 | | 3 14-0 | 3 04-7 | 5-4 | 1-1 | 11-4 | 2-4 | 17-4 | 3-6 |
| 55 | 3 13-8 | | 3 14-3 | 3 04-9 | 5-5 | 1-1 | 11-5 | 2-4 | 17-5 | 3-6 |
| 56 | 3 14-0 | | 3 14-5 | 3 05-2 | 5-6 | 1-2 | 11-6 | 2-4 | 17-6 | 3-7 |
| 57 | 3 14-3 | | 3 14-8 | 3 05-4 | 5-7 | 1-2 | 11-7 | 2-4 | 17-7 | 3-7 |
| 58 | 3 14-5 | | 3 15-0 | 3 05-6 | 5-8 | 1-2 | 11-8 | 2-5 | 17-8 | 3-7 |
| 59 | 3 14-8 | | 3 15-3 | 3 05-9 | 5-9 | 1-2 | 11-9 | 2-5 | 17-9 | 3-7 |
| 60 | 3 15-0 | | 3 15-5 | 3 06-1 | 6-0 | 1-3 | 12-0 | 2-5 | 18-0 | 3-8 |

| 13 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|-----|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | / | / | / | / | / | / |
| 00 | 3 15-0 | | 3 15-5 | 3 06-1 | 0-0 | 0-0 | 6-0 | 1-4 | 12-0 | 2-7 |
| 01 | 3 15-3 | | 3 15-8 | 3 06-4 | 0-1 | 0-0 | 6-1 | 1-4 | 12-1 | 2-7 |
| 02 | 3 15-5 | | 3 16-0 | 3 06-6 | 0-2 | 0-0 | 6-2 | 1-4 | 12-2 | 2-7 |
| 03 | 3 15-8 | | 3 16-3 | 3 06-8 | 0-3 | 0-1 | 6-3 | 1-4 | 12-3 | 2-8 |
| 04 | 3 16-0 | | 3 16-5 | 3 07-1 | 0-4 | 0-1 | 6-4 | 1-4 | 12-4 | 2-8 |
| 05 | 3 16-3 | | 3 16-8 | 3 07-3 | 0-5 | 0-1 | 6-5 | 1-5 | 12-5 | 2-8 |
| 06 | 3 16-5 | | 3 17-0 | 3 07-5 | 0-6 | 0-1 | 6-6 | 1-5 | 12-6 | 2-8 |
| 07 | 3 16-8 | | 3 17-3 | 3 07-8 | 0-7 | 0-2 | 6-7 | 1-5 | 12-7 | 2-9 |
| 08 | 3 17-0 | | 3 17-5 | 3 08-0 | 0-8 | 0-2 | 6-8 | 1-5 | 12-8 | 2-9 |
| 09 | 3 17-3 | | 3 17-8 | 3 08-3 | 0-9 | 0-2 | 6-9 | 1-6 | 12-9 | 2-9 |
| 10 | 3 17-5 | | 3 18-0 | 3 08-5 | 1-0 | 0-2 | 7-0 | 1-6 | 13-0 | 2-9 |
| 11 | 3 17-8 | | 3 18-3 | 3 08-7 | 1-1 | 0-2 | 7-1 | 1-6 | 13-1 | 2-9 |
| 12 | 3 18-0 | | 3 18-5 | 3 09-0 | 1-2 | 0-3 | 7-2 | 1-6 | 13-2 | 3-0 |
| 13 | 3 18-3 | | 3 18-8 | 3 09-2 | 1-3 | 0-3 | 7-3 | 1-6 | 13-3 | 3-0 |
| 14 | 3 18-5 | | 3 19-0 | 3 09-5 | 1-4 | 0-3 | 7-4 | 1-7 | 13-4 | 3-0 |
| 15 | 3 18-8 | | 3 19-3 | 3 09-7 | 1-5 | 0-3 | 7-5 | 1-7 | 13-5 | 3-0 |
| 16 | 3 19-0 | | 3 19-5 | 3 09-9 | 1-6 | 0-4 | 7-6 | 1-7 | 13-6 | 3-1 |
| 17 | 3 19-3 | | 3 19-8 | 3 10-2 | 1-7 | 0-4 | 7-7 | 1-7 | 13-7 | 3-1 |
| 18 | 3 19-5 | | 3 20-0 | 3 10-4 | 1-8 | 0-4 | 7-8 | 1-8 | 13-8 | 3-1 |
| 19 | 3 19-8 | | 3 20-3 | 3 10-7 | 1-9 | 0-4 | 7-9 | 1-8 | 13-9 | 3-1 |
| 20 | 3 20-0 | | 3 20-5 | 3 10-9 | 2-0 | 0-5 | 8-0 | 1-8 | 14-0 | 3-2 |
| 21 | 3 20-3 | | 3 20-8 | 3 11-1 | 2-1 | 0-5 | 8-1 | 1-8 | 14-1 | 3-2 |
| 22 | 3 20-5 | | 3 21-0 | 3 11-4 | 2-2 | 0-5 | 8-2 | 1-8 | 14-2 | 3-2 |
| 23 | 3 20-8 | | 3 21-3 | 3 11-6 | 2-3 | 0-5 | 8-3 | 1-9 | 14-3 | 3-2 |
| 24 | 3 21-0 | | 3 21-6 | 3 11-8 | 2-4 | 0-5 | 8-4 | 1-9 | 14-4 | 3-2 |
| 25 | 3 21-3 | | 3 21-8 | 3 12-1 | 2-5 | 0-6 | 8-5 | 1-9 | 14-5 | 3-3 |
| 26 | 3 21-5 | | 3 22-1 | 3 12-3 | 2-6 | 0-6 | 8-6 | 1-9 | 14-6 | 3-3 |
| 27 | 3 21-8 | | 3 22-3 | 3 12-6 | 2-7 | 0-6 | 8-7 | 2-0 | 14-7 | 3-3 |
| 28 | 3 22-0 | | 3 22-6 | 3 12-8 | 2-8 | 0-6 | 8-8 | 2-0 | 14-8 | 3-3 |
| 29 | 3 22-3 | | 3 22-8 | 3 13-0 | 2-9 | 0-7 | 8-9 | 2-0 | 14-9 | 3-4 |
| 30 | 3 22-5 | | 3 23-1 | 3 13-3 | 3-0 | 0-7 | 9-0 | 2-0 | 15-0 | 3-4 |
| 31 | 3 22-8 | | 3 23-3 | 3 13-5 | 3-1 | 0-7 | 9-1 | 2-0 | 15-1 | 3-4 |
| 32 | 3 23-0 | | 3 23-6 | 3 13-8 | 3-2 | 0-7 | 9-2 | 2-1 | 15-2 | 3-4 |
| 33 | 3 23-3 | | 3 23-8 | 3 14-0 | 3-3 | 0-7 | 9-3 | 2-1 | 15-3 | 3-4 |
| 34 | 3 23-5 | | 3 24-1 | 3 14-2 | 3-4 | 0-8 | 9-4 | 2-1 | 15-4 | 3-5 |
| 35 | 3 23-8 | | 3 24-3 | 3 14-5 | 3-5 | 0-8 | 9-5 | 2-1 | 15-5 | 3-5 |
| 36 | 3 24-0 | | 3 24-6 | 3 14-7 | 3-6 | 0-8 | 9-6 | 2-2 | 15-6 | 3-5 |
| 37 | 3 24-3 | | 3 24-8 | 3 14-9 | 3-7 | 0-8 | 9-7 | 2-2 | 15-7 | 3-5 |
| 38 | 3 24-5 | | 3 25-1 | 3 15-2 | 3-8 | 0-9 | 9-8 | 2-2 | 15-8 | 3-6 |
| 39 | 3 24-8 | | 3 25-3 | 3 15-4 | 3-9 | 0-9 | 9-9 | 2-2 | 15-9 | 3-6 |
| 40 | 3 25-0 | | 3 25-6 | 3 15-7 | 4-0 | 0-9 | 10-0 | 2-3 | 16-0 | 3-6 |
| 41 | 3 25-3 | | 3 25-8 | 3 15-9 | 4-1 | 0-9 | 10-1 | 2-3 | 16-1 | 3-6 |
| 42 | 3 25-5 | | 3 26-1 | 3 16-1 | 4-2 | 0-9 | 10-2 | 2-3 | 16-2 | 3-6 |
| 43 | 3 25-8 | | 3 26-3 | 3 16-4 | 4-3 | 1-0 | 10-3 | 2-3 | 16-3 | 3-7 |
| 44 | 3 26-0 | | 3 26-6 | 3 16-6 | 4-4 | 1-0 | 10-4 | 2-3 | 16-4 | 3-7 |
| 45 | 3 26-3 | | 3 26-8 | 3 16-9 | 4-5 | 1-0 | 10-5 | 2-4 | 16-5 | 3-7 |
| 46 | 3 26-5 | | 3 27-1 | 3 17-1 | 4-6 | 1-0 | 10-6 | 2-4 | 16-6 | 3-7 |
| 47 | 3 26-8 | | 3 27-3 | 3 17-3 | 4-7 | 1-1 | 10-7 | 2-4 | 16-7 | 3-8 |
| 48 | 3 27-0 | | 3 27-6 | 3 17-6 | 4-8 | 1-1 | 10-8 | 2-4 | 16-8 | 3-8 |
| 49 | 3 27-3 | | 3 27-8 | 3 17-8 | 4-9 | 1-1 | 10-9 | 2-5 | 16-9 | 3-8 |
| 50 | 3 27-5 | | 3 28-1 | 3 18-0 | 5-0 | 1-1 | 11-0 | 2-5 | 17-0 | 3-8 |
| 51 | 3 27-8 | | 3 28-3 | 3 18-3 | 5-1 | 1-1 | 11-1 | 2-5 | 17-1 | 3-8 |
| 52 | 3 28-0 | | 3 28-6 | 3 18-5 | 5-2 | 1-2 | 11-2 | 2-5 | 17-2 | 3-9 |
| 53 | 3 28-3 | | 3 28-8 | 3 18-8 | 5-3 | 1-2 | 11-3 | 2-5 | 17-3 | 3-9 |
| 54 | 3 28-5 | | 3 29-1 | 3 19-0 | 5-4 | 1-2 | 11-4 | 2-6 | 17-4 | 3-9 |
| 55 | 3 28-8 | | 3 29-3 | 3 19-2 | 5-5 | 1-2 | 11-5 | 2-6 | 17-5 | 3-9 |
| 56 | 3 29-0 | | 3 29-6 | 3 19-5 | 5-6 | 1-3 | 11-6 | 2-6 | 17-6 | 4-0 |
| 57 | 3 29-3 | | 3 29-8 | 3 19-7 | 5-7 | 1-3 | 11-7 | 2-6 | 17-7 | 4-0 |
| 58 | 3 29-5 | | 3 30-1 | 3 20-0 | 5-8 | 1-3 | | | | |

| 14 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | | 15 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | | | | | |
|-----------------|--------------|------|-------|------|----------------------------------|------|----------------------------------|-----|----------------------------------|-----|-----------------|--------------|----|-------|------|----------------------------------|------|----------------------------------|------|----------------------------------|-----|------|-----|------|-----|
| | s | o | ' | o | ' | o | ' | o | ' | o | | ' | s | o | ' | o | ' | o | ' | o | ' | o | ' | | |
| 00 | 3 | 30-0 | 3 | 30-6 | 3 | 20-4 | 0-0 | 0-0 | 6-0 | 1-5 | 12-0 | 2-9 | 00 | 3 | 45-0 | 3 | 45-6 | 3 | 34-8 | 0-0 | 0-0 | 6-0 | 1-6 | 12-0 | 3-1 |
| 01 | 3 | 30-3 | 3 | 30-8 | 3 | 20-7 | 0-1 | 0-0 | 6-1 | 1-5 | 12-1 | 2-9 | 01 | 3 | 45-3 | 3 | 45-9 | 3 | 35-0 | 0-1 | 0-0 | 6-1 | 1-6 | 12-1 | 3-1 |
| 02 | 3 | 30-5 | 3 | 31-1 | 3 | 20-9 | 0-2 | 0-0 | 6-2 | 1-5 | 12-2 | 2-9 | 02 | 3 | 45-5 | 3 | 46-1 | 3 | 35-2 | 0-2 | 0-1 | 6-2 | 1-6 | 12-2 | 3-2 |
| 03 | 3 | 30-8 | 3 | 31-3 | 3 | 21-1 | 0-3 | 0-1 | 6-3 | 1-5 | 12-3 | 3-0 | 03 | 3 | 45-8 | 3 | 46-4 | 3 | 35-5 | 0-3 | 0-1 | 6-3 | 1-6 | 12-3 | 3-2 |
| 04 | 3 | 31-0 | 3 | 31-6 | 3 | 21-4 | 0-4 | 0-1 | 6-4 | 1-5 | 12-4 | 3-0 | 04 | 3 | 46-0 | 3 | 46-6 | 3 | 35-7 | 0-4 | 0-1 | 6-4 | 1-7 | 12-4 | 3-2 |
| 05 | 3 | 31-3 | 3 | 31-8 | 3 | 21-6 | 0-5 | 0-1 | 6-5 | 1-6 | 12-5 | 3-0 | 05 | 3 | 46-3 | 3 | 46-9 | 3 | 35-9 | 0-5 | 0-1 | 6-5 | 1-7 | 12-5 | 3-2 |
| 06 | 3 | 31-5 | 3 | 32-1 | 3 | 21-9 | 0-6 | 0-1 | 6-6 | 1-6 | 12-6 | 3-0 | 06 | 3 | 46-5 | 3 | 47-1 | 3 | 36-2 | 0-6 | 0-2 | 6-6 | 1-7 | 12-6 | 3-3 |
| 07 | 3 | 31-8 | 3 | 32-3 | 3 | 22-1 | 0-7 | 0-2 | 6-7 | 1-6 | 12-7 | 3-1 | 07 | 3 | 46-8 | 3 | 47-4 | 3 | 36-4 | 0-7 | 0-2 | 6-7 | 1-7 | 12-7 | 3-3 |
| 08 | 3 | 32-0 | 3 | 32-6 | 3 | 22-3 | 0-8 | 0-2 | 6-8 | 1-6 | 12-8 | 3-1 | 08 | 3 | 47-0 | 3 | 47-6 | 3 | 36-7 | 0-8 | 0-2 | 6-8 | 1-8 | 12-8 | 3-3 |
| 09 | 3 | 32-3 | 3 | 32-8 | 3 | 22-6 | 0-9 | 0-2 | 6-9 | 1-7 | 12-9 | 3-1 | 09 | 3 | 47-3 | 3 | 47-9 | 3 | 36-9 | 0-9 | 0-2 | 6-9 | 1-8 | 12-9 | 3-3 |
| 10 | 3 | 32-5 | 3 | 33-1 | 3 | 22-8 | 1-0 | 0-2 | 7-0 | 1-7 | 13-0 | 3-1 | 10 | 3 | 47-5 | 3 | 48-1 | 3 | 37-1 | 1-0 | 0-3 | 7-0 | 1-8 | 13-0 | 3-4 |
| 11 | 3 | 32-8 | 3 | 33-3 | 3 | 23-1 | 1-1 | 0-3 | 7-1 | 1-7 | 13-1 | 3-2 | 11 | 3 | 47-8 | 3 | 48-4 | 3 | 37-4 | 1-1 | 0-3 | 7-1 | 1-8 | 13-1 | 3-4 |
| 12 | 3 | 33-0 | 3 | 33-6 | 3 | 23-3 | 1-2 | 0-3 | 7-2 | 1-7 | 13-2 | 3-2 | 12 | 3 | 48-0 | 3 | 48-6 | 3 | 37-6 | 1-2 | 0-3 | 7-2 | 1-9 | 13-2 | 3-4 |
| 13 | 3 | 33-3 | 3 | 33-8 | 3 | 23-5 | 1-3 | 0-3 | 7-3 | 1-8 | 13-3 | 3-2 | 13 | 3 | 48-3 | 3 | 48-9 | 3 | 37-9 | 1-3 | 0-3 | 7-3 | 1-9 | 13-3 | 3-4 |
| 14 | 3 | 33-5 | 3 | 34-1 | 3 | 23-8 | 1-4 | 0-3 | 7-4 | 1-8 | 13-4 | 3-2 | 14 | 3 | 48-5 | 3 | 49-1 | 3 | 38-1 | 1-4 | 0-4 | 7-4 | 1-9 | 13-4 | 3-5 |
| 15 | 3 | 33-8 | 3 | 34-3 | 3 | 24-0 | 1-5 | 0-4 | 7-5 | 1-8 | 13-5 | 3-3 | 15 | 3 | 48-8 | 3 | 49-4 | 3 | 38-3 | 1-5 | 0-4 | 7-5 | 1-9 | 13-5 | 3-5 |
| 16 | 3 | 34-0 | 3 | 34-6 | 3 | 24-3 | 1-6 | 0-4 | 7-6 | 1-8 | 13-6 | 3-3 | 16 | 3 | 49-0 | 3 | 49-6 | 3 | 38-6 | 1-6 | 0-4 | 7-6 | 2-0 | 13-6 | 3-5 |
| 17 | 3 | 34-3 | 3 | 34-8 | 3 | 24-5 | 1-7 | 0-4 | 7-7 | 1-9 | 13-7 | 3-3 | 17 | 3 | 49-3 | 3 | 49-9 | 3 | 38-8 | 1-7 | 0-4 | 7-7 | 2-0 | 13-7 | 3-5 |
| 18 | 3 | 34-5 | 3 | 35-1 | 3 | 24-7 | 1-8 | 0-4 | 7-8 | 1-9 | 13-8 | 3-3 | 18 | 3 | 49-5 | 3 | 50-1 | 3 | 39-0 | 1-8 | 0-5 | 7-8 | 2-0 | 13-8 | 3-6 |
| 19 | 3 | 34-8 | 3 | 35-3 | 3 | 25-0 | 1-9 | 0-5 | 7-9 | 1-9 | 13-9 | 3-4 | 19 | 3 | 49-8 | 3 | 50-4 | 3 | 39-3 | 1-9 | 0-5 | 7-9 | 2-0 | 13-9 | 3-6 |
| 20 | 3 | 35-0 | 3 | 35-6 | 3 | 25-2 | 2-0 | 0-5 | 8-0 | 1-9 | 14-0 | 3-4 | 20 | 3 | 50-0 | 3 | 50-6 | 3 | 39-5 | 2-0 | 0-5 | 8-0 | 2-1 | 14-0 | 3-6 |
| 21 | 3 | 35-3 | 3 | 35-8 | 3 | 25-4 | 2-1 | 0-5 | 8-1 | 2-0 | 14-1 | 3-4 | 21 | 3 | 50-3 | 3 | 50-9 | 3 | 39-8 | 2-1 | 0-5 | 8-1 | 2-1 | 14-1 | 3-6 |
| 22 | 3 | 35-5 | 3 | 36-1 | 3 | 25-7 | 2-2 | 0-5 | 8-2 | 2-0 | 14-2 | 3-4 | 22 | 3 | 50-5 | 3 | 51-1 | 3 | 40-0 | 2-2 | 0-6 | 8-2 | 2-1 | 14-2 | 3-7 |
| 23 | 3 | 35-8 | 3 | 36-3 | 3 | 25-9 | 2-3 | 0-6 | 8-3 | 2-0 | 14-3 | 3-5 | 23 | 3 | 50-8 | 3 | 51-4 | 3 | 40-2 | 2-3 | 0-6 | 8-3 | 2-1 | 14-3 | 3-7 |
| 24 | 3 | 36-0 | 3 | 36-6 | 3 | 26-2 | 2-4 | 0-6 | 8-4 | 2-0 | 14-4 | 3-5 | 24 | 3 | 51-0 | 3 | 51-6 | 3 | 40-5 | 2-4 | 0-6 | 8-4 | 2-2 | 14-4 | 3-7 |
| 25 | 3 | 36-3 | 3 | 36-8 | 3 | 26-4 | 2-5 | 0-6 | 8-5 | 2-1 | 14-5 | 3-5 | 25 | 3 | 51-3 | 3 | 51-9 | 3 | 40-7 | 2-5 | 0-6 | 8-5 | 2-2 | 14-5 | 3-7 |
| 26 | 3 | 36-5 | 3 | 37-1 | 3 | 26-6 | 2-6 | 0-6 | 8-6 | 2-1 | 14-6 | 3-5 | 26 | 3 | 51-5 | 3 | 52-1 | 3 | 41-0 | 2-6 | 0-7 | 8-6 | 2-2 | 14-6 | 3-8 |
| 27 | 3 | 36-8 | 3 | 37-3 | 3 | 26-9 | 2-7 | 0-7 | 8-7 | 2-1 | 14-7 | 3-6 | 27 | 3 | 51-8 | 3 | 52-4 | 3 | 41-2 | 2-7 | 0-7 | 8-7 | 2-2 | 14-7 | 3-8 |
| 28 | 3 | 37-0 | 3 | 37-6 | 3 | 27-1 | 2-8 | 0-7 | 8-8 | 2-1 | 14-8 | 3-6 | 28 | 3 | 52-0 | 3 | 52-6 | 3 | 41-4 | 2-8 | 0-7 | 8-8 | 2-3 | 14-8 | 3-8 |
| 29 | 3 | 37-3 | 3 | 37-8 | 3 | 27-4 | 2-9 | 0-7 | 8-9 | 2-2 | 14-9 | 3-6 | 29 | 3 | 52-3 | 3 | 52-9 | 3 | 41-7 | 2-9 | 0-7 | 8-9 | 2-3 | 14-9 | 3-8 |
| 30 | 3 | 37-5 | 3 | 38-1 | 3 | 27-6 | 3-0 | 0-7 | 9-0 | 2-2 | 15-0 | 3-6 | 30 | 3 | 52-5 | 3 | 53-1 | 3 | 41-9 | 3-0 | 0-8 | 9-0 | 2-3 | 15-0 | 3-9 |
| 31 | 3 | 37-8 | 3 | 38-3 | 3 | 27-8 | 3-1 | 0-7 | 9-1 | 2-2 | 15-1 | 3-6 | 31 | 3 | 52-8 | 3 | 53-4 | 3 | 42-1 | 3-1 | 0-8 | 9-1 | 2-4 | 15-1 | 3-9 |
| 32 | 3 | 38-0 | 3 | 38-6 | 3 | 28-1 | 3-2 | 0-8 | 9-2 | 2-2 | 15-2 | 3-7 | 32 | 3 | 53-0 | 3 | 53-6 | 3 | 42-4 | 3-2 | 0-8 | 9-2 | 2-4 | 15-2 | 3-9 |
| 33 | 3 | 38-3 | 3 | 38-8 | 3 | 28-3 | 3-3 | 0-8 | 9-3 | 2-2 | 15-3 | 3-7 | 33 | 3 | 53-3 | 3 | 53-9 | 3 | 42-6 | 3-3 | 0-9 | 9-3 | 2-4 | 15-3 | 4-0 |
| 34 | 3 | 38-5 | 3 | 39-1 | 3 | 28-5 | 3-4 | 0-8 | 9-4 | 2-3 | 15-4 | 3-7 | 34 | 3 | 53-5 | 3 | 54-1 | 3 | 42-9 | 3-4 | 0-9 | 9-4 | 2-4 | 15-4 | 4-0 |
| 35 | 3 | 38-8 | 3 | 39-3 | 3 | 28-8 | 3-5 | 0-8 | 9-5 | 2-3 | 15-5 | 3-7 | 35 | 3 | 53-8 | 3 | 54-4 | 3 | 43-1 | 3-5 | 0-9 | 9-5 | 2-5 | 15-5 | 4-0 |
| 36 | 3 | 39-0 | 3 | 39-6 | 3 | 29-0 | 3-6 | 0-9 | 9-6 | 2-3 | 15-6 | 3-8 | 36 | 3 | 54-0 | 3 | 54-6 | 3 | 43-3 | 3-6 | 0-9 | 9-6 | 2-5 | 15-6 | 4-0 |
| 37 | 3 | 39-3 | 3 | 39-9 | 3 | 29-3 | 3-7 | 0-9 | 9-7 | 2-3 | 15-7 | 3-8 | 37 | 3 | 54-3 | 3 | 54-9 | 3 | 43-6 | 3-7 | 1-0 | 9-7 | 2-5 | 15-7 | 4-1 |
| 38 | 3 | 39-5 | 3 | 40-1 | 3 | 29-5 | 3-8 | 0-9 | 9-8 | 2-4 | 15-8 | 3-8 | 38 | 3 | 54-5 | 3 | 55-1 | 3 | 43-8 | 3-8 | 1-0 | 9-8 | 2-5 | 15-8 | 4-1 |
| 39 | 3 | 39-8 | 3 | 40-4 | 3 | 29-7 | 3-9 | 0-9 | 9-9 | 2-4 | 15-9 | 3-8 | 39 | 3 | 54-8 | 3 | 55-4 | 3 | 44-1 | 3-9 | 1-0 | 9-9 | 2-6 | 15-9 | 4-1 |
| 40 | 3 | 40-0 | 3 | 40-6 | 3 | 30-0 | 4-0 | 1-0 | 10-0 | 2-4 | 16-0 | 3-9 | 40 | 3 | 55-0 | 3 | 55-6 | 3 | 44-3 | 4-0 | 1-0 | 10-0 | 2-6 | 16-0 | 4-1 |
| 41 | 3 | 40-3 | 3 | 40-9 | 3 | 30-2 | 4-1 | 1-0 | 10-1 | 2-4 | 16-1 | 3-9 | 41 | 3 | 55-3 | 3 | 55-9 | 3 | 44-5 | 4-1 | 1-1 | 10-1 | 2-6 | 16-1 | 4-2 |
| 42 | 3 | 40-5 | 3 | 41-1 | 3 | 30-5 | 4-2 | 1-0 | 10-2 | 2-5 | 16-2 | 3-9 | 42 | 3 | 55-5 | 3 | 56-1 | 3 | 44-8 | 4-2 | 1-1 | 10-2 | 2-6 | 16-2 | 4-2 |
| 43 | 3 | 40-8 | 3 | 41-4 | 3 | 30-7 | 4-3 | 1-0 | 10-3 | 2-5 | 16-3 | 3-9 | 43 | 3 | 55-8 | 3 | 56-4 | 3 | 45-0 | 4-3 | 1-1 | 10-3 | 2-7 | 16-3 | 4-2 |
| 44 | 3 | 41-0 | 3 | 41-6 | 3 | 30-9 | 4-4 | 1-1 | 10-4 | 2-5 | 16-4 | 4-0 | 44 | 3 | 56-0 | 3 | 56-6 | 3 | 45-2 | 4-4 | 1-1 | 10-4 | 2-7 | 16-4 | 4-2 |
| 45 | 3 | 41-3 | 3 | 41-9 | 3 | 31-2 | 4-5 | 1-1 | 10-5 | 2-5 | 16-5 | 4-0 | 45 | 3 | 56-3 | 3 | 56-9 | 3 | 45-5 | 4-5 | 1-2 | 10-5 | 2-7 | 16-5 | 4-3 |
| 46 | 3 | 41-5 | 3 | 42-1 | 3 | 31-4 | 4-6 | 1-1 | 10-6 | 2-6 | 16-6 | 4-0 | 46 | 3 | 56-5 | 3 | 57-1 | 3 | 45-7 | 4-6 | 1-2 | 10-6 | 2-7 | 16-6 | 4-3 |
| 47 | 3 | 41-8 | 3 | 42-4 | 3 | 31-6 | 4-7 | 1-1 | 10-7 | 2-6 | 16-7 | 4-0 | 47 | 3 | 56-8 | 3 | 57-4 | 3 | 46-0 | 4-7 | 1-2 | 10-7 | 2-8 | 16-7 | 4-3 |
| 48 | 3 | 42-0 | 3 | 42-6 | 3 | 31-9 | 4-8 | 1-2 | 10-8 | 2-6 | 16-8 | 4-1 | 48 | 3 | 57-0 | 3 | 57-6 | 3 | 46-2 | 4-8 | 1-2 | 10-8 | 2-8 | 16-8 | 4-3 |
| 49 | 3 | 42-3 | 3 | 42-9 | 3 | 32-1 | 4-9 | 1-2 | 10-9 | 2-6 | 16-9 | 4-1 | 49 | 3 | 57-3 | 3 | 57-9 | 3 | 46-4 | 4-9 | 1-3 | 10-9 | 2-8 | 16-9 | 4-4 |
| 50 | 3 | 42-5 | 3 | 43-1 | 3 | 32-4 | 5-0 | 1-2 | 11-0 | 2-7 | 17-0 | 4-1 | 50 | 3 | 57-5 | 3 | 58-2 | 3 | 46-7 | 5-0 | 1-3 | 11-0 | 2-8 | 17-0 | 4-4 |
| 51 | 3 | 42-8 | 3 | 43-4 | 3 | 32-6 | 5-1 | 1-2 | 11-1 | 2-7 | 17-1 | 4-1 | 51 | 3 | 57-8 | 3 | 58-4 | 3 | 46-9 | 5-1 | 1-3 | 11-1 | 2-9 | 17-1 | 4-4 |
| 52 | 3 | 43-0 | 3 | 43-6 | 3 | 32-8 | 5-2 | 1-3 | 11-2 | 2-7 | 17-2 | 4-2 | 52 | 3 | 58-0 | 3 | 58-7 | 3 | 47-2 | 5-2 | 1-3 | 11-2 | 2-9 | 17-2 | 4-4 |
| 53 | 3 | 43-3 | 3 | 43-9 | 3 | 33-1 | 5-3 | 1-3 | 11-3 | 2-7 | 17-3 | 4-2 | 53 | 3 | 58-3 | 3 | 58-9 | 3 | 47-4 | 5-3 | 1-4 | 11-3 | 2-9 | 17-3 | 4-5 |
| 54 | 3 | 43-5 | 3 | 44-1 | 3 | 33-3 | 5-4 | 1-3 | 11-4 | 2-8 | 17-4 | 4-2 | 54 | 3 | 58-5 | 3 | 59-2 | 3 | 47-6 | 5-4 | 1-4 | 11-4 | 2-9 | 17-4 | 4-5 |
| 55 | 3 | 43-8 | 3 | 44-4 | 3 | 33-6 | 5-5 | 1-3 | 11-5 | 2-8 | 17-5 | 4-2 | 55 | 3 | 58-8 | 3 | 59-4 | 3 | 47-9 | 5-5 | 1-4 | 11-5 | 3-0 | 17-5 | 4-5 |
| 56 | 3 | 44-0 | 3 | 44-6 | 3 | 33-8 | 5-6 | 1-4 | 11-6 | 2-8 | 17-6 | 4-3 | 56 | 3 | 59-0 | 3 | 59-7 | 3 | 48-1 | 5-6 | 1-4 | 11-6 | 3-0 | 17-6 | 4-5 |
| 57 | | | | | | | | | | | | | | | | | | | | | | | | | |

| 16 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | | | | d | ' | d | ' | d | ' |
| 00 | 4 00-0 | 4 00-7 | 3 49-1 | 0-0 | 0-0 | 6-0 | 1-7 | 12-0 | 3-3 |
| 01 | 4 00-3 | 4 00-9 | 3 49-3 | 0-1 | 0-0 | 6-1 | 1-7 | 12-1 | 3-3 |
| 02 | 4 00-5 | 4 01-2 | 3 49-5 | 0-2 | 0-1 | 6-2 | 1-7 | 12-2 | 3-4 |
| 03 | 4 00-8 | 4 01-4 | 3 49-8 | 0-3 | 0-1 | 6-3 | 1-7 | 12-3 | 3-4 |
| 04 | 4 01-0 | 4 01-7 | 3 50-0 | 0-4 | 0-1 | 6-4 | 1-8 | 12-4 | 3-4 |
| 05 | 4 01-3 | 4 01-9 | 3 50-3 | 0-5 | 0-1 | 6-5 | 1-8 | 12-5 | 3-4 |
| 06 | 4 01-5 | 4 02-2 | 3 50-5 | 0-6 | 0-2 | 6-6 | 1-8 | 12-6 | 3-5 |
| 07 | 4 01-8 | 4 02-4 | 3 50-7 | 0-7 | 0-2 | 6-7 | 1-8 | 12-7 | 3-5 |
| 08 | 4 02-0 | 4 02-7 | 3 51-0 | 0-8 | 0-2 | 6-8 | 1-9 | 12-8 | 3-5 |
| 09 | 4 02-3 | 4 02-9 | 3 51-2 | 0-9 | 0-2 | 6-9 | 1-9 | 12-9 | 3-5 |
| 10 | 4 02-5 | 4 03-2 | 3 51-5 | 1-0 | 0-3 | 7-0 | 1-9 | 13-0 | 3-6 |
| 11 | 4 02-8 | 4 03-4 | 3 51-7 | 1-1 | 0-3 | 7-1 | 2-0 | 13-1 | 3-6 |
| 12 | 4 03-0 | 4 03-7 | 3 51-9 | 1-2 | 0-3 | 7-2 | 2-0 | 13-2 | 3-6 |
| 13 | 4 03-3 | 4 03-9 | 3 52-2 | 1-3 | 0-4 | 7-3 | 2-0 | 13-3 | 3-7 |
| 14 | 4 03-5 | 4 04-2 | 3 52-4 | 1-4 | 0-4 | 7-4 | 2-0 | 13-4 | 3-7 |
| 15 | 4 03-8 | 4 04-4 | 3 52-6 | 1-5 | 0-4 | 7-5 | 2-1 | 13-5 | 3-7 |
| 16 | 4 04-0 | 4 04-7 | 3 52-9 | 1-6 | 0-4 | 7-6 | 2-1 | 13-6 | 3-7 |
| 17 | 4 04-3 | 4 04-9 | 3 53-1 | 1-7 | 0-5 | 7-7 | 2-1 | 13-7 | 3-8 |
| 18 | 4 04-5 | 4 05-2 | 3 53-4 | 1-8 | 0-5 | 7-8 | 2-1 | 13-8 | 3-8 |
| 19 | 4 04-8 | 4 05-4 | 3 53-6 | 1-9 | 0-5 | 7-9 | 2-2 | 13-9 | 3-8 |
| 20 | 4 05-0 | 4 05-7 | 3 53-8 | 2-0 | 0-6 | 8-0 | 2-2 | 14-0 | 3-9 |
| 21 | 4 05-3 | 4 05-9 | 3 54-1 | 2-1 | 0-6 | 8-1 | 2-2 | 14-1 | 3-9 |
| 22 | 4 05-5 | 4 06-2 | 3 54-3 | 2-2 | 0-6 | 8-2 | 2-3 | 14-2 | 3-9 |
| 23 | 4 05-8 | 4 06-4 | 3 54-6 | 2-3 | 0-6 | 8-3 | 2-3 | 14-3 | 3-9 |
| 24 | 4 06-0 | 4 06-7 | 3 54-8 | 2-4 | 0-7 | 8-4 | 2-3 | 14-4 | 4-0 |
| 25 | 4 06-3 | 4 06-9 | 3 55-0 | 2-5 | 0-7 | 8-5 | 2-3 | 14-5 | 4-0 |
| 26 | 4 06-5 | 4 07-2 | 3 55-3 | 2-6 | 0-7 | 8-6 | 2-4 | 14-6 | 4-0 |
| 27 | 4 06-8 | 4 07-4 | 3 55-5 | 2-7 | 0-7 | 8-7 | 2-4 | 14-7 | 4-0 |
| 28 | 4 07-0 | 4 07-7 | 3 55-7 | 2-8 | 0-8 | 8-8 | 2-4 | 14-8 | 4-1 |
| 29 | 4 07-3 | 4 07-9 | 3 56-0 | 2-9 | 0-8 | 8-9 | 2-4 | 14-9 | 4-1 |
| 30 | 4 07-5 | 4 08-2 | 3 56-2 | 3-0 | 0-8 | 9-0 | 2-5 | 15-0 | 4-1 |
| 31 | 4 07-8 | 4 08-4 | 3 56-5 | 3-1 | 0-9 | 9-1 | 2-5 | 15-1 | 4-2 |
| 32 | 4 08-0 | 4 08-7 | 3 56-7 | 3-2 | 0-9 | 9-2 | 2-5 | 15-2 | 4-2 |
| 33 | 4 08-3 | 4 08-9 | 3 56-9 | 3-3 | 0-9 | 9-3 | 2-6 | 15-3 | 4-2 |
| 34 | 4 08-5 | 4 09-2 | 3 57-2 | 3-4 | 0-9 | 9-4 | 2-6 | 15-4 | 4-2 |
| 35 | 4 08-8 | 4 09-4 | 3 57-4 | 3-5 | 1-0 | 9-5 | 2-6 | 15-5 | 4-3 |
| 36 | 4 09-0 | 4 09-7 | 3 57-7 | 3-6 | 1-0 | 9-6 | 2-6 | 15-6 | 4-3 |
| 37 | 4 09-3 | 4 09-9 | 3 57-9 | 3-7 | 1-0 | 9-7 | 2-7 | 15-7 | 4-3 |
| 38 | 4 09-5 | 4 10-2 | 3 58-1 | 3-8 | 1-0 | 9-8 | 2-7 | 15-8 | 4-3 |
| 39 | 4 09-8 | 4 10-4 | 3 58-4 | 3-9 | 1-1 | 9-9 | 2-7 | 15-9 | 4-4 |
| 40 | 4 10-0 | 4 10-7 | 3 58-6 | 4-0 | 1-1 | 10-0 | 2-8 | 16-0 | 4-4 |
| 41 | 4 10-3 | 4 10-9 | 3 58-8 | 4-1 | 1-1 | 10-1 | 2-8 | 16-1 | 4-4 |
| 42 | 4 10-5 | 4 11-2 | 3 59-1 | 4-2 | 1-2 | 10-2 | 2-8 | 16-2 | 4-5 |
| 43 | 4 10-8 | 4 11-4 | 3 59-3 | 4-3 | 1-2 | 10-3 | 2-8 | 16-3 | 4-5 |
| 44 | 4 11-0 | 4 11-7 | 3 59-6 | 4-4 | 1-2 | 10-4 | 2-9 | 16-4 | 4-5 |
| 45 | 4 11-3 | 4 11-9 | 3 59-8 | 4-5 | 1-2 | 10-5 | 2-9 | 16-5 | 4-5 |
| 46 | 4 11-5 | 4 12-2 | 4 00-0 | 4-6 | 1-3 | 10-6 | 2-9 | 16-6 | 4-6 |
| 47 | 4 11-8 | 4 12-4 | 4 00-3 | 4-7 | 1-3 | 10-7 | 2-9 | 16-7 | 4-6 |
| 48 | 4 12-0 | 4 12-7 | 4 00-5 | 4-8 | 1-3 | 10-8 | 3-0 | 16-8 | 4-6 |
| 49 | 4 12-3 | 4 12-9 | 4 00-8 | 4-9 | 1-3 | 10-9 | 3-0 | 16-9 | 4-6 |
| 50 | 4 12-5 | 4 13-2 | 4 01-0 | 5-0 | 1-4 | 11-0 | 3-0 | 17-0 | 4-7 |
| 51 | 4 12-8 | 4 13-4 | 4 01-2 | 5-1 | 1-4 | 11-1 | 3-1 | 17-1 | 4-7 |
| 52 | 4 13-0 | 4 13-7 | 4 01-5 | 5-2 | 1-4 | 11-2 | 3-1 | 17-2 | 4-7 |
| 53 | 4 13-3 | 4 13-9 | 4 01-7 | 5-3 | 1-5 | 11-3 | 3-1 | 17-3 | 4-8 |
| 54 | 4 13-5 | 4 14-2 | 4 02-0 | 5-4 | 1-5 | 11-4 | 3-1 | 17-4 | 4-8 |
| 55 | 4 13-8 | 4 14-4 | 4 02-2 | 5-5 | 1-5 | 11-5 | 3-2 | 17-5 | 4-8 |
| 56 | 4 14-0 | 4 14-7 | 4 02-4 | 5-6 | 1-5 | 11-6 | 3-2 | 17-6 | 4-8 |
| 57 | 4 14-3 | 4 14-9 | 4 02-7 | 5-7 | 1-6 | 11-7 | 3-2 | 17-7 | 4-9 |
| 58 | 4 14-5 | 4 15-2 | 4 02-9 | 5-8 | 1-6 | 11-8 | 3-2 | 17-8 | 4-9 |
| 59 | 4 14-8 | 4 15-4 | 4 03-1 | 5-9 | 1-6 | 11-9 | 3-3 | 17-9 | 4-9 |
| 60 | 4 15-0 | 4 15-7 | 4 03-4 | 6-0 | 1-7 | 12-0 | 3-3 | 18-0 | 5-0 |

x

| 17 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | | | | d | ' | d | ' | d | ' |
| 00 | 4 15-0 | 4 15-7 | 4 03-4 | 0-0 | 0-0 | 6-0 | 1-8 | 12-0 | 3-5 |
| 01 | 4 15-3 | 4 15-9 | 4 03-6 | 0-1 | 0-0 | 6-1 | 1-8 | 12-1 | 3-5 |
| 02 | 4 15-5 | 4 16-2 | 4 03-9 | 0-2 | 0-1 | 6-2 | 1-8 | 12-2 | 3-6 |
| 03 | 4 15-8 | 4 16-5 | 4 04-1 | 0-3 | 0-1 | 6-3 | 1-8 | 12-3 | 3-6 |
| 04 | 4 16-0 | 4 16-7 | 4 04-3 | 0-4 | 0-1 | 6-4 | 1-9 | 12-4 | 3-6 |
| 05 | 4 16-3 | 4 17-0 | 4 04-6 | 0-5 | 0-1 | 6-5 | 1-9 | 12-5 | 3-6 |
| 06 | 4 16-5 | 4 17-2 | 4 04-8 | 0-6 | 0-2 | 6-6 | 1-9 | 12-6 | 3-7 |
| 07 | 4 16-8 | 4 17-5 | 4 05-1 | 0-7 | 0-2 | 6-7 | 2-0 | 12-7 | 3-7 |
| 08 | 4 17-0 | 4 17-7 | 4 05-3 | 0-8 | 0-2 | 6-8 | 2-0 | 12-8 | 3-7 |
| 09 | 4 17-3 | 4 18-0 | 4 05-5 | 0-9 | 0-3 | 6-9 | 2-0 | 12-9 | 3-8 |
| 10 | 4 17-5 | 4 18-2 | 4 05-8 | 1-0 | 0-3 | 7-0 | 2-0 | 13-0 | 3-8 |
| 11 | 4 17-8 | 4 18-5 | 4 06-0 | 1-1 | 0-3 | 7-1 | 2-1 | 13-1 | 3-8 |
| 12 | 4 18-0 | 4 18-7 | 4 06-2 | 1-2 | 0-4 | 7-2 | 2-1 | 13-2 | 3-9 |
| 13 | 4 18-3 | 4 19-0 | 4 06-5 | 1-3 | 0-4 | 7-3 | 2-1 | 13-3 | 3-9 |
| 14 | 4 18-5 | 4 19-2 | 4 06-7 | 1-4 | 0-4 | 7-4 | 2-2 | 13-4 | 3-9 |
| 15 | 4 18-8 | 4 19-5 | 4 07-0 | 1-5 | 0-4 | 7-5 | 2-2 | 13-5 | 3-9 |
| 16 | 4 19-0 | 4 19-7 | 4 07-2 | 1-6 | 0-5 | 7-6 | 2-2 | 13-6 | 4-0 |
| 17 | 4 19-3 | 4 20-0 | 4 07-4 | 1-7 | 0-5 | 7-7 | 2-2 | 13-7 | 4-0 |
| 18 | 4 19-5 | 4 20-2 | 4 07-7 | 1-8 | 0-5 | 7-8 | 2-3 | 13-8 | 4-0 |
| 19 | 4 19-8 | 4 20-5 | 4 07-9 | 1-9 | 0-6 | 7-9 | 2-3 | 13-9 | 4-1 |
| 20 | 4 20-0 | 4 20-7 | 4 08-2 | 2-0 | 0-6 | 8-0 | 2-3 | 14-0 | 4-1 |
| 21 | 4 20-3 | 4 21-0 | 4 08-4 | 2-1 | 0-6 | 8-1 | 2-4 | 14-1 | 4-1 |
| 22 | 4 20-5 | 4 21-2 | 4 08-6 | 2-2 | 0-6 | 8-2 | 2-4 | 14-2 | 4-1 |
| 23 | 4 20-8 | 4 21-5 | 4 08-9 | 2-3 | 0-7 | 8-3 | 2-4 | 14-3 | 4-2 |
| 24 | 4 21-0 | 4 21-7 | 4 09-1 | 2-4 | 0-7 | 8-4 | 2-5 | 14-4 | 4-2 |
| 25 | 4 21-3 | 4 22-0 | 4 09-3 | 2-5 | 0-7 | 8-5 | 2-5 | 14-5 | 4-2 |
| 26 | 4 21-5 | 4 22-2 | 4 09-6 | 2-6 | 0-8 | 8-6 | 2-5 | 14-6 | 4-3 |
| 27 | 4 21-8 | 4 22-5 | 4 09-8 | 2-7 | 0-8 | 8-7 | 2-5 | 14-7 | 4-3 |
| 28 | 4 22-0 | 4 22-7 | 4 10-1 | 2-8 | 0-8 | 8-8 | 2-6 | 14-8 | 4-3 |
| 29 | 4 22-3 | 4 23-0 | 4 10-3 | 2-9 | 0-8 | 8-9 | 2-6 | 14-9 | 4-3 |
| 30 | 4 22-5 | 4 23-2 | 4 10-5 | 3-0 | 0-9 | 9-0 | 2-6 | 15-0 | 4-4 |
| 31 | 4 22-8 | 4 23-5 | 4 10-8 | 3-1 | 0-9 | 9-1 | 2-7 | 15-1 | 4-4 |
| 32 | 4 23-0 | 4 23-7 | 4 11-0 | 3-2 | 0-9 | 9-2 | 2-7 | 15-2 | 4-4 |
| 33 | 4 23-3 | 4 24-0 | 4 11-3 | 3-3 | 1-0 | 9-3 | 2-7 | 15-3 | 4-5 |
| 34 | 4 23-5 | 4 24-2 | 4 11-5 | 3-4 | 1-0 | 9-4 | 2-7 | 15-4 | 4-5 |
| 35 | 4 23-8 | 4 24-5 | 4 11-7 | 3-5 | 1-0 | 9-5 | 2-8 | 15-5 | 4-5 |
| 36 | 4 24-0 | 4 24-7 | 4 12-0 | 3-6 | 1-1 | 9-6 | 2-8 | 15-6 | 4-6 |
| 37 | 4 24-3 | 4 25-0 | 4 12-2 | 3-7 | 1-1 | 9-7 | 2-8 | 15-7 | 4-6 |
| 38 | 4 24-5 | 4 25-2 | 4 12-5 | 3-8 | 1-1 | 9-8 | 2-9 | 15-8 | 4-6 |
| 39 | 4 24-8 | 4 25-5 | 4 12-7 | 3-9 | 1-1 | 9-9 | 2-9 | 15-9 | 4-6 |
| 40 | 4 25-0 | 4 25-7 | 4 12-9 | 4-0 | 1-2 | 10-0 | 2-9 | 16-0 | 4-7 |
| 41 | 4 25-3 | 4 26-0 | 4 13-2 | 4-1 | 1-2 | 10-1 | 2-9 | 16-1 | 4-7 |
| 42 | 4 25-5 | 4 26-2 | 4 13-4 | 4-2 | 1-2 | 10-2 | 3-0 | 16-2 | 4-7 |
| 43 | 4 25-8 | 4 26-5 | 4 13-6 | 4-3 | 1-3 | 10-3 | 3-0 | 16-3 | 4-8 |
| 44 | 4 26-0 | 4 26-7 | 4 13-9 | 4-4 | 1-3 | 10-4 | 3-0 | 16-4 | 4-8 |
| 45 | 4 26-3 | 4 27-0 | 4 14-1 | 4-5 | 1-3 | 10-5 | 3-1 | 16-5 | 4-8 |
| 46 | 4 26-5 | 4 27-2 | 4 14-4 | 4-6 | 1-3 | 10-6 | 3-1 | 16-6 | 4-8 |
| 47 | 4 26-8 | 4 27-5 | 4 14-6 | 4-7 | 1-4 | 10-7 | 3-1 | 16-7 | 4-9 |
| 48 | 4 27-0 | 4 27-7 | 4 14-8 | 4-8 | 1-4 | 10-8 | 3-2 | 16-8 | 4-9 |
| 49 | 4 27-3 | 4 28-0 | 4 15-1 | 4-9 | 1-4 | 10-9 | 3-2 | 16-9 | 4-9 |
| 50 | 4 27-5 | 4 28-2 | 4 15-3 | 5-0 | 1-5 | 11-0 | 3-2 | 17-0 | 5-0 |
| 51 | 4 27-8 | 4 28-5 | 4 15-6 | 5-1 | 1-5 | 11-1 | 3-2 | 17-1 | 5-0 |
| 52 | 4 28-0 | 4 28-7 | 4 15-8 | 5-2 | 1-5 | 11-2 | 3-3 | 17-2 | 5-0 |
| 53 | 4 28-3 | 4 29-0 | 4 16-0 | 5-3 | 1-5 | 11-3 | 3-3 | 17-3 | 5-0 |
| 54 | 4 28-5 | 4 29-2 | 4 16-3 | 5-4 | 1-6 | 11-4 | 3-3 | 17-4 | 5-1 |
| 55 | 4 28-8 | 4 29-5 | 4 16-5 | 5-5 | 1-6 | 11-5 | 3-4 | 17-5 | 5-1 |
| 56 | 4 29-0 | 4 29-7 | 4 16-7 | 5-6 | 1-6 | 11-6 | 3-4 | 17-6 | 5-1 |
| 57 | 4 29-3 | 4 30-0 | 4 17-0 | 5-7 | 1-7 | 11-7 | 3-4 | 17-7 | 5-2 |
| 58 | 4 29-5 | 4 30-2 | 4 17-2 | 5-8 | 1-7 | 11-8 | 3-4 | 17-8 | 5-2 |
| 59 | 4 29-8 | 4 30-5 | 4 17-5 | 5-9 | 1-7 | 11-9 | 3-5 | 17-9 | 5-2 |
| 60 | 4 30-0 | 4 30-7 | 4 17-7 | 6-0 | 1-8 | 12-0 | 3-5 | 18-0 | 5-3 |

| 18 ^m | | | | CORRECCIONES E INCREMENTOS | | | | 19 ^m | | | | | | | | | | | |
|-----------------|--------|--------|----------------------------------|----------------------------------|----------------------------------|--------------|-------|-----------------|----------------------------------|----------------------------------|----------------------------------|--------|--------|-----|-----|------|-----|------|-----|
| SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ | v _o Corr ⁿ | v _o Corr ⁿ | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ | v _o Corr ⁿ | v _o Corr ⁿ | | | | | | | | |
| 00 | 4 30-0 | 4 30-7 | 4 17-7 | 0-0 | 0-0 | 6-0 | 1-9 | 12-0 | 3-7 | 00 | 4 45-0 | 4 45-8 | 4 32-0 | 0-0 | 0-0 | 6-0 | 2-0 | 12-0 | 3-9 |
| 01 | 4 30-3 | 4 31-0 | 4 17-9 | 0-1 | 0-0 | 6-1 | 1-9 | 12-1 | 3-7 | 01 | 4 45-3 | 4 46-0 | 4 32-3 | 0-1 | 0-0 | 6-1 | 2-0 | 12-1 | 3-9 |
| 02 | 4 30-5 | 4 31-2 | 4 18-2 | 0-2 | 0-1 | 6-2 | 1-9 | 12-2 | 3-8 | 02 | 4 45-5 | 4 46-3 | 4 32-5 | 0-2 | 0-1 | 6-2 | 2-0 | 12-2 | 4-0 |
| 03 | 4 30-8 | 4 31-5 | 4 18-4 | 0-3 | 0-1 | 6-3 | 1-9 | 12-3 | 3-8 | 03 | 4 45-8 | 4 46-5 | 4 32-7 | 0-3 | 0-1 | 6-3 | 2-0 | 12-3 | 4-0 |
| 04 | 4 31-0 | 4 31-7 | 4 18-7 | 0-4 | 0-1 | 6-4 | 2-0 | 12-4 | 3-8 | 04 | 4 46-0 | 4 46-8 | 4 33-0 | 0-4 | 0-1 | 6-4 | 2-1 | 12-4 | 4-0 |
| 05 | 4 31-3 | 4 32-0 | 4 18-9 | 0-5 | 0-2 | 6-5 | 2-0 | 12-5 | 3-9 | 05 | 4 46-3 | 4 47-0 | 4 33-2 | 0-5 | 0-2 | 6-5 | 2-1 | 12-5 | 4-1 |
| 06 | 4 31-5 | 4 32-2 | 4 19-1 | 0-6 | 0-2 | 6-6 | 2-0 | 12-6 | 3-9 | 06 | 4 46-5 | 4 47-3 | 4 33-4 | 0-6 | 0-2 | 6-6 | 2-1 | 12-6 | 4-1 |
| 07 | 4 31-8 | 4 32-5 | 4 19-4 | 0-7 | 0-2 | 6-7 | 2-1 | 12-7 | 3-9 | 07 | 4 46-8 | 4 47-5 | 4 33-7 | 0-7 | 0-2 | 6-7 | 2-2 | 12-7 | 4-1 |
| 08 | 4 32-0 | 4 32-7 | 4 19-6 | 0-8 | 0-2 | 6-8 | 2-1 | 12-8 | 3-9 | 08 | 4 47-0 | 4 47-8 | 4 33-9 | 0-8 | 0-3 | 6-8 | 2-2 | 12-8 | 4-2 |
| 09 | 4 32-3 | 4 33-0 | 4 19-8 | 0-9 | 0-3 | 6-9 | 2-1 | 12-9 | 4-0 | 09 | 4 47-3 | 4 48-0 | 4 34-2 | 0-9 | 0-3 | 6-9 | 2-2 | 12-9 | 4-2 |
| 10 | 4 32-5 | 4 33-2 | 4 20-1 | 1-0 | 0-3 | 7-0 | 2-2 | 13-0 | 4-0 | 10 | 4 47-5 | 4 48-3 | 4 34-4 | 1-0 | 0-3 | 7-0 | 2-3 | 13-0 | 4-2 |
| 11 | 4 32-8 | 4 33-5 | 4 20-3 | 1-1 | 0-3 | 7-1 | 2-2 | 13-1 | 4-0 | 11 | 4 47-8 | 4 48-5 | 4 34-6 | 1-1 | 0-4 | 7-1 | 2-3 | 13-1 | 4-3 |
| 12 | 4 33-0 | 4 33-7 | 4 20-6 | 1-2 | 0-4 | 7-2 | 2-2 | 13-2 | 4-1 | 12 | 4 48-0 | 4 48-8 | 4 34-9 | 1-2 | 0-4 | 7-2 | 2-3 | 13-2 | 4-3 |
| 13 | 4 33-3 | 4 34-0 | 4 20-8 | 1-3 | 0-4 | 7-3 | 2-3 | 13-3 | 4-1 | 13 | 4 48-3 | 4 49-0 | 4 35-1 | 1-3 | 0-4 | 7-3 | 2-4 | 13-3 | 4-3 |
| 14 | 4 33-5 | 4 34-2 | 4 21-0 | 1-4 | 0-4 | 7-4 | 2-3 | 13-4 | 4-1 | 14 | 4 48-5 | 4 49-3 | 4 35-4 | 1-4 | 0-5 | 7-4 | 2-4 | 13-4 | 4-4 |
| 15 | 4 33-8 | 4 34-5 | 4 21-3 | 1-5 | 0-5 | 7-5 | 2-3 | 13-5 | 4-2 | 15 | 4 48-8 | 4 49-5 | 4 35-6 | 1-5 | 0-5 | 7-5 | 2-4 | 13-5 | 4-4 |
| 16 | 4 34-0 | 4 34-8 | 4 21-5 | 1-6 | 0-5 | 7-6 | 2-3 | 13-6 | 4-2 | 16 | 4 49-0 | 4 49-8 | 4 35-8 | 1-6 | 0-5 | 7-6 | 2-5 | 13-6 | 4-4 |
| 17 | 4 34-3 | 4 35-0 | 4 21-8 | 1-7 | 0-5 | 7-7 | 2-4 | 13-7 | 4-2 | 17 | 4 49-3 | 4 50-0 | 4 36-1 | 1-7 | 0-6 | 7-7 | 2-5 | 13-7 | 4-5 |
| 18 | 4 34-5 | 4 35-3 | 4 22-0 | 1-8 | 0-6 | 7-8 | 2-4 | 13-8 | 4-3 | 18 | 4 49-5 | 4 50-3 | 4 36-3 | 1-8 | 0-6 | 7-8 | 2-5 | 13-8 | 4-5 |
| 19 | 4 34-8 | 4 35-5 | 4 22-2 | 1-9 | 0-6 | 7-9 | 2-4 | 13-9 | 4-3 | 19 | 4 49-8 | 4 50-5 | 4 36-6 | 1-9 | 0-6 | 7-9 | 2-6 | 13-9 | 4-5 |
| 20 | 4 35-0 | 4 35-8 | 4 22-5 | 2-0 | 0-6 | 8-0 | 2-5 | 14-0 | 4-3 | 20 | 4 50-0 | 4 50-8 | 4 36-8 | 2-0 | 0-7 | 8-0 | 2-6 | 14-0 | 4-6 |
| 21 | 4 35-3 | 4 36-0 | 4 22-7 | 2-1 | 0-6 | 8-1 | 2-5 | 14-1 | 4-3 | 21 | 4 50-3 | 4 51-0 | 4 37-0 | 2-1 | 0-7 | 8-1 | 2-6 | 14-1 | 4-6 |
| 22 | 4 35-5 | 4 36-3 | 4 22-9 | 2-2 | 0-7 | 8-2 | 2-5 | 14-2 | 4-4 | 22 | 4 50-5 | 4 51-3 | 4 37-3 | 2-2 | 0-7 | 8-2 | 2-7 | 14-2 | 4-6 |
| 23 | 4 35-8 | 4 36-5 | 4 23-2 | 2-3 | 0-7 | 8-3 | 2-6 | 14-3 | 4-4 | 23 | 4 50-8 | 4 51-5 | 4 37-5 | 2-3 | 0-7 | 8-3 | 2-7 | 14-3 | 4-6 |
| 24 | 4 36-0 | 4 36-8 | 4 23-4 | 2-4 | 0-7 | 8-4 | 2-6 | 14-4 | 4-4 | 24 | 4 51-0 | 4 51-8 | 4 37-7 | 2-4 | 0-8 | 8-4 | 2-7 | 14-4 | 4-7 |
| 25 | 4 36-3 | 4 37-0 | 4 23-7 | 2-5 | 0-8 | 8-5 | 2-6 | 14-5 | 4-5 | 25 | 4 51-3 | 4 52-0 | 4 38-0 | 2-5 | 0-8 | 8-5 | 2-8 | 14-5 | 4-7 |
| 26 | 4 36-5 | 4 37-3 | 4 23-9 | 2-6 | 0-8 | 8-6 | 2-7 | 14-6 | 4-5 | 26 | 4 51-5 | 4 52-3 | 4 38-2 | 2-6 | 0-8 | 8-6 | 2-8 | 14-6 | 4-7 |
| 27 | 4 36-8 | 4 37-5 | 4 24-1 | 2-7 | 0-8 | 8-7 | 2-7 | 14-7 | 4-5 | 27 | 4 51-8 | 4 52-5 | 4 38-5 | 2-7 | 0-9 | 8-7 | 2-8 | 14-7 | 4-8 |
| 28 | 4 37-0 | 4 37-8 | 4 24-4 | 2-8 | 0-9 | 8-8 | 2-7 | 14-8 | 4-6 | 28 | 4 52-0 | 4 52-8 | 4 38-7 | 2-8 | 0-9 | 8-8 | 2-9 | 14-8 | 4-8 |
| 29 | 4 37-3 | 4 38-0 | 4 24-6 | 2-9 | 0-9 | 8-9 | 2-7 | 14-9 | 4-6 | 29 | 4 52-3 | 4 53-1 | 4 38-9 | 2-9 | 0-9 | 8-9 | 2-9 | 14-9 | 4-8 |
| 30 | 4 37-5 | 4 38-3 | 4 24-9 | 3-0 | 0-9 | 9-0 | 2-8 | 15-0 | 4-6 | 30 | 4 52-5 | 4 53-3 | 4 39-2 | 3-0 | 1-0 | 9-0 | 2-9 | 15-0 | 4-9 |
| 31 | 4 37-8 | 4 38-5 | 4 25-1 | 3-1 | 1-0 | 9-1 | 2-8 | 15-1 | 4-7 | 31 | 4 52-8 | 4 53-6 | 4 39-4 | 3-1 | 1-0 | 9-1 | 3-0 | 15-1 | 4-9 |
| 32 | 4 38-0 | 4 38-8 | 4 25-3 | 3-2 | 1-0 | 9-2 | 2-8 | 15-2 | 4-7 | 32 | 4 53-0 | 4 53-8 | 4 39-7 | 3-2 | 1-0 | 9-2 | 3-0 | 15-2 | 4-9 |
| 33 | 4 38-3 | 4 39-0 | 4 25-6 | 3-3 | 1-0 | 9-3 | 2-9 | 15-3 | 4-7 | 33 | 4 53-3 | 4 54-1 | 4 39-9 | 3-3 | 1-1 | 9-3 | 3-0 | 15-3 | 5-0 |
| 34 | 4 38-5 | 4 39-3 | 4 25-8 | 3-4 | 1-0 | 9-4 | 2-9 | 15-4 | 4-7 | 34 | 4 53-5 | 4 54-3 | 4 40-1 | 3-4 | 1-1 | 9-4 | 3-1 | 15-4 | 5-0 |
| 35 | 4 38-8 | 4 39-5 | 4 26-1 | 3-5 | 1-1 | 9-5 | 2-9 | 15-5 | 4-8 | 35 | 4 53-8 | 4 54-6 | 4 40-4 | 3-5 | 1-1 | 9-5 | 3-1 | 15-5 | 5-0 |
| 36 | 4 39-0 | 4 39-8 | 4 26-3 | 3-6 | 1-1 | 9-6 | 3-0 | 15-6 | 4-8 | 36 | 4 54-0 | 4 54-8 | 4 40-6 | 3-6 | 1-2 | 9-6 | 3-1 | 15-6 | 5-1 |
| 37 | 4 39-3 | 4 40-0 | 4 26-5 | 3-7 | 1-1 | 9-7 | 3-0 | 15-7 | 4-8 | 37 | 4 54-3 | 4 55-1 | 4 40-8 | 3-7 | 1-2 | 9-7 | 3-2 | 15-7 | 5-1 |
| 38 | 4 39-5 | 4 40-3 | 4 26-8 | 3-8 | 1-2 | 9-8 | 3-0 | 15-8 | 4-9 | 38 | 4 54-5 | 4 55-3 | 4 41-1 | 3-8 | 1-2 | 9-8 | 3-2 | 15-8 | 5-1 |
| 39 | 4 39-8 | 4 40-5 | 4 27-0 | 3-9 | 1-2 | 9-9 | 3-1 | 15-9 | 4-9 | 39 | 4 54-8 | 4 55-6 | 4 41-3 | 3-9 | 1-3 | 9-9 | 3-2 | 15-9 | 5-2 |
| 40 | 4 40-0 | 4 40-8 | 4 27-2 | 4-0 | 1-2 | 10-0 | 3-1 | 16-0 | 4-9 | 40 | 4 55-0 | 4 55-8 | 4 41-6 | 4-0 | 1-3 | 10-0 | 3-3 | 16-0 | 5-2 |
| 41 | 4 40-3 | 4 41-0 | 4 27-5 | 4-1 | 1-3 | 10-1 | 3-1 | 16-1 | 5-0 | 41 | 4 55-3 | 4 56-1 | 4 41-8 | 4-1 | 1-3 | 10-1 | 3-3 | 16-1 | 5-2 |
| 42 | 4 40-5 | 4 41-3 | 4 27-7 | 4-2 | 1-3 | 10-2 | 3-1 | 16-2 | 5-0 | 42 | 4 55-5 | 4 56-3 | 4 42-0 | 4-2 | 1-4 | 10-2 | 3-3 | 16-2 | 5-3 |
| 43 | 4 40-8 | 4 41-5 | 4 28-0 | 4-3 | 1-3 | 10-3 | 3-2 | 16-3 | 5-0 | 43 | 4 55-8 | 4 56-6 | 4 42-3 | 4-3 | 1-4 | 10-3 | 3-3 | 16-3 | 5-3 |
| 44 | 4 41-0 | 4 41-8 | 4 28-2 | 4-4 | 1-4 | 10-4 | 3-2 | 16-4 | 5-1 | 44 | 4 56-0 | 4 56-8 | 4 42-5 | 4-4 | 1-4 | 10-4 | 3-4 | 16-4 | 5-3 |
| 45 | 4 41-3 | 4 42-0 | 4 28-4 | 4-5 | 1-4 | 10-5 | 3-2 | 16-5 | 5-1 | 45 | 4 56-3 | 4 57-1 | 4 42-8 | 4-5 | 1-5 | 10-5 | 3-4 | 16-5 | 5-4 |
| 46 | 4 41-5 | 4 42-3 | 4 28-7 | 4-6 | 1-4 | 10-6 | 3-3 | 16-6 | 5-1 | 46 | 4 56-5 | 4 57-3 | 4 43-0 | 4-6 | 1-5 | 10-6 | 3-4 | 16-6 | 5-4 |
| 47 | 4 41-8 | 4 42-5 | 4 28-9 | 4-7 | 1-4 | 10-7 | 3-3 | 16-7 | 5-1 | 47 | 4 56-8 | 4 57-6 | 4 43-2 | 4-7 | 1-5 | 10-7 | 3-5 | 16-7 | 5-4 |
| 48 | 4 42-0 | 4 42-8 | 4 29-2 | 4-8 | 1-5 | 10-8 | 3-3 | 16-8 | 5-2 | 48 | 4 57-0 | 4 57-8 | 4 43-5 | 4-8 | 1-6 | 10-8 | 3-5 | 16-8 | 5-5 |
| 49 | 4 42-3 | 4 43-0 | 4 29-4 | 4-9 | 1-5 | 10-9 | 3-4 | 16-9 | 5-2 | 49 | 4 57-3 | 4 58-1 | 4 43-7 | 4-9 | 1-6 | 10-9 | 3-5 | 16-9 | 5-5 |
| 50 | 4 42-5 | 4 43-3 | 4 29-6 | 5-0 | 1-5 | 11-0 | 3-4 | 17-0 | 5-2 | 50 | 4 57-5 | 4 58-3 | 4 43-9 | 5-0 | 1-6 | 11-0 | 3-6 | 17-0 | 5-5 |
| 51 | 4 42-8 | 4 43-5 | 4 29-9 | 5-1 | 1-6 | 11-1 | 3-4 | 17-1 | 5-3 | 51 | 4 57-8 | 4 58-6 | 4 44-2 | 5-1 | 1-7 | 11-1 | 3-6 | 17-1 | 5-6 |
| 52 | 4 43-0 | 4 43-8 | 4 30-1 | 5-2 | 1-6 | 11-2 | 3-5 | 17-2 | 5-3 | 52 | 4 58-0 | 4 58-8 | 4 44-4 | 5-2 | 1-7 | 11-2 | 3-6 | 17-2 | 5-6 |
| 53 | 4 43-3 | 4 44-0 | 4 30-3 | 5-3 | 1-6 | 11-3 | 3-5 | 17-3 | 5-3 | 53 | 4 58-3 | 4 59-1 | 4 44-7 | 5-3 | 1-7 | 11-3 | 3-7 | 17-3 | 5-6 |
| 54 | 4 43-5 | 4 44-3 | 4 30-6 | 5-4 | 1-7 | 11-4 | 3-5 | 17-4 | 5-4 | 54 | 4 58-5 | 4 59-3 | 4 44-9 | 5-4 | 1-8 | 11-4 | 3-7 | 17-4 | 5-7 |
| 55 | 4 43-8 | 4 44-5 | 4 30-8 | 5-5 | 1-7 | 11-5 | 3-5 | 17-5 | 5-4 | 55 | 4 58-8 | 4 59-6 | 4 45-1 | 5-5 | 1-8 | 11-5 | 3-7 | 17-5 | 5-7 |
| 56 | 4 44-0 | 4 44-8 | 4 31-1 | 5-6 | 1-7 | 11-6 | 3-6 | 17-6 | 5-4 | 56 | 4 59-0 | 4 59-8 | 4 45-4 | 5-6 | 1-8 | 11-6 | 3-8 | 17-6 | 5-7 |
| 57 | 4 44-3 | 4 45-0 | 4 31-3 | 5-7 | 1-8 | 11-7 | 3-6 | 17-7 | 5-5 | 57 | 4 59-3 | 5 00-1 | 4 45-6 | 5-7 | 1-9 | 11-7 | 3-8 | 17-7 | 5-8 |
| 58 | 4 44-5 | 4 45-3 | 4 31-5 | 5-8 | 1-8 | 11-8 | 3-6 | 17-8 | 5-5 | 58 | 4 59-5 | 5 00-3 | 4 45-9 | 5-8 | 1-9 | 11-8 | 3-8 | 17-8 | 5-8 |
| 59 | 4 44-8 | 4 45-5 | 4 31-8 | 5-9 | 1-8 | 11-9 | 3-7 | 17-9 | 5-5 | 59 | 4 59-8 | 5 00-6 | 4 46-1 | 5-9 | 1-9 | 11-9 | 3-9 | 17-9 | 5-8 |
| 60 | 4 45-0 | 4 45-8 | 4 32-0 | 6-0 | 1-9 | 12-0 | 3-7 | 18-0 | 5-6 | 60 | 5 00-0 | 5 00-8 | 4 46-3 | 6-0 | 2-0 | 12-0 | 3-9 | 18-0 | 5-9 |

| 20 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
|-----------------|--------------|-----|--------|--------|---------------------------------------|-----|---------------------------------------|-----|---------------------------------------|-----|
| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 5 00-0 | | 5 00-8 | 4 46-3 | 0-0 | 0-0 | 6-0 | 2-1 | 12-0 | 4-1 |
| 01 | 5 00-3 | | 5 01-1 | 4 46-6 | 0-1 | 0-0 | 6-1 | 2-1 | 12-1 | 4-1 |
| 02 | 5 00-5 | | 5 01-3 | 4 46-8 | 0-2 | 0-1 | 6-2 | 2-1 | 12-2 | 4-2 |
| 03 | 5 00-8 | | 5 01-6 | 4 47-0 | 0-3 | 0-1 | 6-3 | 2-2 | 12-3 | 4-2 |
| 04 | 5 01-0 | | 5 01-8 | 4 47-3 | 0-4 | 0-1 | 6-4 | 2-2 | 12-4 | 4-2 |
| 05 | 5 01-3 | | 5 02-1 | 4 47-5 | 0-5 | 0-2 | 6-5 | 2-2 | 12-5 | 4-3 |
| 06 | 5 01-5 | | 5 02-3 | 4 47-8 | 0-6 | 0-2 | 6-6 | 2-3 | 12-6 | 4-3 |
| 07 | 5 01-8 | | 5 02-6 | 4 48-0 | 0-7 | 0-2 | 6-7 | 2-3 | 12-7 | 4-3 |
| 08 | 5 02-0 | | 5 02-8 | 4 48-2 | 0-8 | 0-3 | 6-8 | 2-3 | 12-8 | 4-4 |
| 09 | 5 02-3 | | 5 03-1 | 4 48-5 | 0-9 | 0-3 | 6-9 | 2-4 | 12-9 | 4-4 |
| 10 | 5 02-5 | | 5 03-3 | 4 48-7 | 1-0 | 0-3 | 7-0 | 2-4 | 13-0 | 4-4 |
| 11 | 5 02-8 | | 5 03-6 | 4 49-0 | 1-1 | 0-4 | 7-1 | 2-4 | 13-1 | 4-5 |
| 12 | 5 03-0 | | 5 03-8 | 4 49-2 | 1-2 | 0-4 | 7-2 | 2-5 | 13-2 | 4-5 |
| 13 | 5 03-3 | | 5 04-1 | 4 49-4 | 1-3 | 0-4 | 7-3 | 2-5 | 13-3 | 4-5 |
| 14 | 5 03-5 | | 5 04-3 | 4 49-7 | 1-4 | 0-5 | 7-4 | 2-5 | 13-4 | 4-6 |
| 15 | 5 03-8 | | 5 04-6 | 4 49-9 | 1-5 | 0-5 | 7-5 | 2-6 | 13-5 | 4-6 |
| 16 | 5 04-0 | | 5 04-8 | 4 50-2 | 1-6 | 0-5 | 7-6 | 2-6 | 13-6 | 4-6 |
| 17 | 5 04-3 | | 5 05-1 | 4 50-4 | 1-7 | 0-6 | 7-7 | 2-6 | 13-7 | 4-7 |
| 18 | 5 04-5 | | 5 05-3 | 4 50-6 | 1-8 | 0-6 | 7-8 | 2-7 | 13-8 | 4-7 |
| 19 | 5 04-8 | | 5 05-6 | 4 50-9 | 1-9 | 0-6 | 7-9 | 2-7 | 13-9 | 4-7 |
| 20 | 5 05-0 | | 5 05-8 | 4 51-1 | 2-0 | 0-7 | 8-0 | 2-7 | 14-0 | 4-8 |
| 21 | 5 05-3 | | 5 06-1 | 4 51-3 | 2-1 | 0-7 | 8-1 | 2-8 | 14-1 | 4-8 |
| 22 | 5 05-5 | | 5 06-3 | 4 51-6 | 2-2 | 0-8 | 8-2 | 2-8 | 14-2 | 4-9 |
| 23 | 5 05-8 | | 5 06-6 | 4 51-8 | 2-3 | 0-8 | 8-3 | 2-8 | 14-3 | 4-9 |
| 24 | 5 06-0 | | 5 06-8 | 4 52-1 | 2-4 | 0-8 | 8-4 | 2-9 | 14-4 | 4-9 |
| 25 | 5 06-3 | | 5 07-1 | 4 52-3 | 2-5 | 0-9 | 8-5 | 2-9 | 14-5 | 5-0 |
| 26 | 5 06-5 | | 5 07-3 | 4 52-5 | 2-6 | 0-9 | 8-6 | 2-9 | 14-6 | 5-0 |
| 27 | 5 06-8 | | 5 07-6 | 4 52-8 | 2-7 | 0-9 | 8-7 | 3-0 | 14-7 | 5-0 |
| 28 | 5 07-0 | | 5 07-8 | 4 53-0 | 2-8 | 1-0 | 8-8 | 3-0 | 14-8 | 5-1 |
| 29 | 5 07-3 | | 5 08-1 | 4 53-3 | 2-9 | 1-0 | 8-9 | 3-0 | 14-9 | 5-1 |
| 30 | 5 07-5 | | 5 08-3 | 4 53-5 | 3-0 | 1-0 | 9-0 | 3-1 | 15-0 | 5-1 |
| 31 | 5 07-8 | | 5 08-6 | 4 53-7 | 3-1 | 1-1 | 9-1 | 3-1 | 15-1 | 5-2 |
| 32 | 5 08-0 | | 5 08-8 | 4 54-0 | 3-2 | 1-1 | 9-2 | 3-1 | 15-2 | 5-2 |
| 33 | 5 08-3 | | 5 09-1 | 4 54-2 | 3-3 | 1-1 | 9-3 | 3-2 | 15-3 | 5-2 |
| 34 | 5 08-5 | | 5 09-3 | 4 54-4 | 3-4 | 1-2 | 9-4 | 3-2 | 15-4 | 5-3 |
| 35 | 5 08-8 | | 5 09-6 | 4 54-7 | 3-5 | 1-2 | 9-5 | 3-2 | 15-5 | 5-3 |
| 36 | 5 09-0 | | 5 09-8 | 4 54-9 | 3-6 | 1-2 | 9-6 | 3-3 | 15-6 | 5-3 |
| 37 | 5 09-3 | | 5 10-1 | 4 55-2 | 3-7 | 1-3 | 9-7 | 3-3 | 15-7 | 5-4 |
| 38 | 5 09-5 | | 5 10-3 | 4 55-4 | 3-8 | 1-3 | 9-8 | 3-3 | 15-8 | 5-4 |
| 39 | 5 09-8 | | 5 10-6 | 4 55-6 | 3-9 | 1-3 | 9-9 | 3-4 | 15-9 | 5-4 |
| 40 | 5 10-0 | | 5 10-8 | 4 55-9 | 4-0 | 1-4 | 10-0 | 3-4 | 16-0 | 5-5 |
| 41 | 5 10-3 | | 5 11-1 | 4 56-1 | 4-1 | 1-4 | 10-1 | 3-5 | 16-1 | 5-5 |
| 42 | 5 10-5 | | 5 11-4 | 4 56-4 | 4-2 | 1-4 | 10-2 | 3-5 | 16-2 | 5-5 |
| 43 | 5 10-8 | | 5 11-6 | 4 56-6 | 4-3 | 1-5 | 10-3 | 3-5 | 16-3 | 5-6 |
| 44 | 5 11-0 | | 5 11-9 | 4 56-8 | 4-4 | 1-5 | 10-4 | 3-6 | 16-4 | 5-6 |
| 45 | 5 11-3 | | 5 12-1 | 4 57-1 | 4-5 | 1-5 | 10-5 | 3-6 | 16-5 | 5-6 |
| 46 | 5 11-5 | | 5 12-4 | 4 57-3 | 4-6 | 1-6 | 10-6 | 3-6 | 16-6 | 5-7 |
| 47 | 5 11-8 | | 5 12-6 | 4 57-5 | 4-7 | 1-6 | 10-7 | 3-7 | 16-7 | 5-7 |
| 48 | 5 12-0 | | 5 12-9 | 4 57-8 | 4-8 | 1-6 | 10-8 | 3-7 | 16-8 | 5-7 |
| 49 | 5 12-3 | | 5 13-1 | 4 58-0 | 4-9 | 1-7 | 10-9 | 3-7 | 16-9 | 5-8 |
| 50 | 5 12-5 | | 5 13-4 | 4 58-3 | 5-0 | 1-7 | 11-0 | 3-8 | 17-0 | 5-8 |
| 51 | 5 12-8 | | 5 13-6 | 4 58-5 | 5-1 | 1-7 | 11-1 | 3-8 | 17-1 | 5-8 |
| 52 | 5 13-0 | | 5 13-9 | 4 58-7 | 5-2 | 1-8 | 11-2 | 3-8 | 17-2 | 5-9 |
| 53 | 5 13-3 | | 5 14-1 | 4 59-0 | 5-3 | 1-8 | 11-3 | 3-9 | 17-3 | 5-9 |
| 54 | 5 13-5 | | 5 14-4 | 4 59-2 | 5-4 | 1-8 | 11-4 | 3-9 | 17-4 | 5-9 |
| 55 | 5 13-8 | | 5 14-6 | 4 59-5 | 5-5 | 1-9 | 11-5 | 3-9 | 17-5 | 6-0 |
| 56 | 5 14-0 | | 5 14-9 | 4 59-7 | 5-6 | 1-9 | 11-6 | 4-0 | 17-6 | 6-0 |
| 57 | 5 14-3 | | 5 15-1 | 4 59-9 | 5-7 | 1-9 | 11-7 | 4-0 | 17-7 | 6-0 |
| 58 | 5 14-5 | | 5 15-4 | 5 00-2 | 5-8 | 2-0 | 11-8 | 4-0 | 17-8 | 6-1 |
| 59 | 5 14-8 | | 5 15-6 | 5 00-4 | 5-9 | 2-0 | 11-9 | 4-1 | 17-9 | 6-1 |
| 60 | 5 15-0 | | 5 15-9 | 5 00-7 | 6-0 | 2-1 | 12-0 | 4-1 | 18-0 | 6-2 |

| 21 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
|-----------------|--------------|-----|--------|--------|---------------------------------------|-----|---------------------------------------|-----|---------------------------------------|-----|
| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 5 15-0 | | 5 15-9 | 5 00-7 | 0-0 | 0-0 | 6-0 | 2-2 | 12-0 | 4-3 |
| 01 | 5 15-3 | | 5 16-1 | 5 00-9 | 0-1 | 0-0 | 6-1 | 2-2 | 12-1 | 4-3 |
| 02 | 5 15-5 | | 5 16-4 | 5 01-1 | 0-2 | 0-1 | 6-2 | 2-2 | 12-2 | 4-4 |
| 03 | 5 15-8 | | 5 16-6 | 5 01-4 | 0-3 | 0-1 | 6-3 | 2-3 | 12-3 | 4-4 |
| 04 | 5 16-0 | | 5 16-9 | 5 01-6 | 0-4 | 0-1 | 6-4 | 2-3 | 12-4 | 4-4 |
| 05 | 5 16-3 | | 5 17-1 | 5 01-8 | 0-5 | 0-2 | 6-5 | 2-3 | 12-5 | 4-5 |
| 06 | 5 16-5 | | 5 17-4 | 5 02-1 | 0-6 | 0-2 | 6-6 | 2-4 | 12-6 | 4-5 |
| 07 | 5 16-8 | | 5 17-6 | 5 02-3 | 0-7 | 0-3 | 6-7 | 2-4 | 12-7 | 4-6 |
| 08 | 5 17-0 | | 5 17-9 | 5 02-6 | 0-8 | 0-3 | 6-8 | 2-4 | 12-8 | 4-6 |
| 09 | 5 17-3 | | 5 18-1 | 5 02-8 | 0-9 | 0-3 | 6-9 | 2-5 | 12-9 | 4-6 |
| 10 | 5 17-5 | | 5 18-4 | 5 03-0 | 1-0 | 0-4 | 7-0 | 2-5 | 13-0 | 4-7 |
| 11 | 5 17-8 | | 5 18-6 | 5 03-3 | 1-1 | 0-4 | 7-1 | 2-5 | 13-1 | 4-7 |
| 12 | 5 18-0 | | 5 18-9 | 5 03-5 | 1-2 | 0-4 | 7-2 | 2-6 | 13-2 | 4-7 |
| 13 | 5 18-3 | | 5 19-1 | 5 03-8 | 1-3 | 0-5 | 7-3 | 2-6 | 13-3 | 4-8 |
| 14 | 5 18-5 | | 5 19-4 | 5 04-0 | 1-4 | 0-5 | 7-4 | 2-7 | 13-4 | 4-8 |
| 15 | 5 18-8 | | 5 19-6 | 5 04-2 | 1-5 | 0-5 | 7-5 | 2-7 | 13-5 | 4-8 |
| 16 | 5 19-0 | | 5 19-9 | 5 04-5 | 1-6 | 0-6 | 7-6 | 2-7 | 13-6 | 4-9 |
| 17 | 5 19-3 | | 5 20-1 | 5 04-7 | 1-7 | 0-6 | 7-7 | 2-8 | 13-7 | 4-9 |
| 18 | 5 19-5 | | 5 20-4 | 5 04-9 | 1-8 | 0-6 | 7-8 | 2-8 | 13-8 | 4-9 |
| 19 | 5 19-8 | | 5 20-6 | 5 05-2 | 1-9 | 0-7 | 7-9 | 2-8 | 13-9 | 5-0 |
| 20 | 5 20-0 | | 5 20-9 | 5 05-4 | 2-0 | 0-7 | 8-0 | 2-9 | 14-0 | 5-0 |
| 21 | 5 20-3 | | 5 21-1 | 5 05-7 | 2-1 | 0-8 | 8-1 | 2-9 | 14-1 | 5-1 |
| 22 | 5 20-5 | | 5 21-4 | 5 05-9 | 2-2 | 0-8 | 8-2 | 2-9 | 14-2 | 5-1 |
| 23 | 5 20-8 | | 5 21-6 | 5 06-1 | 2-3 | 0-8 | 8-3 | 3-0 | 14-3 | 5-1 |
| 24 | 5 21-0 | | 5 21-9 | 5 06-4 | 2-4 | 0-9 | 8-4 | 3-0 | 14-4 | 5-2 |
| 25 | 5 21-3 | | 5 22-1 | 5 06-6 | 2-5 | 0-9 | 8-5 | 3-0 | 14-5 | 5-2 |
| 26 | 5 21-5 | | 5 22-4 | 5 06-9 | 2-6 | 0-9 | 8-6 | 3-1 | 14-6 | 5-2 |
| 27 | 5 21-8 | | 5 22-6 | 5 07-1 | 2-7 | 1-0 | 8-7 | 3-1 | 14-7 | 5-3 |
| 28 | 5 22-0 | | 5 22-9 | 5 07-3 | 2-8 | 1-0 | 8-8 | 3-2 | 14-8 | 5-3 |
| 29 | 5 22-3 | | 5 23-1 | 5 07-6 | 2-9 | 1-0 | 8-9 | 3-2 | 14-9 | 5-3 |
| 30 | 5 22-5 | | 5 23-4 | 5 07-8 | 3-0 | 1-1 | 9-0 | 3-2 | 15-0 | 5-4 |
| 31 | 5 22-8 | | 5 23-6 | 5 08-0 | 3-1 | 1-1 | 9-1 | 3-3 | 15-1 | 5-4 |
| 32 | 5 23-0 | | 5 23-9 | 5 08-3 | 3-2 | 1-1 | 9-2 | 3-3 | 15-2 | 5-4 |
| 33 | 5 23-3 | | 5 24-1 | 5 08-5 | 3-3 | 1-2 | 9-3 | 3-3 | 15-3 | 5-5 |
| 34 | 5 23-5 | | 5 24-4 | 5 08-8 | 3-4 | 1-2 | 9-4 | 3-4 | 15-4 | 5-5 |
| 35 | 5 23-8 | | 5 24-6 | 5 09-0 | 3-5 | 1-3 | 9-5 | 3-4 | 15-5 | 5-6 |
| 36 | 5 24-0 | | 5 24-9 | 5 09-2 | 3-6 | 1-3 | 9-6 | 3-4 | 15-6 | 5-6 |
| 37 | 5 24-3 | | 5 25-1 | 5 09-5 | 3-7 | 1-3 | 9-7 | 3-5 | 15-7 | 5-6 |
| 38 | 5 24-5 | | 5 25-4 | 5 09-7 | 3-8 | 1-4 | 9-8 | 3-5 | 15-8 | 5-7 |
| 39 | 5 24-8 | | 5 25-6 | 5 10-0 | 3-9 | 1-4 | 9-9 | 3-5 | 15-9 | 5-7 |
| 40 | 5 25-0 | | 5 25-9 | 5 10-2 | 4-0 | 1-4 | 10-0 | 3-6 | 16-0 | 5-7 |
| 41 | 5 25-3 | | 5 26-1 | 5 10-4 | 4-1 | 1-5 | 10-1 | 3-6 | 16-1 | 5-8 |
| 42 | 5 25-5 | | 5 26-4 | 5 10-7 | 4-2 | 1-5 | 10-2 | 3-7 | 16-2 | 5-8 |
| 43 | 5 25-8 | | 5 26-6 | 5 10-9 | 4-3 | 1-5 | 10-3 | 3-7 | 16-3 | 5-8 |
| 44 | 5 26-0 | | 5 26-9 | 5 11-1 | 4-4 | 1-6 | 10-4 | 3-7 | 16-4 | 5-9 |
| 45 | 5 26-3 | | 5 27-1 | 5 11-4 | 4-5 | 1-6 | 10-5 | 3-8 | 16-5 | 5-9 |
| 46 | 5 26-5 | | 5 27-4 | 5 11-6 | 4-6 | 1-6 | 10-6 | 3-8 | 16-6 | 5-9 |
| 47 | 5 26-8 | | 5 27-6 | 5 11-9 | 4-7 | 1-7 | 10-7 | 3-8 | 16-7 | 6-0 |
| 48 | 5 27-0 | | 5 27-9 | 5 12-1 | 4-8 | 1-7 | 10-8 | 3-9 | 16-8 | 6-0 |
| 49 | 5 27-3 | | 5 28-1 | 5 12-3 | 4-9 | 1-8 | 10-9 | 3-9 | 16-9 | 6-1 |
| 50 | 5 27-5 | | 5 28-4 | 5 12-6 | 5-0 | 1-8 | 11-0 | 3-9 | 17-0 | 6-1 |
| 51 | 5 27-8 | | 5 28-6 | 5 12-8 | 5-1 | 1-8 | 11-1 | 4-0 | 17-1 | 6-1 |
| 52 | 5 28-0 | | 5 28-9 | 5 13-1 | 5-2 | 1-9 | 11-2 | 4-0 | 17-2 | 6-2 |
| 53 | 5 28-3 | | 5 29-1 | 5 13-3 | 5-3 | 1-9 | 11-3 | 4-0 | 17-3 | 6-2 |
| 54 | 5 28-5 | | 5 29-4 | 5 13-5 | 5-4 | 1-9 | 11-4 | 4-1 | 17-4 | 6-2 |
| 55 | 5 28-8 | | 5 29-7 | 5 13-8 | 5-5 | 2-0 | 11-5 | 4-1 | 17-5 | 6-3 |
| 56 | 5 29-0 | | 5 29-9 | 5 14-0 | 5-6 | 2-0 | 11-6 | 4-2 | 17-6 | 6-3 |
| 57 | 5 29-3 | | 5 30-2 | 5 14-3 | 5-7 | 2-0 | 11-7 | 4-2 | 17-7 | 6-3 |
| 58 | 5 29-5 | | 5 30-4 | 5 14-5 | 5 | | | | | |

| 22 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|-----------|-----------|-----------|----------------------------------|----------|----------------------------------|-------|----------------------------------|-------|
| | s | o / ' / " | o / ' / " | o / ' / " | ' / " | ' / " | ' / " | ' / " | ' / " | ' / " |
| 00 | 5 30-0 | 5 30-9 | 5 15-0 | 0-0 0-0 | 6-0 2-3 | 12-0 4-5 | | | | |
| 01 | 5 30-3 | 5 31-2 | 5 15-2 | 0-1 0-0 | 6-1 2-3 | 12-1 4-5 | | | | |
| 02 | 5 30-5 | 5 31-4 | 5 15-4 | 0-2 0-1 | 6-2 2-3 | 12-2 4-6 | | | | |
| 03 | 5 30-8 | 5 31-7 | 5 15-7 | 0-3 0-1 | 6-3 2-4 | 12-3 4-6 | | | | |
| 04 | 5 31-0 | 5 31-9 | 5 15-9 | 0-4 0-2 | 6-4 2-4 | 12-4 4-7 | | | | |
| 05 | 5 31-3 | 5 32-2 | 5 16-2 | 0-5 0-2 | 6-5 2-4 | 12-5 4-7 | | | | |
| 06 | 5 31-5 | 5 32-4 | 5 16-4 | 0-6 0-2 | 6-6 2-5 | 12-6 4-7 | | | | |
| 07 | 5 31-8 | 5 32-7 | 5 16-6 | 0-7 0-3 | 6-7 2-5 | 12-7 4-8 | | | | |
| 08 | 5 32-0 | 5 32-9 | 5 16-9 | 0-8 0-3 | 6-8 2-6 | 12-8 4-8 | | | | |
| 09 | 5 32-3 | 5 33-2 | 5 17-1 | 0-9 0-3 | 6-9 2-6 | 12-9 4-8 | | | | |
| 10 | 5 32-5 | 5 33-4 | 5 17-4 | 1-0 0-4 | 7-0 2-6 | 13-0 4-9 | | | | |
| 11 | 5 32-8 | 5 33-7 | 5 17-6 | 1-1 0-4 | 7-1 2-7 | 13-1 4-9 | | | | |
| 12 | 5 33-0 | 5 33-9 | 5 17-8 | 1-2 0-5 | 7-2 2-7 | 13-2 5-0 | | | | |
| 13 | 5 33-3 | 5 34-2 | 5 18-1 | 1-3 0-5 | 7-3 2-7 | 13-3 5-0 | | | | |
| 14 | 5 33-5 | 5 34-4 | 5 18-3 | 1-4 0-5 | 7-4 2-8 | 13-4 5-0 | | | | |
| 15 | 5 33-8 | 5 34-7 | 5 18-5 | 1-5 0-6 | 7-5 2-8 | 13-5 5-1 | | | | |
| 16 | 5 34-0 | 5 34-9 | 5 18-8 | 1-6 0-6 | 7-6 2-9 | 13-6 5-1 | | | | |
| 17 | 5 34-3 | 5 35-2 | 5 19-0 | 1-7 0-6 | 7-7 2-9 | 13-7 5-1 | | | | |
| 18 | 5 34-5 | 5 35-4 | 5 19-3 | 1-8 0-7 | 7-8 2-9 | 13-8 5-2 | | | | |
| 19 | 5 34-8 | 5 35-7 | 5 19-5 | 1-9 0-7 | 7-9 3-0 | 13-9 5-2 | | | | |
| 20 | 5 35-0 | 5 35-9 | 5 19-7 | 2-0 0-8 | 8-0 3-0 | 14-0 5-3 | | | | |
| 21 | 5 35-3 | 5 36-2 | 5 20-0 | 2-1 0-8 | 8-1 3-0 | 14-1 5-3 | | | | |
| 22 | 5 35-5 | 5 36-4 | 5 20-2 | 2-2 0-8 | 8-2 3-1 | 14-2 5-3 | | | | |
| 23 | 5 35-8 | 5 36-7 | 5 20-5 | 2-3 0-9 | 8-3 3-1 | 14-3 5-4 | | | | |
| 24 | 5 36-0 | 5 36-9 | 5 20-7 | 2-4 0-9 | 8-4 3-2 | 14-4 5-4 | | | | |
| 25 | 5 36-3 | 5 37-2 | 5 20-9 | 2-5 0-9 | 8-5 3-2 | 14-5 5-4 | | | | |
| 26 | 5 36-5 | 5 37-4 | 5 21-2 | 2-6 1-0 | 8-6 3-2 | 14-6 5-5 | | | | |
| 27 | 5 36-8 | 5 37-7 | 5 21-4 | 2-7 1-0 | 8-7 3-3 | 14-7 5-5 | | | | |
| 28 | 5 37-0 | 5 37-9 | 5 21-6 | 2-8 1-1 | 8-8 3-3 | 14-8 5-6 | | | | |
| 29 | 5 37-3 | 5 38-2 | 5 21-9 | 2-9 1-1 | 8-9 3-3 | 14-9 5-6 | | | | |
| 30 | 5 37-5 | 5 38-4 | 5 22-1 | 3-0 1-1 | 9-0 3-4 | 15-0 5-6 | | | | |
| 31 | 5 37-8 | 5 38-7 | 5 22-4 | 3-1 1-2 | 9-1 3-4 | 15-1 5-7 | | | | |
| 32 | 5 38-0 | 5 38-9 | 5 22-6 | 3-2 1-2 | 9-2 3-5 | 15-2 5-7 | | | | |
| 33 | 5 38-3 | 5 39-2 | 5 22-8 | 3-3 1-2 | 9-3 3-5 | 15-3 5-7 | | | | |
| 34 | 5 38-5 | 5 39-4 | 5 23-1 | 3-4 1-3 | 9-4 3-5 | 15-4 5-8 | | | | |
| 35 | 5 38-8 | 5 39-7 | 5 23-3 | 3-5 1-3 | 9-5 3-6 | 15-5 5-8 | | | | |
| 36 | 5 39-0 | 5 39-9 | 5 23-6 | 3-6 1-4 | 9-6 3-6 | 15-6 5-9 | | | | |
| 37 | 5 39-3 | 5 40-2 | 5 23-8 | 3-7 1-4 | 9-7 3-6 | 15-7 5-9 | | | | |
| 38 | 5 39-5 | 5 40-4 | 5 24-0 | 3-8 1-4 | 9-8 3-7 | 15-8 5-9 | | | | |
| 39 | 5 39-8 | 5 40-7 | 5 24-3 | 3-9 1-5 | 9-9 3-7 | 15-9 6-0 | | | | |
| 40 | 5 40-0 | 5 40-9 | 5 24-5 | 4-0 1-5 | 10-0 3-8 | 16-0 6-0 | | | | |
| 41 | 5 40-3 | 5 41-2 | 5 24-7 | 4-1 1-5 | 10-1 3-8 | 16-1 6-0 | | | | |
| 42 | 5 40-5 | 5 41-4 | 5 25-0 | 4-2 1-6 | 10-2 3-8 | 16-2 6-1 | | | | |
| 43 | 5 40-8 | 5 41-7 | 5 25-2 | 4-3 1-6 | 10-3 3-9 | 16-3 6-1 | | | | |
| 44 | 5 41-0 | 5 41-9 | 5 25-5 | 4-4 1-7 | 10-4 3-9 | 16-4 6-2 | | | | |
| 45 | 5 41-3 | 5 42-2 | 5 25-7 | 4-5 1-7 | 10-5 3-9 | 16-5 6-2 | | | | |
| 46 | 5 41-5 | 5 42-4 | 5 25-9 | 4-6 1-7 | 10-6 4-0 | 16-6 6-2 | | | | |
| 47 | 5 41-8 | 5 42-7 | 5 26-2 | 4-7 1-8 | 10-7 4-0 | 16-7 6-3 | | | | |
| 48 | 5 42-0 | 5 42-9 | 5 26-4 | 4-8 1-8 | 10-8 4-1 | 16-8 6-3 | | | | |
| 49 | 5 42-3 | 5 43-2 | 5 26-7 | 4-9 1-8 | 10-9 4-1 | 16-9 6-3 | | | | |
| 50 | 5 42-5 | 5 43-4 | 5 26-9 | 5-0 1-9 | 11-0 4-1 | 17-0 6-4 | | | | |
| 51 | 5 42-8 | 5 43-7 | 5 27-1 | 5-1 1-9 | 11-1 4-2 | 17-1 6-4 | | | | |
| 52 | 5 43-0 | 5 43-9 | 5 27-4 | 5-2 2-0 | 11-2 4-2 | 17-2 6-5 | | | | |
| 53 | 5 43-3 | 5 44-2 | 5 27-6 | 5-3 2-0 | 11-3 4-2 | 17-3 6-5 | | | | |
| 54 | 5 43-5 | 5 44-4 | 5 27-9 | 5-4 2-0 | 11-4 4-3 | 17-4 6-5 | | | | |
| 55 | 5 43-8 | 5 44-7 | 5 28-1 | 5-5 2-1 | 11-5 4-3 | 17-5 6-6 | | | | |
| 56 | 5 44-0 | 5 44-9 | 5 28-3 | 5-6 2-1 | 11-6 4-4 | 17-6 6-6 | | | | |
| 57 | 5 44-3 | 5 45-2 | 5 28-6 | 5-7 2-1 | 11-7 4-4 | 17-7 6-6 | | | | |
| 58 | 5 44-5 | 5 45-4 | 5 28-8 | 5-8 2-2 | 11-8 4-4 | 17-8 6-7 | | | | |
| 59 | 5 44-8 | 5 45-7 | 5 29-0 | 5-9 2-2 | 11-9 4-5 | 17-9 6-7 | | | | |
| 60 | 5 45-0 | 5 45-9 | 5 29-3 | 6-0 2-3 | 12-0 4-5 | 18-0 6-8 | | | | |

| 23 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|-----------|-----------|-----------|----------------------------------|----------|----------------------------------|-------|----------------------------------|-------|
| | s | o / ' / " | o / ' / " | o / ' / " | ' / " | ' / " | ' / " | ' / " | ' / " | ' / " |
| 00 | 5 45-0 | 5 45-9 | 5 29-3 | 0-0 0-0 | 6-0 2-4 | 12-0 4-7 | | | | |
| 01 | 5 45-3 | 5 46-2 | 5 29-5 | 0-1 0-0 | 6-1 2-4 | 12-1 4-7 | | | | |
| 02 | 5 45-5 | 5 46-4 | 5 29-8 | 0-2 0-1 | 6-2 2-4 | 12-2 4-8 | | | | |
| 03 | 5 45-8 | 5 46-7 | 5 30-0 | 0-3 0-1 | 6-3 2-5 | 12-3 4-8 | | | | |
| 04 | 5 46-0 | 5 46-9 | 5 30-2 | 0-4 0-2 | 6-4 2-5 | 12-4 4-9 | | | | |
| 05 | 5 46-3 | 5 47-2 | 5 30-5 | 0-5 0-2 | 6-5 2-5 | 12-5 4-9 | | | | |
| 06 | 5 46-5 | 5 47-4 | 5 30-7 | 0-6 0-2 | 6-6 2-6 | 12-6 4-9 | | | | |
| 07 | 5 46-8 | 5 47-7 | 5 31-0 | 0-7 0-3 | 6-7 2-6 | 12-7 5-0 | | | | |
| 08 | 5 47-0 | 5 48-0 | 5 31-2 | 0-8 0-3 | 6-8 2-7 | 12-8 5-0 | | | | |
| 09 | 5 47-3 | 5 48-2 | 5 31-4 | 0-9 0-4 | 6-9 2-7 | 12-9 5-1 | | | | |
| 10 | 5 47-5 | 5 48-5 | 5 31-7 | 1-0 0-4 | 7-0 2-7 | 13-0 5-1 | | | | |
| 11 | 5 47-8 | 5 48-7 | 5 31-9 | 1-1 0-4 | 7-1 2-8 | 13-1 5-1 | | | | |
| 12 | 5 48-0 | 5 49-0 | 5 32-1 | 1-2 0-5 | 7-2 2-8 | 13-2 5-2 | | | | |
| 13 | 5 48-3 | 5 49-2 | 5 32-4 | 1-3 0-5 | 7-3 2-9 | 13-3 5-2 | | | | |
| 14 | 5 48-5 | 5 49-5 | 5 32-6 | 1-4 0-5 | 7-4 2-9 | 13-4 5-2 | | | | |
| 15 | 5 48-8 | 5 49-7 | 5 32-9 | 1-5 0-6 | 7-5 2-9 | 13-5 5-3 | | | | |
| 16 | 5 49-0 | 5 50-0 | 5 33-1 | 1-6 0-6 | 7-6 3-0 | 13-6 5-3 | | | | |
| 17 | 5 49-3 | 5 50-2 | 5 33-3 | 1-7 0-7 | 7-7 3-0 | 13-7 5-4 | | | | |
| 18 | 5 49-5 | 5 50-5 | 5 33-6 | 1-8 0-7 | 7-8 3-1 | 13-8 5-4 | | | | |
| 19 | 5 49-8 | 5 50-7 | 5 33-8 | 1-9 0-7 | 7-9 3-1 | 13-9 5-4 | | | | |
| 20 | 5 50-0 | 5 51-0 | 5 34-1 | 2-0 0-8 | 8-0 3-1 | 14-0 5-5 | | | | |
| 21 | 5 50-3 | 5 51-2 | 5 34-3 | 2-1 0-8 | 8-1 3-2 | 14-1 5-5 | | | | |
| 22 | 5 50-5 | 5 51-5 | 5 34-5 | 2-2 0-9 | 8-2 3-2 | 14-2 5-6 | | | | |
| 23 | 5 50-8 | 5 51-7 | 5 34-8 | 2-3 0-9 | 8-3 3-3 | 14-3 5-6 | | | | |
| 24 | 5 51-0 | 5 52-0 | 5 35-0 | 2-4 0-9 | 8-4 3-3 | 14-4 5-6 | | | | |
| 25 | 5 51-3 | 5 52-2 | 5 35-2 | 2-5 1-0 | 8-5 3-3 | 14-5 5-7 | | | | |
| 26 | 5 51-5 | 5 52-5 | 5 35-5 | 2-6 1-0 | 8-6 3-4 | 14-6 5-7 | | | | |
| 27 | 5 51-8 | 5 52-7 | 5 35-7 | 2-7 1-1 | 8-7 3-4 | 14-7 5-8 | | | | |
| 28 | 5 52-0 | 5 53-0 | 5 36-0 | 2-8 1-1 | 8-8 3-4 | 14-8 5-8 | | | | |
| 29 | 5 52-3 | 5 53-2 | 5 36-2 | 2-9 1-1 | 8-9 3-5 | 14-9 5-8 | | | | |
| 30 | 5 52-5 | 5 53-5 | 5 36-4 | 3-0 1-2 | 9-0 3-5 | 15-0 5-9 | | | | |
| 31 | 5 52-8 | 5 53-7 | 5 36-7 | 3-1 1-2 | 9-1 3-6 | 15-1 5-9 | | | | |
| 32 | 5 53-0 | 5 54-0 | 5 36-9 | 3-2 1-3 | 9-2 3-6 | 15-2 6-0 | | | | |
| 33 | 5 53-3 | 5 54-2 | 5 37-2 | 3-3 1-3 | 9-3 3-6 | 15-3 6-0 | | | | |
| 34 | 5 53-5 | 5 54-5 | 5 37-4 | 3-4 1-3 | 9-4 3-7 | 15-4 6-0 | | | | |
| 35 | 5 53-8 | 5 54-7 | 5 37-6 | 3-5 1-4 | 9-5 3-7 | 15-5 6-1 | | | | |
| 36 | 5 54-0 | 5 55-0 | 5 37-9 | 3-6 1-4 | 9-6 3-8 | 15-6 6-1 | | | | |
| 37 | 5 54-3 | 5 55-2 | 5 38-1 | 3-7 1-4 | 9-7 3-8 | 15-7 6-1 | | | | |
| 38 | 5 54-5 | 5 55-5 | 5 38-4 | 3-8 1-5 | 9-8 3-8 | 15-8 6-2 | | | | |
| 39 | 5 54-8 | 5 55-7 | 5 38-6 | 3-9 1-5 | 9-9 3-9 | 15-9 6-2 | | | | |
| 40 | 5 55-0 | 5 56-0 | 5 38-8 | 4-0 1-6 | 10-0 3-9 | 16-0 6-3 | | | | |
| 41 | 5 55-3 | 5 56-2 | 5 39-1 | 4-1 1-6 | 10-1 4-0 | 16-1 6-3 | | | | |
| 42 | 5 55-5 | 5 56-5 | 5 39-3 | 4-2 1-6 | 10-2 4-0 | 16-2 6-3 | | | | |
| 43 | 5 55-8 | 5 56-7 | 5 39-5 | 4-3 1-7 | 10-3 4-0 | 16-3 6-4 | | | | |
| 44 | 5 56-0 | 5 57-0 | 5 39-8 | 4-4 1-7 | 10-4 4-1 | 16-4 6-4 | | | | |
| 45 | 5 56-3 | 5 57-2 | 5 40-0 | 4-5 1-8 | 10-5 4-1 | 16-5 6-5 | | | | |
| 46 | 5 56-5 | 5 57-5 | 5 40-3 | 4-6 1-8 | 10-6 4-2 | 16-6 6-5 | | | | |
| 47 | 5 56-8 | 5 57-7 | 5 40-5 | 4-7 1-8 | 10-7 4-2 | 16-7 6-5 | | | | |
| 48 | 5 57-0 | 5 58-0 | 5 40-7 | 4-8 1-9 | 10-8 4-2 | 16-8 6-6 | | | | |
| 49 | 5 57-3 | 5 58-2 | 5 41-0 | 4-9 1-9 | 10-9 4-3 | 16-9 6-6 | | | | |
| 50 | 5 57-5 | 5 58-5 | 5 41-2 | 5-0 2-0 | 11-0 4-3 | 17-0 6-7 | | | | |
| 51 | 5 57-8 | 5 58-7 | 5 41-5 | 5-1 2-0 | 11-1 4-3 | 17-1 6-7 | | | | |
| 52 | 5 58-0 | 5 59-0 | 5 41-7 | 5-2 2-0 | 11-2 4-4 | 17-2 6-7 | | | | |
| 53 | 5 58-3 | 5 59-2 | 5 41-9 | 5-3 2-1 | 11-3 4-4 | 17-3 6-8 | | | | |
| 54 | 5 58-5 | 5 59-5 | 5 42-2 | 5-4 2-1 | 11-4 4-5 | 17-4 6-8 | | | | |
| 55 | 5 58-8 | 5 59-7 | 5 42-4 | 5-5 2-2 | 11-5 4-5 | 17-5 6-9 | | | | |
| 56 | 5 59-0 | 6 00-0 | 5 42-6 | 5-6 2-2 | 11-6 4-5 | 17-6 6-9 | | | | |
| 57 | 5 59-3 | 6 00-2 | 5 42-9 | 5-7 2-2 | 11-7 4-6 | 17-7 6-9 | | | | |
| 58 | 5 59-5 | 6 00-5 | 5 43-1</ | | | | | | | |

| 24 ^m | SOL PLANETAS | | ARIES | | LUNA | | v ^o Corr ⁿ d | | v ^o Corr ⁿ d | | v ^o Corr ⁿ d | |
|-----------------|--------------|--------|--------|-----|------|------|---------------------------------------|------|---------------------------------------|-----|---------------------------------------|-----|
| | s | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / |
| 00 | 6 00-0 | 6 01-0 | 5 43-6 | 0-0 | 0-0 | 6-0 | 2-5 | 12-0 | 4-9 | | | |
| 01 | 6 00-3 | 6 01-2 | 5 43-8 | 0-1 | 0-0 | 6-1 | 2-5 | 12-1 | 4-9 | | | |
| 02 | 6 00-5 | 6 01-5 | 5 44-1 | 0-2 | 0-1 | 6-2 | 2-5 | 12-2 | 5-0 | | | |
| 03 | 6 00-8 | 6 01-7 | 5 44-3 | 0-3 | 0-1 | 6-3 | 2-6 | 12-3 | 5-0 | | | |
| 04 | 6 01-0 | 6 02-0 | 5 44-6 | 0-4 | 0-2 | 6-4 | 2-6 | 12-4 | 5-1 | | | |
| 05 | 6 01-3 | 6 02-2 | 5 44-8 | 0-5 | 0-2 | 6-5 | 2-7 | 12-5 | 5-1 | | | |
| 06 | 6 01-5 | 6 02-5 | 5 45-0 | 0-6 | 0-2 | 6-6 | 2-7 | 12-6 | 5-1 | | | |
| 07 | 6 01-8 | 6 02-7 | 5 45-3 | 0-7 | 0-3 | 6-7 | 2-7 | 12-7 | 5-2 | | | |
| 08 | 6 02-0 | 6 03-0 | 5 45-5 | 0-8 | 0-3 | 6-8 | 2-8 | 12-8 | 5-2 | | | |
| 09 | 6 02-3 | 6 03-2 | 5 45-7 | 0-9 | 0-4 | 6-9 | 2-8 | 12-9 | 5-3 | | | |
| 10 | 6 02-5 | 6 03-5 | 5 46-0 | 1-0 | 0-4 | 7-0 | 2-9 | 13-0 | 5-3 | | | |
| 11 | 6 02-8 | 6 03-7 | 5 46-2 | 1-1 | 0-4 | 7-1 | 2-9 | 13-1 | 5-3 | | | |
| 12 | 6 03-0 | 6 04-0 | 5 46-5 | 1-2 | 0-5 | 7-2 | 2-9 | 13-2 | 5-4 | | | |
| 13 | 6 03-3 | 6 04-2 | 5 46-7 | 1-3 | 0-5 | 7-3 | 3-0 | 13-3 | 5-4 | | | |
| 14 | 6 03-5 | 6 04-5 | 5 46-9 | 1-4 | 0-6 | 7-4 | 3-0 | 13-4 | 5-5 | | | |
| 15 | 6 03-8 | 6 04-7 | 5 47-2 | 1-5 | 0-6 | 7-5 | 3-1 | 13-5 | 5-5 | | | |
| 16 | 6 04-0 | 6 05-0 | 5 47-4 | 1-6 | 0-7 | 7-6 | 3-1 | 13-6 | 5-6 | | | |
| 17 | 6 04-3 | 6 05-2 | 5 47-7 | 1-7 | 0-7 | 7-7 | 3-1 | 13-7 | 5-6 | | | |
| 18 | 6 04-5 | 6 05-5 | 5 47-9 | 1-8 | 0-7 | 7-8 | 3-2 | 13-8 | 5-6 | | | |
| 19 | 6 04-8 | 6 05-7 | 5 48-1 | 1-9 | 0-8 | 7-9 | 3-2 | 13-9 | 5-7 | | | |
| 20 | 6 05-0 | 6 06-0 | 5 48-4 | 2-0 | 0-8 | 8-0 | 3-3 | 14-0 | 5-7 | | | |
| 21 | 6 05-3 | 6 06-3 | 5 48-6 | 2-1 | 0-9 | 8-1 | 3-3 | 14-1 | 5-8 | | | |
| 22 | 6 05-5 | 6 06-5 | 5 48-8 | 2-2 | 0-9 | 8-2 | 3-3 | 14-2 | 5-8 | | | |
| 23 | 6 05-8 | 6 06-8 | 5 49-1 | 2-3 | 0-9 | 8-3 | 3-4 | 14-3 | 5-8 | | | |
| 24 | 6 06-0 | 6 07-0 | 5 49-3 | 2-4 | 1-0 | 8-4 | 3-4 | 14-4 | 5-9 | | | |
| 25 | 6 06-3 | 6 07-3 | 5 49-6 | 2-5 | 1-0 | 8-5 | 3-5 | 14-5 | 5-9 | | | |
| 26 | 6 06-5 | 6 07-5 | 5 49-8 | 2-6 | 1-1 | 8-6 | 3-5 | 14-6 | 6-0 | | | |
| 27 | 6 06-8 | 6 07-8 | 5 50-0 | 2-7 | 1-1 | 8-7 | 3-6 | 14-7 | 6-0 | | | |
| 28 | 6 07-0 | 6 08-0 | 5 50-3 | 2-8 | 1-1 | 8-8 | 3-6 | 14-8 | 6-0 | | | |
| 29 | 6 07-3 | 6 08-3 | 5 50-5 | 2-9 | 1-2 | 8-9 | 3-6 | 14-9 | 6-1 | | | |
| 30 | 6 07-5 | 6 08-5 | 5 50-8 | 3-0 | 1-2 | 9-0 | 3-7 | 15-0 | 6-1 | | | |
| 31 | 6 07-8 | 6 08-8 | 5 51-0 | 3-1 | 1-3 | 9-1 | 3-7 | 15-1 | 6-2 | | | |
| 32 | 6 08-0 | 6 09-0 | 5 51-2 | 3-2 | 1-3 | 9-2 | 3-8 | 15-2 | 6-2 | | | |
| 33 | 6 08-3 | 6 09-3 | 5 51-5 | 3-3 | 1-3 | 9-3 | 3-8 | 15-3 | 6-2 | | | |
| 34 | 6 08-5 | 6 09-5 | 5 51-7 | 3-4 | 1-4 | 9-4 | 3-8 | 15-4 | 6-3 | | | |
| 35 | 6 08-8 | 6 09-8 | 5 52-0 | 3-5 | 1-4 | 9-5 | 3-9 | 15-5 | 6-3 | | | |
| 36 | 6 09-0 | 6 10-0 | 5 52-2 | 3-6 | 1-5 | 9-6 | 3-9 | 15-6 | 6-4 | | | |
| 37 | 6 09-3 | 6 10-3 | 5 52-4 | 3-7 | 1-5 | 9-7 | 4-0 | 15-7 | 6-4 | | | |
| 38 | 6 09-5 | 6 10-5 | 5 52-7 | 3-8 | 1-6 | 9-8 | 4-0 | 15-8 | 6-5 | | | |
| 39 | 6 09-8 | 6 10-8 | 5 52-9 | 3-9 | 1-6 | 9-9 | 4-0 | 15-9 | 6-5 | | | |
| 40 | 6 10-0 | 6 11-0 | 5 53-1 | 4-0 | 1-6 | 10-0 | 4-1 | 16-0 | 6-5 | | | |
| 41 | 6 10-3 | 6 11-3 | 5 53-4 | 4-1 | 1-7 | 10-1 | 4-1 | 16-1 | 6-6 | | | |
| 42 | 6 10-5 | 6 11-5 | 5 53-6 | 4-2 | 1-7 | 10-2 | 4-2 | 16-2 | 6-6 | | | |
| 43 | 6 10-8 | 6 11-8 | 5 53-9 | 4-3 | 1-8 | 10-3 | 4-2 | 16-3 | 6-7 | | | |
| 44 | 6 11-0 | 6 12-0 | 5 54-1 | 4-4 | 1-8 | 10-4 | 4-2 | 16-4 | 6-7 | | | |
| 45 | 6 11-3 | 6 12-3 | 5 54-3 | 4-5 | 1-8 | 10-5 | 4-3 | 16-5 | 6-7 | | | |
| 46 | 6 11-5 | 6 12-5 | 5 54-6 | 4-6 | 1-9 | 10-6 | 4-3 | 16-6 | 6-8 | | | |
| 47 | 6 11-8 | 6 12-8 | 5 54-8 | 4-7 | 1-9 | 10-7 | 4-4 | 16-7 | 6-8 | | | |
| 48 | 6 12-0 | 6 13-0 | 5 55-1 | 4-8 | 2-0 | 10-8 | 4-4 | 16-8 | 6-9 | | | |
| 49 | 6 12-3 | 6 13-3 | 5 55-3 | 4-9 | 2-0 | 10-9 | 4-5 | 16-9 | 6-9 | | | |
| 50 | 6 12-5 | 6 13-5 | 5 55-5 | 5-0 | 2-0 | 11-0 | 4-5 | 17-0 | 6-9 | | | |
| 51 | 6 12-8 | 6 13-8 | 5 55-8 | 5-1 | 2-1 | 11-1 | 4-5 | 17-1 | 7-0 | | | |
| 52 | 6 13-0 | 6 14-0 | 5 56-0 | 5-2 | 2-1 | 11-2 | 4-6 | 17-2 | 7-0 | | | |
| 53 | 6 13-3 | 6 14-3 | 5 56-2 | 5-3 | 2-2 | 11-3 | 4-6 | 17-3 | 7-1 | | | |
| 54 | 6 13-5 | 6 14-5 | 5 56-5 | 5-4 | 2-2 | 11-4 | 4-7 | 17-4 | 7-1 | | | |
| 55 | 6 13-8 | 6 14-8 | 5 56-7 | 5-5 | 2-2 | 11-5 | 4-7 | 17-5 | 7-1 | | | |
| 56 | 6 14-0 | 6 15-0 | 5 57-0 | 5-6 | 2-3 | 11-6 | 4-7 | 17-6 | 7-2 | | | |
| 57 | 6 14-3 | 6 15-3 | 5 57-2 | 5-7 | 2-3 | 11-7 | 4-8 | 17-7 | 7-2 | | | |
| 58 | 6 14-5 | 6 15-5 | 5 57-4 | 5-8 | 2-4 | 11-8 | 4-8 | 17-8 | 7-3 | | | |
| 59 | 6 14-8 | 6 15-8 | 5 57-7 | 5-9 | 2-4 | 11-9 | 4-9 | 17-9 | 7-3 | | | |
| 60 | 6 15-0 | 6 16-0 | 5 57-9 | 6-0 | 2-5 | 12-0 | 4-9 | 18-0 | 7-4 | | | |

| 25 ^m | SOL PLANETAS | | ARIES | | LUNA | | v ^o Corr ⁿ d | | v ^o Corr ⁿ d | | v ^o Corr ⁿ d | |
|-----------------|--------------|--------|--------|-----|------|------|---------------------------------------|------|---------------------------------------|-----|---------------------------------------|-----|
| | s | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / |
| 00 | 6 15-0 | 5 16-0 | 5 57-9 | 0-0 | 0-0 | 6-0 | 2-6 | 12-0 | 5-1 | | | |
| 01 | 6 15-3 | 5 16-3 | 5 58-2 | 0-1 | 0-0 | 6-1 | 2-6 | 12-1 | 5-1 | | | |
| 02 | 6 15-5 | 5 16-5 | 5 58-4 | 0-2 | 0-1 | 6-2 | 2-6 | 12-2 | 5-2 | | | |
| 03 | 6 15-8 | 5 16-8 | 5 58-6 | 0-3 | 0-1 | 6-3 | 2-7 | 12-3 | 5-2 | | | |
| 04 | 6 16-0 | 5 17-0 | 5 58-9 | 0-4 | 0-2 | 6-4 | 2-7 | 12-4 | 5-3 | | | |
| 05 | 6 16-3 | 6 17-3 | 5 59-1 | 0-5 | 0-2 | 6-5 | 2-8 | 12-5 | 5-3 | | | |
| 06 | 6 16-5 | 6 17-5 | 5 59-3 | 0-6 | 0-3 | 6-6 | 2-8 | 12-6 | 5-4 | | | |
| 07 | 6 16-8 | 6 17-8 | 5 59-6 | 0-7 | 0-3 | 6-7 | 2-8 | 12-7 | 5-4 | | | |
| 08 | 6 17-0 | 6 18-0 | 5 59-8 | 0-8 | 0-3 | 6-8 | 2-9 | 12-8 | 5-4 | | | |
| 09 | 6 17-3 | 6 18-3 | 6 00-1 | 0-9 | 0-4 | 6-9 | 2-9 | 12-9 | 5-5 | | | |
| 10 | 6 17-5 | 6 18-5 | 6 00-3 | 1-0 | 0-4 | 7-0 | 3-0 | 13-0 | 5-5 | | | |
| 11 | 6 17-8 | 6 18-8 | 6 00-5 | 1-1 | 0-5 | 7-1 | 3-0 | 13-1 | 5-6 | | | |
| 12 | 6 18-0 | 6 19-0 | 6 00-8 | 1-2 | 0-5 | 7-2 | 3-1 | 13-2 | 5-6 | | | |
| 13 | 6 18-3 | 6 19-3 | 6 01-0 | 1-3 | 0-6 | 7-3 | 3-1 | 13-3 | 5-7 | | | |
| 14 | 6 18-5 | 6 19-5 | 6 01-3 | 1-4 | 0-6 | 7-4 | 3-1 | 13-4 | 5-7 | | | |
| 15 | 6 18-8 | 6 19-8 | 6 01-5 | 1-5 | 0-6 | 7-5 | 3-2 | 13-5 | 5-7 | | | |
| 16 | 6 19-0 | 6 20-0 | 6 01-7 | 1-6 | 0-7 | 7-6 | 3-2 | 13-6 | 5-8 | | | |
| 17 | 6 19-3 | 6 20-3 | 6 02-0 | 1-7 | 0-7 | 7-7 | 3-3 | 13-7 | 5-8 | | | |
| 18 | 6 19-5 | 6 20-5 | 6 02-2 | 1-8 | 0-8 | 7-8 | 3-3 | 13-8 | 5-9 | | | |
| 19 | 6 19-8 | 6 20-8 | 6 02-5 | 1-9 | 0-8 | 7-9 | 3-4 | 13-9 | 5-9 | | | |
| 20 | 6 20-0 | 6 21-0 | 6 02-7 | 2-0 | 0-9 | 8-0 | 3-4 | 14-0 | 6-0 | | | |
| 21 | 6 20-3 | 6 21-3 | 6 02-9 | 2-1 | 0-9 | 8-1 | 3-4 | 14-1 | 6-0 | | | |
| 22 | 6 20-5 | 6 21-5 | 6 03-2 | 2-2 | 0-9 | 8-2 | 3-5 | 14-2 | 6-0 | | | |
| 23 | 6 20-8 | 6 21-8 | 6 03-4 | 2-3 | 1-0 | 8-3 | 3-5 | 14-3 | 6-1 | | | |
| 24 | 6 21-0 | 6 22-0 | 6 03-6 | 2-4 | 1-0 | 8-4 | 3-6 | 14-4 | 6-1 | | | |
| 25 | 6 21-3 | 6 22-3 | 6 03-9 | 2-5 | 1-1 | 8-5 | 3-6 | 14-5 | 6-2 | | | |
| 26 | 6 21-5 | 6 22-5 | 6 04-1 | 2-6 | 1-1 | 8-6 | 3-7 | 14-6 | 6-2 | | | |
| 27 | 6 21-8 | 6 22-8 | 6 04-4 | 2-7 | 1-1 | 8-7 | 3-7 | 14-7 | 6-2 | | | |
| 28 | 6 22-0 | 6 23-0 | 6 04-6 | 2-8 | 1-2 | 8-8 | 3-7 | 14-8 | 6-3 | | | |
| 29 | 6 22-3 | 6 23-3 | 6 04-8 | 2-9 | 1-2 | 8-9 | 3-8 | 14-9 | 6-3 | | | |
| 30 | 6 22-5 | 6 23-5 | 6 05-1 | 3-0 | 1-3 | 9-0 | 3-8 | 15-0 | 6-4 | | | |
| 31 | 6 22-8 | 6 23-8 | 6 05-3 | 3-1 | 1-3 | 9-1 | 3-9 | 15-1 | 6-4 | | | |
| 32 | 6 23-0 | 6 24-0 | 6 05-6 | 3-2 | 1-4 | 9-2 | 3-9 | 15-2 | 6-5 | | | |
| 33 | 6 23-3 | 6 24-3 | 6 05-8 | 3-3 | 1-4 | 9-3 | 4-0 | 15-3 | 6-5 | | | |
| 34 | 6 23-5 | 6 24-5 | 6 06-0 | 3-4 | 1-4 | 9-4 | 4-0 | 15-4 | 6-5 | | | |
| 35 | 6 23-8 | 6 24-8 | 6 06-3 | 3-5 | 1-5 | 9-5 | 4-0 | 15-5 | 6-6 | | | |
| 36 | 6 24-0 | 6 25-1 | 6 06-5 | 3-6 | 1-5 | 9-6 | 4-1 | 15-6 | 6-6 | | | |
| 37 | 6 24-3 | 6 25-3 | 6 06-7 | 3-7 | 1-6 | 9-7 | 4-1 | 15-7 | 6-7 | | | |
| 38 | 6 24-5 | 6 25-6 | 6 07-0 | 3-8 | 1-6 | 9-8 | 4-2 | 15-8 | 6-7 | | | |
| 39 | 6 24-8 | 6 25-8 | 6 07-2 | 3-9 | 1-7 | 9-9 | 4-2 | 15-9 | 6-8 | | | |
| 40 | 6 25-0 | 6 26-1 | 6 07-5 | 4-0 | 1-7 | 10-0 | 4-3 | 16-0 | 6-8 | | | |
| 41 | 6 25-3 | 6 26-3 | 6 07-7 | 4-1 | 1-7 | 10-1 | 4-3 | 16-1 | 6-8 | | | |
| 42 | 6 25-5 | 6 26-6 | 6 07-9 | 4-2 | 1-8 | 10-2 | 4-3 | 16-2 | 6-9 | | | |
| 43 | 6 25-8 | 6 26-8 | 6 08-2 | 4-3 | 1-8 | 10-3 | 4-4 | 16-3 | 6-9 | | | |
| 44 | 6 26-0 | 6 27-1 | 6 08-4 | 4-4 | 1-9 | 10-4 | 4-4 | 16-4 | 7-0 | | | |
| 45 | 6 26-3 | 6 27-3 | 6 08-7 | 4-5 | 1-9 | 10-5 | 4-5 | 16-5 | 7-0 | | | |
| 46 | 6 26-5 | 6 27-6 | 6 08-9 | 4-6 | 2-0 | 10-6 | 4-5 | 16-6 | 7-1 | | | |
| 47 | 6 26-8 | 6 27-8 | 6 09-1 | 4-7 | 2-0 | 10-7 | 4-5 | 16-7 | 7-1 | | | |
| 48 | 6 27-0 | 6 28-1 | 6 09-4 | 4-8 | 2-0 | 10-8 | 4-6 | 16-8 | 7- | | | |

| 26 ^m | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ | 27 ^m | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ |
|-----------------|--------------|--------|--------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-----------------|--------------|--------|--------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| 00 | 6 30-0 | 6 31-1 | 6 12-2 | 0-0 | 0-0 | 6-0 | 2-7 | 12-0 | 5-3 | 00 | 6 45-0 | 6 46-1 | 6 26-6 | 0-0 | 0-0 | 6-0 | 2-8 | 12-0 | 5-5 |
| 01 | 6 30-3 | 6 31-3 | 6 12-5 | 0-1 | 0-0 | 6-1 | 2-7 | 12-1 | 5-3 | 01 | 6 45-3 | 6 46-4 | 6 26-8 | 0-1 | 0-0 | 6-1 | 2-8 | 12-1 | 5-5 |
| 02 | 6 30-5 | 6 31-6 | 6 12-7 | 0-2 | 0-1 | 6-2 | 2-7 | 12-2 | 5-4 | 02 | 6 45-5 | 6 46-6 | 6 27-0 | 0-2 | 0-1 | 6-2 | 2-8 | 12-2 | 5-6 |
| 03 | 6 30-8 | 6 31-8 | 6 12-9 | 0-3 | 0-1 | 6-3 | 2-8 | 12-3 | 5-4 | 03 | 6 45-8 | 6 46-9 | 6 27-3 | 0-3 | 0-1 | 6-3 | 2-9 | 12-3 | 5-6 |
| 04 | 6 31-0 | 6 32-1 | 6 13-2 | 0-4 | 0-2 | 6-4 | 2-8 | 12-4 | 5-5 | 04 | 6 46-0 | 6 47-1 | 6 27-5 | 0-4 | 0-2 | 6-4 | 2-9 | 12-4 | 5-7 |
| 05 | 6 31-3 | 6 32-3 | 6 13-4 | 0-5 | 0-2 | 6-5 | 2-9 | 12-5 | 5-5 | 05 | 6 46-3 | 6 47-4 | 6 27-7 | 0-5 | 0-2 | 6-5 | 3-0 | 12-5 | 5-7 |
| 06 | 6 31-5 | 6 32-6 | 6 13-7 | 0-6 | 0-3 | 6-6 | 2-9 | 12-6 | 5-6 | 06 | 6 46-5 | 6 47-6 | 6 28-0 | 0-6 | 0-3 | 6-6 | 3-0 | 12-6 | 5-8 |
| 07 | 6 31-8 | 6 32-8 | 6 13-9 | 0-7 | 0-3 | 6-7 | 3-0 | 12-7 | 5-6 | 07 | 6 46-8 | 6 47-9 | 6 28-2 | 0-7 | 0-3 | 6-7 | 3-1 | 12-7 | 5-8 |
| 08 | 6 32-0 | 6 33-1 | 6 14-1 | 0-8 | 0-4 | 6-8 | 3-0 | 12-8 | 5-7 | 08 | 6 47-0 | 6 48-1 | 6 28-5 | 0-8 | 0-4 | 6-8 | 3-1 | 12-8 | 5-9 |
| 09 | 6 32-3 | 6 33-3 | 6 14-4 | 0-9 | 0-4 | 6-9 | 3-0 | 12-9 | 5-7 | 09 | 6 47-3 | 6 48-4 | 6 28-7 | 0-9 | 0-4 | 6-9 | 3-2 | 12-9 | 5-9 |
| 10 | 6 32-5 | 6 33-6 | 6 14-6 | 1-0 | 0-4 | 7-0 | 3-1 | 13-0 | 5-7 | 10 | 6 47-5 | 6 48-6 | 6 28-9 | 1-0 | 0-5 | 7-0 | 3-2 | 13-0 | 6-0 |
| 11 | 6 32-8 | 6 33-8 | 6 14-9 | 1-1 | 0-5 | 7-1 | 3-1 | 13-1 | 5-8 | 11 | 6 47-8 | 6 48-9 | 6 29-2 | 1-1 | 0-5 | 7-1 | 3-3 | 13-1 | 6-0 |
| 12 | 6 33-0 | 6 34-1 | 6 15-1 | 1-2 | 0-5 | 7-2 | 3-2 | 13-2 | 5-8 | 12 | 6 48-0 | 6 49-1 | 6 29-4 | 1-2 | 0-6 | 7-2 | 3-3 | 13-2 | 6-1 |
| 13 | 6 33-3 | 6 34-3 | 6 15-3 | 1-3 | 0-6 | 7-3 | 3-2 | 13-3 | 5-9 | 13 | 6 48-3 | 6 49-4 | 6 29-7 | 1-3 | 0-6 | 7-3 | 3-3 | 13-3 | 6-1 |
| 14 | 6 33-5 | 6 34-6 | 6 15-6 | 1-4 | 0-6 | 7-4 | 3-3 | 13-4 | 5-9 | 14 | 6 48-5 | 6 49-6 | 6 29-9 | 1-4 | 0-6 | 7-4 | 3-4 | 13-4 | 6-1 |
| 15 | 6 33-8 | 6 34-8 | 6 15-8 | 1-5 | 0-7 | 7-5 | 3-3 | 13-5 | 6-0 | 15 | 6 48-8 | 6 49-9 | 6 30-1 | 1-5 | 0-7 | 7-5 | 3-4 | 13-5 | 6-2 |
| 16 | 6 34-0 | 6 35-1 | 6 16-1 | 1-6 | 0-7 | 7-6 | 3-4 | 13-6 | 6-0 | 16 | 6 49-0 | 6 50-1 | 6 30-4 | 1-6 | 0-7 | 7-6 | 3-5 | 13-6 | 6-2 |
| 17 | 6 34-3 | 6 35-3 | 6 16-3 | 1-7 | 0-8 | 7-7 | 3-4 | 13-7 | 6-1 | 17 | 6 49-3 | 6 50-4 | 6 30-6 | 1-7 | 0-8 | 7-7 | 3-5 | 13-7 | 6-3 |
| 18 | 6 34-5 | 6 35-6 | 6 16-5 | 1-8 | 0-8 | 7-8 | 3-4 | 13-8 | 6-1 | 18 | 6 49-5 | 6 50-6 | 6 30-8 | 1-8 | 0-8 | 7-8 | 3-6 | 13-8 | 6-3 |
| 19 | 6 34-8 | 6 35-8 | 6 16-8 | 1-9 | 0-8 | 7-9 | 3-5 | 13-9 | 6-1 | 19 | 6 49-8 | 6 50-9 | 6 31-1 | 1-9 | 0-9 | 7-9 | 3-6 | 13-9 | 6-4 |
| 20 | 6 35-0 | 6 36-1 | 6 17-0 | 2-0 | 0-9 | 8-0 | 3-5 | 14-0 | 6-2 | 20 | 6 50-0 | 6 51-1 | 6 31-3 | 2-0 | 0-9 | 8-0 | 3-7 | 14-0 | 6-4 |
| 21 | 6 35-3 | 6 36-3 | 6 17-2 | 2-1 | 0-9 | 8-1 | 3-6 | 14-1 | 6-2 | 21 | 6 50-3 | 6 51-4 | 6 31-6 | 2-1 | 1-0 | 8-1 | 3-7 | 14-1 | 6-5 |
| 22 | 6 35-5 | 6 36-6 | 6 17-5 | 2-2 | 1-0 | 8-2 | 3-6 | 14-2 | 6-3 | 22 | 6 50-5 | 6 51-6 | 6 31-8 | 2-2 | 1-0 | 8-2 | 3-8 | 14-2 | 6-5 |
| 23 | 6 35-8 | 6 36-8 | 6 17-7 | 2-3 | 1-0 | 8-3 | 3-7 | 14-3 | 6-3 | 23 | 6 50-8 | 6 51-9 | 6 32-0 | 2-3 | 1-1 | 8-3 | 3-8 | 14-3 | 6-6 |
| 24 | 6 36-0 | 6 37-1 | 6 18-0 | 2-4 | 1-1 | 8-4 | 3-7 | 14-4 | 6-4 | 24 | 6 51-0 | 6 52-1 | 6 32-3 | 2-4 | 1-1 | 8-4 | 3-9 | 14-4 | 6-6 |
| 25 | 6 36-3 | 6 37-3 | 6 18-2 | 2-5 | 1-1 | 8-5 | 3-8 | 14-5 | 6-4 | 25 | 6 51-3 | 6 52-4 | 6 32-5 | 2-5 | 1-1 | 8-5 | 3-9 | 14-5 | 6-6 |
| 26 | 6 36-5 | 6 37-6 | 6 18-4 | 2-6 | 1-1 | 8-6 | 3-8 | 14-6 | 6-4 | 26 | 6 51-5 | 6 52-6 | 6 32-8 | 2-6 | 1-2 | 8-6 | 3-9 | 14-6 | 6-7 |
| 27 | 6 36-8 | 6 37-8 | 6 18-7 | 2-7 | 1-2 | 8-7 | 3-8 | 14-7 | 6-5 | 27 | 6 51-8 | 6 52-9 | 6 33-0 | 2-7 | 1-2 | 8-7 | 4-0 | 14-7 | 6-7 |
| 28 | 6 37-0 | 6 38-1 | 6 18-9 | 2-8 | 1-2 | 8-8 | 3-9 | 14-8 | 6-5 | 28 | 6 52-0 | 6 53-1 | 6 33-2 | 2-8 | 1-3 | 8-8 | 4-0 | 14-8 | 6-8 |
| 29 | 6 37-3 | 6 38-3 | 6 19-2 | 2-9 | 1-3 | 8-9 | 3-9 | 14-9 | 6-6 | 29 | 6 52-3 | 6 53-4 | 6 33-5 | 2-9 | 1-3 | 8-9 | 4-1 | 14-9 | 6-8 |
| 30 | 6 37-5 | 6 38-6 | 6 19-4 | 3-0 | 1-3 | 9-0 | 4-0 | 15-0 | 6-6 | 30 | 6 52-5 | 6 53-6 | 6 33-7 | 3-0 | 1-4 | 9-0 | 4-1 | 15-0 | 6-9 |
| 31 | 6 37-8 | 6 38-8 | 6 19-6 | 3-1 | 1-4 | 9-1 | 4-0 | 15-1 | 6-7 | 31 | 6 52-8 | 6 53-9 | 6 33-9 | 3-1 | 1-4 | 9-1 | 4-2 | 15-1 | 6-9 |
| 32 | 6 38-0 | 6 39-1 | 6 19-9 | 3-2 | 1-4 | 9-2 | 4-1 | 15-2 | 6-7 | 32 | 6 53-0 | 6 54-1 | 6 34-2 | 3-2 | 1-5 | 9-2 | 4-2 | 15-2 | 7-0 |
| 33 | 6 38-3 | 6 39-3 | 6 20-1 | 3-3 | 1-5 | 9-3 | 4-1 | 15-3 | 6-8 | 33 | 6 53-3 | 6 54-4 | 6 34-4 | 3-3 | 1-5 | 9-3 | 4-3 | 15-3 | 7-0 |
| 34 | 6 38-5 | 6 39-6 | 6 20-3 | 3-4 | 1-5 | 9-4 | 4-2 | 15-4 | 6-8 | 34 | 6 53-5 | 6 54-6 | 6 34-7 | 3-4 | 1-6 | 9-4 | 4-3 | 15-4 | 7-1 |
| 35 | 6 38-8 | 6 39-8 | 6 20-6 | 3-5 | 1-5 | 9-5 | 4-2 | 15-5 | 6-8 | 35 | 6 53-8 | 6 54-9 | 6 34-9 | 3-5 | 1-6 | 9-5 | 4-4 | 15-5 | 7-1 |
| 36 | 6 39-0 | 6 40-1 | 6 20-8 | 3-6 | 1-6 | 9-6 | 4-2 | 15-6 | 6-9 | 36 | 6 54-0 | 6 55-1 | 6 35-1 | 3-6 | 1-7 | 9-6 | 4-4 | 15-6 | 7-2 |
| 37 | 6 39-3 | 6 40-3 | 6 21-1 | 3-7 | 1-6 | 9-7 | 4-3 | 15-7 | 6-9 | 37 | 6 54-3 | 6 55-4 | 6 35-4 | 3-7 | 1-7 | 9-7 | 4-4 | 15-7 | 7-2 |
| 38 | 6 39-5 | 6 40-6 | 6 21-3 | 3-8 | 1-7 | 9-8 | 4-3 | 15-8 | 7-0 | 38 | 6 54-5 | 6 55-6 | 6 35-6 | 3-8 | 1-7 | 9-8 | 4-5 | 15-8 | 7-2 |
| 39 | 6 39-8 | 6 40-8 | 6 21-5 | 3-9 | 1-7 | 9-9 | 4-4 | 15-9 | 7-0 | 39 | 6 54-8 | 6 55-9 | 6 35-9 | 3-9 | 1-8 | 9-9 | 4-5 | 15-9 | 7-3 |
| 40 | 6 40-0 | 6 41-1 | 6 21-8 | 4-0 | 1-8 | 10-0 | 4-4 | 16-0 | 7-1 | 40 | 6 55-0 | 6 56-1 | 6 36-1 | 4-0 | 1-8 | 10-0 | 4-6 | 16-0 | 7-3 |
| 41 | 6 40-3 | 6 41-3 | 6 22-0 | 4-1 | 1-8 | 10-1 | 4-5 | 16-1 | 7-1 | 41 | 6 55-3 | 6 56-4 | 6 36-3 | 4-1 | 1-9 | 10-1 | 4-6 | 16-1 | 7-4 |
| 42 | 6 40-5 | 6 41-6 | 6 22-3 | 4-2 | 1-9 | 10-2 | 4-5 | 16-2 | 7-2 | 42 | 6 55-5 | 6 56-6 | 6 36-6 | 4-2 | 1-9 | 10-2 | 4-7 | 16-2 | 7-4 |
| 43 | 6 40-8 | 6 41-8 | 6 22-5 | 4-3 | 1-9 | 10-3 | 4-5 | 16-3 | 7-2 | 43 | 6 55-8 | 6 56-9 | 6 36-8 | 4-3 | 2-0 | 10-3 | 4-7 | 16-3 | 7-5 |
| 44 | 6 41-0 | 6 42-1 | 6 22-7 | 4-4 | 1-9 | 10-4 | 4-6 | 16-4 | 7-2 | 44 | 6 56-0 | 6 57-1 | 6 37-0 | 4-4 | 2-0 | 10-4 | 4-8 | 16-4 | 7-5 |
| 45 | 6 41-3 | 6 42-3 | 6 23-0 | 4-5 | 2-0 | 10-5 | 4-6 | 16-5 | 7-3 | 45 | 6 56-3 | 6 57-4 | 6 37-3 | 4-5 | 2-1 | 10-5 | 4-8 | 16-5 | 7-6 |
| 46 | 6 41-5 | 6 42-6 | 6 23-2 | 4-6 | 2-0 | 10-6 | 4-7 | 16-6 | 7-3 | 46 | 6 56-5 | 6 57-6 | 6 37-5 | 4-6 | 2-1 | 10-6 | 4-9 | 16-6 | 7-6 |
| 47 | 6 41-8 | 6 42-8 | 6 23-4 | 4-7 | 2-1 | 10-7 | 4-7 | 16-7 | 7-4 | 47 | 6 56-8 | 6 57-9 | 6 37-8 | 4-7 | 2-2 | 10-7 | 4-9 | 16-7 | 7-7 |
| 48 | 6 42-0 | 6 43-1 | 6 23-7 | 4-8 | 2-1 | 10-8 | 4-8 | 16-8 | 7-4 | 48 | 6 57-0 | 6 58-1 | 6 38-0 | 4-8 | 2-2 | 10-8 | 5-0 | 16-8 | 7-7 |
| 49 | 6 42-3 | 6 43-4 | 6 23-9 | 4-9 | 2-2 | 10-9 | 4-8 | 16-9 | 7-5 | 49 | 6 57-3 | 6 58-4 | 6 38-2 | 4-9 | 2-2 | 10-9 | 5-0 | 16-9 | 7-7 |
| 50 | 6 42-5 | 6 43-6 | 6 24-2 | 5-0 | 2-2 | 11-0 | 4-9 | 17-0 | 7-5 | 50 | 6 57-5 | 6 58-6 | 6 38-5 | 5-0 | 2-3 | 11-0 | 5-0 | 17-0 | 7-8 |
| 51 | 6 42-8 | 6 43-9 | 6 24-4 | 5-1 | 2-3 | 11-1 | 4-9 | 17-1 | 7-6 | 51 | 6 57-8 | 6 58-9 | 6 38-7 | 5-1 | 2-3 | 11-1 | 5-1 | 17-1 | 7-8 |
| 52 | 6 43-0 | 6 44-1 | 6 24-6 | 5-2 | 2-3 | 11-2 | 4-9 | 17-2 | 7-6 | 52 | 6 58-0 | 6 59-1 | 6 39-0 | 5-2 | 2-4 | 11-2 | 5-1 | 17-2 | 7-9 |
| 53 | 6 43-3 | 6 44-4 | 6 24-9 | 5-3 | 2-3 | 11-3 | 5-0 | 17-3 | 7-6 | 53 | 6 58-3 | 6 59-4 | 6 39-2 | 5-3 | 2-4 | 11-3 | 5-2 | 17-3 | 7-9 |
| 54 | 6 43-5 | 6 44-6 | 6 25-1 | 5-4 | 2-4 | 11-4 | 5-0 | 17-4 | 7-7 | 54 | 6 58-5 | 6 59-6 | 6 39-4 | 5-4 | 2-5 | 11-4 | 5-2 | 17-4 | 8-0 |
| 55 | 6 43-8 | 6 44-9 | 6 25-4 | 5-5 | 2-4 | 11-5 | 5-1 | 17-5 | 7-7 | 55 | 6 58-8 | 6 59-9 | 6 39-7 | 5-5 | 2-5 | 11-5 | 5-3 | 17-5 | 8-0 |
| 56 | 6 44-0 | 6 45-1 | 6 25-6 | 5-6 | 2-5 | 11-6 | 5-1 | 17-6 | 7-8 | 56 | 6 59-0 | 7 00-1 | 6 39-9 | 5-6 | 2-6 | 11-6 | 5-3 | 17-6 | 8-1 |
| 57 | 6 44-3 | 6 45-4 | 6 25-8 | 5-7 | 2-5 | 11-7 | 5-2 | 17-7 | 7-8 | 57 | 6 59-3 | 7 00-4 | 6 40-2 | 5-7 | 2-6 | 11-7 | 5-4 | 17-7 | 8-1 |
| 58 | 6 44-5 | 6 45-6 | 6 26-1 | 5-8 | 2-6 | 11-8 | 5-2 | 17-8 | 7-9 | 58 | 6 59-5 | 7 00-6 | 6 40-4 | 5-8 | 2-7 | 11-8 | 5-4 | 17-8 | 8-2 |
| 59 | 6 44-8 | 6 45-9 | 6 26-3 | 5-9 | 2-6 | 11-9 | 5-3 | 17-9 | 7-9 | 59 | 6 59-8 | 7 00-9 | 6 40-6 | 5-9 | 2-7 | 11-9 | 5-5 | 17-9 | 8-2 |
| 60 | 6 45-0 | 6 46-1 | 6 26-6 | 6-0 | 2-7 | 12-0 | 5-3 | 18-0 | 8-0 | 60 | 7 00-0 | 7 01-1 | 6 40-9 | 6-0 | 2-8 | 12-0 | 5-5 | 18-0 | 8-3 |

| 28 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 7 00-0 | 7 01-1 | 6 40-9 | 0-0 0-0 | 6-0 2-9 | 12-0 5-7 |
| 01 | 7 00-3 | 7 01-4 | 6 41-1 | 0-1 0-0 | 6-1 2-9 | 12-1 5-7 |
| 02 | 7 00-5 | 7 01-7 | 6 41-3 | 0-2 0-1 | 6-2 2-9 | 12-2 5-8 |
| 03 | 7 00-8 | 7 01-9 | 6 41-6 | 0-3 0-1 | 6-3 3-0 | 12-3 5-8 |
| 04 | 7 01-0 | 7 02-2 | 6 41-8 | 0-4 0-2 | 6-4 3-0 | 12-4 5-9 |
| 05 | 7 01-3 | 7 02-4 | 6 42-1 | 0-5 0-2 | 6-5 3-1 | 12-5 5-9 |
| 06 | 7 01-5 | 7 02-7 | 6 42-3 | 0-6 0-3 | 6-6 3-1 | 12-6 6-0 |
| 07 | 7 01-8 | 7 02-9 | 6 42-5 | 0-7 0-3 | 6-7 3-2 | 12-7 6-0 |
| 08 | 7 02-0 | 7 03-2 | 6 42-8 | 0-8 0-4 | 6-8 3-2 | 12-8 6-1 |
| 09 | 7 02-3 | 7 03-4 | 6 43-0 | 0-9 0-4 | 6-9 3-3 | 12-9 6-1 |
| 10 | 7 02-5 | 7 03-7 | 6 43-3 | 1-0 0-5 | 7-0 3-3 | 13-0 6-2 |
| 11 | 7 02-8 | 7 03-9 | 6 43-5 | 1-1 0-5 | 7-1 3-4 | 13-1 6-2 |
| 12 | 7 03-0 | 7 04-2 | 6 43-7 | 1-2 0-6 | 7-2 3-4 | 13-2 6-3 |
| 13 | 7 03-3 | 7 04-4 | 6 44-0 | 1-3 0-6 | 7-3 3-5 | 13-3 6-3 |
| 14 | 7 03-5 | 7 04-7 | 6 44-2 | 1-4 0-7 | 7-4 3-5 | 13-4 6-4 |
| 15 | 7 03-8 | 7 04-9 | 6 44-4 | 1-5 0-7 | 7-5 3-6 | 13-5 6-4 |
| 16 | 7 04-0 | 7 05-2 | 6 44-7 | 1-6 0-8 | 7-6 3-6 | 13-6 6-5 |
| 17 | 7 04-3 | 7 05-4 | 6 44-9 | 1-7 0-8 | 7-7 3-7 | 13-7 6-5 |
| 18 | 7 04-5 | 7 05-7 | 6 45-2 | 1-8 0-9 | 7-8 3-7 | 13-8 6-6 |
| 19 | 7 04-8 | 7 05-9 | 6 45-4 | 1-9 0-9 | 7-9 3-8 | 13-9 6-6 |
| 20 | 7 05-0 | 7 06-2 | 6 45-6 | 2-0 1-0 | 8-0 3-8 | 14-0 6-7 |
| 21 | 7 05-3 | 7 06-4 | 6 45-9 | 2-1 1-0 | 8-1 3-8 | 14-1 6-7 |
| 22 | 7 05-5 | 7 06-7 | 6 46-1 | 2-2 1-0 | 8-2 3-9 | 14-2 6-7 |
| 23 | 7 05-8 | 7 06-9 | 6 46-4 | 2-3 1-1 | 8-3 3-9 | 14-3 6-8 |
| 24 | 7 06-0 | 7 07-2 | 6 46-6 | 2-4 1-1 | 8-4 4-0 | 14-4 6-8 |
| 25 | 7 06-3 | 7 07-4 | 6 46-8 | 2-5 1-2 | 8-5 4-0 | 14-5 6-9 |
| 26 | 7 06-5 | 7 07-7 | 6 47-1 | 2-6 1-2 | 8-6 4-1 | 14-6 6-9 |
| 27 | 7 06-8 | 7 07-9 | 6 47-3 | 2-7 1-3 | 8-7 4-1 | 14-7 7-0 |
| 28 | 7 07-0 | 7 08-2 | 6 47-5 | 2-8 1-3 | 8-8 4-2 | 14-8 7-0 |
| 29 | 7 07-3 | 7 08-4 | 6 47-8 | 2-9 1-4 | 8-9 4-2 | 14-9 7-1 |
| 30 | 7 07-5 | 7 08-7 | 6 48-0 | 3-0 1-4 | 9-0 4-3 | 15-0 7-1 |
| 31 | 7 07-8 | 7 08-9 | 6 48-3 | 3-1 1-5 | 9-1 4-3 | 15-1 7-2 |
| 32 | 7 08-0 | 7 09-2 | 6 48-5 | 3-2 1-5 | 9-2 4-4 | 15-2 7-2 |
| 33 | 7 08-3 | 7 09-4 | 6 48-7 | 3-3 1-6 | 9-3 4-4 | 15-3 7-3 |
| 34 | 7 08-5 | 7 09-7 | 6 49-0 | 3-4 1-6 | 9-4 4-5 | 15-4 7-3 |
| 35 | 7 08-8 | 7 09-9 | 6 49-2 | 3-5 1-7 | 9-5 4-5 | 15-5 7-4 |
| 36 | 7 09-0 | 7 10-2 | 6 49-5 | 3-6 1-7 | 9-6 4-6 | 15-6 7-4 |
| 37 | 7 09-3 | 7 10-4 | 6 49-7 | 3-7 1-8 | 9-7 4-6 | 15-7 7-5 |
| 38 | 7 09-5 | 7 10-7 | 6 49-9 | 3-8 1-8 | 9-8 4-7 | 15-8 7-5 |
| 39 | 7 09-8 | 7 10-9 | 6 50-2 | 3-9 1-9 | 9-9 4-7 | 15-9 7-6 |
| 40 | 7 10-0 | 7 11-2 | 6 50-4 | 4-0 1-9 | 10-0 4-8 | 16-0 7-6 |
| 41 | 7 10-3 | 7 11-4 | 6 50-6 | 4-1 1-9 | 10-1 4-8 | 16-1 7-6 |
| 42 | 7 10-5 | 7 11-7 | 6 50-9 | 4-2 2-0 | 10-2 4-8 | 16-2 7-7 |
| 43 | 7 10-8 | 7 11-9 | 6 51-1 | 4-3 2-0 | 10-3 4-9 | 16-3 7-7 |
| 44 | 7 11-0 | 7 12-2 | 6 51-4 | 4-4 2-1 | 10-4 4-9 | 16-4 7-8 |
| 45 | 7 11-3 | 7 12-4 | 6 51-6 | 4-5 2-1 | 10-5 5-0 | 16-5 7-8 |
| 46 | 7 11-5 | 7 12-7 | 6 51-8 | 4-6 2-2 | 10-6 5-0 | 16-6 7-9 |
| 47 | 7 11-8 | 7 12-9 | 6 52-1 | 4-7 2-2 | 10-7 5-1 | 16-7 7-9 |
| 48 | 7 12-0 | 7 13-2 | 6 52-3 | 4-8 2-3 | 10-8 5-1 | 16-8 8-0 |
| 49 | 7 12-3 | 7 13-4 | 6 52-6 | 4-9 2-3 | 10-9 5-2 | 16-9 8-0 |
| 50 | 7 12-5 | 7 13-7 | 6 52-8 | 5-0 2-4 | 11-0 5-2 | 17-0 8-1 |
| 51 | 7 12-8 | 7 13-9 | 6 53-0 | 5-1 2-4 | 11-1 5-3 | 17-1 8-1 |
| 52 | 7 13-0 | 7 14-2 | 6 53-3 | 5-2 2-5 | 11-2 5-3 | 17-2 8-2 |
| 53 | 7 13-3 | 7 14-4 | 6 53-5 | 5-3 2-5 | 11-3 5-4 | 17-3 8-2 |
| 54 | 7 13-5 | 7 14-7 | 6 53-8 | 5-4 2-6 | 11-4 5-4 | 17-4 8-3 |
| 55 | 7 13-8 | 7 14-9 | 6 54-0 | 5-5 2-6 | 11-5 5-5 | 17-5 8-3 |
| 56 | 7 14-0 | 7 15-2 | 6 54-2 | 5-6 2-7 | 11-6 5-5 | 17-6 8-4 |
| 57 | 7 14-3 | 7 15-4 | 6 54-5 | 5-7 2-7 | 11-7 5-6 | 17-7 8-4 |
| 58 | 7 14-5 | 7 15-7 | 6 54-7 | 5-8 2-8 | 11-8 5-6 | 17-8 8-5 |
| 59 | 7 14-8 | 7 15-9 | 6 54-9 | 5-9 2-8 | 11-9 5-7 | 17-9 8-5 |
| 60 | 7 15-0 | 7 16-2 | 6 55-2 | 6-0 2-9 | 12-0 5-7 | 18-0 8-6 |

| 29 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 7 15-0 | 7 16-2 | 6 55-2 | 0-0 0-0 | 6-0 3-0 | 12-0 5-9 |
| 01 | 7 15-3 | 7 16-4 | 6 55-4 | 0-1 0-0 | 6-1 3-0 | 12-1 5-9 |
| 02 | 7 15-5 | 7 16-7 | 6 55-7 | 0-2 0-1 | 6-2 3-0 | 12-2 6-0 |
| 03 | 7 15-8 | 7 16-9 | 6 55-9 | 0-3 0-1 | 6-3 3-1 | 12-3 6-0 |
| 04 | 7 16-0 | 7 17-2 | 6 56-1 | 0-4 0-2 | 6-4 3-1 | 12-4 6-1 |
| 05 | 7 16-3 | 7 17-4 | 6 56-4 | 0-5 0-2 | 6-5 3-2 | 12-5 6-1 |
| 06 | 7 16-5 | 7 17-7 | 6 56-6 | 0-6 0-3 | 6-6 3-2 | 12-6 6-2 |
| 07 | 7 16-8 | 7 17-9 | 6 56-9 | 0-7 0-3 | 6-7 3-3 | 12-7 6-2 |
| 08 | 7 17-0 | 7 18-2 | 6 57-1 | 0-8 0-4 | 6-8 3-3 | 12-8 6-3 |
| 09 | 7 17-3 | 7 18-4 | 6 57-3 | 0-9 0-4 | 6-9 3-4 | 12-9 6-3 |
| 10 | 7 17-5 | 7 18-7 | 6 57-6 | 1-0 0-5 | 7-0 3-4 | 13-0 6-4 |
| 11 | 7 17-8 | 7 18-9 | 6 57-8 | 1-1 0-5 | 7-1 3-5 | 13-1 6-4 |
| 12 | 7 18-0 | 7 19-2 | 6 58-0 | 1-2 0-6 | 7-2 3-5 | 13-2 6-5 |
| 13 | 7 18-3 | 7 19-4 | 6 58-3 | 1-3 0-6 | 7-3 3-6 | 13-3 6-5 |
| 14 | 7 18-5 | 7 19-7 | 6 58-5 | 1-4 0-7 | 7-4 3-6 | 13-4 6-6 |
| 15 | 7 18-8 | 7 20-0 | 6 58-8 | 1-5 0-7 | 7-5 3-7 | 13-5 6-6 |
| 16 | 7 19-0 | 7 20-2 | 6 59-0 | 1-6 0-8 | 7-6 3-7 | 13-6 6-7 |
| 17 | 7 19-3 | 7 20-5 | 6 59-2 | 1-7 0-8 | 7-7 3-8 | 13-7 6-7 |
| 18 | 7 19-5 | 7 20-7 | 6 59-5 | 1-8 0-9 | 7-8 3-8 | 13-8 6-8 |
| 19 | 7 19-8 | 7 21-0 | 6 59-7 | 1-9 0-9 | 7-9 3-9 | 13-9 6-8 |
| 20 | 7 20-0 | 7 21-2 | 7 00-0 | 2-0 1-0 | 8-0 3-9 | 14-0 6-9 |
| 21 | 7 20-3 | 7 21-5 | 7 00-2 | 2-1 1-0 | 8-1 4-0 | 14-1 6-9 |
| 22 | 7 20-5 | 7 21-7 | 7 00-4 | 2-2 1-1 | 8-2 4-0 | 14-2 7-0 |
| 23 | 7 20-8 | 7 22-0 | 7 00-7 | 2-3 1-1 | 8-3 4-1 | 14-3 7-0 |
| 24 | 7 21-0 | 7 22-2 | 7 00-9 | 2-4 1-2 | 8-4 4-1 | 14-4 7-1 |
| 25 | 7 21-3 | 7 22-5 | 7 01-1 | 2-5 1-2 | 8-5 4-2 | 14-5 7-1 |
| 26 | 7 21-5 | 7 22-7 | 7 01-4 | 2-6 1-3 | 8-6 4-2 | 14-6 7-2 |
| 27 | 7 21-8 | 7 23-0 | 7 01-6 | 2-7 1-3 | 8-7 4-3 | 14-7 7-2 |
| 28 | 7 22-0 | 7 23-2 | 7 01-9 | 2-8 1-4 | 8-8 4-3 | 14-8 7-3 |
| 29 | 7 22-3 | 7 23-5 | 7 02-1 | 2-9 1-4 | 8-9 4-4 | 14-9 7-3 |
| 30 | 7 22-5 | 7 23-7 | 7 02-3 | 3-0 1-5 | 9-0 4-4 | 15-0 7-4 |
| 31 | 7 22-8 | 7 24-0 | 7 02-6 | 3-1 1-5 | 9-1 4-5 | 15-1 7-4 |
| 32 | 7 23-0 | 7 24-2 | 7 02-8 | 3-2 1-6 | 9-2 4-5 | 15-2 7-5 |
| 33 | 7 23-3 | 7 24-5 | 7 03-1 | 3-3 1-6 | 9-3 4-6 | 15-3 7-5 |
| 34 | 7 23-5 | 7 24-7 | 7 03-3 | 3-4 1-7 | 9-4 4-6 | 15-4 7-6 |
| 35 | 7 23-8 | 7 25-0 | 7 03-5 | 3-5 1-7 | 9-5 4-7 | 15-5 7-6 |
| 36 | 7 24-0 | 7 25-2 | 7 03-8 | 3-6 1-8 | 9-6 4-7 | 15-6 7-7 |
| 37 | 7 24-3 | 7 25-5 | 7 04-0 | 3-7 1-8 | 9-7 4-8 | 15-7 7-7 |
| 38 | 7 24-5 | 7 25-7 | 7 04-3 | 3-8 1-9 | 9-8 4-8 | 15-8 7-8 |
| 39 | 7 24-8 | 7 26-0 | 7 04-5 | 3-9 1-9 | 9-9 4-9 | 15-9 7-8 |
| 40 | 7 25-0 | 7 26-2 | 7 04-7 | 4-0 2-0 | 10-0 4-9 | 16-0 7-9 |
| 41 | 7 25-3 | 7 26-5 | 7 05-0 | 4-1 2-0 | 10-1 5-0 | 16-1 7-9 |
| 42 | 7 25-5 | 7 26-7 | 7 05-2 | 4-2 2-1 | 10-2 5-0 | 16-2 8-0 |
| 43 | 7 25-8 | 7 27-0 | 7 05-4 | 4-3 2-1 | 10-3 5-1 | 16-3 8-0 |
| 44 | 7 26-0 | 7 27-2 | 7 05-7 | 4-4 2-2 | 10-4 5-1 | 16-4 8-1 |
| 45 | 7 26-3 | 7 27-5 | 7 05-9 | 4-5 2-2 | 10-5 5-2 | 16-5 8-1 |
| 46 | 7 26-5 | 7 27-7 | 7 06-2 | 4-6 2-3 | 10-6 5-2 | 16-6 8-2 |
| 47 | 7 26-8 | 7 28-0 | 7 06-4 | 4-7 2-3 | 10-7 5-3 | 16-7 8-2 |
| 48 | 7 27-0 | 7 28-2 | 7 06-6 | 4-8 2-4 | 10-8 5-3 | 16-8 8-3 |
| 49 | 7 27-3 | 7 28-5 | 7 06-9 | 4-9 2-4 | 10-9 5-4 | 16-9 8-3 |
| 50 | 7 27-5 | 7 28-7 | 7 07-1 | 5-0 2-5 | 11-0 5-4 | 17-0 8-4 |
| 51 | 7 27-8 | 7 29-0 | 7 07-4 | 5-1 2-5 | 11-1 5-5 | 17-1 8-4 |
| 52 | 7 28-0 | 7 29-2 | 7 07-6 | 5-2 2-6 | 11-2 5-5 | 17-2 8-5 |
| 53 | 7 28-3 | 7 29-5 | 7 07-8 | 5-3 2-6 | 11-3 5-6 | 17-3 8-5 |
| 54 | 7 28-5 | 7 29-7 | 7 08-1 | 5-4 2-7 | 11-4 5-6 | 17-4 8-6 |
| 55 | 7 28-8 | 7 30-0 | 7 08-3 | 5-5 2-7 | 11-5 5-7 | 17-5 8-6 |
| 56 | 7 29-0 | 7 30-2 | 7 08-5 | 5-6 2-8 | 11-6 5-7 | 17-6 8-7 |
| 57 | 7 29-3 | 7 30-5 | 7 08-8 | 5-7 2-8 | 11-7 5-8 | 17-7 8-7 |
| 58 | 7 29-5 | 7 30-7 | 7 09-0 | 5-8 2-9 | 11-8 5-8 | 17-8 8-8 |
| 59 | 7 29-8 | 7 31-0 | 7 09-3 | 5-9 2-9 | 11-9 5-9 | 17-9 8-8 |
| 60 | 7 30-0 | 7 31-2 | 7 09-5 | 6-0 3-0 | 12-0 5-9 | 18-0 8-9 |

| 30 ^m | SOL PLANETAS | | ARIES | LUNA | τ ^o Corr ⁿ | | τ ^o Corr ⁿ | | τ ^o Corr ⁿ | |
|-----------------|--------------|---|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | s | ' | | | ' | " | ' | " | ' | " |
| 00 | 7 30-0 | | 7 31-2 | 7 09-5 | 0-0 | 0-0 | 6-0 | 3-1 | 12-0 | 6-1 |
| 01 | 7 30-3 | | 7 31-5 | 7 09-7 | 0-1 | 0-1 | 6-1 | 3-1 | 12-1 | 6-2 |
| 02 | 7 30-5 | | 7 31-7 | 7 10-0 | 0-2 | 0-1 | 6-2 | 3-2 | 12-2 | 6-2 |
| 03 | 7 30-8 | | 7 32-0 | 7 10-2 | 0-3 | 0-2 | 6-3 | 3-2 | 12-3 | 6-3 |
| 04 | 7 31-0 | | 7 32-2 | 7 10-5 | 0-4 | 0-2 | 6-4 | 3-3 | 12-4 | 6-3 |
| 05 | 7 31-3 | | 7 32-5 | 7 10-7 | 0-5 | 0-3 | 6-5 | 3-3 | 12-5 | 6-4 |
| 06 | 7 31-5 | | 7 32-7 | 7 10-9 | 0-6 | 0-3 | 6-6 | 3-4 | 12-6 | 6-4 |
| 07 | 7 31-8 | | 7 33-0 | 7 11-2 | 0-7 | 0-4 | 6-7 | 3-4 | 12-7 | 6-5 |
| 08 | 7 32-0 | | 7 33-2 | 7 11-4 | 0-8 | 0-4 | 6-8 | 3-5 | 12-8 | 6-5 |
| 09 | 7 32-3 | | 7 33-5 | 7 11-6 | 0-9 | 0-5 | 6-9 | 3-5 | 12-9 | 6-6 |
| 10 | 7 32-5 | | 7 33-7 | 7 11-9 | 1-0 | 0-5 | 7-0 | 3-6 | 13-0 | 6-6 |
| 11 | 7 32-8 | | 7 34-0 | 7 12-1 | 1-1 | 0-6 | 7-1 | 3-6 | 13-1 | 6-7 |
| 12 | 7 33-0 | | 7 34-2 | 7 12-4 | 1-2 | 0-6 | 7-2 | 3-7 | 13-2 | 6-7 |
| 13 | 7 33-3 | | 7 34-5 | 7 12-6 | 1-3 | 0-7 | 7-3 | 3-7 | 13-3 | 6-8 |
| 14 | 7 33-5 | | 7 34-7 | 7 12-8 | 1-4 | 0-7 | 7-4 | 3-8 | 13-4 | 6-8 |
| 15 | 7 33-8 | | 7 35-0 | 7 13-1 | 1-5 | 0-8 | 7-5 | 3-8 | 13-5 | 6-9 |
| 16 | 7 34-0 | | 7 35-2 | 7 13-3 | 1-6 | 0-8 | 7-6 | 3-9 | 13-6 | 6-9 |
| 17 | 7 34-3 | | 7 35-5 | 7 13-6 | 1-7 | 0-9 | 7-7 | 3-9 | 13-7 | 7-0 |
| 18 | 7 34-5 | | 7 35-7 | 7 13-8 | 1-8 | 0-9 | 7-8 | 4-0 | 13-8 | 7-0 |
| 19 | 7 34-8 | | 7 36-0 | 7 14-0 | 1-9 | 1-0 | 7-9 | 4-0 | 13-9 | 7-1 |
| 20 | 7 35-0 | | 7 36-2 | 7 14-3 | 2-0 | 1-0 | 8-0 | 4-1 | 14-0 | 7-1 |
| 21 | 7 35-3 | | 7 36-5 | 7 14-5 | 2-1 | 1-1 | 8-1 | 4-1 | 14-1 | 7-2 |
| 22 | 7 35-5 | | 7 36-7 | 7 14-7 | 2-2 | 1-1 | 8-2 | 4-2 | 14-2 | 7-2 |
| 23 | 7 35-8 | | 7 37-0 | 7 15-0 | 2-3 | 1-2 | 8-3 | 4-2 | 14-3 | 7-3 |
| 24 | 7 36-0 | | 7 37-2 | 7 15-2 | 2-4 | 1-2 | 8-4 | 4-3 | 14-4 | 7-3 |
| 25 | 7 36-3 | | 7 37-5 | 7 15-5 | 2-5 | 1-3 | 8-5 | 4-3 | 14-5 | 7-4 |
| 26 | 7 36-5 | | 7 37-7 | 7 15-7 | 2-6 | 1-3 | 8-6 | 4-4 | 14-6 | 7-4 |
| 27 | 7 36-8 | | 7 38-0 | 7 15-9 | 2-7 | 1-4 | 8-7 | 4-4 | 14-7 | 7-5 |
| 28 | 7 37-0 | | 7 38-3 | 7 16-2 | 2-8 | 1-4 | 8-8 | 4-5 | 14-8 | 7-5 |
| 29 | 7 37-3 | | 7 38-5 | 7 16-4 | 2-9 | 1-5 | 8-9 | 4-5 | 14-9 | 7-6 |
| 30 | 7 37-5 | | 7 38-8 | 7 16-7 | 3-0 | 1-5 | 9-0 | 4-6 | 15-0 | 7-6 |
| 31 | 7 37-8 | | 7 39-0 | 7 16-9 | 3-1 | 1-6 | 9-1 | 4-6 | 15-1 | 7-7 |
| 32 | 7 38-0 | | 7 39-3 | 7 17-1 | 3-2 | 1-6 | 9-2 | 4-7 | 15-2 | 7-7 |
| 33 | 7 38-3 | | 7 39-5 | 7 17-4 | 3-3 | 1-7 | 9-3 | 4-7 | 15-3 | 7-8 |
| 34 | 7 38-5 | | 7 39-8 | 7 17-6 | 3-4 | 1-7 | 9-4 | 4-8 | 15-4 | 7-8 |
| 35 | 7 38-8 | | 7 40-0 | 7 17-9 | 3-5 | 1-8 | 9-5 | 4-8 | 15-5 | 7-9 |
| 36 | 7 39-0 | | 7 40-3 | 7 18-1 | 3-6 | 1-8 | 9-6 | 4-9 | 15-6 | 7-9 |
| 37 | 7 39-3 | | 7 40-5 | 7 18-3 | 3-7 | 1-9 | 9-7 | 4-9 | 15-7 | 8-0 |
| 38 | 7 39-5 | | 7 40-8 | 7 18-6 | 3-8 | 1-9 | 9-8 | 5-0 | 15-8 | 8-0 |
| 39 | 7 39-8 | | 7 41-0 | 7 18-8 | 3-9 | 2-0 | 9-9 | 5-0 | 15-9 | 8-1 |
| 40 | 7 40-0 | | 7 41-3 | 7 19-0 | 4-0 | 2-0 | 10-0 | 5-1 | 16-0 | 8-1 |
| 41 | 7 40-3 | | 7 41-5 | 7 19-3 | 4-1 | 2-1 | 10-1 | 5-1 | 16-1 | 8-2 |
| 42 | 7 40-5 | | 7 41-8 | 7 19-5 | 4-2 | 2-1 | 10-2 | 5-2 | 16-2 | 8-2 |
| 43 | 7 40-8 | | 7 42-0 | 7 19-8 | 4-3 | 2-2 | 10-3 | 5-2 | 16-3 | 8-3 |
| 44 | 7 41-0 | | 7 42-3 | 7 20-0 | 4-4 | 2-2 | 10-4 | 5-3 | 16-4 | 8-3 |
| 45 | 7 41-3 | | 7 42-5 | 7 20-2 | 4-5 | 2-3 | 10-5 | 5-3 | 16-5 | 8-4 |
| 46 | 7 41-5 | | 7 42-8 | 7 20-5 | 4-6 | 2-3 | 10-6 | 5-4 | 16-6 | 8-4 |
| 47 | 7 41-8 | | 7 43-0 | 7 20-7 | 4-7 | 2-4 | 10-7 | 5-4 | 16-7 | 8-5 |
| 48 | 7 42-0 | | 7 43-3 | 7 21-0 | 4-8 | 2-4 | 10-8 | 5-5 | 16-8 | 8-5 |
| 49 | 7 42-3 | | 7 43-5 | 7 21-2 | 4-9 | 2-5 | 10-9 | 5-5 | 16-9 | 8-6 |
| 50 | 7 42-5 | | 7 43-8 | 7 21-4 | 5-0 | 2-5 | 11-0 | 5-6 | 17-0 | 8-6 |
| 51 | 7 42-8 | | 7 44-0 | 7 21-7 | 5-1 | 2-6 | 11-1 | 5-6 | 17-1 | 8-7 |
| 52 | 7 43-0 | | 7 44-3 | 7 21-9 | 5-2 | 2-6 | 11-2 | 5-7 | 17-2 | 8-7 |
| 53 | 7 43-3 | | 7 44-5 | 7 22-1 | 5-3 | 2-7 | 11-3 | 5-7 | 17-3 | 8-8 |
| 54 | 7 43-5 | | 7 44-8 | 7 22-4 | 5-4 | 2-7 | 11-4 | 5-8 | 17-4 | 8-8 |
| 55 | 7 43-8 | | 7 45-0 | 7 22-6 | 5-5 | 2-8 | 11-5 | 5-8 | 17-5 | 8-9 |
| 56 | 7 44-0 | | 7 45-3 | 7 22-9 | 5-6 | 2-8 | 11-6 | 5-9 | 17-6 | 8-9 |
| 57 | 7 44-3 | | 7 45-5 | 7 23-1 | 5-7 | 2-9 | 11-7 | 5-9 | 17-7 | 9-0 |
| 58 | 7 44-5 | | 7 45-8 | 7 23-3 | 5-8 | 2-9 | 11-8 | 6-0 | 17-8 | 9-0 |
| 59 | 7 44-8 | | 7 46-0 | 7 23-6 | 5-9 | 3-0 | 11-9 | 6-0 | 17-9 | 9-1 |
| 60 | 7 45-0 | | 7 46-3 | 7 23-8 | 6-0 | 3-1 | 12-0 | 6-1 | 18-0 | 9-2 |

| 31 ^m | SOL PLANETAS | | ARIES | LUNA | τ ^o Corr ⁿ | | τ ^o Corr ⁿ | | τ ^o Corr ⁿ | |
|-----------------|--------------|---|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | s | ' | | | ' | " | ' | " | ' | " |
| 00 | 7 45-0 | | 7 46-3 | 7 23-8 | 0-0 | 0-0 | 6-0 | 3-2 | 12-0 | 6-3 |
| 01 | 7 45-3 | | 7 46-5 | 7 24-1 | 0-1 | 0-1 | 6-1 | 3-2 | 12-1 | 6-4 |
| 02 | 7 45-5 | | 7 46-8 | 7 24-3 | 0-2 | 0-1 | 6-2 | 3-3 | 12-2 | 6-4 |
| 03 | 7 45-8 | | 7 47-0 | 7 24-5 | 0-3 | 0-2 | 6-3 | 3-3 | 12-3 | 6-5 |
| 04 | 7 46-0 | | 7 47-3 | 7 24-8 | 0-4 | 0-2 | 6-4 | 3-4 | 12-4 | 6-5 |
| 05 | 7 46-3 | | 7 47-5 | 7 25-0 | 0-5 | 0-3 | 6-5 | 3-4 | 12-5 | 6-6 |
| 06 | 7 46-5 | | 7 47-8 | 7 25-2 | 0-6 | 0-3 | 6-6 | 3-5 | 12-6 | 6-6 |
| 07 | 7 46-8 | | 7 48-0 | 7 25-5 | 0-7 | 0-4 | 6-7 | 3-5 | 12-7 | 6-7 |
| 08 | 7 47-0 | | 7 48-3 | 7 25-7 | 0-8 | 0-4 | 6-8 | 3-6 | 12-8 | 6-7 |
| 09 | 7 47-3 | | 7 48-5 | 7 26-0 | 0-9 | 0-5 | 6-9 | 3-6 | 12-9 | 6-8 |
| 10 | 7 47-5 | | 7 48-8 | 7 26-2 | 1-0 | 0-5 | 7-0 | 3-7 | 13-0 | 6-8 |
| 11 | 7 47-8 | | 7 49-0 | 7 26-4 | 1-1 | 0-6 | 7-1 | 3-7 | 13-1 | 6-9 |
| 12 | 7 48-0 | | 7 49-3 | 7 26-7 | 1-2 | 0-6 | 7-2 | 3-8 | 13-2 | 6-9 |
| 13 | 7 48-3 | | 7 49-5 | 7 26-9 | 1-3 | 0-7 | 7-3 | 3-8 | 13-3 | 7-0 |
| 14 | 7 48-5 | | 7 49-8 | 7 27-2 | 1-4 | 0-7 | 7-4 | 3-9 | 13-4 | 7-0 |
| 15 | 7 48-8 | | 7 50-0 | 7 27-4 | 1-5 | 0-8 | 7-5 | 3-9 | 13-5 | 7-1 |
| 16 | 7 49-0 | | 7 50-3 | 7 27-6 | 1-6 | 0-8 | 7-6 | 4-0 | 13-6 | 7-1 |
| 17 | 7 49-3 | | 7 50-5 | 7 27-9 | 1-7 | 0-9 | 7-7 | 4-0 | 13-7 | 7-2 |
| 18 | 7 49-5 | | 7 50-8 | 7 28-1 | 1-8 | 0-9 | 7-8 | 4-1 | 13-8 | 7-2 |
| 19 | 7 49-8 | | 7 51-0 | 7 28-4 | 1-9 | 1-0 | 7-9 | 4-1 | 13-9 | 7-3 |
| 20 | 7 50-0 | | 7 51-3 | 7 28-6 | 2-0 | 1-1 | 8-0 | 4-2 | 14-0 | 7-4 |
| 21 | 7 50-3 | | 7 51-5 | 7 28-8 | 2-1 | 1-1 | 8-1 | 4-3 | 14-1 | 7-4 |
| 22 | 7 50-5 | | 7 51-8 | 7 29-1 | 2-2 | 1-2 | 8-2 | 4-3 | 14-2 | 7-5 |
| 23 | 7 50-8 | | 7 52-0 | 7 29-3 | 2-3 | 1-2 | 8-3 | 4-4 | 14-3 | 7-5 |
| 24 | 7 51-0 | | 7 52-3 | 7 29-5 | 2-4 | 1-3 | 8-4 | 4-4 | 14-4 | 7-6 |
| 25 | 7 51-3 | | 7 52-5 | 7 29-8 | 2-5 | 1-3 | 8-5 | 4-5 | 14-5 | 7-6 |
| 26 | 7 51-5 | | 7 52-8 | 7 30-0 | 2-6 | 1-4 | 8-6 | 4-5 | 14-6 | 7-7 |
| 27 | 7 51-8 | | 7 53-0 | 7 30-3 | 2-7 | 1-4 | 8-7 | 4-6 | 14-7 | 7-7 |
| 28 | 7 52-0 | | 7 53-3 | 7 30-5 | 2-8 | 1-5 | 8-8 | 4-6 | 14-8 | 7-8 |
| 29 | 7 52-3 | | 7 53-5 | 7 30-7 | 2-9 | 1-5 | 8-9 | 4-7 | 14-9 | 7-8 |
| 30 | 7 52-5 | | 7 53-8 | 7 31-0 | 3-0 | 1-6 | 9-0 | 4-7 | 15-0 | 7-9 |
| 31 | 7 52-8 | | 7 54-0 | 7 31-2 | 3-1 | 1-6 | 9-1 | 4-8 | 15-1 | 7-9 |
| 32 | 7 53-0 | | 7 54-3 | 7 31-5 | 3-2 | 1-7 | 9-2 | 4-8 | 15-2 | 8-0 |
| 33 | 7 53-3 | | 7 54-5 | 7 31-7 | 3-3 | 1-7 | 9-3 | 4-9 | 15-3 | 8-0 |
| 34 | 7 53-5 | | 7 54-8 | 7 31-9 | 3-4 | 1-8 | 9-4 | 4-9 | 15-4 | 8-1 |
| 35 | 7 53-8 | | 7 55-0 | 7 32-2 | 3-5 | 1-8 | 9-5 | 5-0 | 15-5 | 8-1 |
| 36 | 7 54-0 | | 7 55-3 | 7 32-4 | 3-6 | 1-9 | 9-6 | 5-0 | 15-6 | 8-2 |
| 37 | 7 54-3 | | 7 55-5 | 7 32-6 | 3-7 | 1-9 | 9-7 | 5-1 | 15-7 | 8-2 |
| 38 | 7 54-5 | | 7 55-8 | 7 32-9 | 3-8 | 2-0 | 9-8 | 5-1 | 15-8 | 8-3 |
| 39 | 7 54-8 | | 7 56-0 | 7 33-1 | 3-9 | 2-0 | 9-9 | 5-2 | 15-9 | 8-3 |
| 40 | 7 55-0 | | 7 56-3 | 7 33-4 | 4-0 | 2-1 | 10-0 | 5-3 | 16-0 | 8-4 |
| 41 | 7 55-3 | | 7 56-6 | 7 33-6 | 4-1 | 2-2 | 10-1 | 5-3 | 16-1 | 8-5 |
| 42 | 7 55-5 | | 7 56-8 | 7 33-8 | 4-2 | 2-2 | 10-2 | 5-4 | 16-2 | 8-5 |
| 43 | 7 55-8 | | 7 57-1 | 7 34-1 | 4-3 | 2-3 | 10-3 | 5-4 | 16-3 | 8-6 |
| 44 | 7 56-0 | | 7 57-3 | 7 34-3 | 4-4 | 2-3 | 10-4 | 5-5 | 16-4 | 8-6 |
| 45 | 7 56-3 | | 7 57-6 | 7 34-6 | 4-5 | 2-4 | 10-5 | 5-5 | 16-5 | 8-7 |
| 46 | 7 56-5 | | 7 57-8 | 7 34-8 | 4-6 | 2-4 | 10-6 | 5-6 | 16-6 | 8-7 |
| 47 | 7 56-8 | | 7 58-1 | 7 35-0 | 4-7 | 2-5 | 10-7 | 5-6 | 16-7 | 8-8 |
| 48 | 7 57-0 | | 7 58-3 | 7 35-3 | 4-8 | 2-5 | 10-8 | 5-7 | 16-8 | 8-8 |
| 49 | 7 57-3 | | 7 58-6 | 7 35-5 | 4-9 | 2-6 | 10-9 | 5-7 | 16-9 | 8-9 |
| 50 | 7 57-5 | | 7 58-8 | 7 35-7 | 5-0 | 2-6 | 11-0 | 5-8 | 17-0 | 8-9 |
| 51 | 7 57-8 | | 7 59-1 | 7 36-0 | 5-1 | 2-7 | 11-1 | 5-8 | 17-1 | 9-0 |
| 52 | 7 58-0 | | 7 59-3 | 7 36-2 | 5-2 | 2-7 | 11-2 | 5-9 | 17-2 | 9-0 |
| 53 | 7 58-3 | | 7 59-6 | 7 36-5 | 5-3 | 2-8 | 11-3 | 5-9 | 17-3 | 9-1 |
| 54 | 7 58-5 | | 7 59-8 | 7 36-7 | 5-4 | 2-8 | 11-4 | 6-0 | 17-4 | 9-1 |
| 55 | 7 58-8 | | 8 00-1 | 7 36-9 | 5-5 | 2-9 | 11-5 | 6-0 | 17-5 | 9-2 |
| 56 | 7 59-0 | | 8 00-3 | 7 37-2 | 5-6 | 2-9 | 11-6 | 6-1 | 17-6 | 9-2 |
| 57 | 7 59-3 | | 8 00-6 | 7 37-4 | 5-7 | 3-0 | 11-7 | 6-1 | 17-7 | 9-3 |
| 58 | 7 59-5 | | 8 00-8 | 7 37-7 | 5-8 | 3-0 | | | | |

| 32 ^m | SOL PLANETAS | ARIES | LUNA | v ^o Corr ⁿ | | v ^o Corr ⁿ | | v ^o Corr ⁿ | |
|-----------------|--------------|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|-----|
| | | | | o | d | o | d | o | d |
| 00 | 8 00-0 | 8 01-3 | 7 38-1 | 0-0 | 0-0 | 6-0 | 3-3 | 12-0 | 6-5 |
| 01 | 8 00-3 | 8 01-6 | 7 38-4 | 0-1 | 0-1 | 6-1 | 3-3 | 12-1 | 6-6 |
| 02 | 8 00-5 | 8 01-8 | 7 38-6 | 0-2 | 0-1 | 6-2 | 3-4 | 12-2 | 6-6 |
| 03 | 8 00-8 | 8 02-1 | 7 38-8 | 0-3 | 0-2 | 6-3 | 3-4 | 12-3 | 6-7 |
| 04 | 8 01-0 | 8 02-3 | 7 39-1 | 0-4 | 0-2 | 6-4 | 3-5 | 12-4 | 6-7 |
| 05 | 8 01-3 | 8 02-6 | 7 39-3 | 0-5 | 0-3 | 6-5 | 3-5 | 12-5 | 6-8 |
| 06 | 8 01-5 | 8 02-8 | 7 39-6 | 0-6 | 0-3 | 6-6 | 3-6 | 12-6 | 6-8 |
| 07 | 8 01-8 | 8 03-1 | 7 39-8 | 0-7 | 0-4 | 6-7 | 3-6 | 12-7 | 6-9 |
| 08 | 8 02-0 | 8 03-3 | 7 40-0 | 0-8 | 0-4 | 6-8 | 3-7 | 12-8 | 6-9 |
| 09 | 8 02-3 | 8 03-6 | 7 40-3 | 0-9 | 0-5 | 6-9 | 3-7 | 12-9 | 7-0 |
| 10 | 8 02-5 | 8 03-8 | 7 40-5 | 1-0 | 0-5 | 7-0 | 3-8 | 13-0 | 7-0 |
| 11 | 8 02-8 | 8 04-1 | 7 40-8 | 1-1 | 0-6 | 7-1 | 3-8 | 13-1 | 7-1 |
| 12 | 8 03-0 | 8 04-3 | 7 41-0 | 1-2 | 0-7 | 7-2 | 3-9 | 13-2 | 7-2 |
| 13 | 8 03-3 | 8 04-6 | 7 41-2 | 1-3 | 0-7 | 7-3 | 4-0 | 13-3 | 7-2 |
| 14 | 8 03-5 | 8 04-8 | 7 41-5 | 1-4 | 0-8 | 7-4 | 4-0 | 13-4 | 7-3 |
| 15 | 8 03-8 | 8 05-1 | 7 41-7 | 1-5 | 0-8 | 7-5 | 4-1 | 13-5 | 7-3 |
| 16 | 8 04-0 | 8 05-3 | 7 42-0 | 1-6 | 0-9 | 7-6 | 4-1 | 13-6 | 7-4 |
| 17 | 8 04-3 | 8 05-6 | 7 42-2 | 1-7 | 0-9 | 7-7 | 4-2 | 13-7 | 7-4 |
| 18 | 8 04-5 | 8 05-8 | 7 42-4 | 1-8 | 1-0 | 7-8 | 4-2 | 13-8 | 7-5 |
| 19 | 8 04-8 | 8 06-1 | 7 42-7 | 1-9 | 1-0 | 7-9 | 4-3 | 13-9 | 7-5 |
| 20 | 8 05-0 | 8 06-3 | 7 42-9 | 2-0 | 1-1 | 8-0 | 4-3 | 14-0 | 7-6 |
| 21 | 8 05-3 | 8 06-6 | 7 43-1 | 2-1 | 1-1 | 8-1 | 4-4 | 14-1 | 7-6 |
| 22 | 8 05-5 | 8 06-8 | 7 43-4 | 2-2 | 1-2 | 8-2 | 4-4 | 14-2 | 7-7 |
| 23 | 8 05-8 | 8 07-1 | 7 43-6 | 2-3 | 1-2 | 8-3 | 4-5 | 14-3 | 7-7 |
| 24 | 8 06-0 | 8 07-3 | 7 43-9 | 2-4 | 1-3 | 8-4 | 4-6 | 14-4 | 7-8 |
| 25 | 8 06-3 | 8 07-6 | 7 44-1 | 2-5 | 1-4 | 8-5 | 4-6 | 14-5 | 7-9 |
| 26 | 8 06-5 | 8 07-8 | 7 44-3 | 2-6 | 1-4 | 8-6 | 4-7 | 14-6 | 7-9 |
| 27 | 8 06-8 | 8 08-1 | 7 44-6 | 2-7 | 1-5 | 8-7 | 4-7 | 14-7 | 8-0 |
| 28 | 8 07-0 | 8 08-3 | 7 44-8 | 2-8 | 1-5 | 8-8 | 4-8 | 14-8 | 8-0 |
| 29 | 8 07-3 | 8 08-6 | 7 45-1 | 2-9 | 1-6 | 8-9 | 4-8 | 14-9 | 8-1 |
| 30 | 8 07-5 | 8 08-8 | 7 45-3 | 3-0 | 1-6 | 9-0 | 4-9 | 15-0 | 8-1 |
| 31 | 8 07-8 | 8 09-1 | 7 45-5 | 3-1 | 1-7 | 9-1 | 4-9 | 15-1 | 8-2 |
| 32 | 8 08-0 | 8 09-3 | 7 45-8 | 3-2 | 1-7 | 9-2 | 5-0 | 15-2 | 8-2 |
| 33 | 8 08-3 | 8 09-6 | 7 46-0 | 3-3 | 1-8 | 9-3 | 5-0 | 15-3 | 8-3 |
| 34 | 8 08-5 | 8 09-8 | 7 46-2 | 3-4 | 1-8 | 9-4 | 5-1 | 15-4 | 8-3 |
| 35 | 8 08-8 | 8 10-1 | 7 46-5 | 3-5 | 1-9 | 9-5 | 5-1 | 15-5 | 8-4 |
| 36 | 8 09-0 | 8 10-3 | 7 46-7 | 3-6 | 2-0 | 9-6 | 5-2 | 15-6 | 8-5 |
| 37 | 8 09-3 | 8 10-6 | 7 47-0 | 3-7 | 2-0 | 9-7 | 5-3 | 15-7 | 8-5 |
| 38 | 8 09-5 | 8 10-8 | 7 47-2 | 3-8 | 2-1 | 9-8 | 5-3 | 15-8 | 8-6 |
| 39 | 8 09-8 | 8 11-1 | 7 47-4 | 3-9 | 2-1 | 9-9 | 5-4 | 15-9 | 8-6 |
| 40 | 8 10-0 | 8 11-3 | 7 47-7 | 4-0 | 2-2 | 10-0 | 5-4 | 16-0 | 8-7 |
| 41 | 8 10-3 | 8 11-6 | 7 47-9 | 4-1 | 2-2 | 10-1 | 5-5 | 16-1 | 8-7 |
| 42 | 8 10-5 | 8 11-8 | 7 48-2 | 4-2 | 2-3 | 10-2 | 5-5 | 16-2 | 8-8 |
| 43 | 8 10-8 | 8 12-1 | 7 48-4 | 4-3 | 2-3 | 10-3 | 5-6 | 16-3 | 8-8 |
| 44 | 8 11-0 | 8 12-3 | 7 48-6 | 4-4 | 2-4 | 10-4 | 5-6 | 16-4 | 8-9 |
| 45 | 8 11-3 | 8 12-6 | 7 48-9 | 4-5 | 2-4 | 10-5 | 5-7 | 16-5 | 8-9 |
| 46 | 8 11-5 | 8 12-8 | 7 49-1 | 4-6 | 2-5 | 10-6 | 5-7 | 16-6 | 9-0 |
| 47 | 8 11-8 | 8 13-1 | 7 49-3 | 4-7 | 2-5 | 10-7 | 5-8 | 16-7 | 9-0 |
| 48 | 8 12-0 | 8 13-3 | 7 49-6 | 4-8 | 2-6 | 10-8 | 5-9 | 16-8 | 9-1 |
| 49 | 8 12-3 | 8 13-6 | 7 49-8 | 4-9 | 2-7 | 10-9 | 5-9 | 16-9 | 9-2 |
| 50 | 8 12-5 | 8 13-8 | 7 50-1 | 5-0 | 2-7 | 11-0 | 6-0 | 17-0 | 9-2 |
| 51 | 8 12-8 | 8 14-1 | 7 50-3 | 5-1 | 2-8 | 11-1 | 6-0 | 17-1 | 9-3 |
| 52 | 8 13-0 | 8 14-3 | 7 50-5 | 5-2 | 2-8 | 11-2 | 6-1 | 17-2 | 9-3 |
| 53 | 8 13-3 | 8 14-6 | 7 50-8 | 5-3 | 2-9 | 11-3 | 6-1 | 17-3 | 9-4 |
| 54 | 8 13-5 | 8 14-9 | 7 51-0 | 5-4 | 2-9 | 11-4 | 6-2 | 17-4 | 9-4 |
| 55 | 8 13-8 | 8 15-1 | 7 51-3 | 5-5 | 3-0 | 11-5 | 6-2 | 17-5 | 9-5 |
| 56 | 8 14-0 | 8 15-4 | 7 51-5 | 5-6 | 3-0 | 11-6 | 6-3 | 17-6 | 9-5 |
| 57 | 8 14-3 | 8 15-6 | 7 51-7 | 5-7 | 3-1 | 11-7 | 6-3 | 17-7 | 9-6 |
| 58 | 8 14-5 | 8 15-9 | 7 52-0 | 5-8 | 3-1 | 11-8 | 6-4 | 17-8 | 9-6 |
| 59 | 8 14-8 | 8 16-1 | 7 52-2 | 5-9 | 3-2 | 11-9 | 6-4 | 17-9 | 9-7 |
| 60 | 8 15-0 | 8 16-4 | 7 52-5 | 6-0 | 3-3 | 12-0 | 6-5 | 18-0 | 9-8 |

| 33 ^m | SOL PLANETAS | ARIES | LUNA | v ^o Corr ⁿ | | v ^o Corr ⁿ | | v ^o Corr ⁿ | |
|-----------------|--------------|--------|--------|----------------------------------|-----|----------------------------------|-----|----------------------------------|------|
| | | | | o | d | o | d | o | d |
| 00 | 8 15-0 | 8 16-4 | 7 52-5 | 0-0 | 0-0 | 6-0 | 3-4 | 12-0 | 6-7 |
| 01 | 8 15-3 | 8 16-6 | 7 52-7 | 0-1 | 0-1 | 6-1 | 3-4 | 12-1 | 6-8 |
| 02 | 8 15-5 | 8 16-9 | 7 52-9 | 0-2 | 0-1 | 6-2 | 3-5 | 12-2 | 6-8 |
| 03 | 8 15-8 | 8 17-1 | 7 53-2 | 0-3 | 0-2 | 6-3 | 3-5 | 12-3 | 6-9 |
| 04 | 8 16-0 | 8 17-4 | 7 53-4 | 0-4 | 0-2 | 6-4 | 3-6 | 12-4 | 6-9 |
| 05 | 8 16-3 | 8 17-6 | 7 53-6 | 0-5 | 0-3 | 6-5 | 3-6 | 12-5 | 7-0 |
| 06 | 8 16-5 | 8 17-9 | 7 53-9 | 0-6 | 0-3 | 6-6 | 3-7 | 12-6 | 7-0 |
| 07 | 8 16-8 | 8 18-1 | 7 54-1 | 0-7 | 0-4 | 6-7 | 3-7 | 12-7 | 7-1 |
| 08 | 8 17-0 | 8 18-4 | 7 54-4 | 0-8 | 0-4 | 6-8 | 3-8 | 12-8 | 7-1 |
| 09 | 8 17-3 | 8 18-6 | 7 54-6 | 0-9 | 0-5 | 6-9 | 3-9 | 12-9 | 7-2 |
| 10 | 8 17-5 | 8 18-9 | 7 54-8 | 1-0 | 0-6 | 7-0 | 3-9 | 13-0 | 7-3 |
| 11 | 8 17-8 | 8 19-1 | 7 55-1 | 1-1 | 0-6 | 7-1 | 4-0 | 13-1 | 7-3 |
| 12 | 8 18-0 | 8 19-4 | 7 55-3 | 1-2 | 0-7 | 7-2 | 4-0 | 13-2 | 7-4 |
| 13 | 8 18-3 | 8 19-6 | 7 55-6 | 1-3 | 0-7 | 7-3 | 4-1 | 13-3 | 7-4 |
| 14 | 8 18-5 | 8 19-9 | 7 55-8 | 1-4 | 0-8 | 7-4 | 4-1 | 13-4 | 7-5 |
| 15 | 8 18-8 | 8 20-1 | 7 56-0 | 1-5 | 0-8 | 7-5 | 4-2 | 13-5 | 7-5 |
| 16 | 8 19-0 | 8 20-4 | 7 56-3 | 1-6 | 0-9 | 7-6 | 4-2 | 13-6 | 7-6 |
| 17 | 8 19-3 | 8 20-6 | 7 56-5 | 1-7 | 0-9 | 7-7 | 4-3 | 13-7 | 7-6 |
| 18 | 8 19-5 | 8 20-9 | 7 56-7 | 1-8 | 1-0 | 7-8 | 4-4 | 13-8 | 7-7 |
| 19 | 8 19-8 | 8 21-1 | 7 57-0 | 1-9 | 1-1 | 7-9 | 4-4 | 13-9 | 7-8 |
| 20 | 8 20-0 | 8 21-4 | 7 57-2 | 2-0 | 1-1 | 8-0 | 4-5 | 14-0 | 7-8 |
| 21 | 8 20-3 | 8 21-6 | 7 57-5 | 2-1 | 1-2 | 8-1 | 4-5 | 14-1 | 7-9 |
| 22 | 8 20-5 | 8 21-9 | 7 57-7 | 2-2 | 1-2 | 8-2 | 4-6 | 14-2 | 7-9 |
| 23 | 8 20-8 | 8 22-1 | 7 57-9 | 2-3 | 1-3 | 8-3 | 4-6 | 14-3 | 8-0 |
| 24 | 8 21-0 | 8 22-4 | 7 58-2 | 2-4 | 1-3 | 8-4 | 4-7 | 14-4 | 8-0 |
| 25 | 8 21-3 | 8 22-6 | 7 58-4 | 2-5 | 1-4 | 8-5 | 4-7 | 14-5 | 8-1 |
| 26 | 8 21-5 | 8 22-9 | 7 58-7 | 2-6 | 1-5 | 8-6 | 4-8 | 14-6 | 8-2 |
| 27 | 8 21-8 | 8 23-1 | 7 58-9 | 2-7 | 1-5 | 8-7 | 4-9 | 14-7 | 8-2 |
| 28 | 8 22-0 | 8 23-4 | 7 59-1 | 2-8 | 1-6 | 8-8 | 4-9 | 14-8 | 8-3 |
| 29 | 8 22-3 | 8 23-6 | 7 59-4 | 2-9 | 1-6 | 8-9 | 5-0 | 14-9 | 8-3 |
| 30 | 8 22-5 | 8 23-9 | 7 59-6 | 3-0 | 1-7 | 9-0 | 5-0 | 15-0 | 8-4 |
| 31 | 8 22-8 | 8 24-1 | 7 59-8 | 3-1 | 1-7 | 9-1 | 5-1 | 15-1 | 8-4 |
| 32 | 8 23-0 | 8 24-4 | 8 00-1 | 3-2 | 1-8 | 9-2 | 5-1 | 15-2 | 8-5 |
| 33 | 8 23-3 | 8 24-6 | 8 00-3 | 3-3 | 1-8 | 9-3 | 5-2 | 15-3 | 8-5 |
| 34 | 8 23-5 | 8 24-9 | 8 00-6 | 3-4 | 1-9 | 9-4 | 5-2 | 15-4 | 8-6 |
| 35 | 8 23-8 | 8 25-1 | 8 00-8 | 3-5 | 2-0 | 9-5 | 5-3 | 15-5 | 8-7 |
| 36 | 8 24-0 | 8 25-4 | 8 01-0 | 3-6 | 2-0 | 9-6 | 5-4 | 15-6 | 8-7 |
| 37 | 8 24-3 | 8 25-6 | 8 01-3 | 3-7 | 2-1 | 9-7 | 5-4 | 15-7 | 8-8 |
| 38 | 8 24-5 | 8 25-9 | 8 01-5 | 3-8 | 2-1 | 9-8 | 5-5 | 15-8 | 8-8 |
| 39 | 8 24-8 | 8 26-1 | 8 01-8 | 3-9 | 2-2 | 9-9 | 5-5 | 15-9 | 8-9 |
| 40 | 8 25-0 | 8 26-4 | 8 02-0 | 4-0 | 2-2 | 10-0 | 5-6 | 16-0 | 8-9 |
| 41 | 8 25-3 | 8 26-6 | 8 02-2 | 4-1 | 2-3 | 10-1 | 5-6 | 16-1 | 9-0 |
| 42 | 8 25-5 | 8 26-9 | 8 02-5 | 4-2 | 2-3 | 10-2 | 5-7 | 16-2 | 9-0 |
| 43 | 8 25-8 | 8 27-1 | 8 02-7 | 4-3 | 2-4 | 10-3 | 5-8 | 16-3 | 9-1 |
| 44 | 8 26-0 | 8 27-4 | 8 02-9 | 4-4 | 2-5 | 10-4 | 5-8 | 16-4 | 9-2 |
| 45 | 8 26-3 | 8 27-6 | 8 03-2 | 4-5 | 2-5 | 10-5 | 5-9 | 16-5 | 9-2 |
| 46 | 8 26-5 | 8 27-9 | 8 03-4 | 4-6 | 2-6 | 10-6 | 5-9 | 16-6 | 9-3 |
| 47 | 8 26-8 | 8 28-1 | 8 03-7 | 4-7 | 2-6 | 10-7 | 6-0 | 16-7 | 9-3 |
| 48 | 8 27-0 | 8 28-4 | 8 03-9 | 4-8 | 2-7 | 10-8 | 6-0 | 16-8 | 9-4 |
| 49 | 8 27-3 | 8 28-6 | 8 04-1 | 4-9 | 2-7 | 10-9 | 6-1 | 16-9 | 9-4 |
| 50 | 8 27-5 | 8 28-9 | 8 04-4 | 5-0 | 2-8 | 11-0 | 6-1 | 17-0 | 9-5 |
| 51 | 8 27-8 | 8 29-1 | 8 04-6 | 5-1 | 2-8 | 11-1 | 6-2 | 17-1 | 9-5 |
| 52 | 8 28-0 | 8 29-4 | 8 04-9 | 5-2 | 2-9 | 11-2 | 6-3 | 17-2 | 9-6 |
| 53 | 8 28-3 | 8 29-6 | 8 05-1 | 5-3 | 3-0 | 11-3 | 6-3 | 17-3 | 9-7 |
| 54 | 8 28-5 | 8 29-9 | 8 05-3 | 5-4 | 3-0 | 11-4 | 6-4 | 17-4 | 9-7 |
| 55 | 8 28-8 | 8 30-1 | 8 05-6 | 5-5 | 3-1 | 11-5 | 6-4 | 17-5 | 9-8 |
| 56 | 8 29-0 | 8 30-4 | 8 05-8 | 5-6 | 3-1 | 11-6 | 6-5 | 17-6 | 9-8 |
| 57 | 8 29-3 | 8 30-6 | 8 06-1 | 5-7 | 3-2 | 11-7 | 6-5 | 17-7 | 9-9 |
| 58 | 8 29-5 | 8 30-9 | 8 06-3 | 5-8 | 3-2 | 11-8 | 6-6 | 17-8 | 9-9 |
| 59 | 8 29-8 | 8 31-1 | 8 06-5 | 5-9 | 3-3 | 11-9 | 6-6 | 17-9 | 10-0 |
| 60 | 8 30-0 | 8 31-4 | 8 06-8 | 6-0 | 3-4 | 12-0 | 6-7 | 18-0 | 10-1 |

| 34 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 8 30-0 | 8 31-4 | 8 06-8 | 0-0 0-0 | 6-0 3-5 | 12-0 6-9 |
| 01 | 8 30-3 | 8 31-6 | 8 07-0 | 0-1 0-1 | 6-1 3-5 | 12-1 7-0 |
| 02 | 8 30-5 | 8 31-9 | 8 07-2 | 0-2 0-1 | 6-2 3-6 | 12-2 7-0 |
| 03 | 8 30-8 | 8 32-1 | 8 07-5 | 0-3 0-2 | 6-3 3-6 | 12-3 7-1 |
| 04 | 8 31-0 | 8 32-4 | 8 07-7 | 0-4 0-2 | 6-4 3-7 | 12-4 7-1 |
| 05 | 8 31-3 | 8 32-6 | 8 08-0 | 0-5 0-3 | 6-5 3-7 | 12-5 7-2 |
| 06 | 8 31-5 | 8 32-9 | 8 08-2 | 0-6 0-3 | 6-6 3-8 | 12-6 7-2 |
| 07 | 8 31-8 | 8 33-2 | 8 08-4 | 0-7 0-4 | 6-7 3-9 | 12-7 7-3 |
| 08 | 8 32-0 | 8 33-4 | 8 08-7 | 0-8 0-5 | 6-8 3-9 | 12-8 7-4 |
| 09 | 8 32-3 | 8 33-7 | 8 08-9 | 0-9 0-5 | 6-9 4-0 | 12-9 7-4 |
| 10 | 8 32-5 | 8 33-9 | 8 09-2 | 1-0 0-6 | 7-0 4-0 | 13-0 7-5 |
| 11 | 8 32-8 | 8 34-2 | 8 09-4 | 1-1 0-6 | 7-1 4-1 | 13-1 7-5 |
| 12 | 8 33-0 | 8 34-4 | 8 09-6 | 1-2 0-7 | 7-2 4-1 | 13-2 7-6 |
| 13 | 8 33-3 | 8 34-7 | 8 09-9 | 1-3 0-7 | 7-3 4-2 | 13-3 7-6 |
| 14 | 8 33-5 | 8 34-9 | 8 10-1 | 1-4 0-8 | 7-4 4-3 | 13-4 7-7 |
| 15 | 8 33-8 | 8 35-2 | 8 10-3 | 1-5 0-9 | 7-5 4-3 | 13-5 7-8 |
| 16 | 8 34-0 | 8 35-4 | 8 10-6 | 1-6 0-9 | 7-6 4-4 | 13-6 7-8 |
| 17 | 8 34-3 | 8 35-7 | 8 10-8 | 1-7 1-0 | 7-7 4-4 | 13-7 7-9 |
| 18 | 8 34-5 | 8 35-9 | 8 11-1 | 1-8 1-0 | 7-8 4-5 | 13-8 7-9 |
| 19 | 8 34-8 | 8 36-2 | 8 11-3 | 1-9 1-1 | 7-9 4-5 | 13-9 8-0 |
| 20 | 8 35-0 | 8 36-4 | 8 11-5 | 2-0 1-2 | 8-0 4-6 | 14-0 8-1 |
| 21 | 8 35-3 | 8 36-7 | 8 11-8 | 2-1 1-2 | 8-1 4-7 | 14-1 8-1 |
| 22 | 8 35-5 | 8 36-9 | 8 12-0 | 2-2 1-3 | 8-2 4-7 | 14-2 8-2 |
| 23 | 8 35-8 | 8 37-2 | 8 12-3 | 2-3 1-3 | 8-3 4-8 | 14-3 8-2 |
| 24 | 8 36-0 | 8 37-4 | 8 12-5 | 2-4 1-4 | 8-4 4-8 | 14-4 8-3 |
| 25 | 8 36-3 | 8 37-7 | 8 12-7 | 2-5 1-4 | 8-5 4-9 | 14-5 8-3 |
| 26 | 8 36-5 | 8 37-9 | 8 13-0 | 2-6 1-5 | 8-6 4-9 | 14-6 8-4 |
| 27 | 8 36-8 | 8 38-2 | 8 13-2 | 2-7 1-6 | 8-7 5-0 | 14-7 8-5 |
| 28 | 8 37-0 | 8 38-4 | 8 13-4 | 2-8 1-6 | 8-8 5-1 | 14-8 8-5 |
| 29 | 8 37-3 | 8 38-7 | 8 13-7 | 2-9 1-7 | 8-9 5-1 | 14-9 8-6 |
| 30 | 8 37-5 | 8 38-9 | 8 13-9 | 3-0 1-7 | 9-0 5-2 | 15-0 8-6 |
| 31 | 8 37-8 | 8 39-2 | 8 14-2 | 3-1 1-8 | 9-1 5-2 | 15-1 8-7 |
| 32 | 8 38-0 | 8 39-4 | 8 14-4 | 3-2 1-8 | 9-2 5-3 | 15-2 8-7 |
| 33 | 8 38-3 | 8 39-7 | 8 14-6 | 3-3 1-9 | 9-3 5-3 | 15-3 8-8 |
| 34 | 8 38-5 | 8 39-9 | 8 14-9 | 3-4 2-0 | 9-4 5-4 | 15-4 8-9 |
| 35 | 8 38-8 | 8 40-2 | 8 15-1 | 3-5 2-0 | 9-5 5-5 | 15-5 8-9 |
| 36 | 8 39-0 | 8 40-4 | 8 15-4 | 3-6 2-1 | 9-6 5-5 | 15-6 9-0 |
| 37 | 8 39-3 | 8 40-7 | 8 15-6 | 3-7 2-1 | 9-7 5-6 | 15-7 9-0 |
| 38 | 8 39-5 | 8 40-9 | 8 15-8 | 3-8 2-2 | 9-8 5-6 | 15-8 9-1 |
| 39 | 8 39-8 | 8 41-2 | 8 16-1 | 3-9 2-2 | 9-9 5-7 | 15-9 9-1 |
| 40 | 8 40-0 | 8 41-4 | 8 16-3 | 4-0 2-3 | 10-0 5-8 | 16-0 9-2 |
| 41 | 8 40-3 | 8 41-7 | 8 16-5 | 4-1 2-4 | 10-1 5-8 | 16-1 9-3 |
| 42 | 8 40-5 | 8 41-9 | 8 16-8 | 4-2 2-4 | 10-2 5-9 | 16-2 9-3 |
| 43 | 8 40-8 | 8 42-2 | 8 17-0 | 4-3 2-5 | 10-3 5-9 | 16-3 9-4 |
| 44 | 8 41-0 | 8 42-4 | 8 17-3 | 4-4 2-5 | 10-4 6-0 | 16-4 9-4 |
| 45 | 8 41-3 | 8 42-7 | 8 17-5 | 4-5 2-6 | 10-5 6-0 | 16-5 9-5 |
| 46 | 8 41-5 | 8 42-9 | 8 17-7 | 4-6 2-6 | 10-6 6-1 | 16-6 9-5 |
| 47 | 8 41-8 | 8 43-2 | 8 18-0 | 4-7 2-7 | 10-7 6-2 | 16-7 9-6 |
| 48 | 8 42-0 | 8 43-4 | 8 18-2 | 4-8 2-8 | 10-8 6-2 | 16-8 9-7 |
| 49 | 8 42-3 | 8 43-7 | 8 18-5 | 4-9 2-8 | 10-9 6-3 | 16-9 9-7 |
| 50 | 8 42-5 | 8 43-9 | 8 18-7 | 5-0 2-9 | 11-0 6-3 | 17-0 9-8 |
| 51 | 8 42-8 | 8 44-2 | 8 18-9 | 5-1 2-9 | 11-1 6-4 | 17-1 9-8 |
| 52 | 8 43-0 | 8 44-4 | 8 19-2 | 5-2 3-0 | 11-2 6-4 | 17-2 9-9 |
| 53 | 8 43-3 | 8 44-7 | 8 19-4 | 5-3 3-0 | 11-3 6-5 | 17-3 9-9 |
| 54 | 8 43-5 | 8 44-9 | 8 19-7 | 5-4 3-1 | 11-4 6-6 | 17-4 10-0 |
| 55 | 8 43-8 | 8 45-2 | 8 19-9 | 5-5 3-2 | 11-5 6-6 | 17-5 10-1 |
| 56 | 8 44-0 | 8 45-4 | 8 20-1 | 5-6 3-2 | 11-6 6-7 | 17-6 10-1 |
| 57 | 8 44-3 | 8 45-7 | 8 20-4 | 5-7 3-3 | 11-7 6-7 | 17-7 10-2 |
| 58 | 8 44-5 | 8 45-9 | 8 20-6 | 5-8 3-3 | 11-8 6-8 | 17-8 10-2 |
| 59 | 8 44-8 | 8 46-2 | 8 20-8 | 5-9 3-4 | 11-9 6-8 | 17-9 10-3 |
| 60 | 8 45-0 | 8 46-4 | 8 21-1 | 6-0 3-5 | 12-0 6-9 | 18-0 10-4 |

| 35 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 8 45-0 | 8 46-4 | 8 21-1 | 0-0 0-0 | 6-0 3-6 | 12-0 7-1 |
| 01 | 8 45-3 | 8 46-7 | 8 21-3 | 0-1 0-1 | 6-1 3-6 | 12-1 7-2 |
| 02 | 8 45-5 | 8 46-9 | 8 21-6 | 0-2 0-1 | 6-2 3-7 | 12-2 7-2 |
| 03 | 8 45-8 | 8 47-2 | 8 21-8 | 0-3 0-2 | 6-3 3-7 | 12-3 7-3 |
| 04 | 8 46-0 | 8 47-4 | 8 22-0 | 0-4 0-2 | 6-4 3-8 | 12-4 7-3 |
| 05 | 8 46-3 | 8 47-7 | 8 22-3 | 0-5 0-3 | 6-5 3-8 | 12-5 7-4 |
| 06 | 8 46-5 | 8 47-9 | 8 22-5 | 0-6 0-4 | 6-6 3-9 | 12-6 7-5 |
| 07 | 8 46-8 | 8 48-2 | 8 22-8 | 0-7 0-4 | 6-7 4-0 | 12-7 7-5 |
| 08 | 8 47-0 | 8 48-4 | 8 23-0 | 0-8 0-5 | 6-8 4-0 | 12-8 7-6 |
| 09 | 8 47-3 | 8 48-7 | 8 23-2 | 0-9 0-5 | 6-9 4-1 | 12-9 7-6 |
| 10 | 8 47-5 | 8 48-9 | 8 23-5 | 1-0 0-6 | 7-0 4-1 | 13-0 7-7 |
| 11 | 8 47-8 | 8 49-2 | 8 23-7 | 1-1 0-7 | 7-1 4-2 | 13-1 7-8 |
| 12 | 8 48-0 | 8 49-4 | 8 23-9 | 1-2 0-7 | 7-2 4-3 | 13-2 7-8 |
| 13 | 8 48-3 | 8 49-7 | 8 24-2 | 1-3 0-8 | 7-3 4-3 | 13-3 7-9 |
| 14 | 8 48-5 | 8 49-9 | 8 24-4 | 1-4 0-8 | 7-4 4-4 | 13-4 7-9 |
| 15 | 8 48-8 | 8 50-2 | 8 24-7 | 1-5 0-9 | 7-5 4-4 | 13-5 8-0 |
| 16 | 8 49-0 | 8 50-4 | 8 24-9 | 1-6 0-9 | 7-6 4-5 | 13-6 8-0 |
| 17 | 8 49-3 | 8 50-7 | 8 25-1 | 1-7 1-0 | 7-7 4-6 | 13-7 8-1 |
| 18 | 8 49-5 | 8 50-9 | 8 25-4 | 1-8 1-1 | 7-8 4-6 | 13-8 8-2 |
| 19 | 8 49-8 | 8 51-2 | 8 25-6 | 1-9 1-1 | 7-9 4-7 | 13-9 8-2 |
| 20 | 8 50-0 | 8 51-5 | 8 25-9 | 2-0 1-2 | 8-0 4-7 | 14-0 8-3 |
| 21 | 8 50-3 | 8 51-7 | 8 26-1 | 2-1 1-2 | 8-1 4-8 | 14-1 8-3 |
| 22 | 8 50-5 | 8 52-0 | 8 26-3 | 2-2 1-3 | 8-2 4-9 | 14-2 8-4 |
| 23 | 8 50-8 | 8 52-2 | 8 26-6 | 2-3 1-4 | 8-3 4-9 | 14-3 8-5 |
| 24 | 8 51-0 | 8 52-5 | 8 26-8 | 2-4 1-4 | 8-4 5-0 | 14-4 8-5 |
| 25 | 8 51-3 | 8 52-7 | 8 27-0 | 2-5 1-5 | 8-5 5-0 | 14-5 8-6 |
| 26 | 8 51-5 | 8 53-0 | 8 27-3 | 2-6 1-5 | 8-6 5-1 | 14-6 8-6 |
| 27 | 8 51-8 | 8 53-2 | 8 27-5 | 2-7 1-6 | 8-7 5-1 | 14-7 8-7 |
| 28 | 8 52-0 | 8 53-5 | 8 27-8 | 2-8 1-7 | 8-8 5-2 | 14-8 8-8 |
| 29 | 8 52-3 | 8 53-7 | 8 28-0 | 2-9 1-7 | 8-9 5-3 | 14-9 8-8 |
| 30 | 8 52-5 | 8 54-0 | 8 28-2 | 3-0 1-8 | 9-0 5-3 | 15-0 8-9 |
| 31 | 8 52-8 | 8 54-2 | 8 28-5 | 3-1 1-8 | 9-1 5-4 | 15-1 8-9 |
| 32 | 8 53-0 | 8 54-5 | 8 28-7 | 3-2 1-9 | 9-2 5-4 | 15-2 9-0 |
| 33 | 8 53-3 | 8 54-7 | 8 29-0 | 3-3 2-0 | 9-3 5-5 | 15-3 9-1 |
| 34 | 8 53-5 | 8 55-0 | 8 29-2 | 3-4 2-0 | 9-4 5-6 | 15-4 9-1 |
| 35 | 8 53-8 | 8 55-2 | 8 29-4 | 3-5 2-1 | 9-5 5-6 | 15-5 9-2 |
| 36 | 8 54-0 | 8 55-5 | 8 29-7 | 3-6 2-1 | 9-6 5-7 | 15-6 9-2 |
| 37 | 8 54-3 | 8 55-7 | 8 29-9 | 3-7 2-2 | 9-7 5-7 | 15-7 9-3 |
| 38 | 8 54-5 | 8 56-0 | 8 30-2 | 3-8 2-2 | 9-8 5-8 | 15-8 9-3 |
| 39 | 8 54-8 | 8 56-2 | 8 30-4 | 3-9 2-3 | 9-9 5-9 | 15-9 9-4 |
| 40 | 8 55-0 | 8 56-5 | 8 30-6 | 4-0 2-4 | 10-0 5-9 | 16-0 9-5 |
| 41 | 8 55-3 | 8 56-7 | 8 30-9 | 4-1 2-4 | 10-1 6-0 | 16-1 9-5 |
| 42 | 8 55-5 | 8 57-0 | 8 31-1 | 4-2 2-5 | 10-2 6-0 | 16-2 9-6 |
| 43 | 8 55-8 | 8 57-2 | 8 31-3 | 4-3 2-5 | 10-3 6-1 | 16-3 9-6 |
| 44 | 8 56-0 | 8 57-5 | 8 31-6 | 4-4 2-6 | 10-4 6-2 | 16-4 9-7 |
| 45 | 8 56-3 | 8 57-7 | 8 31-8 | 4-5 2-7 | 10-5 6-2 | 16-5 9-8 |
| 46 | 8 56-5 | 8 58-0 | 8 32-1 | 4-6 2-7 | 10-6 6-3 | 16-6 9-8 |
| 47 | 8 56-8 | 8 58-2 | 8 32-3 | 4-7 2-8 | 10-7 6-3 | 16-7 9-9 |
| 48 | 8 57-0 | 8 58-5 | 8 32-5 | 4-8 2-8 | 10-8 6-4 | 16-8 9-9 |
| 49 | 8 57-3 | 8 58-7 | 8 32-8 | 4-9 2-9 | 10-9 6-4 | 16-9 10-0 |
| 50 | 8 57-5 | 8 59-0 | 8 33-0 | 5-0 3-0 | 11-0 6-5 | 17-0 10-1 |
| 51 | 8 57-8 | 8 59-2 | 8 33-3 | 5-1 3-0 | 11-1 6-6 | 17-1 10-1 |
| 52 | 8 58-0 | 8 59-5 | 8 33-5 | 5-2 3-1 | 11-2 6-6 | 17-2 10-2 |
| 53 | 8 58-3 | 8 59-7 | 8 33-7 | 5-3 3-1 | 11-3 6-7 | 17-3 10-2 |
| 54 | 8 58-5 | 9 00-0 | 8 34-0 | 5-4 3-2 | 11-4 6-7 | 17-4 10-3 |
| 55 | 8 58-8 | 9 00-2 | 8 34-2 | 5-5 3-3 | 11-5 6-8 | 17-5 10-4 |
| 56 | 8 59-0 | 9 00-5 | 8 34-4 | 5-6 3-3 | 11-6 6-9 | 17-6 10-4 |
| 57 | 8 59-3 | 9 00-7 | 8 34-7 | 5-7 3-4 | 11-7 6-9 | 17-7 10-5 |
| 58 | 8 59-5 | 9 01-0 | 8 34-9 | 5-8 3-4 | 11-8 7-0 | 17-8 10-5 |
| 59 | 8 59-8 | 9 01-2 | 8 35-2 | 5-9 3-5 | 11-9 7-0 | 17-9 10-6 |
| 60 | 9 00-0 | 9 01-5 | 8 35-4 | 6-0 3-6 | 12-0 7-1 | 18-0 10-7 |

| 36 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | | |
|-----------------|--------------|--------|--------|------|---------------------------------------|------|---------------------------------------|------|---------------------------------------|----|---|
| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 9 00-0 | 9 01-5 | 8 35-4 | 0-0 | 0-0 | 6-0 | 3-7 | 12-0 | 7-3 | | |
| 01 | 9 00-3 | 9 01-7 | 8 35-6 | 0-1 | 0-1 | 6-1 | 3-7 | 12-1 | 7-4 | | |
| 02 | 9 00-5 | 9 02-0 | 8 35-9 | 0-2 | 0-1 | 6-2 | 3-8 | 12-2 | 7-4 | | |
| 03 | 9 00-8 | 9 02-2 | 8 36-1 | 0-3 | 0-2 | 6-3 | 3-8 | 12-3 | 7-5 | | |
| 04 | 9 01-0 | 9 02-5 | 8 36-4 | 0-4 | 0-2 | 6-4 | 3-9 | 12-4 | 7-5 | | |
| 05 | 9 01-3 | 9 02-7 | 8 36-6 | 0-5 | 0-3 | 6-5 | 4-0 | 12-5 | 7-6 | | |
| 06 | 9 01-5 | 9 03-0 | 8 36-8 | 0-6 | 0-4 | 6-6 | 4-0 | 12-6 | 7-7 | | |
| 07 | 9 01-8 | 9 03-2 | 8 37-1 | 0-7 | 0-4 | 6-7 | 4-1 | 12-7 | 7-7 | | |
| 08 | 9 02-0 | 9 03-5 | 8 37-3 | 0-8 | 0-5 | 6-8 | 4-1 | 12-8 | 7-8 | | |
| 09 | 9 02-3 | 9 03-7 | 8 37-5 | 0-9 | 0-5 | 6-9 | 4-2 | 12-9 | 7-8 | | |
| 10 | 9 02-5 | 9 04-0 | 8 37-8 | 1-0 | 0-6 | 7-0 | 4-3 | 13-0 | 7-9 | | |
| 11 | 9 02-8 | 9 04-2 | 8 38-0 | 1-1 | 0-7 | 7-1 | 4-3 | 13-1 | 8-0 | | |
| 12 | 9 03-0 | 9 04-5 | 8 38-3 | 1-2 | 0-7 | 7-2 | 4-4 | 13-2 | 8-0 | | |
| 13 | 9 03-3 | 9 04-7 | 8 38-5 | 1-3 | 0-8 | 7-3 | 4-4 | 13-3 | 8-1 | | |
| 14 | 9 03-5 | 9 05-0 | 8 38-7 | 1-4 | 0-9 | 7-4 | 4-5 | 13-4 | 8-2 | | |
| 15 | 9 03-8 | 9 05-2 | 8 39-0 | 1-5 | 0-9 | 7-5 | 4-6 | 13-5 | 8-2 | | |
| 16 | 9 04-0 | 9 05-5 | 8 39-2 | 1-6 | 1-0 | 7-6 | 4-6 | 13-6 | 8-3 | | |
| 17 | 9 04-3 | 9 05-7 | 8 39-5 | 1-7 | 1-0 | 7-7 | 4-7 | 13-7 | 8-3 | | |
| 18 | 9 04-5 | 9 06-0 | 8 39-7 | 1-8 | 1-1 | 7-8 | 4-7 | 13-8 | 8-4 | | |
| 19 | 9 04-8 | 9 06-2 | 8 39-9 | 1-9 | 1-2 | 7-9 | 4-8 | 13-9 | 8-5 | | |
| 20 | 9 05-0 | 9 06-5 | 8 40-2 | 2-0 | 1-2 | 8-0 | 4-9 | 14-0 | 8-5 | | |
| 21 | 9 05-3 | 9 06-7 | 8 40-4 | 2-1 | 1-3 | 8-1 | 4-9 | 14-1 | 8-6 | | |
| 22 | 9 05-5 | 9 07-0 | 8 40-6 | 2-2 | 1-3 | 8-2 | 5-0 | 14-2 | 8-6 | | |
| 23 | 9 05-8 | 9 07-2 | 8 40-9 | 2-3 | 1-4 | 8-3 | 5-0 | 14-3 | 8-7 | | |
| 24 | 9 06-0 | 9 07-5 | 8 41-1 | 2-4 | 1-5 | 8-4 | 5-1 | 14-4 | 8-8 | | |
| 25 | 9 06-3 | 9 07-7 | 8 41-4 | 2-5 | 1-5 | 8-5 | 5-2 | 14-5 | 8-8 | | |
| 26 | 9 06-5 | 9 08-0 | 8 41-6 | 2-6 | 1-6 | 8-6 | 5-2 | 14-6 | 8-9 | | |
| 27 | 9 06-8 | 9 08-2 | 8 41-8 | 2-7 | 1-6 | 8-7 | 5-3 | 14-7 | 8-9 | | |
| 28 | 9 07-0 | 9 08-5 | 8 42-1 | 2-8 | 1-7 | 8-8 | 5-4 | 14-8 | 9-0 | | |
| 29 | 9 07-3 | 9 08-7 | 8 42-3 | 2-9 | 1-8 | 8-9 | 5-4 | 14-9 | 9-1 | | |
| 30 | 9 07-5 | 9 09-0 | 8 42-6 | 3-0 | 1-8 | 9-0 | 5-5 | 15-0 | 9-1 | | |
| 31 | 9 07-8 | 9 09-2 | 8 42-8 | 3-1 | 1-9 | 9-1 | 5-5 | 15-1 | 9-2 | | |
| 32 | 9 08-0 | 9 09-5 | 8 43-0 | 3-2 | 1-9 | 9-2 | 5-6 | 15-2 | 9-2 | | |
| 33 | 9 08-3 | 9 09-8 | 8 43-3 | 3-3 | 2-0 | 9-3 | 5-7 | 15-3 | 9-3 | | |
| 34 | 9 08-5 | 9 10-0 | 8 43-5 | 3-4 | 2-1 | 9-4 | 5-7 | 15-4 | 9-4 | | |
| 35 | 9 08-8 | 9 10-3 | 8 43-8 | 3-5 | 2-1 | 9-5 | 5-8 | 15-5 | 9-4 | | |
| 36 | 9 09-0 | 9 10-5 | 8 44-0 | 3-6 | 2-2 | 9-6 | 5-8 | 15-6 | 9-5 | | |
| 37 | 9 09-3 | 9 10-8 | 8 44-2 | 3-7 | 2-3 | 9-7 | 5-9 | 15-7 | 9-6 | | |
| 38 | 9 09-5 | 9 11-0 | 8 44-5 | 3-8 | 2-3 | 9-8 | 6-0 | 15-8 | 9-6 | | |
| 39 | 9 09-8 | 9 11-3 | 8 44-7 | 3-9 | 2-4 | 9-9 | 6-0 | 15-9 | 9-7 | | |
| 40 | 9 10-0 | 9 11-5 | 8 44-9 | 4-0 | 2-4 | 10-0 | 6-1 | 16-0 | 9-7 | | |
| 41 | 9 10-3 | 9 11-8 | 8 45-2 | 4-1 | 2-5 | 10-1 | 6-1 | 16-1 | 9-8 | | |
| 42 | 9 10-5 | 9 12-0 | 8 45-4 | 4-2 | 2-6 | 10-2 | 6-2 | 16-2 | 9-9 | | |
| 43 | 9 10-8 | 9 12-3 | 8 45-7 | 4-3 | 2-6 | 10-3 | 6-3 | 16-3 | 9-9 | | |
| 44 | 9 11-0 | 9 12-5 | 8 45-9 | 4-4 | 2-7 | 10-4 | 6-3 | 16-4 | 10-0 | | |
| 45 | 9 11-3 | 9 12-8 | 8 46-1 | 4-5 | 2-7 | 10-5 | 6-4 | 16-5 | 10-0 | | |
| 46 | 9 11-5 | 9 13-0 | 8 46-4 | 4-6 | 2-8 | 10-6 | 6-4 | 16-6 | 10-1 | | |
| 47 | 9 11-8 | 9 13-3 | 8 46-6 | 4-7 | 2-9 | 10-7 | 6-5 | 16-7 | 10-2 | | |
| 48 | 9 12-0 | 9 13-5 | 8 46-9 | 4-8 | 2-9 | 10-8 | 6-6 | 16-8 | 10-2 | | |
| 49 | 9 12-3 | 9 13-8 | 8 47-1 | 4-9 | 3-0 | 10-9 | 6-6 | 16-9 | 10-3 | | |
| 50 | 9 12-5 | 9 14-0 | 8 47-3 | 5-0 | 3-0 | 11-0 | 6-7 | 17-0 | 10-3 | | |
| 51 | 9 12-8 | 9 14-3 | 8 47-6 | 5-1 | 3-1 | 11-1 | 6-8 | 17-1 | 10-4 | | |
| 52 | 9 13-0 | 9 14-5 | 8 47-8 | 5-2 | 3-2 | 11-2 | 6-8 | 17-2 | 10-5 | | |
| 53 | 9 13-3 | 9 14-8 | 8 48-0 | 5-3 | 3-2 | 11-3 | 6-9 | 17-3 | 10-5 | | |
| 54 | 9 13-5 | 9 15-0 | 8 48-3 | 5-4 | 3-3 | 11-4 | 6-9 | 17-4 | 10-6 | | |
| 55 | 9 13-8 | 9 15-3 | 8 48-5 | 5-5 | 3-3 | 11-5 | 7-0 | 17-5 | 10-6 | | |
| 56 | 9 14-0 | 9 15-5 | 8 48-8 | 5-6 | 3-4 | 11-6 | 7-1 | 17-6 | 10-7 | | |
| 57 | 9 14-3 | 9 15-8 | 8 49-0 | 5-7 | 3-5 | 11-7 | 7-1 | 17-7 | 10-8 | | |
| 58 | 9 14-5 | 9 16-0 | 8 49-2 | 5-8 | 3-5 | 11-8 | 7-2 | 17-8 | 10-8 | | |
| 59 | 9 14-8 | 9 16-3 | 8 49-5 | 5-9 | 3-6 | 11-9 | 7-2 | 17-9 | 10-9 | | |
| 60 | 9 15-0 | 9 16-5 | 8 49-7 | 6-0 | 3-7 | 12-0 | 7-3 | 18-0 | 11-0 | | |

| 37 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | | |
|-----------------|--------------|--------|--------|------|---------------------------------------|------|---------------------------------------|------|---------------------------------------|----|----|
| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 9 15-0 | 9 16-5 | 8 49-7 | 0-0 | 0-0 | 6-0 | 3-8 | 12-0 | 7-5 | | |
| 01 | 9 15-3 | 9 16-8 | 8 50-0 | 0-1 | 0-1 | 6-1 | 3-8 | 12-1 | 7-6 | | |
| 02 | 9 15-5 | 9 17-0 | 8 50-2 | 0-2 | 0-1 | 6-2 | 3-9 | 12-2 | 7-6 | | |
| 03 | 9 15-8 | 9 17-3 | 8 50-4 | 0-3 | 0-2 | 6-3 | 3-9 | 12-3 | 7-7 | | |
| 04 | 9 16-0 | 9 17-5 | 8 50-7 | 0-4 | 0-3 | 6-4 | 4-0 | 12-4 | 7-8 | | |
| 05 | 9 16-3 | 9 17-8 | 8 50-9 | 0-5 | 0-3 | 6-5 | 4-1 | 12-5 | 7-8 | | |
| 06 | 9 16-5 | 9 18-0 | 8 51-1 | 0-6 | 0-4 | 6-6 | 4-1 | 12-6 | 7-9 | | |
| 07 | 9 16-8 | 9 18-3 | 8 51-4 | 0-7 | 0-4 | 6-7 | 4-2 | 12-7 | 7-9 | | |
| 08 | 9 17-0 | 9 18-5 | 8 51-6 | 0-8 | 0-5 | 6-8 | 4-3 | 12-8 | 8-0 | | |
| 09 | 9 17-3 | 9 18-8 | 8 51-9 | 0-9 | 0-6 | 6-9 | 4-3 | 12-9 | 8-1 | | |
| 10 | 9 17-5 | 9 19-0 | 8 52-1 | 1-0 | 0-6 | 7-0 | 4-4 | 13-0 | 8-1 | | |
| 11 | 9 17-8 | 9 19-3 | 8 52-3 | 1-1 | 0-7 | 7-1 | 4-4 | 13-1 | 8-2 | | |
| 12 | 9 18-0 | 9 19-5 | 8 52-6 | 1-2 | 0-8 | 7-2 | 4-5 | 13-2 | 8-3 | | |
| 13 | 9 18-3 | 9 19-8 | 8 52-8 | 1-3 | 0-8 | 7-3 | 4-6 | 13-3 | 8-3 | | |
| 14 | 9 18-5 | 9 20-0 | 8 53-1 | 1-4 | 0-9 | 7-4 | 4-6 | 13-4 | 8-4 | | |
| 15 | 9 18-8 | 9 20-3 | 8 53-3 | 1-5 | 0-9 | 7-5 | 4-7 | 13-5 | 8-4 | | |
| 16 | 9 19-0 | 9 20-5 | 8 53-5 | 1-6 | 1-0 | 7-6 | 4-8 | 13-6 | 8-5 | | |
| 17 | 9 19-3 | 9 20-8 | 8 53-8 | 1-7 | 1-1 | 7-7 | 4-8 | 13-7 | 8-6 | | |
| 18 | 9 19-5 | 9 21-0 | 8 54-0 | 1-8 | 1-1 | 7-8 | 4-9 | 13-8 | 8-6 | | |
| 19 | 9 19-8 | 9 21-3 | 8 54-3 | 1-9 | 1-2 | 7-9 | 4-9 | 13-9 | 8-7 | | |
| 20 | 9 20-0 | 9 21-5 | 8 54-5 | 2-0 | 1-3 | 8-0 | 5-0 | 14-0 | 8-8 | | |
| 21 | 9 20-3 | 9 21-8 | 8 54-7 | 2-1 | 1-3 | 8-1 | 5-1 | 14-1 | 8-8 | | |
| 22 | 9 20-5 | 9 22-0 | 8 55-0 | 2-2 | 1-4 | 8-2 | 5-1 | 14-2 | 8-9 | | |
| 23 | 9 20-8 | 9 22-3 | 8 55-2 | 2-3 | 1-4 | 8-3 | 5-2 | 14-3 | 8-9 | | |
| 24 | 9 21-0 | 9 22-5 | 8 55-4 | 2-4 | 1-5 | 8-4 | 5-3 | 14-4 | 9-0 | | |
| 25 | 9 21-3 | 9 22-8 | 8 55-7 | 2-5 | 1-6 | 8-5 | 5-3 | 14-5 | 9-1 | | |
| 26 | 9 21-5 | 9 23-0 | 8 55-9 | 2-6 | 1-6 | 8-6 | 5-4 | 14-6 | 9-1 | | |
| 27 | 9 21-8 | 9 23-3 | 8 56-2 | 2-7 | 1-7 | 8-7 | 5-4 | 14-7 | 9-2 | | |
| 28 | 9 22-0 | 9 23-5 | 8 56-4 | 2-8 | 1-8 | 8-8 | 5-5 | 14-8 | 9-3 | | |
| 29 | 9 22-3 | 9 23-8 | 8 56-6 | 2-9 | 1-8 | 8-9 | 5-6 | 14-9 | 9-3 | | |
| 30 | 9 22-5 | 9 24-0 | 8 56-9 | 3-0 | 1-9 | 9-0 | 5-6 | 15-0 | 9-4 | | |
| 31 | 9 22-8 | 9 24-3 | 8 57-1 | 3-1 | 1-9 | 9-1 | 5-7 | 15-1 | 9-4 | | |
| 32 | 9 23-0 | 9 24-5 | 8 57-4 | 3-2 | 2-0 | 9-2 | 5-8 | 15-2 | 9-5 | | |
| 33 | 9 23-3 | 9 24-8 | 8 57-6 | 3-3 | 2-1 | 9-3 | 5-8 | 15-3 | 9-6 | | |
| 34 | 9 23-5 | 9 25-0 | 8 57-8 | 3-4 | 2-1 | 9-4 | 5-9 | 15-4 | 9-6 | | |
| 35 | 9 23-8 | 9 25-3 | 8 58-1 | 3-5 | 2-2 | 9-5 | 5-9 | 15-5 | 9-7 | | |
| 36 | 9 24-0 | 9 25-5 | 8 58-3 | 3-6 | 2-3 | 9-6 | 6-0 | 15-6 | 9-8 | | |
| 37 | 9 24-3 | 9 25-8 | 8 58-5 | 3-7 | 2-3 | 9-7 | 6-1 | 15-7 | 9-8 | | |
| 38 | 9 24-5 | 9 26-0 | 8 58-8 | 3-8 | 2-4 | 9-8 | 6-1 | 15-8 | 9-9 | | |
| 39 | 9 24-8 | 9 26-3 | 8 59-0 | 3-9 | 2-4 | 9-9 | 6-2 | 15-9 | 9-9 | | |
| 40 | 9 25-0 | 9 26-5 | 8 59-3 | 4-0 | 2-5 | 10-0 | 6-3 | 16-0 | 10-0 | | |
| 41 | 9 25-3 | 9 26-8 | 8 59-5 | 4-1 | 2-6 | 10-1 | 6-3 | 16-1 | 10-1 | | |
| 42 | 9 25-5 | 9 27-0 | 8 59-7 | 4-2 | 2-6 | 10-2 | 6-4 | 16-2 | 10-1 | | |
| 43 | 9 25-8 | 9 27-3 | 9 00-0 | 4-3 | 2-7 | 10-3 | 6-4 | 16-3 | 10-2 | | |
| 44 | 9 26-0 | 9 27-5 | 9 00-2 | 4-4 | 2-8 | 10-4 | 6-5 | 16-4 | 10-3 | | |
| 45 | 9 26-3 | 9 27-8 | 9 00-5 | 4-5 | 2-8 | 10-5 | 6-6 | 16-5 | 10-3 | | |
| 46 | 9 26-5 | 9 28-1 | 9 00-7 | 4-6 | 2-9 | 10-6 | 6-6 | 16-6 | 10-4 | | |
| 47 | 9 26-8 | 9 28-3 | 9 00-9 | 4-7 | 2-9 | 10-7 | 6-7 | 16-7 | 10-4 | | |
| 48 | 9 27-0 | 9 28-6 | 9 01-2 | 4-8 | 3-0 | 10-8 | 6-8 | 16-8 | 10-5 | | |
| 49 | 9 27-3 | 9 28-8 | 9 01-4 | 4-9 | 3-1 | 10-9 | 6-8 | 16-9 | 10-6 | | |
| 50 | 9 27-5 | 9 29-1 | 9 01-6 | 5-0 | 3-1 | 11-0 | 6-9 | 17-0 | 10-6 | | |
| 51 | 9 27-8 | 9 29-3 | 9 01-9 | 5-1 | 3-2 | 11-1 | 6-9 | 17-1 | 10-7 | | |
| 52 | 9 28-0 | 9 29-6 | 9 02-1 | 5-2 | 3-3 | 11-2 | 7-0 | 17-2 | 10-8 | | </ |

| 38 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|--------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 9 30-0 | 9 31-6 | 9 04-0 | 0-6 0-0 | 6-0 3-9 | 12-0 7-7 |
| 01 | 9 30-3 | 9 31-8 | 9 04-3 | 0-1 0-1 | 6-1 3-9 | 12-1 7-8 |
| 02 | 9 30-5 | 9 32-1 | 9 04-5 | 0-2 0-1 | 6-2 4-0 | 12-2 7-8 |
| 03 | 9 30-8 | 9 32-3 | 9 04-7 | 0-3 0-2 | 6-3 4-0 | 12-3 7-9 |
| 04 | 9 31-0 | 9 32-6 | 9 05-0 | 0-4 0-3 | 6-4 4-1 | 12-4 8-0 |
| 05 | 9 31-3 | 9 32-8 | 9 05-2 | 0-5 0-3 | 6-5 4-2 | 12-5 8-0 |
| 06 | 9 31-5 | 9 33-1 | 9 05-5 | 0-6 0-4 | 6-6 4-2 | 12-6 8-1 |
| 07 | 9 31-8 | 9 33-3 | 9 05-7 | 0-7 0-4 | 6-7 4-3 | 12-7 8-1 |
| 08 | 9 32-0 | 9 33-6 | 9 05-9 | 0-8 0-5 | 6-8 4-4 | 12-8 8-2 |
| 09 | 9 32-3 | 9 33-8 | 9 06-2 | 0-9 0-6 | 6-9 4-4 | 12-9 8-3 |
| 10 | 9 32-5 | 9 34-1 | 9 06-4 | 1-0 0-6 | 7-0 4-5 | 13-0 8-3 |
| 11 | 9 32-8 | 9 34-3 | 9 06-7 | 1-1 0-7 | 7-1 4-6 | 13-1 8-4 |
| 12 | 9 33-0 | 9 34-6 | 9 06-9 | 1-2 0-8 | 7-2 4-6 | 13-2 8-5 |
| 13 | 9 33-3 | 9 34-8 | 9 07-1 | 1-3 0-8 | 7-3 4-7 | 13-3 8-5 |
| 14 | 9 33-5 | 9 35-1 | 9 07-4 | 1-4 0-9 | 7-4 4-7 | 13-4 8-6 |
| 15 | 9 33-8 | 9 35-3 | 9 07-6 | 1-5 1-0 | 7-5 4-8 | 13-5 8-7 |
| 16 | 9 34-0 | 9 35-6 | 9 07-9 | 1-6 1-0 | 7-6 4-9 | 13-6 8-7 |
| 17 | 9 34-3 | 9 35-8 | 9 08-1 | 1-7 1-1 | 7-7 4-9 | 13-7 8-8 |
| 18 | 9 34-5 | 9 36-1 | 9 08-3 | 1-8 1-2 | 7-8 5-0 | 13-8 8-9 |
| 19 | 9 34-8 | 9 36-3 | 9 08-6 | 1-9 1-2 | 7-9 5-1 | 13-9 8-9 |
| 20 | 9 35-0 | 9 36-6 | 9 08-8 | 2-0 1-3 | 8-0 5-1 | 14-0 9-0 |
| 21 | 9 35-3 | 9 36-8 | 9 09-0 | 2-1 1-3 | 8-1 5-2 | 14-1 9-0 |
| 22 | 9 35-5 | 9 37-1 | 9 09-3 | 2-2 1-4 | 8-2 5-3 | 14-2 9-1 |
| 23 | 9 35-8 | 9 37-3 | 9 09-5 | 2-3 1-5 | 8-3 5-3 | 14-3 9-2 |
| 24 | 9 36-0 | 9 37-6 | 9 09-8 | 2-4 1-5 | 8-4 5-4 | 14-4 9-2 |
| 25 | 9 36-3 | 9 37-8 | 9 10-0 | 2-5 1-6 | 8-5 5-5 | 14-5 9-3 |
| 26 | 9 36-5 | 9 38-1 | 9 10-2 | 2-6 1-7 | 8-6 5-5 | 14-6 9-4 |
| 27 | 9 36-8 | 9 38-3 | 9 10-5 | 2-7 1-7 | 8-7 5-6 | 14-7 9-4 |
| 28 | 9 37-0 | 9 38-6 | 9 10-7 | 2-8 1-8 | 8-8 5-6 | 14-8 9-5 |
| 29 | 9 37-3 | 9 38-8 | 9 11-0 | 2-9 1-9 | 8-9 5-7 | 14-9 9-6 |
| 30 | 9 37-5 | 9 39-1 | 9 11-2 | 3-0 1-9 | 9-0 5-8 | 15-0 9-6 |
| 31 | 9 37-8 | 9 39-3 | 9 11-4 | 3-1 2-0 | 9-1 5-8 | 15-1 9-7 |
| 32 | 9 38-0 | 9 39-6 | 9 11-7 | 3-2 2-1 | 9-2 5-9 | 15-2 9-8 |
| 33 | 9 38-3 | 9 39-8 | 9 11-9 | 3-3 2-1 | 9-3 6-0 | 15-3 9-8 |
| 34 | 9 38-5 | 9 40-1 | 9 12-1 | 3-4 2-2 | 9-4 6-0 | 15-4 9-9 |
| 35 | 9 38-8 | 9 40-3 | 9 12-4 | 3-5 2-2 | 9-5 6-1 | 15-5 9-9 |
| 36 | 9 39-0 | 9 40-6 | 9 12-6 | 3-6 2-3 | 9-6 6-2 | 15-6 10-0 |
| 37 | 9 39-3 | 9 40-8 | 9 12-9 | 3-7 2-4 | 9-7 6-2 | 15-7 10-1 |
| 38 | 9 39-5 | 9 41-1 | 9 13-1 | 3-8 2-4 | 9-8 6-3 | 15-8 10-1 |
| 39 | 9 39-8 | 9 41-3 | 9 13-3 | 3-9 2-5 | 9-9 6-4 | 15-9 10-2 |
| 40 | 9 40-0 | 9 41-6 | 9 13-6 | 4-0 2-5 | 10-0 6-4 | 16-0 10-3 |
| 41 | 9 40-3 | 9 41-8 | 9 13-8 | 4-1 2-5 | 10-1 6-5 | 16-1 10-3 |
| 42 | 9 40-5 | 9 42-1 | 9 14-1 | 4-2 2-7 | 10-2 6-5 | 16-2 10-4 |
| 43 | 9 40-8 | 9 42-3 | 9 14-3 | 4-3 2-8 | 10-3 6-6 | 16-3 10-5 |
| 44 | 9 41-0 | 9 42-6 | 9 14-5 | 4-4 2-8 | 10-4 6-7 | 16-4 10-5 |
| 45 | 9 41-3 | 9 42-8 | 9 14-8 | 4-5 2-5 | 10-5 6-7 | 16-5 10-6 |
| 46 | 9 41-5 | 9 43-1 | 9 15-0 | 4-6 3-0 | 10-6 6-8 | 16-6 10-7 |
| 47 | 9 41-8 | 9 43-3 | 9 15-2 | 4-7 3-0 | 10-7 6-9 | 16-7 10-7 |
| 48 | 9 42-0 | 9 43-6 | 9 15-5 | 4-8 3-1 | 10-8 6-9 | 16-8 10-8 |
| 49 | 9 42-3 | 9 43-8 | 9 15-7 | 4-9 3-1 | 10-9 7-0 | 16-9 10-8 |
| 50 | 9 42-5 | 9 44-1 | 9 16-0 | 5-0 3-2 | 11-0 7-1 | 17-0 10-9 |
| 51 | 9 42-8 | 9 44-3 | 9 16-2 | 5-1 3-3 | 11-1 7-1 | 17-1 11-0 |
| 52 | 9 43-0 | 9 44-6 | 9 16-4 | 5-2 3-3 | 11-2 7-2 | 17-2 11-0 |
| 53 | 9 43-3 | 9 44-8 | 9 16-7 | 5-3 3-4 | 11-3 7-3 | 17-3 11-1 |
| 54 | 9 43-5 | 9 45-1 | 9 16-9 | 5-4 3-5 | 11-4 7-3 | 17-4 11-2 |
| 55 | 9 43-8 | 9 45-3 | 9 17-2 | 5-5 3-5 | 11-5 7-4 | 17-5 11-2 |
| 56 | 9 44-0 | 9 45-6 | 9 17-4 | 5-6 3-6 | 11-6 7-4 | 17-6 11-3 |
| 57 | 9 44-3 | 9 45-8 | 9 17-6 | 5-7 3-7 | 11-7 7-5 | 17-7 11-4 |
| 58 | 9 44-5 | 9 46-1 | 9 17-9 | 5-8 3-7 | 11-8 7-6 | 17-8 11-4 |
| 59 | 9 44-8 | 9 46-4 | 9 18-1 | 5-9 3-8 | 11-9 7-6 | 17-9 11-5 |
| 60 | 9 45-0 | 9 46-6 | 9 18-4 | 6-0 3-9 | 12-0 7-7 | 18-0 11-6 |

| 39 ^m | SOL PLANETAS | ARIES | LUNA | v _o Corr ⁿ d | v _o Corr ⁿ d | v _o Corr ⁿ d |
|-----------------|--------------|---------|--------|---------------------------------------|---------------------------------------|---------------------------------------|
| 00 | 9 45-0 | 9 46-6 | 9 18-4 | 0-0 0-0 | 6-0 4-0 | 12-0 7-9 |
| 01 | 9 45-3 | 9 46-9 | 9 18-6 | 0-1 0-1 | 6-1 4-0 | 12-1 8-0 |
| 02 | 9 45-5 | 9 47-1 | 9 18-8 | 0-2 0-1 | 6-2 4-1 | 12-2 8-0 |
| 03 | 9 45-8 | 9 47-4 | 9 19-1 | 0-3 0-2 | 6-3 4-1 | 12-3 8-1 |
| 04 | 9 46-0 | 9 47-6 | 9 19-3 | 0-4 0-3 | 6-4 4-2 | 12-4 8-2 |
| 05 | 9 46-3 | 9 47-9 | 9 19-5 | 0-5 0-3 | 6-5 4-3 | 12-5 8-2 |
| 06 | 9 46-5 | 9 48-1 | 9 19-8 | 0-6 0-4 | 6-6 4-3 | 12-6 8-3 |
| 07 | 9 46-8 | 9 48-4 | 9 20-0 | 0-7 0-5 | 6-7 4-4 | 12-7 8-4 |
| 08 | 9 47-0 | 9 48-6 | 9 20-3 | 0-8 0-5 | 6-8 4-5 | 12-8 8-4 |
| 09 | 9 47-3 | 9 48-9 | 9 20-5 | 0-9 0-6 | 6-9 4-5 | 12-9 8-5 |
| 10 | 9 47-5 | 9 49-1 | 9 20-7 | 1-0 0-7 | 7-0 4-6 | 13-0 8-6 |
| 11 | 9 47-8 | 9 49-4 | 9 21-0 | 1-1 0-7 | 7-1 4-7 | 13-1 8-6 |
| 12 | 9 48-0 | 9 49-6 | 9 21-2 | 1-2 0-8 | 7-2 4-7 | 13-2 8-7 |
| 13 | 9 48-3 | 9 49-9 | 9 21-5 | 1-3 0-9 | 7-3 4-8 | 13-3 8-8 |
| 14 | 9 48-5 | 9 50-1 | 9 21-7 | 1-4 0-9 | 7-4 4-9 | 13-4 8-8 |
| 15 | 9 48-8 | 9 50-4 | 9 21-9 | 1-5 1-0 | 7-5 4-9 | 13-5 8-9 |
| 16 | 9 49-0 | 9 50-6 | 9 22-2 | 1-6 1-1 | 7-6 5-0 | 13-6 9-0 |
| 17 | 9 49-3 | 9 50-9 | 9 22-4 | 1-7 1-1 | 7-7 5-1 | 13-7 9-0 |
| 18 | 9 49-5 | 9 51-1 | 9 22-6 | 1-8 1-2 | 7-8 5-1 | 13-8 9-1 |
| 19 | 9 49-8 | 9 51-4 | 9 22-9 | 1-9 1-3 | 7-9 5-2 | 13-9 9-2 |
| 20 | 9 50-0 | 9 51-6 | 9 23-1 | 2-0 1-3 | 8-0 5-3 | 14-0 9-2 |
| 21 | 9 50-3 | 9 51-9 | 9 23-4 | 2-1 1-4 | 8-1 5-3 | 14-1 9-3 |
| 22 | 9 50-5 | 9 52-1 | 9 23-6 | 2-2 1-4 | 8-2 5-4 | 14-2 9-3 |
| 23 | 9 50-8 | 9 52-4 | 9 23-8 | 2-3 1-5 | 8-3 5-5 | 14-3 9-4 |
| 24 | 9 51-0 | 9 52-6 | 9 24-1 | 2-4 1-6 | 8-4 5-5 | 14-4 9-5 |
| 25 | 9 51-3 | 9 52-9 | 9 24-3 | 2-5 1-6 | 8-5 5-6 | 14-5 9-5 |
| 26 | 9 51-5 | 9 53-1 | 9 24-6 | 2-6 1-7 | 8-6 5-7 | 14-6 9-6 |
| 27 | 9 51-8 | 9 53-4 | 9 24-8 | 2-7 1-8 | 8-7 5-7 | 14-7 9-7 |
| 28 | 9 52-0 | 9 53-6 | 9 25-0 | 2-8 1-8 | 8-8 5-8 | 14-8 9-7 |
| 29 | 9 52-3 | 9 53-9 | 9 25-3 | 2-9 1-9 | 8-9 5-9 | 14-9 9-8 |
| 30 | 9 52-5 | 9 54-1 | 9 25-5 | 3-0 2-0 | 9-0 5-9 | 15-0 9-9 |
| 31 | 9 52-8 | 9 54-4 | 9 25-7 | 3-1 2-0 | 9-1 6-0 | 15-1 9-9 |
| 32 | 9 53-0 | 9 54-6 | 9 26-0 | 3-2 2-1 | 9-2 6-1 | 15-2 10-0 |
| 33 | 9 53-3 | 9 54-9 | 9 26-2 | 3-3 2-2 | 9-3 6-1 | 15-3 10-1 |
| 34 | 9 53-5 | 9 55-1 | 9 26-5 | 3-4 2-2 | 9-4 6-2 | 15-4 10-1 |
| 35 | 9 53-8 | 9 55-4 | 9 26-7 | 3-5 2-3 | 9-5 6-3 | 15-5 10-2 |
| 36 | 9 54-0 | 9 55-6 | 9 26-9 | 3-6 2-4 | 9-6 6-3 | 15-6 10-3 |
| 37 | 9 54-3 | 9 55-9 | 9 27-2 | 3-7 2-4 | 9-7 6-4 | 15-7 10-3 |
| 38 | 9 54-5 | 9 56-1 | 9 27-4 | 3-8 2-5 | 9-8 6-5 | 15-8 10-4 |
| 39 | 9 54-8 | 9 56-4 | 9 27-7 | 3-9 2-6 | 9-9 6-5 | 15-9 10-5 |
| 40 | 9 55-0 | 9 56-6 | 9 27-9 | 4-0 2-6 | 10-0 6-6 | 16-0 10-5 |
| 41 | 9 55-3 | 9 56-9 | 9 28-1 | 4-1 2-7 | 10-1 6-6 | 16-1 10-6 |
| 42 | 9 55-5 | 9 57-1 | 9 28-4 | 4-2 2-8 | 10-2 6-7 | 16-2 10-7 |
| 43 | 9 55-8 | 9 57-4 | 9 28-6 | 4-3 2-8 | 10-3 6-8 | 16-3 10-7 |
| 44 | 9 56-0 | 9 57-6 | 9 28-8 | 4-4 2-9 | 10-4 6-8 | 16-4 10-8 |
| 45 | 9 56-3 | 9 57-9 | 9 29-1 | 4-5 3-0 | 10-5 6-9 | 16-5 10-9 |
| 46 | 9 56-5 | 9 58-1 | 9 29-3 | 4-6 3-0 | 10-6 7-0 | 16-6 10-9 |
| 47 | 9 56-8 | 9 58-4 | 9 29-6 | 4-7 3-1 | 10-7 7-0 | 16-7 11-0 |
| 48 | 9 57-0 | 9 58-6 | 9 29-8 | 4-8 3-2 | 10-8 7-1 | 16-8 11-1 |
| 49 | 9 57-3 | 9 58-9 | 9 30-0 | 4-9 3-2 | 10-9 7-2 | 16-9 11-1 |
| 50 | 9 57-5 | 9 59-1 | 9 30-3 | 5-0 3-3 | 11-0 7-2 | 17-0 11-2 |
| 51 | 9 57-8 | 9 59-4 | 9 30-5 | 5-1 3-4 | 11-1 7-3 | 17-1 11-3 |
| 52 | 9 58-0 | 9 59-6 | 9 30-8 | 5-2 3-4 | 11-2 7-4 | 17-2 11-3 |
| 53 | 9 58-3 | 9 59-9 | 9 31-0 | 5-3 3-5 | 11-3 7-4 | 17-3 11-4 |
| 54 | 9 58-5 | 10 00-1 | 9 31-2 | 5-4 3-6 | 11-4 7-5 | 17-4 11-5 |
| 55 | 9 58-8 | 10 00-4 | 9 31-5 | 5-5 3-6 | 11-5 7-6 | 17-5 11-5 |
| 56 | 9 59-0 | 10 00-6 | 9 31-7 | 5-6 3-7 | 11-6 7-6 | 17-6 11-6 |
| 57 | 9 59-3 | 10 00-9 | 9 32-0 | 5-7 3-8 | 11-7 7-7 | 17-7 11-7 |
| 58 | 9 59-5 | 10 01-1 | 9 32-2 | 5-8 3-8 | 11-8 7-8 | 17-8 11-7 |
| 59 | 9 59-8 | 10 01-4 | 9 32-4 | 5-9 3-9 | 11-9 7-8 | 17-9 11-8 |
| 60 | 10 00-0 | 10 01-6 | 9 32-7 | 6-0 4-0 | 12-0 7-9 | 18-0 11-9 |

| 40 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
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| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 10 00-0 | 10 01-6 | 9 32-7 | 0-0 0-0 | 6-0 4-1 | 12-0 8-1 | | | | |
| 01 | 10 00-3 | 10 01-9 | 9 32-9 | 0-1 0-1 | 6-1 4-1 | 12-1 8-2 | | | | |
| 02 | 10 00-5 | 10 02-1 | 9 33-1 | 0-2 0-1 | 6-2 4-2 | 12-2 8-2 | | | | |
| 03 | 10 00-8 | 10 02-4 | 9 33-4 | 0-3 0-2 | 6-3 4-3 | 12-3 8-3 | | | | |
| 04 | 10 01-0 | 10 02-6 | 9 33-6 | 0-4 0-3 | 6-4 4-3 | 12-4 8-4 | | | | |
| 05 | 10 01-3 | 10 02-9 | 9 33-9 | 0-5 0-3 | 6-5 4-4 | 12-5 8-4 | | | | |
| 06 | 10 01-5 | 10 03-1 | 9 34-1 | 0-6 0-4 | 6-6 4-5 | 12-6 8-5 | | | | |
| 07 | 10 01-8 | 10 03-4 | 9 34-3 | 0-7 0-5 | 6-7 4-5 | 12-7 8-6 | | | | |
| 08 | 10 02-0 | 10 03-6 | 9 34-6 | 0-8 0-5 | 6-8 4-6 | 12-8 8-6 | | | | |
| 09 | 10 02-3 | 10 03-9 | 9 34-8 | 0-9 0-6 | 6-9 4-7 | 12-9 8-7 | | | | |
| 10 | 10 02-5 | 10 04-1 | 9 35-1 | 1-0 0-7 | 7-0 4-7 | 13-0 8-8 | | | | |
| 11 | 10 02-8 | 10 04-4 | 9 35-3 | 1-1 0-7 | 7-1 4-8 | 13-1 8-8 | | | | |
| 12 | 10 03-0 | 10 04-7 | 9 35-5 | 1-2 0-8 | 7-2 4-9 | 13-2 8-9 | | | | |
| 13 | 10 03-3 | 10 04-9 | 9 35-8 | 1-3 0-9 | 7-3 4-9 | 13-3 9-0 | | | | |
| 14 | 10 03-5 | 10 05-2 | 9 36-0 | 1-4 0-9 | 7-4 5-0 | 13-4 9-0 | | | | |
| 15 | 10 03-8 | 10 05-4 | 9 36-2 | 1-5 1-0 | 7-5 5-1 | 13-5 9-1 | | | | |
| 16 | 10 04-0 | 10 05-7 | 9 36-5 | 1-6 1-1 | 7-6 5-1 | 13-6 9-2 | | | | |
| 17 | 10 04-3 | 10 05-9 | 9 36-7 | 1-7 1-1 | 7-7 5-2 | 13-7 9-2 | | | | |
| 18 | 10 04-5 | 10 06-2 | 9 37-0 | 1-8 1-2 | 7-8 5-3 | 13-8 9-3 | | | | |
| 19 | 10 04-8 | 10 06-4 | 9 37-2 | 1-9 1-3 | 7-9 5-3 | 13-9 9-4 | | | | |
| 20 | 10 05-0 | 10 06-7 | 9 37-4 | 2-0 1-4 | 8-0 5-4 | 14-0 9-5 | | | | |
| 21 | 10 05-3 | 10 06-9 | 9 37-7 | 2-1 1-4 | 8-1 5-5 | 14-1 9-5 | | | | |
| 22 | 10 05-5 | 10 07-2 | 9 37-9 | 2-2 1-5 | 8-2 5-5 | 14-2 9-6 | | | | |
| 23 | 10 05-8 | 10 07-4 | 9 38-2 | 2-3 1-6 | 8-3 5-6 | 14-3 9-7 | | | | |
| 24 | 10 06-0 | 10 07-7 | 9 38-4 | 2-4 1-6 | 8-4 5-7 | 14-4 9-7 | | | | |
| 25 | 10 06-3 | 10 07-9 | 9 38-6 | 2-5 1-7 | 8-5 5-7 | 14-5 9-8 | | | | |
| 26 | 10 06-5 | 10 08-2 | 9 38-9 | 2-6 1-8 | 8-6 5-8 | 14-6 9-9 | | | | |
| 27 | 10 06-8 | 10 08-4 | 9 39-1 | 2-7 1-8 | 8-7 5-9 | 14-7 9-9 | | | | |
| 28 | 10 07-0 | 10 08-7 | 9 39-3 | 2-8 1-9 | 8-8 5-9 | 14-8 10-0 | | | | |
| 29 | 10 07-3 | 10 08-9 | 9 39-6 | 2-9 2-0 | 8-9 6-0 | 14-9 10-1 | | | | |
| 30 | 10 07-5 | 10 09-2 | 9 39-8 | 3-0 2-0 | 9-0 6-1 | 15-0 10-1 | | | | |
| 31 | 10 07-8 | 10 09-4 | 9 40-1 | 3-1 2-1 | 9-1 6-1 | 15-1 10-2 | | | | |
| 32 | 10 08-0 | 10 09-7 | 9 40-3 | 3-2 2-2 | 9-2 6-2 | 15-2 10-3 | | | | |
| 33 | 10 08-3 | 10 09-9 | 9 40-5 | 3-3 2-2 | 9-3 6-3 | 15-3 10-3 | | | | |
| 34 | 10 08-5 | 10 10-2 | 9 40-8 | 3-4 2-3 | 9-4 6-3 | 15-4 10-4 | | | | |
| 35 | 10 08-8 | 10 10-4 | 9 41-0 | 3-5 2-4 | 9-5 6-4 | 15-5 10-5 | | | | |
| 36 | 10 09-0 | 10 10-7 | 9 41-3 | 3-6 2-4 | 9-6 6-5 | 15-6 10-5 | | | | |
| 37 | 10 09-3 | 10 10-9 | 9 41-5 | 3-7 2-5 | 9-7 6-5 | 15-7 10-6 | | | | |
| 38 | 10 09-5 | 10 11-2 | 9 41-7 | 3-8 2-6 | 9-8 6-6 | 15-8 10-7 | | | | |
| 39 | 10 09-8 | 10 11-4 | 9 42-0 | 3-9 2-6 | 9-9 6-7 | 15-9 10-7 | | | | |
| 40 | 10 10-0 | 10 11-7 | 9 42-2 | 4-0 2-7 | 10-0 6-8 | 16-0 10-8 | | | | |
| 41 | 10 10-3 | 10 11-9 | 9 42-4 | 4-1 2-8 | 10-1 6-8 | 16-1 10-9 | | | | |
| 42 | 10 10-5 | 10 12-2 | 9 42-7 | 4-2 2-8 | 10-2 6-9 | 16-2 10-9 | | | | |
| 43 | 10 10-8 | 10 12-4 | 9 42-9 | 4-3 2-9 | 10-3 7-0 | 16-3 11-0 | | | | |
| 44 | 10 11-0 | 10 12-7 | 9 43-2 | 4-4 3-0 | 10-4 7-0 | 16-4 11-1 | | | | |
| 45 | 10 11-3 | 10 12-9 | 9 43-4 | 4-5 3-0 | 10-5 7-1 | 16-5 11-1 | | | | |
| 46 | 10 11-5 | 10 13-2 | 9 43-6 | 4-6 3-1 | 10-6 7-2 | 16-6 11-2 | | | | |
| 47 | 10 11-8 | 10 13-4 | 9 43-9 | 4-7 3-2 | 10-7 7-2 | 16-7 11-3 | | | | |
| 48 | 10 12-0 | 10 13-7 | 9 44-1 | 4-8 3-2 | 10-8 7-3 | 16-8 11-3 | | | | |
| 49 | 10 12-3 | 10 13-9 | 9 44-4 | 4-9 3-3 | 10-9 7-4 | 16-9 11-4 | | | | |
| 50 | 10 12-5 | 10 14-2 | 9 44-6 | 5-0 3-4 | 11-0 7-4 | 17-0 11-5 | | | | |
| 51 | 10 12-8 | 10 14-4 | 9 44-8 | 5-1 3-4 | 11-1 7-5 | 17-1 11-5 | | | | |
| 52 | 10 13-0 | 10 14-7 | 9 45-1 | 5-2 3-5 | 11-2 7-6 | 17-2 11-6 | | | | |
| 53 | 10 13-3 | 10 14-9 | 9 45-3 | 5-3 3-6 | 11-3 7-6 | 17-3 11-7 | | | | |
| 54 | 10 13-5 | 10 15-2 | 9 45-6 | 5-4 3-6 | 11-4 7-7 | 17-4 11-7 | | | | |
| 55 | 10 13-8 | 10 15-4 | 9 45-8 | 5-5 3-7 | 11-5 7-8 | 17-5 11-8 | | | | |
| 56 | 10 14-0 | 10 15-7 | 9 46-0 | 5-6 3-8 | 11-6 7-8 | 17-6 11-9 | | | | |
| 57 | 10 14-3 | 10 15-9 | 9 46-3 | 5-7 3-8 | 11-7 7-9 | 17-7 11-9 | | | | |
| 58 | 10 14-5 | 10 16-2 | 9 46-5 | 5-8 3-9 | 11-8 8-0 | 17-8 12-0 | | | | |
| 59 | 10 14-8 | 10 16-4 | 9 46-7 | 5-9 4-0 | 11-9 8-0 | 17-9 12-1 | | | | |
| 60 | 10 15-0 | 10 16-7 | 9 47-0 | 6-0 4-1 | 12-0 8-1 | 18-0 12-2 | | | | |

| 41 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
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| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 10 15-0 | 10 16-7 | 9 47-0 | 0-0 0-0 | 6-0 4-2 | 12-0 8-3 | | | | |
| 01 | 10 15-3 | 10 16-9 | 9 47-2 | 0-1 0-1 | 6-1 4-2 | 12-1 8-4 | | | | |
| 02 | 10 15-5 | 10 17-2 | 9 47-5 | 0-2 0-1 | 6-2 4-3 | 12-2 8-4 | | | | |
| 03 | 10 15-8 | 10 17-4 | 9 47-7 | 0-3 0-2 | 6-3 4-4 | 12-3 8-5 | | | | |
| 04 | 10 16-0 | 10 17-7 | 9 47-9 | 0-4 0-3 | 6-4 4-4 | 12-4 8-6 | | | | |
| 05 | 10 16-3 | 10 17-9 | 9 48-2 | 0-5 0-3 | 6-5 4-5 | 12-5 8-6 | | | | |
| 06 | 10 16-5 | 10 18-2 | 9 48-4 | 0-6 0-4 | 6-6 4-6 | 12-6 8-7 | | | | |
| 07 | 10 16-8 | 10 18-4 | 9 48-7 | 0-7 0-5 | 6-7 4-6 | 12-7 8-8 | | | | |
| 08 | 10 17-0 | 10 18-7 | 9 48-9 | 0-8 0-6 | 6-8 4-7 | 12-8 8-9 | | | | |
| 09 | 10 17-3 | 10 18-9 | 9 49-1 | 0-9 0-6 | 6-9 4-8 | 12-9 8-9 | | | | |
| 10 | 10 17-5 | 10 19-2 | 9 49-4 | 1-0 0-7 | 7-0 4-8 | 13-0 9-0 | | | | |
| 11 | 10 17-8 | 10 19-4 | 9 49-6 | 1-1 0-8 | 7-1 4-9 | 13-1 9-1 | | | | |
| 12 | 10 18-0 | 10 19-7 | 9 49-8 | 1-2 0-8 | 7-2 5-0 | 13-2 9-1 | | | | |
| 13 | 10 18-3 | 10 19-9 | 9 50-1 | 1-3 0-9 | 7-3 5-0 | 13-3 9-2 | | | | |
| 14 | 10 18-5 | 10 20-2 | 9 50-3 | 1-4 1-0 | 7-4 5-1 | 13-4 9-3 | | | | |
| 15 | 10 18-8 | 10 20-4 | 9 50-6 | 1-5 1-0 | 7-5 5-2 | 13-5 9-3 | | | | |
| 16 | 10 19-0 | 10 20-7 | 9 50-8 | 1-6 1-1 | 7-6 5-3 | 13-6 9-4 | | | | |
| 17 | 10 19-3 | 10 20-9 | 9 51-0 | 1-7 1-2 | 7-7 5-3 | 13-7 9-5 | | | | |
| 18 | 10 19-5 | 10 21-2 | 9 51-3 | 1-8 1-2 | 7-8 5-4 | 13-8 9-5 | | | | |
| 19 | 10 19-8 | 10 21-4 | 9 51-5 | 1-9 1-3 | 7-9 5-5 | 13-9 9-6 | | | | |
| 20 | 10 20-0 | 10 21-7 | 9 51-8 | 2-0 1-4 | 8-0 5-5 | 14-0 9-7 | | | | |
| 21 | 10 20-3 | 10 21-9 | 9 52-0 | 2-1 1-5 | 8-1 5-6 | 14-1 9-8 | | | | |
| 22 | 10 20-5 | 10 22-2 | 9 52-2 | 2-2 1-5 | 8-2 5-7 | 14-2 9-8 | | | | |
| 23 | 10 20-8 | 10 22-4 | 9 52-5 | 2-3 1-6 | 8-3 5-7 | 14-3 9-9 | | | | |
| 24 | 10 21-0 | 10 22-7 | 9 52-7 | 2-4 1-7 | 8-4 5-8 | 14-4 10-0 | | | | |
| 25 | 10 21-3 | 10 23-0 | 9 52-9 | 2-5 1-7 | 8-5 5-9 | 14-5 10-0 | | | | |
| 26 | 10 21-5 | 10 23-2 | 9 53-2 | 2-6 1-8 | 8-6 5-9 | 14-6 10-1 | | | | |
| 27 | 10 21-8 | 10 23-5 | 9 53-4 | 2-7 1-9 | 8-7 6-0 | 14-7 10-2 | | | | |
| 28 | 10 22-0 | 10 23-7 | 9 53-7 | 2-8 1-9 | 8-8 6-1 | 14-8 10-2 | | | | |
| 29 | 10 22-3 | 10 24-0 | 9 53-9 | 2-9 2-0 | 8-9 6-2 | 14-9 10-3 | | | | |
| 30 | 10 22-5 | 10 24-2 | 9 54-1 | 3-0 2-1 | 9-0 6-2 | 15-0 10-4 | | | | |
| 31 | 10 22-8 | 10 24-5 | 9 54-4 | 3-1 2-1 | 9-1 6-3 | 15-1 10-4 | | | | |
| 32 | 10 23-0 | 10 24-7 | 9 54-6 | 3-2 2-2 | 9-2 6-4 | 15-2 10-5 | | | | |
| 33 | 10 23-3 | 10 25-0 | 9 54-9 | 3-3 2-3 | 9-3 6-4 | 15-3 10-6 | | | | |
| 34 | 10 23-5 | 10 25-2 | 9 55-1 | 3-4 2-4 | 9-4 6-5 | 15-4 10-7 | | | | |
| 35 | 10 23-8 | 10 25-5 | 9 55-3 | 3-5 2-4 | 9-5 6-6 | 15-5 10-7 | | | | |
| 36 | 10 24-0 | 10 25-7 | 9 55-6 | 3-6 2-5 | 9-6 6-6 | 15-6 10-8 | | | | |
| 37 | 10 24-3 | 10 26-0 | 9 55-8 | 3-7 2-5 | 9-7 6-7 | 15-7 10-9 | | | | |
| 38 | 10 24-5 | 10 26-2 | 9 56-1 | 3-8 2-6 | 9-8 6-8 | 15-8 10-9 | | | | |
| 39 | 10 24-8 | 10 26-5 | 9 56-3 | 3-9 2-7 | 9-9 6-8 | 15-9 11-0 | | | | |
| 40 | 10 25-0 | 10 26-7 | 9 56-5 | 4-0 2-8 | 10-0 6-9 | 16-0 11-1 | | | | |
| 41 | 10 25-3 | 10 27-0 | 9 56-8 | 4-1 2-8 | 10-1 7-0 | 16-1 11-1 | | | | |
| 42 | 10 25-5 | 10 27-2 | 9 57-0 | 4-2 2-9 | 10-2 7-1 | 16-2 11-2 | | | | |
| 43 | 10 25-8 | 10 27-5 | 9 57-2 | 4-3 3-0 | 10-3 7-1 | 16-3 11-3 | | | | |
| 44 | 10 26-0 | 10 27-7 | 9 57-5 | 4-4 3-0 | 10-4 7-2 | 16-4 11-3 | | | | |
| 45 | 10 26-3 | 10 28-0 | 9 57-7 | 4-5 3-1 | 10-5 7-3 | 16-5 11-4 | | | | |
| 46 | 10 26-5 | 10 28-2 | 9 58-0 | 4-6 3-2 | 10-6 7-3 | 16-6 11-5 | | | | |
| 47 | 10 26-8 | 10 28-5 | 9 58-2 | 4-7 3-3 | 10-7 7-4 | 16-7 11-6 | | | | |
| 48 | 10 27-0 | 10 28-7 | 9 58-4 | 4-8 3-3 | 10-8 7-5 | 16-8 11-6 | | | | |
| 49 | 10 27-3 | 10 29-0 | 9 58-7 | 4-9 3-4 | 10-9 7-5 | 16-9 11-7 | | | | |
| 50 | 10 27-5 | 10 29-2 | 9 58-9 | 5-0 3-5 | 11-0 7-6 | 17-0 11-8 | | | | |
| 51 | 10 27-8 | 10 29-5 | 9 59-2 | 5-1 3-5 | 11-1 7-7 | 17-1 11-8 | | | | |
| 52 | 10 28-0 | 10 29-7 | 9 59-4 | 5-2 3-6 | 11-2 7-7 | 17-2 11-9 | | | | |
| 53 | 10 28-3 | 10 30-0 | 9 59-6 | 5-3 3-7 | 11-3 7-8 | 17-3 12-0 | | | | |
| 54 | 10 28-5 | 10 30-2 | 9 59-9 | 5-4 3-7 | 11-4 7-9 | 17-4 12-0 | | | | |
| 55 | 10 28-8 | 10 30-5 | 10 00-1 | 5-5 3-8 | 11-5 8-0 | 17-5 12-1 | | | | |
| 56 | 10 29-0 | 10 30-7 | 10 00-3 | 5-6 3-9 | 11-6 8-0 | 17-6 12-2 | | | | |
| 57 | 10 29-3 | 10 31-0 | 10 00-6 | 5-7 3-9 | 11-7 8-1 | 17-7 12-2 | | | | |
| 58 | 10 29-5 | 10 31-2 | 10 00-8 | 5-8 4-0 | 11-8 8-2 | 17-8 12-3 | | | | |
| 59 | 10 29-8 | 10 31-5 | 10 01-1 | 5-9 4-1 | 11-9 8-2 | 17-9 12-4 | | | | |
| 60 | 10 30-0 | 10 31-7 | 10 01-3 | 6-0 4-2 | 12-0 8-3 | 18-0 12-5 | | | | |

| 42 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
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| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 10 30-0 | 10 31-7 | 10 01-3 | 0-0 0-0 | 6-0 4-3 | 12 0 8-5 | | | | |
| 01 | 10 30-3 | 10 32-0 | 10 01-5 | 0-1 0-1 | 6-1 4-3 | 12 1 8-6 | | | | |
| 02 | 10 30-5 | 10 32-2 | 10 01-8 | 0-2 0-1 | 6-2 4-4 | 12 2 8-6 | | | | |
| 03 | 10 30-8 | 10 32-5 | 10 02-0 | 0-3 0-2 | 6-3 4-5 | 12 3 8-7 | | | | |
| 04 | 10 31-0 | 10 32-7 | 10 02-3 | 0-4 0-3 | 6-4 4-5 | 12 4 8-8 | | | | |
| 05 | 10 31-3 | 10 33-0 | 10 02-5 | 0-5 0-4 | 6-5 4-6 | 12 5 8-9 | | | | |
| 06 | 10 31-5 | 10 33-2 | 10 02-7 | 0-6 0-4 | 6-6 4-7 | 12 6 8-9 | | | | |
| 07 | 10 31-8 | 10 33-5 | 10 03-0 | 0-7 0-5 | 6-7 4-7 | 12 7 9-0 | | | | |
| 08 | 10 32-0 | 10 33-7 | 10 03-2 | 0-8 0-6 | 6-8 4-8 | 12 8 9-1 | | | | |
| 09 | 10 32-3 | 10 34-0 | 10 03-4 | 0-9 0-6 | 6-9 4-9 | 12 9 9-1 | | | | |
| 10 | 10 32-5 | 10 34-2 | 10 03-7 | 1-0 0-7 | 7-0 5-0 | 13 0 9-2 | | | | |
| 11 | 10 32-8 | 10 34-5 | 10 03-9 | 1-1 0-8 | 7-1 5-0 | 13 1 9-3 | | | | |
| 12 | 10 33-0 | 10 34-7 | 10 04-2 | 1-2 0-9 | 7-2 5-1 | 13 2 9-4 | | | | |
| 13 | 10 33-3 | 10 35-0 | 10 04-4 | 1-3 0-9 | 7-3 5-2 | 13 3 9-4 | | | | |
| 14 | 10 33-5 | 10 35-2 | 10 04-6 | 1-4 1-0 | 7-4 5-2 | 13 4 9-5 | | | | |
| 15 | 10 33-8 | 10 35-5 | 10 04-9 | 1-5 1-1 | 7-5 5-3 | 13 5 9-6 | | | | |
| 16 | 10 34-0 | 10 35-7 | 10 05-1 | 1-6 1-1 | 7-6 5-4 | 13 6 9-6 | | | | |
| 17 | 10 34-3 | 10 36-0 | 10 05-4 | 1-7 1-2 | 7-7 5-5 | 13 7 9-7 | | | | |
| 18 | 10 34-5 | 10 36-2 | 10 05-6 | 1-8 1-3 | 7-8 5-5 | 13 8 9-8 | | | | |
| 19 | 10 34-8 | 10 36-5 | 10 05-8 | 1-9 1-3 | 7-9 5-6 | 13 9 9-8 | | | | |
| 20 | 10 35-0 | 10 36-7 | 10 06-1 | 2-0 1-4 | 8-0 5-7 | 14 0 9-9 | | | | |
| 21 | 10 35-3 | 10 37-0 | 10 06-3 | 2-1 1-5 | 8-1 5-7 | 14 1 10-0 | | | | |
| 22 | 10 35-5 | 10 37-2 | 10 06-5 | 2-2 1-6 | 8-2 5-8 | 14 2 10-1 | | | | |
| 23 | 10 35-8 | 10 37-5 | 10 06-8 | 2-3 1-6 | 8-3 5-9 | 14 3 10-1 | | | | |
| 24 | 10 36-0 | 10 37-7 | 10 07-0 | 2-4 1-7 | 8-4 6-0 | 14 4 10-2 | | | | |
| 25 | 10 36-3 | 10 38-0 | 10 07-3 | 2-5 1-8 | 8-5 6-0 | 14 5 10-3 | | | | |
| 26 | 10 36-5 | 10 38-2 | 10 07-5 | 2-6 1-8 | 8-6 6-1 | 14 6 10-3 | | | | |
| 27 | 10 36-8 | 10 38-5 | 10 07-7 | 2-7 1-9 | 8-7 6-2 | 14 7 10-4 | | | | |
| 28 | 10 37-0 | 10 38-7 | 10 08-0 | 2-8 2-0 | 8-8 6-2 | 14 8 10-5 | | | | |
| 29 | 10 37-3 | 10 39-0 | 10 08-2 | 2-9 2-1 | 8-9 6-3 | 14 9 10-6 | | | | |
| 30 | 10 37-5 | 10 39-2 | 10 08-5 | 3-0 2-1 | 9-0 6-4 | 15 0 10-6 | | | | |
| 31 | 10 37-8 | 10 39-5 | 10 08-7 | 3-1 2-2 | 9-1 6-4 | 15 1 10-7 | | | | |
| 32 | 10 38-0 | 10 39-7 | 10 08-9 | 3-2 2-3 | 9-2 6-5 | 15 2 10-8 | | | | |
| 33 | 10 38-3 | 10 40-0 | 10 09-2 | 3-3 2-3 | 9-3 6-6 | 15 3 10-8 | | | | |
| 34 | 10 38-5 | 10 40-2 | 10 09-4 | 3-4 2-4 | 9-4 6-7 | 15 4 10-9 | | | | |
| 35 | 10 38-8 | 10 40-5 | 10 09-7 | 3-5 2-5 | 9-5 6-7 | 15 5 11-0 | | | | |
| 36 | 10 39-0 | 10 40-7 | 10 09-9 | 3-6 2-6 | 9-6 6-8 | 15 6 11-1 | | | | |
| 37 | 10 39-3 | 10 41-0 | 10 10-1 | 3-7 2-6 | 9-7 6-9 | 15 7 11-1 | | | | |
| 38 | 10 39-5 | 10 41-3 | 10 10-4 | 3-8 2-7 | 9-8 6-9 | 15 8 11-2 | | | | |
| 39 | 10 39-8 | 10 41-5 | 10 10-6 | 3-9 2-8 | 9-9 7-0 | 15 9 11-3 | | | | |
| 40 | 10 40-0 | 10 41-8 | 10 10-8 | 4-0 2-8 | 10-0 7-1 | 16 0 11-3 | | | | |
| 41 | 10 40-3 | 10 42-0 | 10 11-1 | 4-1 2-9 | 10-1 7-2 | 16 1 11-4 | | | | |
| 42 | 10 40-5 | 10 42-3 | 10 11-3 | 4-2 3-0 | 10-2 7-2 | 16 2 11-5 | | | | |
| 43 | 10 40-8 | 10 42-5 | 10 11-6 | 4-3 3-0 | 10-3 7-3 | 16 3 11-5 | | | | |
| 44 | 10 41-0 | 10 42-8 | 10 11-8 | 4-4 3-1 | 10-4 7-4 | 16 4 11-6 | | | | |
| 45 | 10 41-3 | 10 43-0 | 10 12-0 | 4-5 3-2 | 10-5 7-4 | 16 5 11-7 | | | | |
| 46 | 10 41-5 | 10 43-3 | 10 12-3 | 4-6 3-3 | 10-6 7-5 | 16 6 11-8 | | | | |
| 47 | 10 41-8 | 10 43-5 | 10 12-5 | 4-7 3-3 | 10-7 7-6 | 16 7 11-8 | | | | |
| 48 | 10 42-0 | 10 43-8 | 10 12-8 | 4-8 3-4 | 10-8 7-7 | 16 8 11-9 | | | | |
| 49 | 10 42-3 | 10 44-0 | 10 13-0 | 4-9 3-5 | 10-9 7-7 | 16 9 12-0 | | | | |
| 50 | 10 42-5 | 10 44-3 | 10 13-2 | 5-0 3-5 | 11-0 7-8 | 17 0 12-0 | | | | |
| 51 | 10 42-8 | 10 44-5 | 10 13-5 | 5-1 3-6 | 11-1 7-9 | 17 1 12-1 | | | | |
| 52 | 10 43-0 | 10 44-8 | 10 13-7 | 5-2 3-7 | 11-2 7-9 | 17 2 12-2 | | | | |
| 53 | 10 43-3 | 10 45-0 | 10 13-9 | 5-3 3-8 | 11-3 8-0 | 17 3 12-3 | | | | |
| 54 | 10 43-5 | 10 45-3 | 10 14-2 | 5-4 3-8 | 11-4 8-1 | 17 4 12-3 | | | | |
| 55 | 10 43-8 | 10 45-5 | 10 14-4 | 5-5 3-9 | 11-5 8-1 | 17 5 12-4 | | | | |
| 56 | 10 44-0 | 10 45-8 | 10 14-7 | 5-6 4-0 | 11-6 8-2 | 17 6 12-5 | | | | |
| 57 | 10 44-3 | 10 46-0 | 10 14-9 | 5-7 4-0 | 11-7 8-3 | 17 7 12-5 | | | | |
| 58 | 10 44-5 | 10 46-3 | 10 15-1 | 5-8 4-1 | 11-8 8-4 | 17 8 12-6 | | | | |
| 59 | 10 44-8 | 10 46-5 | 10 15-4 | 5-9 4-2 | 11-9 8-4 | 17 9 12-7 | | | | |
| 60 | 10 45-0 | 10 46-8 | 10 15-6 | 6-0 4-3 | 12-0 8-5 | 18 0 12-8 | | | | |

| 43 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ d | | v _o Corr ⁿ d | | v _o Corr ⁿ d | |
|-----------------|--------------|---------|---------|---------|---------------------------------------|-----------|---------------------------------------|-----|---------------------------------------|-----|
| | s | o / | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 10 45-0 | 10 46-8 | 10 15-6 | 0-0 0-0 | 6-0 4-4 | 12-0 8-7 | | | | |
| 01 | 10 45-3 | 10 47-0 | 10 15-9 | 0-1 0-1 | 6-1 4-4 | 12-1 8-8 | | | | |
| 02 | 10 45-5 | 10 47-3 | 10 16-1 | 0-2 0-1 | 6-2 4-5 | 12-2 8-8 | | | | |
| 03 | 10 45-8 | 10 47-5 | 10 16-3 | 0-3 0-2 | 6-3 4-6 | 12-3 8-9 | | | | |
| 04 | 10 46-0 | 10 47-8 | 10 16-6 | 0-4 0-3 | 6-4 4-6 | 12-4 9-0 | | | | |
| 05 | 10 46-3 | 10 48-0 | 10 16-8 | 0-5 0-4 | 6-5 4-7 | 12-5 9-1 | | | | |
| 06 | 10 46-5 | 10 48-3 | 10 17-0 | 0-6 0-4 | 6-6 4-8 | 12-6 9-1 | | | | |
| 07 | 10 46-8 | 10 48-5 | 10 17-3 | 0-7 0-5 | 6-7 4-9 | 12-7 9-2 | | | | |
| 08 | 10 47-0 | 10 48-8 | 10 17-5 | 0-8 0-6 | 6-8 4-9 | 12-8 9-3 | | | | |
| 09 | 10 47-3 | 10 49-0 | 10 17-8 | 0-9 0-7 | 6-9 5-0 | 12-9 9-4 | | | | |
| 10 | 10 47-5 | 10 49-3 | 10 18-0 | 1-0 0-7 | 7-0 5-1 | 13-0 9-4 | | | | |
| 11 | 10 47-8 | 10 49-5 | 10 18-2 | 1-1 0-8 | 7-1 5-1 | 13-1 9-5 | | | | |
| 12 | 10 48-0 | 10 49-8 | 10 18-5 | 1-2 0-9 | 7-2 5-2 | 13-2 9-6 | | | | |
| 13 | 10 48-3 | 10 50-0 | 10 18-7 | 1-3 0-9 | 7-3 5-3 | 13-3 9-6 | | | | |
| 14 | 10 48-5 | 10 50-3 | 10 19-0 | 1-4 1-0 | 7-4 5-4 | 13-4 9-7 | | | | |
| 15 | 10 48-8 | 10 50-5 | 10 19-2 | 1-5 1-1 | 7-5 5-4 | 13-5 9-8 | | | | |
| 16 | 10 49-0 | 10 50-8 | 10 19-4 | 1-6 1-2 | 7-6 5-5 | 13-6 9-9 | | | | |
| 17 | 10 49-3 | 10 51-0 | 10 19-7 | 1-7 1-2 | 7-7 5-6 | 13-7 9-9 | | | | |
| 18 | 10 49-5 | 10 51-3 | 10 19-9 | 1-8 1-3 | 7-8 5-7 | 13-8 10-0 | | | | |
| 19 | 10 49-8 | 10 51-5 | 10 20-2 | 1-9 1-4 | 7-9 5-7 | 13-9 10-1 | | | | |
| 20 | 10 50-0 | 10 51-8 | 10 20-4 | 2-0 1-5 | 8-0 5-8 | 14-0 10-2 | | | | |
| 21 | 10 50-3 | 10 52-0 | 10 20-6 | 2-1 1-5 | 8-1 5-9 | 14-1 10-2 | | | | |
| 22 | 10 50-5 | 10 52-3 | 10 20-9 | 2-2 1-6 | 8-2 5-9 | 14-2 10-3 | | | | |
| 23 | 10 50-8 | 10 52-5 | 10 21-1 | 2-3 1-7 | 8-3 6-0 | 14-3 10-4 | | | | |
| 24 | 10 51-0 | 10 52-8 | 10 21-3 | 2-4 1-7 | 8-4 6-1 | 14-4 10-4 | | | | |
| 25 | 10 51-3 | 10 53-0 | 10 21-6 | 2-5 1-8 | 8-5 6-2 | 14-5 10-5 | | | | |
| 26 | 10 51-5 | 10 53-3 | 10 21-8 | 2-6 1-9 | 8-6 6-2 | 14-6 10-6 | | | | |
| 27 | 10 51-8 | 10 53-5 | 10 22-1 | 2-7 2-0 | 8-7 6-3 | 14-7 10-7 | | | | |
| 28 | 10 52-0 | 10 53-8 | 10 22-3 | 2-8 2-0 | 8-8 6-4 | 14-8 10-7 | | | | |
| 29 | 10 52-3 | 10 54-0 | 10 22-5 | 2-9 2-1 | 8-9 6-5 | 14-9 10-8 | | | | |
| 30 | 10 52-5 | 10 54-3 | 10 22-8 | 3-0 2-2 | 9-0 6-5 | 15-0 10-9 | | | | |
| 31 | 10 52-8 | 10 54-5 | 10 23-0 | 3-1 2-2 | 9-1 6-6 | 15-1 10-9 | | | | |
| 32 | 10 53-0 | 10 54-8 | 10 23-3 | 3-2 2-3 | 9-2 6-7 | 15-2 11-0 | | | | |
| 33 | 10 53-3 | 10 55-0 | 10 23-5 | 3-3 2-4 | 9-3 6-7 | 15-3 11-1 | | | | |
| 34 | 10 53-5 | 10 55-3 | 10 23-7 | 3-4 2-5 | 9-4 6-8 | 15-4 11-2 | | | | |
| 35 | 10 53-8 | 10 55-5 | 10 24-0 | 3-5 2-5 | 9-5 6-9 | 15-5 11-2 | | | | |
| 36 | 10 54-0 | 10 55-8 | 10 24-2 | 3-6 2-6 | 9-6 7-0 | 15-6 11-3 | | | | |
| 37 | 10 54-3 | 10 56-0 | 10 24-4 | 3-7 2-7 | 9-7 7-0 | 15-7 11-4 | | | | |
| 38 | 10 54-5 | 10 56-3 | 10 24-7 | 3-8 2-8 | 9-8 7-1 | 15-8 11-5 | | | | |
| 39 | 10 54-8 | 10 56-5 | 10 24-9 | 3-9 2-8 | 9-9 7-2 | 15-9 11-5 | | | | |
| 40 | 10 55-0 | 10 56-8 | 10 25-2 | 4-0 2-9 | 10-0 7-3 | 16-0 11-6 | | | | |
| 41 | 10 55-3 | 10 57-0 | 10 25-4 | 4-1 3-0 | 10-1 7-3 | 16-1 11-7 | | | | |
| 42 | 10 55-5 | 10 57-3 | 10 25-6 | 4-2 3-0 | 10-2 7-4 | 16-2 11-7 | | | | |
| 43 | 10 55-8 | 10 57-5 | 10 25-9 | 4-3 3-1 | 10-3 7-5 | 16-3 11-8 | | | | |
| 44 | 10 56-0 | 10 57-8 | 10 26-1 | 4-4 3-2 | 10-4 7-5 | 16-4 11-9 | | | | |
| 45 | 10 56-3 | 10 58-0 | 10 26-4 | 4-5 3-3 | 10-5 7-6 | 16-5 12-0 | | | | |
| 46 | 10 56-5 | 10 58-3 | 10 26-6 | 4-6 3-3 | 10-6 7-7 | 16-6 12-0 | | | | |
| 47 | 10 56-8 | 10 58-5 | 10 26-8 | 4-7 3-4 | 10-7 7-8 | 16-7 12-1 | | | | |
| 48 | 10 57-0 | 10 58-8 | 10 27-1 | 4-8 3-5 | 10-8 7-8 | 16-8 12-2 | | | | |
| 49 | 10 57-3 | 10 59-0 | 10 27-3 | 4-9 3-6 | 10-9 7-9 | 16-9 12-3 | | | | |
| 50 | 10 57-5 | 10 59-3 | 10 27-5 | 5-0 3-6 | 11-0 8-0 | 17-0 12-3 | | | | |
| 51 | 10 57-8 | 10 59-6 | 10 27-8 | 5-1 3-7 | 11-1 8-0 | 17-1 12-4 | | | | |
| 52 | 10 58-0 | 10 59-8 | 10 28-0 | 5-2 3-8 | 11-2 8-1 | 17-2 12-5 | | | | |
| 53 | 10 58-3 | 11 00-1 | 10 28-3 | 5-3 3-8 | 11-3 8-2 | 17-3 12-5 | | | | |
| 54 | 10 58-5 | 11 00-3 | 10 28-5 | 5-4 3-9 | 11-4 8-3 | 17-4 12-6 | | | | |
| 55 | 10 58-8 | 11 00-6 | 10 28-7 | 5-5 4-0 | 11-5 8-3 | 17-5 12-7 | | | | |
| 56 | 10 59-0 | 11 00-8 | 10 29-0 | 5-6 4-1 | 11-6 8-4 | 17-6 12-8 | | | | |
| 57 | 10 59-3 | 11 01-1 | 10 29-2 | 5-7 4-1 | 11-7 8-5 | 17-7 12-8 | | | | |
| 58 | 10 59-5 | 11 01-3 | 10 29-5 | 5-8 4-2 | 11-8 8-6 | 17-8 12-9 | | | | |
| 59 | 10 59-8 | 11 01-6 | 10 29-7 | 5-9 4-3 | 11-9 8-6 | 17-9 13-0 | | | | |
| 60 | 11 00-0 | 11 01-8 | 10 29-9 | 6-0 4-4 | 12-0 8-7 | 18-0 13-1 | | | | |

| 44 ^m | SOL PLANETAS | | ARIES | | LUNA | | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|---------|---------|-----|------|------|----------------------------------|------|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / |
| 00 | 11 00-0 | 11 01-8 | 10 29-9 | 0-0 | 0-0 | 6-0 | 4-5 | 12-0 | 8-9 | | | |
| 01 | 11 00-3 | 11 02-1 | 10 30-2 | 0-1 | 0-1 | 6-1 | 4-5 | 12-1 | 9-0 | | | |
| 02 | 11 00-5 | 11 02-3 | 10 30-4 | 0-2 | 0-1 | 6-2 | 4-6 | 12-2 | 9-0 | | | |
| 03 | 11 00-8 | 11 02-6 | 10 30-6 | 0-3 | 0-2 | 6-3 | 4-7 | 12-3 | 9-1 | | | |
| 04 | 11 01-0 | 11 02-8 | 10 30-9 | 0-4 | 0-3 | 6-4 | 4-7 | 12-4 | 9-2 | | | |
| 05 | 11 01-3 | 11 03-1 | 10 31-1 | 0-5 | 0-4 | 6-5 | 4-8 | 12-5 | 9-3 | | | |
| 06 | 11 01-5 | 11 03-3 | 10 31-4 | 0-6 | 0-4 | 6-6 | 4-9 | 12-6 | 9-3 | | | |
| 07 | 11 01-8 | 11 03-6 | 10 31-6 | 0-7 | 0-5 | 6-7 | 5-0 | 12-7 | 9-4 | | | |
| 08 | 11 02-0 | 11 03-8 | 10 31-8 | 0-8 | 0-6 | 6-8 | 5-0 | 12-8 | 9-5 | | | |
| 09 | 11 02-3 | 11 04-1 | 10 32-1 | 0-9 | 0-7 | 6-9 | 5-1 | 12-9 | 9-6 | | | |
| 10 | 11 02-5 | 11 04-3 | 10 32-3 | 1-0 | 0-7 | 7-0 | 5-2 | 13-0 | 9-6 | | | |
| 11 | 11 02-8 | 11 04-6 | 10 32-6 | 1-1 | 0-8 | 7-1 | 5-3 | 13-1 | 9-7 | | | |
| 12 | 11 03-0 | 11 04-8 | 10 32-8 | 1-2 | 0-9 | 7-2 | 5-3 | 13-2 | 9-8 | | | |
| 13 | 11 03-3 | 11 05-1 | 10 33-0 | 1-3 | 1-0 | 7-3 | 5-4 | 13-3 | 9-9 | | | |
| 14 | 11 03-5 | 11 05-3 | 10 33-3 | 1-4 | 1-0 | 7-4 | 5-5 | 13-4 | 9-9 | | | |
| 15 | 11 03-8 | 11 05-6 | 10 33-5 | 1-5 | 1-1 | 7-5 | 5-6 | 13-5 | 10-0 | | | |
| 16 | 11 04-0 | 11 05-8 | 10 33-8 | 1-6 | 1-2 | 7-6 | 5-6 | 13-6 | 10-1 | | | |
| 17 | 11 04-3 | 11 06-1 | 10 34-0 | 1-7 | 1-3 | 7-7 | 5-7 | 13-7 | 10-2 | | | |
| 18 | 11 04-5 | 11 06-3 | 10 34-2 | 1-8 | 1-3 | 7-8 | 5-8 | 13-8 | 10-2 | | | |
| 19 | 11 04-8 | 11 06-6 | 10 34-5 | 1-9 | 1-4 | 7-9 | 5-9 | 13-9 | 10-3 | | | |
| 20 | 11 05-0 | 11 06-8 | 10 34-7 | 2-0 | 1-5 | 8-0 | 5-9 | 14-0 | 10-4 | | | |
| 21 | 11 05-3 | 11 07-1 | 10 34-9 | 2-1 | 1-6 | 8-1 | 6-0 | 14-1 | 10-5 | | | |
| 22 | 11 05-5 | 11 07-3 | 10 35-2 | 2-2 | 1-6 | 8-2 | 6-1 | 14-2 | 10-5 | | | |
| 23 | 11 05-8 | 11 07-6 | 10 35-4 | 2-3 | 1-7 | 8-3 | 6-2 | 14-3 | 10-6 | | | |
| 24 | 11 06-0 | 11 07-8 | 10 35-7 | 2-4 | 1-8 | 8-4 | 6-2 | 14-4 | 10-7 | | | |
| 25 | 11 06-3 | 11 08-1 | 10 35-9 | 2-5 | 1-9 | 8-5 | 6-3 | 14-5 | 10-8 | | | |
| 26 | 11 06-5 | 11 08-3 | 10 36-1 | 2-6 | 1-9 | 8-6 | 6-4 | 14-6 | 10-8 | | | |
| 27 | 11 06-8 | 11 08-6 | 10 36-4 | 2-7 | 2-0 | 8-7 | 6-5 | 14-7 | 10-9 | | | |
| 28 | 11 07-0 | 11 08-8 | 10 36-6 | 2-8 | 2-1 | 8-8 | 6-5 | 14-8 | 11-0 | | | |
| 29 | 11 07-3 | 11 09-1 | 10 36-9 | 2-9 | 2-2 | 8-9 | 6-6 | 14-9 | 11-1 | | | |
| 30 | 11 07-5 | 11 09-3 | 10 37-1 | 3-0 | 2-2 | 9-0 | 6-7 | 15-0 | 11-1 | | | |
| 31 | 11 07-8 | 11 09-6 | 10 37-3 | 3-1 | 2-3 | 9-1 | 6-7 | 15-1 | 11-2 | | | |
| 32 | 11 08-0 | 11 09-8 | 10 37-6 | 3-2 | 2-4 | 9-2 | 6-8 | 15-2 | 11-3 | | | |
| 33 | 11 08-3 | 11 10-1 | 10 37-8 | 3-3 | 2-4 | 9-3 | 6-9 | 15-3 | 11-3 | | | |
| 34 | 11 08-5 | 11 10-3 | 10 38-0 | 3-4 | 2-5 | 9-4 | 7-0 | 15-4 | 11-4 | | | |
| 35 | 11 08-8 | 11 10-6 | 10 38-3 | 3-5 | 2-6 | 9-5 | 7-0 | 15-5 | 11-5 | | | |
| 36 | 11 09-0 | 11 10-8 | 10 38-5 | 3-6 | 2-7 | 9-6 | 7-1 | 15-6 | 11-6 | | | |
| 37 | 11 09-3 | 11 11-1 | 10 38-8 | 3-7 | 2-7 | 9-7 | 7-2 | 15-7 | 11-6 | | | |
| 38 | 11 09-5 | 11 11-3 | 10 39-0 | 3-8 | 2-8 | 9-8 | 7-3 | 15-8 | 11-7 | | | |
| 39 | 11 09-8 | 11 11-6 | 10 39-2 | 3-9 | 2-9 | 9-9 | 7-3 | 15-9 | 11-8 | | | |
| 40 | 11 10-0 | 11 11-8 | 10 39-5 | 4-0 | 3-0 | 10-0 | 7-4 | 16-0 | 11-9 | | | |
| 41 | 11 10-3 | 11 12-1 | 10 39-7 | 4-1 | 3-0 | 10-1 | 7-5 | 16-1 | 11-9 | | | |
| 42 | 11 10-5 | 11 12-3 | 10 40-0 | 4-2 | 3-1 | 10-2 | 7-6 | 16-2 | 12-0 | | | |
| 43 | 11 10-8 | 11 12-6 | 10 40-2 | 4-3 | 3-2 | 10-3 | 7-6 | 16-3 | 12-1 | | | |
| 44 | 11 11-0 | 11 12-8 | 10 40-4 | 4-4 | 3-3 | 10-4 | 7-7 | 16-4 | 12-2 | | | |
| 45 | 11 11-3 | 11 13-1 | 10 40-7 | 4-5 | 3-3 | 10-5 | 7-8 | 16-5 | 12-2 | | | |
| 46 | 11 11-5 | 11 13-3 | 10 40-9 | 4-6 | 3-4 | 10-6 | 7-9 | 16-6 | 12-3 | | | |
| 47 | 11 11-8 | 11 13-6 | 10 41-1 | 4-7 | 3-5 | 10-7 | 7-9 | 16-7 | 12-4 | | | |
| 48 | 11 12-0 | 11 13-8 | 10 41-4 | 4-8 | 3-6 | 10-8 | 8-0 | 16-8 | 12-5 | | | |
| 49 | 11 12-3 | 11 14-1 | 10 41-6 | 4-9 | 3-6 | 10-9 | 8-1 | 16-9 | 12-5 | | | |
| 50 | 11 12-5 | 11 14-3 | 10 41-9 | 5-0 | 3-7 | 11-0 | 8-2 | 17-0 | 12-6 | | | |
| 51 | 11 12-8 | 11 14-6 | 10 42-1 | 5-1 | 3-8 | 11-1 | 8-2 | 17-1 | 12-7 | | | |
| 52 | 11 13-0 | 11 14-8 | 10 42-3 | 5-2 | 3-9 | 11-2 | 8-3 | 17-2 | 12-8 | | | |
| 53 | 11 13-3 | 11 15-1 | 10 42-6 | 5-3 | 3-9 | 11-3 | 8-4 | 17-3 | 12-8 | | | |
| 54 | 11 13-5 | 11 15-3 | 10 42-8 | 5-4 | 4-0 | 11-4 | 8-5 | 17-4 | 12-9 | | | |
| 55 | 11 13-8 | 11 15-6 | 10 43-1 | 5-5 | 4-1 | 11-5 | 8-5 | 17-5 | 13-0 | | | |
| 56 | 11 14-0 | 11 15-8 | 10 43-3 | 5-6 | 4-2 | 11-6 | 8-6 | 17-6 | 13-1 | | | |
| 57 | 11 14-3 | 11 16-1 | 10 43-5 | 5-7 | 4-2 | 11-7 | 8-7 | 17-7 | 13-1 | | | |
| 58 | 11 14-5 | 11 16-3 | 10 43-8 | 5-8 | 4-3 | 11-8 | 8-8 | 17-8 | 13-2 | | | |
| 59 | 11 14-8 | 11 16-6 | 10 44-0 | 5-9 | 4-4 | 11-9 | 8-8 | 17-9 | 13-3 | | | |
| 60 | 11 15-0 | 11 16-8 | 10 44-3 | 6-0 | 4-5 | 12-0 | 8-9 | 18-0 | 13-4 | | | |

| 45 ^m | SOL PLANETAS | | ARIES | | LUNA | | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|---------|---------|-----|------|------|----------------------------------|------|----------------------------------|-----|----------------------------------|-----|
| | s | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / | o / |
| 00 | 11 15-0 | 11 16-8 | 10 44-3 | 0-0 | 0-0 | 6-0 | 4-6 | 12-0 | 9-1 | | | |
| 01 | 11 15-3 | 11 17-1 | 10 44-5 | 0-1 | 0-1 | 6-1 | 4-6 | 12-1 | 9-2 | | | |
| 02 | 11 15-5 | 11 17-3 | 10 44-7 | 0-2 | 0-2 | 6-2 | 4-7 | 12-2 | 9-3 | | | |
| 03 | 11 15-8 | 11 17-6 | 10 45-0 | 0-3 | 0-2 | 6-3 | 4-8 | 12-3 | 9-3 | | | |
| 04 | 11 16-0 | 11 17-9 | 10 45-2 | 0-4 | 0-3 | 6-4 | 4-9 | 12-4 | 9-4 | | | |
| 05 | 11 16-3 | 11 18-1 | 10 45-4 | 0-5 | 0-4 | 6-5 | 4-9 | 12-5 | 9-5 | | | |
| 06 | 11 16-5 | 11 18-4 | 10 45-7 | 0-6 | 0-5 | 6-6 | 5-0 | 12-6 | 9-6 | | | |
| 07 | 11 16-8 | 11 18-6 | 10 45-9 | 0-7 | 0-5 | 6-7 | 5-1 | 12-7 | 9-6 | | | |
| 08 | 11 17-0 | 11 18-9 | 10 46-2 | 0-8 | 0-6 | 6-8 | 5-2 | 12-8 | 9-7 | | | |
| 09 | 11 17-3 | 11 19-1 | 10 46-4 | 0-9 | 0-7 | 6-9 | 5-2 | 12-9 | 9-8 | | | |
| 10 | 11 17-5 | 11 19-4 | 10 46-6 | 1-0 | 0-8 | 7-0 | 5-3 | 13-0 | 9-9 | | | |
| 11 | 11 17-8 | 11 19-6 | 10 46-9 | 1-1 | 0-8 | 7-1 | 5-4 | 13-1 | 9-9 | | | |
| 12 | 11 18-0 | 11 19-9 | 10 47-1 | 1-2 | 0-9 | 7-2 | 5-5 | 13-2 | 10-0 | | | |
| 13 | 11 18-3 | 11 20-1 | 10 47-4 | 1-3 | 1-0 | 7-3 | 5-5 | 13-3 | 10-1 | | | |
| 14 | 11 18-5 | 11 20-4 | 10 47-6 | 1-4 | 1-1 | 7-4 | 5-6 | 13-4 | 10-2 | | | |
| 15 | 11 18-8 | 11 20-6 | 10 47-8 | 1-5 | 1-1 | 7-5 | 5-7 | 13-5 | 10-2 | | | |
| 16 | 11 19-0 | 11 20-9 | 10 48-1 | 1-6 | 1-2 | 7-6 | 5-8 | 13-6 | 10-3 | | | |
| 17 | 11 19-3 | 11 21-1 | 10 48-3 | 1-7 | 1-3 | 7-7 | 5-8 | 13-7 | 10-4 | | | |
| 18 | 11 19-5 | 11 21-4 | 10 48-5 | 1-8 | 1-4 | 7-8 | 5-9 | 13-8 | 10-5 | | | |
| 19 | 11 19-8 | 11 21-6 | 10 48-8 | 1-9 | 1-4 | 7-9 | 6-0 | 13-9 | 10-5 | | | |
| 20 | 11 20-0 | 11 21-9 | 10 49-0 | 2-0 | 1-5 | 8-0 | 6-1 | 14-0 | 10-6 | | | |
| 21 | 11 20-3 | 11 22-1 | 10 49-3 | 2-1 | 1-6 | 8-1 | 6-1 | 14-1 | 10-7 | | | |
| 22 | 11 20-5 | 11 22-4 | 10 49-5 | 2-2 | 1-7 | 8-2 | 6-2 | 14-2 | 10-8 | | | |
| 23 | 11 20-8 | 11 22-6 | 10 49-7 | 2-3 | 1-7 | 8-3 | 6-3 | 14-3 | 10-8 | | | |
| 24 | 11 21-0 | 11 22-9 | 10 50-0 | 2-4 | 1-8 | 8-4 | 6-4 | 14-4 | 10-9 | | | |
| 25 | 11 21-3 | 11 23-1 | 10 50-2 | 2-5 | 1-9 | 8-5 | 6-4 | 14-5 | 11-0 | | | |
| 26 | 11 21-5 | 11 23-4 | 10 50-5 | 2-6 | 2-0 | 8-6 | 6-5 | 14-6 | 11-1 | | | |
| 27 | 11 21-8 | 11 23-6 | 10 50-7 | 2-7 | 2-0 | 8-7 | 6-6 | 14-7 | 11-1 | | | |
| 28 | 11 22-0 | 11 23-9 | 10 50-9 | 2-8 | 2-1 | 8-8 | 6-7 | 14-8 | 11-2 | | | |
| 29 | 11 22-3 | 11 24-1 | 10 51-2 | 2-9 | 2-2 | 8-9 | 6-7 | 14-9 | 11-3 | | | |
| 30 | 11 22-5 | 11 24-4 | 10 51-4 | 3-0 | 2-3 | 9-0 | 6-8 | 15-0 | 11-4 | | | |
| 31 | 11 22-8 | 11 24-6 | 10 51-6 | 3-1 | 2-4 | 9-1 | 6-9 | 15-1 | 11-5 | | | |
| 32 | 11 23-0 | 11 24-9 | 10 51-9 | 3-2 | 2-4 | 9-2 | 7-0 | 15-2 | 11-5 | | | |
| 33 | 11 23-3 | 11 25-1 | 10 52-1 | 3-3 | 2-5 | 9-3 | 7-1 | 15-3 | 11-6 | | | |
| 34 | 11 23-5 | 11 25-4 | 10 52-4 | 3-4 | 2-6 | 9-4 | 7-1 | 15-4 | 11-7 | | | |
| 35 | 11 23-8 | 11 25-6 | 10 52-6 | 3-5 | 2-7 | 9-5 | 7-2 | 15-5 | 11-8 | | | |
| 36 | 11 24-0 | 11 25-9 | 10 52-8 | 3-6 | 2-7 | 9-6 | 7-3 | 15-6 | 11-8 | | | |
| 37 | 11 24-3 | 11 26-1 | 10 53-1 | 3-7 | 2-8 | 9-7 | 7-4 | 15-7 | 11-9 | | | |
| 38 | 11 24-5 | 11 26-4 | 10 53-3 | 3-8 | 2-9 | 9-8 | 7-4 | 15-8 | 12-0 | | | |
| 39 | 11 24-8 | 11 26-6 | 10 53-6 | 3-9 | 3-0 | 9-9 | 7-5 | 15-9 | 12-1 | | | |
| 40 | 11 25-0 | 11 26-9 | 10 53-8 | 4-0 | 3-0 | 10-0 | 7-6 | 16-0 | 12-1 | | | |
| 41 | 11 25-3 | 11 27-1 | 10 54-0 | 4-1 | 3-1 | 10-1 | 7-7 | 16-1 | 12-2 | | | |
| 42 | 11 25-5 | 11 27-4 | 10 54-3 | 4-2 | 3-2 | 10-2 | 7-7 | 16-2 | 12-3 | | | |
| 43 | 11 25-8 | 11 27-6 | 10 54-5 | 4-3 | 3-3 | 10-3 | 7-8 | 16-3 | 12-4 | | | |
| 44 | 11 26-0 | 11 27-9 | 10 54-7 | 4-4 | 3-3 | 10-4 | 7-9 | 16-4 | 12-4 | | | |
| 45 | 11 26-3 | 11 28-1 | 10 55-0 | 4-5 | 3- | | | | | | | |

| 46 ^m | SOL PLANETAS | | ARIES | LUNA | | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|---------|---------|------|-----|----------------------------------|-----|----------------------------------|------|----------------------------------|-----|
| | s | o / | | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 11 30-0 | 11 31-9 | 10 58-6 | 0-0 | 0-0 | 6-0 | 4-7 | 12-0 | 9-3 | | |
| 01 | 11 30-3 | 11 32-1 | 10 58-8 | 0-1 | 0-1 | 6-1 | 4-7 | 12-1 | 9-4 | | |
| 02 | 11 30-5 | 11 32-4 | 10 59-0 | 0-2 | 0-2 | 6-2 | 4-8 | 12-2 | 9-5 | | |
| 03 | 11 30-8 | 11 32-6 | 10 59-3 | 0-3 | 0-2 | 6-3 | 4-9 | 12-3 | 9-5 | | |
| 04 | 11 31-0 | 11 32-9 | 10 59-5 | 0-4 | 0-3 | 6-4 | 5-0 | 12-4 | 9-6 | | |
| 05 | 11 31-3 | 11 33-1 | 10 59-8 | 0-5 | 0-4 | 6-5 | 5-0 | 12-5 | 9-7 | | |
| 06 | 11 31-5 | 11 33-4 | 11 00-0 | 0-6 | 0-5 | 6-6 | 5-1 | 12-6 | 9-8 | | |
| 07 | 11 31-8 | 11 33-6 | 11 00-2 | 0-7 | 0-5 | 6-7 | 5-2 | 12-7 | 9-8 | | |
| 08 | 11 32-0 | 11 33-9 | 11 00-5 | 0-8 | 0-6 | 6-8 | 5-3 | 12-8 | 9-9 | | |
| 09 | 11 32-3 | 11 34-1 | 11 00-7 | 0-9 | 0-7 | 6-9 | 5-3 | 12-9 | 10-0 | | |
| 10 | 11 32-5 | 11 34-4 | 11 01-0 | 1-0 | 0-8 | 7-0 | 5-4 | 13-0 | 10-1 | | |
| 11 | 11 32-8 | 11 34-6 | 11 01-2 | 1-1 | 0-9 | 7-1 | 5-5 | 13-1 | 10-2 | | |
| 12 | 11 33-0 | 11 34-9 | 11 01-4 | 1-2 | 0-9 | 7-2 | 5-6 | 13-2 | 10-2 | | |
| 13 | 11 33-3 | 11 35-1 | 11 01-7 | 1-3 | 1-0 | 7-3 | 5-7 | 13-3 | 10-3 | | |
| 14 | 11 33-5 | 11 35-4 | 11 01-9 | 1-4 | 1-1 | 7-4 | 5-7 | 13-4 | 10-4 | | |
| 15 | 11 33-8 | 11 35-6 | 11 02-1 | 1-5 | 1-2 | 7-5 | 5-8 | 13-5 | 10-5 | | |
| 16 | 11 34-0 | 11 35-9 | 11 02-4 | 1-6 | 1-2 | 7-6 | 5-9 | 13-6 | 10-5 | | |
| 17 | 11 34-3 | 11 36-2 | 11 02-6 | 1-7 | 1-3 | 7-7 | 6-0 | 13-7 | 10-6 | | |
| 18 | 11 34-5 | 11 36-4 | 11 02-9 | 1-8 | 1-4 | 7-8 | 6-0 | 13-8 | 10-7 | | |
| 19 | 11 34-8 | 11 36-7 | 11 03-1 | 1-9 | 1-5 | 7-9 | 6-1 | 13-9 | 10-8 | | |
| 20 | 11 35-0 | 11 36-9 | 11 03-3 | 2-0 | 1-6 | 8-0 | 6-2 | 14-0 | 10-9 | | |
| 21 | 11 35-3 | 11 37-2 | 11 03-6 | 2-1 | 1-6 | 8-1 | 6-3 | 14-1 | 10-9 | | |
| 22 | 11 35-5 | 11 37-4 | 11 03-8 | 2-2 | 1-7 | 8-2 | 6-4 | 14-2 | 11-0 | | |
| 23 | 11 35-8 | 11 37-7 | 11 04-1 | 2-3 | 1-8 | 8-3 | 6-4 | 14-3 | 11-1 | | |
| 24 | 11 36-0 | 11 37-9 | 11 04-3 | 2-4 | 1-9 | 8-4 | 6-5 | 14-4 | 11-2 | | |
| 25 | 11 36-3 | 11 38-2 | 11 04-5 | 2-5 | 1-9 | 8-5 | 6-6 | 14-5 | 11-2 | | |
| 26 | 11 36-5 | 11 38-4 | 11 04-8 | 2-6 | 2-0 | 8-6 | 6-7 | 14-6 | 11-3 | | |
| 27 | 11 36-8 | 11 38-7 | 11 05-0 | 2-7 | 2-1 | 8-7 | 6-7 | 14-7 | 11-4 | | |
| 28 | 11 37-0 | 11 38-9 | 11 05-2 | 2-8 | 2-2 | 8-8 | 6-8 | 14-8 | 11-5 | | |
| 29 | 11 37-3 | 11 39-2 | 11 05-5 | 2-9 | 2-2 | 8-9 | 6-9 | 14-9 | 11-5 | | |
| 30 | 11 37-5 | 11 39-4 | 11 05-7 | 3-0 | 2-3 | 9-0 | 7-0 | 15-0 | 11-6 | | |
| 31 | 11 37-8 | 11 39-7 | 11 06-0 | 3-1 | 2-4 | 9-1 | 7-1 | 15-1 | 11-7 | | |
| 32 | 11 38-0 | 11 39-9 | 11 06-2 | 3-2 | 2-5 | 9-2 | 7-1 | 15-2 | 11-8 | | |
| 33 | 11 38-3 | 11 40-2 | 11 06-4 | 3-3 | 2-6 | 9-3 | 7-2 | 15-3 | 11-9 | | |
| 34 | 11 38-5 | 11 40-4 | 11 06-7 | 3-4 | 2-6 | 9-4 | 7-3 | 15-4 | 11-9 | | |
| 35 | 11 38-8 | 11 40-7 | 11 06-9 | 3-5 | 2-7 | 9-5 | 7-4 | 15-5 | 12-0 | | |
| 36 | 11 39-0 | 11 40-9 | 11 07-2 | 3-6 | 2-8 | 9-6 | 7-4 | 15-6 | 12-1 | | |
| 37 | 11 39-3 | 11 41-2 | 11 07-4 | 3-7 | 2-9 | 9-7 | 7-5 | 15-7 | 12-2 | | |
| 38 | 11 39-5 | 11 41-4 | 11 07-6 | 3-8 | 2-9 | 9-8 | 7-6 | 15-8 | 12-2 | | |
| 39 | 11 39-8 | 11 41-7 | 11 07-9 | 3-9 | 3-0 | 9-9 | 7-7 | 15-9 | 12-3 | | |
| 40 | 11 40-0 | 11 41-9 | 11 08-1 | 4-0 | 3-1 | 10-0 | 7-8 | 16-0 | 12-4 | | |
| 41 | 11 40-3 | 11 42-2 | 11 08-3 | 4-1 | 3-2 | 10-1 | 7-8 | 16-1 | 12-5 | | |
| 42 | 11 40-5 | 11 42-4 | 11 08-6 | 4-2 | 3-3 | 10-2 | 7-9 | 16-2 | 12-6 | | |
| 43 | 11 40-8 | 11 42-7 | 11 08-8 | 4-3 | 3-3 | 10-3 | 8-0 | 16-3 | 12-6 | | |
| 44 | 11 41-0 | 11 42-9 | 11 09-1 | 4-4 | 3-4 | 10-4 | 8-1 | 16-4 | 12-7 | | |
| 45 | 11 41-3 | 11 43-2 | 11 09-3 | 4-5 | 3-5 | 10-5 | 8-1 | 16-5 | 12-8 | | |
| 46 | 11 41-5 | 11 43-4 | 11 09-5 | 4-6 | 3-6 | 10-6 | 8-2 | 16-6 | 12-9 | | |
| 47 | 11 41-8 | 11 43-7 | 11 09-8 | 4-7 | 3-6 | 10-7 | 8-3 | 16-7 | 12-9 | | |
| 48 | 11 42-0 | 11 43-9 | 11 10-0 | 4-8 | 3-7 | 10-8 | 8-4 | 16-8 | 13-0 | | |
| 49 | 11 42-3 | 11 44-2 | 11 10-3 | 4-9 | 3-8 | 10-9 | 8-4 | 16-9 | 13-1 | | |
| 50 | 11 42-5 | 11 44-4 | 11 10-5 | 5-0 | 3-9 | 11-0 | 8-5 | 17-0 | 13-2 | | |
| 51 | 11 42-8 | 11 44-7 | 11 10-7 | 5-1 | 4-0 | 11-1 | 8-6 | 17-1 | 13-3 | | |
| 52 | 11 43-0 | 11 44-9 | 11 11-0 | 5-2 | 4-0 | 11-2 | 8-7 | 17-2 | 13-3 | | |
| 53 | 11 43-3 | 11 45-2 | 11 11-2 | 5-3 | 4-1 | 11-3 | 8-8 | 17-3 | 13-4 | | |
| 54 | 11 43-5 | 11 45-4 | 11 11-5 | 5-4 | 4-2 | 11-4 | 8-8 | 17-4 | 13-5 | | |
| 55 | 11 43-8 | 11 45-7 | 11 11-7 | 5-5 | 4-3 | 11-5 | 8-9 | 17-5 | 13-6 | | |
| 56 | 11 44-0 | 11 45-9 | 11 11-9 | 5-6 | 4-3 | 11-6 | 9-0 | 17-6 | 13-6 | | |
| 57 | 11 44-3 | 11 46-2 | 11 12-2 | 5-7 | 4-4 | 11-7 | 9-1 | 17-7 | 13-7 | | |
| 58 | 11 44-5 | 11 46-4 | 11 12-4 | 5-8 | 4-5 | 11-8 | 9-1 | 17-8 | 13-8 | | |
| 59 | 11 44-8 | 11 46-7 | 11 12-6 | 5-9 | 4-6 | 11-9 | 9-2 | 17-9 | 13-9 | | |
| 60 | 11 45-0 | 11 46-9 | 11 12-9 | 6-0 | 4-7 | 12-0 | 9-3 | 18-0 | 14-0 | | |

| 47 ^m | SOL PLANETAS | | ARIES | LUNA | | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | |
|-----------------|--------------|---------|---------|------|-----|----------------------------------|-----|----------------------------------|------|----------------------------------|-----|
| | s | o / | | o / | o / | / / | / / | / / | / / | / / | / / |
| 00 | 11 45-0 | 11 46-9 | 11 12-9 | 0-0 | 0-0 | 6-0 | 4-8 | 12-0 | 9-5 | | |
| 01 | 11 45-3 | 11 47-2 | 11 13-1 | 0-1 | 0-1 | 6-1 | 4-8 | 12-1 | 9-6 | | |
| 02 | 11 45-5 | 11 47-4 | 11 13-4 | 0-2 | 0-2 | 6-2 | 4-9 | 12-2 | 9-7 | | |
| 03 | 11 45-8 | 11 47-7 | 11 13-6 | 0-3 | 0-2 | 6-3 | 5-0 | 12-3 | 9-7 | | |
| 04 | 11 46-0 | 11 47-9 | 11 13-8 | 0-4 | 0-3 | 6-4 | 5-1 | 12-4 | 9-8 | | |
| 05 | 11 46-3 | 11 48-2 | 11 14-1 | 0-5 | 0-4 | 6-5 | 5-1 | 12-5 | 9-9 | | |
| 06 | 11 46-5 | 11 48-4 | 11 14-3 | 0-6 | 0-5 | 6-6 | 5-2 | 12-6 | 10-0 | | |
| 07 | 11 46-8 | 11 48-7 | 11 14-6 | 0-7 | 0-6 | 6-7 | 5-3 | 12-7 | 10-1 | | |
| 08 | 11 47-0 | 11 48-9 | 11 14-8 | 0-8 | 0-6 | 6-8 | 5-4 | 12-8 | 10-1 | | |
| 09 | 11 47-3 | 11 49-2 | 11 15-0 | 0-9 | 0-7 | 6-9 | 5-5 | 12-9 | 10-2 | | |
| 10 | 11 47-5 | 11 49-4 | 11 15-3 | 1-0 | 0-8 | 7-0 | 5-5 | 13-0 | 10-3 | | |
| 11 | 11 47-8 | 11 49-7 | 11 15-5 | 1-1 | 0-9 | 7-1 | 5-6 | 13-1 | 10-4 | | |
| 12 | 11 48-0 | 11 49-9 | 11 15-7 | 1-2 | 1-0 | 7-2 | 5-7 | 13-2 | 10-5 | | |
| 13 | 11 48-3 | 11 50-2 | 11 16-0 | 1-3 | 1-0 | 7-3 | 5-8 | 13-3 | 10-5 | | |
| 14 | 11 48-5 | 11 50-4 | 11 16-2 | 1-4 | 1-1 | 7-4 | 5-9 | 13-4 | 10-6 | | |
| 15 | 11 48-8 | 11 50-7 | 11 16-5 | 1-5 | 1-2 | 7-5 | 5-9 | 13-5 | 10-7 | | |
| 16 | 11 49-0 | 11 50-9 | 11 16-7 | 1-6 | 1-3 | 7-6 | 6-0 | 13-6 | 10-8 | | |
| 17 | 11 49-3 | 11 51-2 | 11 16-9 | 1-7 | 1-3 | 7-7 | 6-1 | 13-7 | 10-8 | | |
| 18 | 11 49-5 | 11 51-4 | 11 17-2 | 1-8 | 1-4 | 7-8 | 6-2 | 13-8 | 10-9 | | |
| 19 | 11 49-8 | 11 51-7 | 11 17-4 | 1-9 | 1-5 | 7-9 | 6-3 | 13-9 | 11-0 | | |
| 20 | 11 50-0 | 11 51-9 | 11 17-7 | 2-0 | 1-6 | 8-0 | 6-3 | 14-0 | 11-1 | | |
| 21 | 11 50-3 | 11 52-2 | 11 17-9 | 2-1 | 1-7 | 8-1 | 6-4 | 14-1 | 11-2 | | |
| 22 | 11 50-5 | 11 52-4 | 11 18-1 | 2-2 | 1-7 | 8-2 | 6-5 | 14-2 | 11-2 | | |
| 23 | 11 50-8 | 11 52-7 | 11 18-4 | 2-3 | 1-8 | 8-3 | 6-6 | 14-3 | 11-3 | | |
| 24 | 11 51-0 | 11 52-9 | 11 18-6 | 2-4 | 1-9 | 8-4 | 6-7 | 14-4 | 11-4 | | |
| 25 | 11 51-3 | 11 53-2 | 11 18-8 | 2-5 | 2-0 | 8-5 | 6-7 | 14-5 | 11-5 | | |
| 26 | 11 51-5 | 11 53-4 | 11 19-1 | 2-6 | 2-1 | 8-6 | 6-8 | 14-6 | 11-6 | | |
| 27 | 11 51-8 | 11 53-7 | 11 19-3 | 2-7 | 2-1 | 8-7 | 6-9 | 14-7 | 11-6 | | |
| 28 | 11 52-0 | 11 53-9 | 11 19-6 | 2-8 | 2-2 | 8-8 | 7-0 | 14-8 | 11-7 | | |
| 29 | 11 52-3 | 11 54-2 | 11 19-8 | 2-9 | 2-3 | 8-9 | 7-0 | 14-9 | 11-8 | | |
| 30 | 11 52-5 | 11 54-5 | 11 20-0 | 3-0 | 2-4 | 9-0 | 7-1 | 15-0 | 11-9 | | |
| 31 | 11 52-8 | 11 54-7 | 11 20-3 | 3-1 | 2-5 | 9-1 | 7-2 | 15-1 | 12-0 | | |
| 32 | 11 53-0 | 11 55-0 | 11 20-5 | 3-2 | 2-5 | 9-2 | 7-3 | 15-2 | 12-0 | | |
| 33 | 11 53-3 | 11 55-2 | 11 20-8 | 3-3 | 2-6 | 9-3 | 7-4 | 15-3 | 12-1 | | |
| 34 | 11 53-5 | 11 55-5 | 11 21-0 | 3-4 | 2-7 | 9-4 | 7-4 | 15-4 | 12-2 | | |
| 35 | 11 53-8 | 11 55-7 | 11 21-2 | 3-5 | 2-8 | 9-5 | 7-5 | 15-5 | 12-3 | | |
| 36 | 11 54-0 | 11 56-0 | 11 21-5 | 3-6 | 2-9 | 9-6 | 7-6 | 15-6 | 12-4 | | |
| 37 | 11 54-3 | 11 56-2 | 11 21-7 | 3-7 | 2-9 | 9-7 | 7-7 | 15-7 | 12-4 | | |
| 38 | 11 54-5 | 11 56-5 | 11 22-0 | 3-8 | 3-0 | 9-8 | 7-8 | 15-8 | 12-5 | | |
| 39 | 11 54-8 | 11 56-7 | 11 22-2 | 3-9 | 3-1 | 9-9 | 7-8 | 15-9 | 12-6 | | |
| 40 | 11 55-0 | 11 57-0 | 11 22-4 | 4-0 | 3-2 | 10-0 | 7-9 | 16-0 | 12-7 | | |
| 41 | 11 55-3 | 11 57-2 | 11 22-7 | 4-1 | 3-2 | 10-1 | 8-0 | 16-1 | 12-7 | | |
| 42 | 11 55-5 | 11 57-5 | 11 22-9 | 4-2 | 3-3 | 10-2 | 8-1 | 16-2 | 12-8 | | |
| 43 | 11 55-8 | 11 57-7 | 11 23-1 | 4-3 | 3-4 | 10-3 | 8-2 | 16-3 | 12-9 | | |
| 44 | 11 56-0 | 11 58-0 | 11 23-4 | 4-4 | 3-5 | 10-4 | 8-2 | 16-4 | 13-0 | | |
| 45 | 11 56-3 | 11 58-2 | 11 23-6 | 4-5 | 3-6 | 10-5 | 8-3 | 16-5 | 13-1 | | |
| 46 | 11 56-5 | 11 58-5 | 11 23-9 | 4-6 | 3-6 | 10-6 | 8-4 | 16-6 | 13-1 | | |
| 47 | 11 56-8 | 11 58-7 | 11 24-1 | 4-7 | 3-7 | 10-7 | 8-5 | 16-7 | 13-2 | | |
| 48 | 11 57-0 | 11 59-0 | 11 24-3 | 4-8 | 3-8 | 10-8 | 8-6 | 16-8 | 13-3 | | |
| 49 | 11 57-3 | 11 59-2 | 11 24-6 | 4-9 | 3-9 | 10-9 | 8-6 | 16-9</ | | | |

| 56 ^m | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ | 57 ^m | SOL PLANETAS | ARIES | LUNA | v o d | Corr ⁿ | v o d | Corr ⁿ | v o d | Corr ⁿ |
|-----------------|-----------------|---------|---------|-------------|-------------------|-------------|-------------------|-------------|-------------------|-----------------|-----------------|---------|---------|-------------|-------------------|-------------|-------------------|-------------|-------------------|
| 00 | 14 00-0 | 14 02-3 | 13 21-7 | 0-0 | 0-0 | 6-0 | 5-7 | 12-0 | 11-3 | 00 | 14 15-0 | 14 17-3 | 13 36-1 | 0-0 | 0-0 | 6-0 | 5-8 | 12-0 | 11-5 |
| 01 | 14 00-3 | 14 02-6 | 13 22-0 | 0-1 | 0-1 | 6-1 | 5-7 | 12-1 | 11-4 | 01 | 14 15-3 | 14 17-6 | 13 36-3 | 0-1 | 0-1 | 6-1 | 5-8 | 12-1 | 11-6 |
| 02 | 14 00-5 | 14 02-8 | 13 22-2 | 0-2 | 0-2 | 6-2 | 5-8 | 12-2 | 11-5 | 02 | 14 15-5 | 14 17-8 | 13 36-5 | 0-2 | 0-2 | 6-2 | 5-9 | 12-2 | 11-7 |
| 03 | 14 00-8 | 14 03-1 | 13 22-4 | 0-3 | 0-3 | 6-3 | 5-9 | 12-3 | 11-6 | 03 | 14 15-8 | 14 18-1 | 13 36-8 | 0-3 | 0-3 | 6-3 | 6-0 | 12-3 | 11-8 |
| 04 | 14 01-0 | 14 03-3 | 13 22-7 | 0-4 | 0-4 | 6-4 | 6-0 | 12-4 | 11-7 | 04 | 14 16-0 | 14 18-3 | 13 37-0 | 0-4 | 0-4 | 6-4 | 6-1 | 12-4 | 11-9 |
| 05 | 14 01-3 | 14 03-6 | 13 22-9 | 0-5 | 0-5 | 6-5 | 6-1 | 12-5 | 11-8 | 05 | 14 16-3 | 14 18-6 | 13 37-2 | 0-5 | 0-5 | 6-5 | 6-2 | 12-5 | 12-0 |
| 06 | 14 01-5 | 14 03-8 | 13 23-2 | 0-6 | 0-6 | 6-6 | 6-2 | 12-6 | 11-9 | 06 | 14 16-5 | 14 18-8 | 13 37-5 | 0-6 | 0-6 | 6-6 | 6-3 | 12-6 | 12-1 |
| 07 | 14 01-8 | 14 04-1 | 13 23-4 | 0-7 | 0-7 | 6-7 | 6-3 | 12-7 | 12-0 | 07 | 14 16-8 | 14 19-1 | 13 37-7 | 0-7 | 0-7 | 6-7 | 6-4 | 12-7 | 12-2 |
| 08 | 14 02-0 | 14 04-3 | 13 23-6 | 0-8 | 0-8 | 6-8 | 6-4 | 12-8 | 12-1 | 08 | 14 17-0 | 14 19-3 | 13 38-0 | 0-8 | 0-8 | 6-8 | 6-5 | 12-8 | 12-3 |
| 09 | 14 02-3 | 14 04-6 | 13 23-9 | 0-9 | 0-8 | 6-9 | 6-5 | 12-9 | 12-1 | 09 | 14 17-3 | 14 19-6 | 13 38-2 | 0-9 | 0-9 | 6-9 | 6-6 | 12-9 | 12-4 |
| 10 | 14 02-5 | 14 04-8 | 13 24-1 | 1-0 | 0-9 | 7-0 | 6-6 | 13-0 | 12-2 | 10 | 14 17-5 | 14 19-8 | 13 38-4 | 1-0 | 1-0 | 7-0 | 6-7 | 13-0 | 12-5 |
| 11 | 14 02-8 | 14 05-1 | 13 24-4 | 1-1 | 1-0 | 7-1 | 6-7 | 13-1 | 12-3 | 11 | 14 17-8 | 14 20-1 | 13 38-7 | 1-1 | 1-1 | 7-1 | 6-8 | 13-1 | 12-6 |
| 12 | 14 03-0 | 14 05-3 | 13 24-6 | 1-2 | 1-1 | 7-2 | 6-8 | 13-2 | 12-4 | 12 | 14 18-0 | 14 20-3 | 13 38-9 | 1-2 | 1-2 | 7-2 | 6-9 | 13-2 | 12-7 |
| 13 | 14 03-3 | 14 05-6 | 13 24-8 | 1-3 | 1-2 | 7-3 | 6-9 | 13-3 | 12-5 | 13 | 14 18-3 | 14 20-6 | 13 39-2 | 1-3 | 1-2 | 7-3 | 7-0 | 13-3 | 12-7 |
| 14 | 14 03-5 | 14 05-8 | 13 25-1 | 1-4 | 1-3 | 7-4 | 7-0 | 13-4 | 12-6 | 14 | 14 18-5 | 14 20-9 | 13 39-4 | 1-4 | 1-3 | 7-4 | 7-1 | 13-4 | 12-8 |
| 15 | 14 03-8 | 14 06-1 | 13 25-3 | 1-5 | 1-4 | 7-5 | 7-1 | 13-5 | 12-7 | 15 | 14 18-8 | 14 21-1 | 13 39-6 | 1-5 | 1-4 | 7-5 | 7-2 | 13-5 | 12-9 |
| 16 | 14 04-0 | 14 06-3 | 13 25-6 | 1-6 | 1-5 | 7-6 | 7-2 | 13-6 | 12-8 | 16 | 14 19-0 | 14 21-4 | 13 39-9 | 1-6 | 1-5 | 7-6 | 7-3 | 13-6 | 13-0 |
| 17 | 14 04-3 | 14 06-6 | 13 25-8 | 1-7 | 1-6 | 7-7 | 7-3 | 13-7 | 12-9 | 17 | 14 19-3 | 14 21-6 | 13 40-1 | 1-7 | 1-6 | 7-7 | 7-4 | 13-7 | 13-1 |
| 18 | 14 04-5 | 14 06-8 | 13 26-0 | 1-8 | 1-7 | 7-8 | 7-3 | 13-8 | 13-0 | 18 | 14 19-5 | 14 21-9 | 13 40-3 | 1-8 | 1-7 | 7-8 | 7-5 | 13-8 | 13-2 |
| 19 | 14 04-8 | 14 07-1 | 13 26-3 | 1-9 | 1-8 | 7-9 | 7-4 | 13-9 | 13-1 | 19 | 14 19-8 | 14 22-1 | 13 40-6 | 1-9 | 1-8 | 7-9 | 7-6 | 13-9 | 13-3 |
| 20 | 14 05-0 | 14 07-3 | 13 26-5 | 2-0 | 1-9 | 8-0 | 7-5 | 14-0 | 13-2 | 20 | 14 20-0 | 14 22-4 | 13 40-8 | 2-0 | 1-9 | 8-0 | 7-7 | 14-0 | 13-4 |
| 21 | 14 05-3 | 14 07-6 | 13 26-7 | 2-1 | 2-0 | 8-1 | 7-6 | 14-1 | 13-3 | 21 | 14 20-3 | 14 22-6 | 13 41-1 | 2-1 | 2-0 | 8-1 | 7-8 | 14-1 | 13-5 |
| 22 | 14 05-5 | 14 07-8 | 13 27-0 | 2-2 | 2-1 | 8-2 | 7-7 | 14-2 | 13-4 | 22 | 14 20-5 | 14 22-9 | 13 41-3 | 2-2 | 2-1 | 8-2 | 7-9 | 14-2 | 13-6 |
| 23 | 14 05-8 | 14 08-1 | 13 27-2 | 2-3 | 2-2 | 8-3 | 7-8 | 14-3 | 13-5 | 23 | 14 20-8 | 14 23-1 | 13 41-5 | 2-3 | 2-2 | 8-3 | 8-0 | 14-3 | 13-7 |
| 24 | 14 06-0 | 14 08-3 | 13 27-5 | 2-4 | 2-3 | 8-4 | 7-9 | 14-4 | 13-6 | 24 | 14 21-0 | 14 23-4 | 13 41-8 | 2-4 | 2-3 | 8-4 | 8-1 | 14-4 | 13-8 |
| 25 | 14 06-3 | 14 08-6 | 13 27-7 | 2-5 | 2-4 | 8-5 | 8-0 | 14-5 | 13-7 | 25 | 14 21-3 | 14 23-6 | 13 42-0 | 2-5 | 2-4 | 8-5 | 8-1 | 14-5 | 13-9 |
| 26 | 14 06-5 | 14 08-8 | 13 27-9 | 2-6 | 2-4 | 8-6 | 8-1 | 14-6 | 13-7 | 26 | 14 21-5 | 14 23-9 | 13 42-3 | 2-6 | 2-5 | 8-6 | 8-2 | 14-6 | 14-0 |
| 27 | 14 06-8 | 14 09-1 | 13 28-2 | 2-7 | 2-5 | 8-7 | 8-2 | 14-7 | 13-8 | 27 | 14 21-8 | 14 24-1 | 13 42-5 | 2-7 | 2-6 | 8-7 | 8-3 | 14-7 | 14-1 |
| 28 | 14 07-0 | 14 09-3 | 13 28-4 | 2-8 | 2-6 | 8-8 | 8-3 | 14-8 | 13-9 | 28 | 14 22-0 | 14 24-4 | 13 42-7 | 2-8 | 2-7 | 8-8 | 8-4 | 14-8 | 14-2 |
| 29 | 14 07-3 | 14 09-6 | 13 28-7 | 2-9 | 2-7 | 8-9 | 8-4 | 14-9 | 14-0 | 29 | 14 22-3 | 14 24-6 | 13 43-0 | 2-9 | 2-8 | 8-9 | 8-5 | 14-9 | 14-3 |
| 30 | 14 07-5 | 14 09-8 | 13 28-9 | 3-0 | 2-8 | 9-0 | 8-5 | 15-0 | 14-1 | 30 | 14 22-5 | 14 24-9 | 13 43-2 | 3-0 | 2-9 | 9-0 | 8-6 | 15-0 | 14-4 |
| 31 | 14 07-8 | 14 10-1 | 13 29-1 | 3-1 | 2-9 | 9-1 | 8-6 | 15-1 | 14-2 | 31 | 14 22-8 | 14 25-1 | 13 43-4 | 3-1 | 3-0 | 9-1 | 8-7 | 15-1 | 14-5 |
| 32 | 14 08-0 | 14 10-3 | 13 29-4 | 3-2 | 3-0 | 9-2 | 8-7 | 15-2 | 14-3 | 32 | 14 23-0 | 14 25-4 | 13 43-7 | 3-2 | 3-1 | 9-2 | 8-8 | 15-2 | 14-6 |
| 33 | 14 08-3 | 14 10-6 | 13 29-6 | 3-3 | 3-1 | 9-3 | 8-8 | 15-3 | 14-4 | 33 | 14 23-3 | 14 25-6 | 13 43-9 | 3-3 | 3-2 | 9-3 | 8-9 | 15-3 | 14-7 |
| 34 | 14 08-5 | 14 10-8 | 13 29-8 | 3-4 | 3-2 | 9-4 | 8-9 | 15-4 | 14-5 | 34 | 14 23-5 | 14 25-9 | 13 44-2 | 3-4 | 3-3 | 9-4 | 9-0 | 15-4 | 14-8 |
| 35 | 14 08-8 | 14 11-1 | 13 30-1 | 3-5 | 3-3 | 9-5 | 8-9 | 15-5 | 14-6 | 35 | 14 23-8 | 14 26-1 | 13 44-4 | 3-5 | 3-4 | 9-5 | 9-1 | 15-5 | 14-9 |
| 36 | 14 09-0 | 14 11-3 | 13 30-3 | 3-6 | 3-4 | 9-6 | 9-0 | 15-6 | 14-7 | 36 | 14 24-0 | 14 26-4 | 13 44-6 | 3-6 | 3-5 | 9-6 | 9-2 | 15-6 | 15-0 |
| 37 | 14 09-3 | 14 11-6 | 13 30-6 | 3-7 | 3-5 | 9-7 | 9-1 | 15-7 | 14-8 | 37 | 14 24-3 | 14 26-6 | 13 44-9 | 3-7 | 3-5 | 9-7 | 9-3 | 15-7 | 15-0 |
| 38 | 14 09-5 | 14 11-8 | 13 30-8 | 3-8 | 3-6 | 9-8 | 9-2 | 15-8 | 14-9 | 38 | 14 24-5 | 14 26-9 | 13 45-1 | 3-8 | 3-6 | 9-8 | 9-4 | 15-8 | 15-1 |
| 39 | 14 09-8 | 14 12-1 | 13 31-0 | 3-9 | 3-7 | 9-9 | 9-3 | 15-9 | 15-0 | 39 | 14 24-8 | 14 27-1 | 13 45-4 | 3-9 | 3-7 | 9-9 | 9-5 | 15-9 | 15-2 |
| 40 | 14 10-0 | 14 12-3 | 13 31-3 | 4-0 | 3-8 | 10-0 | 9-4 | 16-0 | 15-1 | 40 | 14 25-0 | 14 27-4 | 13 45-6 | 4-0 | 3-8 | 10-0 | 9-6 | 16-0 | 15-3 |
| 41 | 14 10-3 | 14 12-6 | 13 31-5 | 4-1 | 3-9 | 10-1 | 9-5 | 16-1 | 15-2 | 41 | 14 25-3 | 14 27-6 | 13 45-8 | 4-1 | 3-9 | 10-1 | 9-7 | 16-1 | 15-4 |
| 42 | 14 10-5 | 14 12-8 | 13 31-8 | 4-2 | 4-0 | 10-2 | 9-6 | 16-2 | 15-3 | 42 | 14 25-5 | 14 27-9 | 13 46-1 | 4-2 | 4-0 | 10-2 | 9-8 | 16-2 | 15-5 |
| 43 | 14 10-8 | 14 13-1 | 13 32-0 | 4-3 | 4-0 | 10-3 | 9-7 | 16-3 | 15-3 | 43 | 14 25-8 | 14 28-1 | 13 46-3 | 4-3 | 4-1 | 10-3 | 9-9 | 16-3 | 15-6 |
| 44 | 14 11-0 | 14 13-3 | 13 32-2 | 4-4 | 4-1 | 10-4 | 9-8 | 16-4 | 15-4 | 44 | 14 26-0 | 14 28-4 | 13 46-5 | 4-4 | 4-2 | 10-4 | 10-0 | 16-4 | 15-7 |
| 45 | 14 11-3 | 14 13-6 | 13 32-5 | 4-5 | 4-2 | 10-5 | 9-9 | 16-5 | 15-5 | 45 | 14 26-3 | 14 28-6 | 13 46-8 | 4-5 | 4-3 | 10-5 | 10-1 | 16-5 | 15-8 |
| 46 | 14 11-5 | 14 13-8 | 13 32-7 | 4-6 | 4-3 | 10-6 | 10-0 | 16-6 | 15-6 | 46 | 14 26-5 | 14 28-9 | 13 47-0 | 4-6 | 4-4 | 10-6 | 10-2 | 16-6 | 15-9 |
| 47 | 14 11-8 | 14 14-1 | 13 32-9 | 4-7 | 4-4 | 10-7 | 10-1 | 16-7 | 15-7 | 47 | 14 26-8 | 14 29-1 | 13 47-3 | 4-7 | 4-5 | 10-7 | 10-3 | 16-7 | 16-0 |
| 48 | 14 12-0 | 14 14-3 | 13 33-2 | 4-8 | 4-5 | 10-8 | 10-2 | 16-8 | 15-8 | 48 | 14 27-0 | 14 29-4 | 13 47-5 | 4-8 | 4-6 | 10-8 | 10-4 | 16-8 | 16-1 |
| 49 | 14 12-3 | 14 14-6 | 13 33-4 | 4-9 | 4-6 | 10-9 | 10-3 | 16-9 | 15-9 | 49 | 14 27-3 | 14 29-6 | 13 47-7 | 4-9 | 4-7 | 10-9 | 10-4 | 16-9 | 16-2 |
| 50 | 14 12-5 | 14 14-8 | 13 33-7 | 5-0 | 4-7 | 11-0 | 10-4 | 17-0 | 16-0 | 50 | 14 27-5 | 14 29-9 | 13 48-0 | 5-0 | 4-8 | 11-0 | 10-5 | 17-0 | 16-3 |
| 51 | 14 12-8 | 14 15-1 | 13 33-9 | 5-1 | 4-8 | 11-1 | 10-5 | 17-1 | 16-1 | 51 | 14 27-8 | 14 30-1 | 13 48-2 | 5-1 | 4-9 | 11-1 | 10-6 | 17-1 | 16-4 |
| 52 | 14 13-0 | 14 15-3 | 13 34-1 | 5-2 | 4-9 | 11-2 | 10-5 | 17-2 | 16-2 | 52 | 14 28-0 | 14 30-4 | 13 48-5 | 5-2 | 5-0 | 11-2 | 10-7 | 17-2 | 16-5 |
| 53 | 14 13-3 | 14 15-6 | 13 34-4 | 5-3 | 5-0 | 11-3 | 10-6 | 17-3 | 16-3 | 53 | 14 28-3 | 14 30-6 | 13 48-7 | 5-3 | 5-1 | 11-3 | 10-8 | 17-3 | 16-6 |
| 54 | 14 13-5 | 14 15-8 | 13 34-6 | 5-4 | 5-1 | 11-4 | 10-7 | 17-4 | 16-4 | 54 | 14 28-5 | 14 30-9 | 13 48-9 | 5-4 | 5-2 | 11-4 | 10-9 | 17-4 | 16-7 |
| 55 | 14 13-8 | 14 16-1 | 13 34-9 | 5-5 | 5-2 | 11-5 | 10-8 | 17-5 | 16-5 | 55 | 14 28-8 | 14 31-1 | 13 49-2 | 5-5 | 5-3 | 11-5 | 11-0 | 17-5 | 16-8 |
| 56 | 14 14-0 | 14 16-3 | 13 35-1 | 5-6 | 5-3 | 11-6 | 10-9 | 17-6 | 16-6 | 56 | 14 29-0 | 14 31-4 | 13 49-4 | 5-6 | 5-4 | 11-6 | 11-1 | 17-6 | 16-9 |
| 57 | 14 14-3 | 14 16-6 | 13 35-3 | 5-7 | 5-4 | 11-7 | 11-0 | 17-7 | 16-7 | 57 | 14 29-3 | 14 31-6 | 13 49-7 | 5-7 | 5-5 | 11-7 | 11-2 | 17-7 | 17-0 |
| 58 | 14 14-5 | 14 16-8 | 13 35-6 | 5-8 | 5-5 | 11-8 | 11-1 | 17-8 | 16-8 | 58 | 14 29-5 | 14 31-9 | 13 49-9 | 5-8 | 5-6 | 11-8 | 11-3 | 17-8 | 17-1 |
| 59 | 14 14-8 | 14 17-1 | 13 35-8 | 5-9 | 5-6 | 11-9 | 11-2 | 17-9 | 16-9 | 59 | 14 29-8 | 14 32-1 | 13 50-1 | 5-9 | 5-7 | 11-9 | 11-4 | 17-9 | 17-2 |
| 60 | 14 15-0 | 14 17-3 | 13 36-1 | 6-0 | 5-7 | 12-0 | 11-3 | 18-0 | 17-0 | 60 | 14 30-0 | 14 32-4 | 13 50-4 | 6-0 | 5-8 | 12-0 | 11-5 | 18-0 | 17-3 |

| 58 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | | |
|-----------------|--------------|---------|---------|------|----------------------------------|------|----------------------------------|-------|----------------------------------|----|---|
| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 14 30-0 | 14 32-4 | 13 50-4 | 0-0 | 0-0 | 6-0 | 5-9 | 12-3 | 11-7 | | |
| 01 | 14 30-3 | 14 32-6 | 13 50-6 | 0-1 | 0-1 | 6-1 | 5-9 | 12-4 | 11-8 | | |
| 02 | 14 30-5 | 14 32-9 | 13 50-8 | 0-2 | 0-2 | 6-2 | 6-0 | 12-5 | 11-9 | | |
| 03 | 14 30-8 | 14 33-1 | 13 51-1 | 0-3 | 0-3 | 6-3 | 6-1 | 12-6 | 12-0 | | |
| 04 | 14 31-0 | 14 33-4 | 13 51-3 | 0-4 | 0-4 | 6-4 | 6-2 | 12-7 | 12-1 | | |
| 05 | 14 31-3 | 14 33-6 | 13 51-6 | 0-5 | 0-5 | 6-5 | 6-3 | 12-8 | 12-2 | | |
| 06 | 14 31-5 | 14 33-9 | 13 51-8 | 0-6 | 0-6 | 6-6 | 6-4 | 12-9 | 12-3 | | |
| 07 | 14 31-8 | 14 34-1 | 13 52-0 | 0-7 | 0-7 | 6-7 | 6-5 | 12-10 | 12-4 | | |
| 08 | 14 32-0 | 14 34-4 | 13 52-3 | 0-8 | 0-8 | 6-8 | 6-6 | 12-11 | 12-5 | | |
| 09 | 14 32-3 | 14 34-6 | 13 52-5 | 0-9 | 0-9 | 6-9 | 6-7 | 12-12 | 12-6 | | |
| 10 | 14 32-5 | 14 34-9 | 13 52-8 | 1-0 | 1-0 | 7-0 | 6-8 | 13-0 | 12-7 | | |
| 11 | 14 32-8 | 14 35-1 | 13 53-0 | 1-1 | 1-1 | 7-1 | 6-9 | 13-1 | 12-8 | | |
| 12 | 14 33-0 | 14 35-4 | 13 53-2 | 1-2 | 1-2 | 7-2 | 7-0 | 13-2 | 12-9 | | |
| 13 | 14 33-3 | 14 35-6 | 13 53-5 | 1-3 | 1-3 | 7-3 | 7-1 | 13-3 | 13-0 | | |
| 14 | 14 33-5 | 14 35-9 | 13 53-7 | 1-4 | 1-4 | 7-4 | 7-2 | 13-4 | 13-1 | | |
| 15 | 14 33-8 | 14 36-1 | 13 53-9 | 1-5 | 1-5 | 7-5 | 7-3 | 13-5 | 13-2 | | |
| 16 | 14 34-0 | 14 36-4 | 13 54-2 | 1-6 | 1-6 | 7-6 | 7-4 | 13-6 | 13-3 | | |
| 17 | 14 34-3 | 14 36-6 | 13 54-4 | 1-7 | 1-7 | 7-7 | 7-5 | 13-7 | 13-4 | | |
| 18 | 14 34-5 | 14 36-9 | 13 54-7 | 1-8 | 1-8 | 7-8 | 7-6 | 13-8 | 13-5 | | |
| 19 | 14 34-8 | 14 37-1 | 13 54-9 | 1-9 | 1-9 | 7-9 | 7-7 | 13-9 | 13-6 | | |
| 20 | 14 35-0 | 14 37-4 | 13 55-1 | 2-0 | 2-0 | 8-0 | 7-8 | 14-0 | 13-7 | | |
| 21 | 14 35-3 | 14 37-6 | 13 55-4 | 2-1 | 2-0 | 8-1 | 7-9 | 14-1 | 13-7 | | |
| 22 | 14 35-5 | 14 37-9 | 13 55-6 | 2-2 | 2-1 | 8-2 | 8-0 | 14-2 | 13-8 | | |
| 23 | 14 35-8 | 14 38-1 | 13 55-9 | 2-3 | 2-2 | 8-3 | 8-1 | 14-3 | 13-9 | | |
| 24 | 14 36-0 | 14 38-4 | 13 56-1 | 2-4 | 2-3 | 8-4 | 8-2 | 14-4 | 14-0 | | |
| 25 | 14 36-3 | 14 38-6 | 13 56-3 | 2-5 | 2-4 | 8-5 | 8-3 | 14-5 | 14-1 | | |
| 26 | 14 36-5 | 14 38-9 | 13 56-6 | 2-6 | 2-5 | 8-6 | 8-4 | 14-6 | 14-2 | | |
| 27 | 14 36-8 | 14 39-2 | 13 56-8 | 2-7 | 2-6 | 8-7 | 8-5 | 14-7 | 14-3 | | |
| 28 | 14 37-0 | 14 39-4 | 13 57-0 | 2-8 | 2-7 | 8-8 | 8-6 | 14-8 | 14-4 | | |
| 29 | 14 37-3 | 14 39-7 | 13 57-3 | 2-9 | 2-8 | 8-9 | 8-7 | 14-9 | 14-5 | | |
| 30 | 14 37-5 | 14 39-9 | 13 57-5 | 3-0 | 2-9 | 9-0 | 8-8 | 15-0 | 14-6 | | |
| 31 | 14 37-8 | 14 40-2 | 13 57-8 | 3-1 | 3-0 | 9-1 | 8-9 | 15-1 | 14-7 | | |
| 32 | 14 38-0 | 14 40-4 | 13 58-0 | 3-2 | 3-1 | 9-2 | 9-0 | 15-2 | 14-8 | | |
| 33 | 14 38-3 | 14 40-7 | 13 58-2 | 3-3 | 3-2 | 9-3 | 9-1 | 15-3 | 14-9 | | |
| 34 | 14 38-5 | 14 40-9 | 13 58-5 | 3-4 | 3-3 | 9-4 | 9-2 | 15-4 | 15-0 | | |
| 35 | 14 38-8 | 14 41-2 | 13 58-7 | 3-5 | 3-4 | 9-5 | 9-3 | 15-5 | 15-1 | | |
| 36 | 14 39-0 | 14 41-4 | 13 59-0 | 3-6 | 3-5 | 9-6 | 9-4 | 15-6 | 15-2 | | |
| 37 | 14 39-3 | 14 41-7 | 13 59-2 | 3-7 | 3-6 | 9-7 | 9-5 | 15-7 | 15-3 | | |
| 38 | 14 39-5 | 14 41-9 | 13 59-4 | 3-8 | 3-7 | 9-8 | 9-6 | 15-8 | 15-4 | | |
| 39 | 14 39-8 | 14 42-2 | 13 59-7 | 3-9 | 3-8 | 9-9 | 9-7 | 15-9 | 15-5 | | |
| 40 | 14 40-0 | 14 42-4 | 13 59-9 | 4-0 | 3-9 | 10-0 | 9-8 | 16-0 | 15-6 | | |
| 41 | 14 40-3 | 14 42-7 | 14 00-1 | 4-1 | 4-0 | 10-1 | 9-8 | 16-1 | 15-7 | | |
| 42 | 14 40-5 | 14 42-9 | 14 00-4 | 4-2 | 4-1 | 10-2 | 9-9 | 16-2 | 15-8 | | |
| 43 | 14 40-8 | 14 43-2 | 14 00-6 | 4-3 | 4-2 | 10-3 | 10-0 | 16-3 | 15-9 | | |
| 44 | 14 41-0 | 14 43-4 | 14 00-9 | 4-4 | 4-3 | 10-4 | 10-1 | 16-4 | 16-0 | | |
| 45 | 14 41-3 | 14 43-7 | 14 01-1 | 4-5 | 4-4 | 10-5 | 10-2 | 16-5 | 16-1 | | |
| 46 | 14 41-5 | 14 43-9 | 14 01-3 | 4-6 | 4-5 | 10-6 | 10-3 | 16-6 | 16-2 | | |
| 47 | 14 41-8 | 14 44-2 | 14 01-6 | 4-7 | 4-6 | 10-7 | 10-4 | 16-7 | 16-3 | | |
| 48 | 14 42-0 | 14 44-4 | 14 01-8 | 4-8 | 4-7 | 10-8 | 10-5 | 16-8 | 16-4 | | |
| 49 | 14 42-3 | 14 44-7 | 14 02-1 | 4-9 | 4-8 | 10-9 | 10-6 | 16-9 | 16-5 | | |
| 50 | 14 42-5 | 14 44-9 | 14 02-3 | 5-0 | 4-9 | 11-0 | 10-7 | 17-0 | 16-6 | | |
| 51 | 14 42-8 | 14 45-2 | 14 02-5 | 5-1 | 5-0 | 11-1 | 10-8 | 17-1 | 16-7 | | |
| 52 | 14 43-0 | 14 45-4 | 14 02-8 | 5-2 | 5-1 | 11-2 | 10-9 | 17-2 | 16-8 | | |
| 53 | 14 43-3 | 14 45-7 | 14 03-0 | 5-3 | 5-2 | 11-3 | 11-0 | 17-3 | 16-9 | | |
| 54 | 14 43-5 | 14 45-9 | 14 03-3 | 5-4 | 5-3 | 11-4 | 11-1 | 17-4 | 17-0 | | |
| 55 | 14 43-8 | 14 46-2 | 14 03-5 | 5-5 | 5-4 | 11-5 | 11-2 | 17-5 | 17-1 | | |
| 56 | 14 44-0 | 14 46-4 | 14 03-7 | 5-6 | 5-5 | 11-6 | 11-3 | 17-6 | 17-2 | | |
| 57 | 14 44-3 | 14 46-7 | 14 04-0 | 5-7 | 5-6 | 11-7 | 11-4 | 17-7 | 17-3 | | |
| 58 | 14 44-5 | 14 46-9 | 14 04-2 | 5-8 | 5-7 | 11-8 | 11-5 | 17-8 | 17-4 | | |
| 59 | 14 44-8 | 14 47-2 | 14 04-4 | 5-9 | 5-8 | 11-9 | 11-6 | 17-9 | 17-5 | | |
| 60 | 14 45-0 | 14 47-4 | 14 04-7 | 6-0 | 5-9 | 12-0 | 11-7 | 18-0 | 17-6 | | |

| 59 ^m | SOL PLANETAS | | ARIES | LUNA | v _o Corr ⁿ | | v _o Corr ⁿ | | v _o Corr ⁿ | | |
|-----------------|--------------|---------|---------|------|----------------------------------|------|----------------------------------|------|----------------------------------|----|---|
| | s | o / | | | ' | '' | ' | '' | ' | '' | ' |
| 00 | 14 45-0 | 14 47-4 | 14 04-7 | 0-0 | 0-0 | 6-0 | 6-0 | 12-0 | 11-9 | | |
| 01 | 14 45-3 | 14 47-7 | 14 04-9 | 0-1 | 0-1 | 6-1 | 6-0 | 12-1 | 12-0 | | |
| 02 | 14 45-5 | 14 47-9 | 14 05-2 | 0-2 | 0-2 | 6-2 | 6-1 | 12-2 | 12-1 | | |
| 03 | 14 45-8 | 14 48-2 | 14 05-4 | 0-3 | 0-3 | 6-3 | 6-2 | 12-3 | 12-2 | | |
| 04 | 14 46-0 | 14 48-4 | 14 05-6 | 0-4 | 0-4 | 6-4 | 6-3 | 12-4 | 12-3 | | |
| 05 | 14 46-3 | 14 48-7 | 14 05-9 | 0-5 | 0-5 | 6-5 | 6-4 | 12-5 | 12-4 | | |
| 06 | 14 46-5 | 14 48-9 | 14 06-1 | 0-6 | 0-6 | 6-6 | 6-5 | 12-6 | 12-5 | | |
| 07 | 14 46-8 | 14 49-2 | 14 06-4 | 0-7 | 0-7 | 6-7 | 6-6 | 12-7 | 12-6 | | |
| 08 | 14 47-0 | 14 49-4 | 14 06-6 | 0-8 | 0-8 | 6-8 | 6-7 | 12-8 | 12-7 | | |
| 09 | 14 47-3 | 14 49-7 | 14 06-8 | 0-9 | 0-9 | 6-9 | 6-8 | 12-9 | 12-8 | | |
| 10 | 14 47-5 | 14 49-9 | 14 07-1 | 1-0 | 1-0 | 7-0 | 6-9 | 13-0 | 12-9 | | |
| 11 | 14 47-8 | 14 50-2 | 14 07-3 | 1-1 | 1-1 | 7-1 | 7-0 | 13-1 | 13-0 | | |
| 12 | 14 48-0 | 14 50-4 | 14 07-5 | 1-2 | 1-2 | 7-2 | 7-1 | 13-2 | 13-1 | | |
| 13 | 14 48-3 | 14 50-7 | 14 07-8 | 1-3 | 1-3 | 7-3 | 7-2 | 13-3 | 13-2 | | |
| 14 | 14 48-5 | 14 50-9 | 14 08-0 | 1-4 | 1-4 | 7-4 | 7-3 | 13-4 | 13-3 | | |
| 15 | 14 48-8 | 14 51-2 | 14 08-3 | 1-5 | 1-5 | 7-5 | 7-4 | 13-5 | 13-4 | | |
| 16 | 14 49-0 | 14 51-4 | 14 08-5 | 1-6 | 1-6 | 7-6 | 7-5 | 13-6 | 13-5 | | |
| 17 | 14 49-3 | 14 51-7 | 14 08-7 | 1-7 | 1-7 | 7-7 | 7-6 | 13-7 | 13-6 | | |
| 18 | 14 49-5 | 14 51-9 | 14 09-0 | 1-8 | 1-8 | 7-8 | 7-7 | 13-8 | 13-7 | | |
| 19 | 14 49-8 | 14 52-2 | 14 09-2 | 1-9 | 1-9 | 7-9 | 7-8 | 13-9 | 13-8 | | |
| 20 | 14 50-0 | 14 52-4 | 14 09-5 | 2-0 | 2-0 | 8-0 | 7-9 | 14-0 | 13-9 | | |
| 21 | 14 50-3 | 14 52-7 | 14 09-7 | 2-1 | 2-1 | 8-1 | 8-0 | 14-1 | 14-0 | | |
| 22 | 14 50-5 | 14 52-9 | 14 09-9 | 2-2 | 2-2 | 8-2 | 8-1 | 14-2 | 14-1 | | |
| 23 | 14 50-8 | 14 53-2 | 14 10-2 | 2-3 | 2-3 | 8-3 | 8-2 | 14-3 | 14-2 | | |
| 24 | 14 51-0 | 14 53-4 | 14 10-4 | 2-4 | 2-4 | 8-4 | 8-3 | 14-4 | 14-3 | | |
| 25 | 14 51-3 | 14 53-7 | 14 10-6 | 2-5 | 2-5 | 8-5 | 8-4 | 14-5 | 14-4 | | |
| 26 | 14 51-5 | 14 53-9 | 14 10-9 | 2-6 | 2-6 | 8-6 | 8-5 | 14-6 | 14-5 | | |
| 27 | 14 51-8 | 14 54-2 | 14 11-1 | 2-7 | 2-7 | 8-7 | 8-6 | 14-7 | 14-6 | | |
| 28 | 14 52-0 | 14 54-4 | 14 11-4 | 2-8 | 2-8 | 8-8 | 8-7 | 14-8 | 14-7 | | |
| 29 | 14 52-3 | 14 54-7 | 14 11-6 | 2-9 | 2-9 | 8-9 | 8-8 | 14-9 | 14-8 | | |
| 30 | 14 52-5 | 14 54-9 | 14 11-8 | 3-0 | 3-0 | 9-0 | 8-9 | 15-0 | 14-9 | | |
| 31 | 14 52-8 | 14 55-2 | 14 12-1 | 3-1 | 3-1 | 9-1 | 9-0 | 15-1 | 15-0 | | |
| 32 | 14 53-0 | 14 55-4 | 14 12-3 | 3-2 | 3-2 | 9-2 | 9-1 | 15-2 | 15-1 | | |
| 33 | 14 53-3 | 14 55-7 | 14 12-6 | 3-3 | 3-3 | 9-3 | 9-2 | 15-3 | 15-2 | | |
| 34 | 14 53-5 | 14 55-9 | 14 12-8 | 3-4 | 3-4 | 9-4 | 9-3 | 15-4 | 15-3 | | |
| 35 | 14 53-8 | 14 56-2 | 14 13-0 | 3-5 | 3-5 | 9-5 | 9-4 | 15-5 | 15-4 | | |
| 36 | 14 54-0 | 14 56-4 | 14 13-3 | 3-6 | 3-6 | 9-6 | 9-5 | 15-6 | 15-5 | | |
| 37 | 14 54-3 | 14 56-7 | 14 13-5 | 3-7 | 3-7 | 9-7 | 9-6 | 15-7 | 15-6 | | |
| 38 | 14 54-5 | 14 56-9 | 14 13-8 | 3-8 | 3-8 | 9-8 | 9-7 | 15-8 | 15-7 | | |
| 39 | 14 54-8 | 14 57-2 | 14 14-0 | 3-9 | 3-9 | 9-9 | 9-8 | 15-9 | 15-8 | | |
| 40 | 14 55-0 | 14 57-5 | 14 14-2 | 4-0 | 4-0 | 10-0 | 9-9 | 16-0 | 15-9 | | |
| 41 | 14 55-3 | 14 57-7 | 14 14-5 | 4-1 | 4-1 | 10-1 | 10-0 | 16-1 | 16-0 | | |
| 42 | 14 55-5 | 14 58-0 | 14 14-7 | 4-2 | 4-2 | 10-2 | 10-1 | 16-2 | 16-1 | | |
| 43 | 14 55-8 | 14 58-2 | 14 14-9 | 4-3 | 4-3 | 10-3 | 10-2 | 16-3 | 16-2 | | |
| 44 | 14 56-0 | 14 58-5 | 14 15-2 | 4-4 | 4-4 | 10-4 | 10-3 | 16-4 | 16-3 | | |
| 45 | 14 56-3 | 14 58-7 | 14 15-4 | 4-5 | 4-5 | 10-5 | 10-4 | 16-5 | 16-4 | | |
| 46 | 14 56-5 | 14 59-0 | 14 15-7 | 4-6 | 4-6 | 10-6 | 10-5 | 16-6 | 16-5 | | |
| 47 | 14 56-8 | 14 59-2 | 14 15-9 | 4-7 | 4-7 | 10-7 | 10-6 | 16-7 | 16-6 | | |
| 48 | 14 57-0 | 14 59-5 | 14 16-1 | 4-8 | 4-8 | 10-8 | 10-7 | 16-8 | 16-7 | | |
| 49 | 14 57-3 | 14 59-7 | 14 16-4 | 4-9 | | | | | | | |

TABLAS PARA INTERPOLAR ORTOS DEL SOL, ORTOS DE LUNA, ETC.

TABLA I - POR LATITUD

| Intervalo Tabular | | | Diferencia entre los tiempos para latitudes consecutivas. | | | | | | | | | | | | | | | | | | | |
|-------------------|----|----|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|----|----|----|----|
| 10° | 5° | 2° | 5 ^m | 10 ^m | 15 ^m | 20 ^m | 25 ^m | 30 ^m | 35 ^m | 40 ^m | 45 ^m | 50 ^m | 55 ^m | 60 ^m | 1 ^h 05 ^m | 1 ^h 10 ^m | 1 ^h 15 ^m | 1 ^h 20 ^m | | | | |
| ° | ' | '' | m | m | m | m | m | m | m | m | m | m | m | m | h | m | h | m | h | m | | |
| 0 | 30 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 02 | 0 | 02 | 0 | 02 | 0 | 02 |
| 1 | 00 | 0 | 1 | 1 | 2 | 2 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 5 | 05 | 05 | 05 | 05 | 05 | 05 | 05 | 05 |
| 1 | 30 | 0 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 5 | 6 | 6 | 7 | 7 | 07 | 07 | 07 | 07 | 07 | 07 | 07 | 07 |
| 2 | 00 | 1 | 2 | 3 | 4 | 5 | 5 | 6 | 7 | 7 | 8 | 8 | 9 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 2 | 30 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 9 | 10 | 10 | 11 | 12 | 12 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 3 | 00 | 1 | 3 | 4 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 14 | 0 | 15 | 0 | 15 | 0 | 16 | 0 | 16 |
| 3 | 30 | 1 | 3 | 5 | 7 | 8 | 10 | 11 | 12 | 13 | 14 | 16 | 17 | 17 | 18 | 18 | 19 | 19 | 19 | 19 | 19 | 19 |
| 4 | 00 | 2 | 4 | 6 | 8 | 9 | 11 | 13 | 14 | 15 | 16 | 18 | 19 | 19 | 20 | 21 | 22 | 22 | 22 | 22 | 22 | 22 |
| 4 | 30 | 2 | 4 | 7 | 9 | 11 | 13 | 15 | 16 | 18 | 19 | 21 | 22 | 22 | 23 | 24 | 25 | 25 | 25 | 25 | 25 | 25 |
| 5 | 00 | 2 | 5 | 7 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 23 | 25 | 25 | 26 | 27 | 28 | 28 | 28 | 28 | 28 | 28 |
| 5 | 30 | 2 | 5 | 8 | 11 | 13 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 28 | 0 | 29 | 0 | 30 | 0 | 31 | 0 | 32 |
| 6 | 00 | 3 | 6 | 9 | 12 | 14 | 17 | 20 | 22 | 24 | 26 | 29 | 31 | 31 | 32 | 33 | 34 | 34 | 34 | 34 | 34 | 34 |
| 6 | 30 | 3 | 6 | 10 | 13 | 16 | 19 | 22 | 24 | 26 | 29 | 31 | 34 | 34 | 36 | 37 | 38 | 38 | 38 | 38 | 38 | 38 |
| 7 | 00 | 3 | 7 | 10 | 14 | 17 | 20 | 23 | 26 | 29 | 31 | 34 | 37 | 37 | 39 | 41 | 42 | 42 | 42 | 42 | 42 | 42 |
| 7 | 30 | 3 | 7 | 11 | 15 | 18 | 22 | 25 | 28 | 31 | 34 | 37 | 40 | 40 | 43 | 44 | 46 | 46 | 46 | 46 | 46 | 46 |
| 8 | 00 | 4 | 8 | 12 | 16 | 20 | 23 | 27 | 30 | 34 | 37 | 41 | 44 | 44 | 0 | 47 | 0 | 48 | 0 | 51 | 0 | 53 |
| 8 | 30 | 4 | 8 | 13 | 17 | 21 | 25 | 29 | 33 | 36 | 40 | 44 | 48 | 48 | 0 | 51 | 0 | 53 | 0 | 56 | 0 | 58 |
| 9 | 00 | 4 | 9 | 13 | 18 | 22 | 27 | 31 | 35 | 39 | 43 | 47 | 52 | 52 | 0 | 55 | 0 | 58 | 0 | 01 | 0 | 04 |
| 9 | 30 | 4 | 9 | 14 | 19 | 24 | 28 | 33 | 38 | 42 | 47 | 51 | 56 | 56 | 1 | 00 | 1 | 04 | 1 | 08 | 1 | 12 |
| 10 | 00 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 55 | 60 | 60 | 1 | 05 | 1 | 10 | 1 | 15 | 1 | 20 |

La tabla I se usa para interpolar el T.M.L. del orto del Sol, crepúsculo, orto de la Luna, etc. por latitud. Debe entrarse en la columna apropiada de la izquierda con la diferencia entre la latitud verdadera y la latitud tabulada más próxima que sea menor que la verdadera; y con el argumento en la parte superior que es el valor más próximo de la diferencia entre las horas para la latitud tabular y la siguiente superior; la corrección así obtenida se aplica a la hora para la latitud tabular; el signo de la corrección puede determinarse por inspección. Debe notarse que la interpolación no es lineal, de tal manera que cuando se usa la tabla es esencial tomar el fenómeno tabular para la latitud menor que la latitud verdadera.

TABLA II - POR LONGITUD

| Long. Este u Oeste | Diferencia entre las horas para la fecha dada y la fecha inmediata anterior (para longitudes este) o para la fecha dada y la inmediata posterior (para longitudes oeste) | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|-----------------|-----------------|-----------------|-----------------|-----------------|------------------|------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|----|----|----|----|----|----|----|----|
| | 10 ^m | 20 ^m | 30 ^m | 40 ^m | 50 ^m | 60 ^m | 1 ^h + | 1 ^h + | 2 ^h | 2 ^h | 2 ^h | 2 ^h | 2 ^h | 2 ^h | 3 ^h | | | | | | | | | |
| ° | m | m | m | m | m | m | m | m | m | h | m | h | m | h | m | h | m | h | m | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 00 | 0 | 00 | 0 | 00 | 0 | 00 | 0 | 00 | 0 | 00 | | | |
| 10 | 0 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 04 | 04 | 04 | 04 | 05 | 05 | 05 | 05 | 05 | 05 | | | |
| 20 | 1 | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 6 | 6 | 7 | 07 | 08 | 08 | 09 | 09 | 09 | 09 | 09 | 09 | 09 | | | |
| 30 | 1 | 2 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 12 | 13 | 14 | 14 | 14 | 14 | 14 | 14 | | | |
| 40 | 1 | 2 | 3 | 4 | 6 | 7 | 8 | 9 | 11 | 12 | 13 | 14 | 16 | 16 | 17 | 18 | 19 | 19 | 19 | 19 | 19 | | | |
| 50 | 1 | 3 | 4 | 6 | 7 | 8 | 10 | 11 | 14 | 15 | 17 | 0 | 18 | 0 | 19 | 0 | 21 | 0 | 22 | 0 | 24 | 0 | 25 | |
| 60 | 2 | 3 | 5 | 7 | 8 | 10 | 12 | 13 | 17 | 18 | 20 | 22 | 23 | 25 | 27 | 28 | 28 | 28 | 28 | 28 | 28 | 28 | | |
| 70 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 19 | 21 | 23 | 25 | 27 | 29 | 31 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | | |
| 80 | 2 | 4 | 7 | 9 | 11 | 13 | 16 | 18 | 22 | 24 | 27 | 29 | 31 | 33 | 36 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | | |
| 90 | 2 | 5 | 7 | 10 | 12 | 15 | 17 | 20 | 25 | 27 | 30 | 32 | 35 | 37 | 40 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | | |
| 100 | 3 | 6 | 8 | 11 | 14 | 17 | 19 | 22 | 28 | 31 | 33 | 0 | 36 | 0 | 39 | 0 | 42 | 0 | 44 | 0 | 47 | 0 | 50 | |
| 110 | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 31 | 34 | 37 | 40 | 43 | 46 | 49 | 0 | 52 | 0 | 52 | 0 | 55 | 0 | 55 | |
| 120 | 3 | 7 | 10 | 13 | 17 | 20 | 23 | 27 | 33 | 37 | 40 | 43 | 47 | 50 | 53 | 0 | 57 | 0 | 57 | 0 | 01 | 0 | 01 | |
| 130 | 4 | 7 | 11 | 14 | 18 | 22 | 25 | 29 | 36 | 40 | 43 | 47 | 51 | 54 | 0 | 58 | 1 | 01 | 1 | 01 | 1 | 05 | 1 | 05 |
| 140 | 4 | 8 | 12 | 16 | 19 | 23 | 27 | 31 | 39 | 43 | 47 | 51 | 54 | 0 | 58 | 1 | 02 | 1 | 06 | 1 | 06 | 1 | 10 | |
| 150 | 4 | 8 | 13 | 17 | 21 | 25 | 29 | 33 | 42 | 46 | 50 | 0 | 54 | 0 | 58 | 1 | 03 | 1 | 07 | 1 | 11 | 1 | 15 | |
| 160 | 4 | 9 | 13 | 18 | 22 | 27 | 31 | 36 | 44 | 49 | 53 | 0 | 58 | 1 | 02 | 1 | 07 | 1 | 11 | 1 | 16 | 1 | 20 | |
| 170 | 5 | 9 | 14 | 19 | 24 | 28 | 33 | 38 | 47 | 52 | 57 | 1 | 01 | 1 | 06 | 1 | 11 | 1 | 16 | 1 | 20 | 1 | 25 | |
| 180 | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 50 | 55 | 60 | 1 | 05 | 1 | 10 | 1 | 15 | 1 | 20 | 1 | 25 | 1 | 30 | |

La tabla II se usa para interpolar por longitud el T.M.L. del orto y ocaso de la Luna y el paso de la Luna por el meridiano. Se entra a la tabla con la longitud y con la diferencia entre las horas para la fecha dada y la fecha inmediata anterior (en longitudes este) o la fecha inmediata posterior (en longitudes oeste). Normalmente la corrección se suma en las longitudes oeste y se resta en las este, pero si como ocurre ocasionalmente, las horas se hacen más temprano cada día en lugar de más tarde, los signos de la corrección deben invertirse.

INDICE DE ESTRELLAS SELECCIONADAS., 1993

| Nombre | No | Mag | A.H.S | Dec |
|------------------------|----|-------|-------|------|
| <i>Acamar</i> | 7 | 3.1 | 315 | S 40 |
| <i>Achernar</i> | 5 | 0.6 | 336 | S 57 |
| <i>Acrux</i> | 30 | 1.1 | 173 | S 63 |
| <i>Adhara</i> | 19 | 1.6 | 255 | S 29 |
| <i>Aldebaran</i> | 10 | 1.1 | 291 | N 16 |
| <i>Alioth</i> | 32 | 1.7 | 167 | N 56 |
| <i>Alkaid</i> | 34 | 1.9 | 153 | N 49 |
| <i>Al Na'ir</i> | 55 | 2.2 | 28 | S 47 |
| <i>Alnilam</i> | 15 | 1.8 | 276 | S 1 |
| <i>Alphard</i> | 25 | 2.2 | 218 | S 9 |
| <i>Alphecca</i> | 41 | 2.3 | 126 | N 27 |
| <i>Alpheratz</i> | 1 | 2.2 | 358 | N 29 |
| <i>Altair</i> | 51 | 0.9 | 62 | N 9 |
| <i>Ankaa</i> | 2 | 2.4 | 354 | S 42 |
| <i>Antares</i> | 42 | 1.2 | 113 | S 26 |
| <i>Arcturus</i> | 37 | 0.2 | 146 | N 19 |
| <i>Atria</i> | 43 | 1.9 | 108 | S 69 |
| <i>Avior</i> | 22 | 1.7 | 234 | S 59 |
| <i>Bellatrix</i> | 13 | 1.7 | 279 | N 6 |
| <i>Betelgeuse</i> | 16 | Var.* | 271 | N 7 |
| <i>Canopus</i> | 17 | -0.9 | 264 | S 53 |
| <i>Capella</i> | 12 | 0.2 | 281 | N 46 |
| <i>Deneb</i> | 53 | 1.3 | 50 | N 45 |
| <i>Denebola</i> | 28 | 2.2 | 183 | N 15 |
| <i>Diphda</i> | 4 | 2.2 | 349 | S 18 |
| <i>Dubhe</i> | 27 | 2.0 | 194 | N 62 |
| <i>Elnath</i> | 14 | 1.8 | 279 | N 29 |
| <i>Eltanin</i> | 47 | 2.4 | 91 | N 51 |
| <i>Enif</i> | 54 | 2.5 | 34 | N 10 |
| <i>Fomalhaut</i> | 56 | 1.3 | 16 | S 30 |
| <i>Gacrux</i> | 31 | 1.6 | 172 | S 57 |
| <i>Gienah</i> | 29 | 2.8 | 176 | S 18 |
| <i>Hadar</i> | 35 | 0.9 | 149 | S 60 |
| <i>Hamal</i> | 6 | 2.2 | 328 | N 23 |
| <i>Kaus Australis</i> | 48 | 2.0 | 84 | S 34 |
| <i>Kochab</i> | 40 | 2.2 | 137 | N 74 |
| <i>Markab</i> | 57 | 2.6 | 14 | N 15 |
| <i>Menkar</i> | 8 | 2.8 | 315 | N 4 |
| <i>Menkent</i> | 36 | 2.3 | 148 | S 36 |
| <i>Miaplacidus</i> | 24 | 1.8 | 222 | S 70 |
| <i>Mirfak</i> | 9 | 1.9 | 309 | N 50 |
| <i>Nunki</i> | 50 | 2.1 | 76 | S 26 |
| <i>Peacock</i> | 52 | 2.1 | 54 | S 57 |
| <i>Pollux</i> | 21 | 1.2 | 244 | N 28 |
| <i>Procyon</i> | 20 | 0.5 | 245 | N 5 |
| <i>Rasalhague</i> | 46 | 2.1 | 96 | N 13 |
| <i>Regulus</i> | 26 | 1.3 | 208 | N 12 |
| <i>Rigel</i> | 11 | 0.3 | 281 | S 8 |
| <i>Rigil Kentaurus</i> | 38 | 0.1 | 140 | S 61 |
| <i>Sabik</i> | 44 | 2.6 | 102 | S 15 |
| <i>Schedar</i> | 3 | 2.5 | 350 | N 57 |
| <i>Shaula</i> | 45 | 1.7 | 97 | S 37 |
| <i>Sirius</i> | 18 | -1.6 | 259 | S 17 |
| <i>Spica</i> | 33 | 1.2 | 159 | S 11 |
| <i>Suhail</i> | 23 | 2.2 | 223 | S 43 |
| <i>Vega</i> | 49 | 0.1 | 81 | N 39 |
| <i>Zubenelgenubi</i> | 39 | 2.9 | 137 | S 16 |

| No | Nombre | Mag | A.H.S | Dec |
|----|------------------------|-------|-------|------|
| 1 | <i>Alpheratz</i> | 2.2 | 358 | N 29 |
| 2 | <i>Ankaa</i> | 2.4 | 354 | S 42 |
| 3 | <i>Schedar</i> | 2.5 | 350 | N 57 |
| 4 | <i>Diphda</i> | 2.2 | 349 | S 18 |
| 5 | <i>Achernar</i> | 0.6 | 336 | S 57 |
| 6 | <i>Hamal</i> | 2.2 | 328 | N 23 |
| 7 | <i>Acamar</i> | 3.1 | 315 | S 40 |
| 8 | <i>Menkar</i> | 2.8 | 315 | N 4 |
| 9 | <i>Mirfak</i> | 1.9 | 309 | N 50 |
| 10 | <i>Aldebaran</i> | 1.1 | 291 | N 16 |
| 11 | <i>Rigel</i> | 0.3 | 281 | S 8 |
| 12 | <i>Capella</i> | 0.2 | 281 | N 46 |
| 13 | <i>Bellatrix</i> | 1.7 | 279 | N 6 |
| 14 | <i>Elnath</i> | 1.8 | 279 | N 29 |
| 15 | <i>Alnilam</i> | 1.8 | 276 | S 1 |
| 16 | <i>Betelgeuse</i> | Var.* | 271 | N 7 |
| 17 | <i>Canopus</i> | -0.9 | 264 | S 53 |
| 18 | <i>Sirius</i> | -1.6 | 259 | S 17 |
| 19 | <i>Adhara</i> | 1.6 | 255 | S 29 |
| 20 | <i>Procyon</i> | 0.5 | 245 | N 5 |
| 21 | <i>Pollux</i> | 1.2 | 244 | N 28 |
| 22 | <i>Avior</i> | 1.7 | 234 | S 59 |
| 23 | <i>Suhcil</i> | 2.2 | 223 | S 43 |
| 24 | <i>Miaplacidus</i> | 1.8 | 222 | S 70 |
| 25 | <i>Alphard</i> | 2.2 | 218 | S 9 |
| 26 | <i>Regulus</i> | 1.3 | 208 | N 12 |
| 27 | <i>Dubhe</i> | 2.0 | 194 | N 62 |
| 28 | <i>Denebola</i> | 2.2 | 183 | N 15 |
| 29 | <i>Gienah</i> | 2.8 | 176 | S 18 |
| 30 | <i>Acrux</i> | 1.1 | 173 | S 63 |
| 31 | <i>Gacrux</i> | 1.6 | 172 | S 57 |
| 32 | <i>Alioth</i> | 1.7 | 167 | N 56 |
| 33 | <i>Spica</i> | 1.2 | 159 | S 11 |
| 34 | <i>Alkaid</i> | 1.9 | 153 | N 49 |
| 35 | <i>Hadar</i> | 0.9 | 149 | S 60 |
| 36 | <i>Menkent</i> | 2.3 | 148 | S 36 |
| 37 | <i>Arcturus</i> | 0.2 | 146 | N 19 |
| 38 | <i>Rigil Kentaurus</i> | 0.1 | 140 | S 61 |
| 39 | <i>Zubenelgenubi</i> | 2.9 | 137 | S 16 |
| 40 | <i>Kochab</i> | 2.2 | 137 | N 74 |
| 41 | <i>Alphecca</i> | 2.3 | 126 | N 27 |
| 42 | <i>Antares</i> | 1.2 | 113 | S 26 |
| 43 | <i>Atria</i> | 1.9 | 108 | S 69 |
| 44 | <i>Sabik</i> | 2.6 | 102 | S 15 |
| 45 | <i>Shaula</i> | 1.7 | 97 | S 37 |
| 46 | <i>Rasalhague</i> | 2.1 | 96 | N 13 |
| 47 | <i>Eltanin</i> | 2.4 | 91 | N 51 |
| 48 | <i>Kaus Australis</i> | 2.0 | 84 | S 34 |
| 49 | <i>Vega</i> | 0.1 | 81 | N 39 |
| 50 | <i>Nunki</i> | 2.1 | 76 | S 26 |
| 51 | <i>Altair</i> | 0.9 | 62 | N 9 |
| 52 | <i>Peacock</i> | 2.1 | 54 | S 57 |
| 53 | <i>Deneb</i> | 1.3 | 50 | N 45 |
| 54 | <i>Enif</i> | 2.5 | 34 | N 10 |
| 55 | <i>Al Na'ir</i> | 2.2 | 28 | S 47 |
| 56 | <i>Fomalhaut</i> | 1.3 | 16 | S 30 |
| 57 | <i>Markab</i> | 2.6 | 14 | N 15 |

TABLAS DE CORRECCION DE ALTURAS 0° — 35° — LUNA

| Alt. Ap. | 0°-4° | 5°-9° | 10°-14° | 15°-19° | 20°-24° | 25°-29° | 30°-34° | Alt. Ap. |
|----------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------|
| | Corr ^a | Corr ^a | Corr ^a | Corr ^a | Corr ^a | Corr ^a | Corr ^a | |
| 00 | 0 33.8 | 5 58.2 | 10 62.1 | 15 62.8 | 20 62.2 | 25 60.8 | 30 58.9 | 00 |
| 10 | 35.9 | 58.5 | 62.2 | 62.8 | 62.1 | 60.8 | 58.8 | 10 |
| 20 | 37.8 | 58.7 | 62.2 | 62.8 | 62.1 | 60.7 | 58.8 | 20 |
| 30 | 39.6 | 58.9 | 62.3 | 62.8 | 62.1 | 60.7 | 58.7 | 30 |
| 40 | 41.2 | 59.1 | 62.3 | 62.8 | 62.0 | 60.6 | 58.6 | 40 |
| 50 | 42.6 | 59.3 | 62.4 | 62.7 | 62.0 | 60.6 | 58.5 | 50 |
| 00 | 1 44.0 | 6 59.5 | 11 62.4 | 16 62.7 | 21 62.0 | 26 60.5 | 31 58.5 | 00 |
| 10 | 45.2 | 59.7 | 62.4 | 62.7 | 61.9 | 60.4 | 58.4 | 10 |
| 20 | 46.3 | 59.9 | 62.5 | 62.7 | 61.9 | 60.4 | 58.3 | 20 |
| 30 | 47.3 | 60.0 | 62.5 | 62.7 | 61.9 | 60.3 | 58.2 | 30 |
| 40 | 48.3 | 60.2 | 62.5 | 62.7 | 61.8 | 60.3 | 58.2 | 40 |
| 50 | 49.2 | 60.3 | 62.6 | 62.7 | 61.8 | 60.2 | 58.1 | 50 |
| 00 | 2 50.0 | 7 60.5 | 12 62.6 | 17 62.7 | 22 61.7 | 27 60.1 | 32 58.0 | 00 |
| 10 | 50.8 | 60.6 | 62.6 | 62.6 | 61.7 | 60.1 | 57.9 | 10 |
| 20 | 51.4 | 60.7 | 62.6 | 62.6 | 61.6 | 60.0 | 57.8 | 20 |
| 30 | 52.1 | 60.9 | 62.7 | 62.6 | 61.6 | 59.9 | 57.8 | 30 |
| 40 | 52.7 | 61.0 | 62.7 | 62.6 | 61.5 | 59.9 | 57.7 | 40 |
| 50 | 53.3 | 61.1 | 62.7 | 62.6 | 61.5 | 59.8 | 57.6 | 50 |
| 00 | 3 53.8 | 8 61.2 | 13 62.7 | 18 62.5 | 23 61.5 | 28 59.7 | 33 57.5 | 00 |
| 10 | 54.3 | 61.3 | 62.7 | 62.5 | 61.4 | 59.7 | 57.4 | 10 |
| 20 | 54.8 | 61.4 | 62.7 | 62.5 | 61.4 | 59.6 | 57.4 | 20 |
| 30 | 55.2 | 61.5 | 62.8 | 62.5 | 61.3 | 59.6 | 57.3 | 30 |
| 40 | 55.6 | 61.6 | 62.8 | 62.4 | 61.3 | 59.5 | 57.2 | 40 |
| 50 | 56.0 | 61.6 | 62.8 | 62.4 | 61.2 | 59.4 | 57.1 | 50 |
| 00 | 4 56.4 | 9 61.7 | 14 62.8 | 19 62.4 | 24 61.2 | 29 59.3 | 34 57.0 | 00 |
| 10 | 56.7 | 61.8 | 62.8 | 62.3 | 61.1 | 59.3 | 56.9 | 10 |
| 20 | 57.1 | 61.9 | 62.8 | 62.3 | 61.1 | 59.2 | 56.9 | 20 |
| 30 | 57.4 | 61.9 | 62.8 | 62.3 | 61.0 | 59.1 | 56.8 | 30 |
| 40 | 57.7 | 62.0 | 62.8 | 62.2 | 60.9 | 59.1 | 56.7 | 40 |
| 50 | 57.9 | 62.1 | 62.8 | 62.2 | 60.9 | 59.0 | 56.6 | 50 |
| P. H. | I S | I S | I S | I S | I S | I S | I S | P. H. |
| 54.0 | 0.3 0.9 | 0.3 0.9 | 0.4 1.0 | 0.5 1.1 | 0.6 1.2 | 0.7 1.3 | 0.9 1.5 | 54.0 |
| 54.3 | 0.7 1.1 | 0.7 1.2 | 0.7 1.2 | 0.8 1.3 | 0.9 1.4 | 1.1 1.5 | 1.2 1.7 | 54.3 |
| 54.6 | 1.1 1.4 | 1.1 1.4 | 1.1 1.4 | 1.2 1.5 | 1.3 1.6 | 1.4 1.7 | 1.5 1.8 | 54.6 |
| 54.9 | 1.4 1.6 | 1.5 1.6 | 1.5 1.6 | 1.6 1.7 | 1.6 1.8 | 1.8 1.9 | 1.9 2.0 | 54.9 |
| 55.2 | 1.8 1.8 | 1.8 1.8 | 1.9 1.9 | 1.9 1.9 | 2.0 2.0 | 2.1 2.1 | 2.2 2.2 | 55.2 |
| 55.5 | 2.2 2.0 | 2.2 2.0 | 2.3 2.1 | 2.3 2.1 | 2.4 2.2 | 2.4 2.3 | 2.5 2.4 | 55.5 |
| 55.8 | 2.6 2.2 | 2.6 2.2 | 2.6 2.3 | 2.7 2.3 | 2.7 2.4 | 2.8 2.4 | 2.9 2.5 | 55.8 |
| 56.1 | 3.0 2.4 | 3.0 2.5 | 3.0 2.5 | 3.0 2.5 | 3.1 2.6 | 3.1 2.6 | 3.2 2.7 | 56.1 |
| 56.4 | 3.4 2.7 | 3.4 2.7 | 3.4 2.7 | 3.4 2.7 | 3.4 2.8 | 3.5 2.8 | 3.5 2.9 | 56.4 |
| 56.7 | 3.7 2.9 | 3.7 2.9 | 3.8 2.9 | 3.8 2.9 | 3.8 3.0 | 3.8 3.0 | 3.9 3.0 | 56.7 |
| 57.0 | 4.1 3.1 | 4.1 3.1 | 4.1 3.1 | 4.1 3.1 | 4.2 3.1 | 4.2 3.2 | 4.2 3.2 | 57.0 |
| 57.3 | 4.5 3.3 | 4.5 3.3 | 4.5 3.3 | 4.5 3.3 | 4.5 3.3 | 4.5 3.4 | 4.6 3.4 | 57.3 |
| 57.6 | 4.9 3.5 | 4.9 3.5 | 4.9 3.5 | 4.9 3.5 | 4.9 3.5 | 4.9 3.5 | 4.9 3.6 | 57.6 |
| 57.9 | 5.3 3.8 | 5.3 3.8 | 5.2 3.8 | 5.2 3.7 | 5.2 3.7 | 5.2 3.7 | 5.2 3.7 | 57.9 |
| 58.2 | 5.6 4.0 | 5.6 4.0 | 5.6 4.0 | 5.6 4.0 | 5.6 3.9 | 5.6 3.9 | 5.6 3.9 | 58.2 |
| 58.5 | 6.0 4.2 | 6.0 4.2 | 6.0 4.2 | 6.0 4.2 | 6.0 4.1 | 5.9 4.1 | 5.9 4.1 | 58.5 |
| 58.8 | 6.4 4.4 | 6.4 4.4 | 6.4 4.4 | 6.3 4.4 | 6.3 4.3 | 6.3 4.3 | 6.2 4.2 | 58.8 |
| 59.1 | 6.8 4.6 | 6.8 4.6 | 6.7 4.6 | 6.7 4.6 | 6.7 4.5 | 6.6 4.5 | 6.6 4.4 | 59.1 |
| 59.4 | 7.2 4.8 | 7.1 4.8 | 7.1 4.8 | 7.1 4.8 | 7.0 4.7 | 7.0 4.7 | 6.9 4.6 | 59.4 |
| 59.7 | 7.5 5.1 | 7.5 5.0 | 7.5 5.0 | 7.5 5.0 | 7.4 4.9 | 7.3 4.8 | 7.2 4.7 | 59.7 |
| 60.0 | 7.9 5.3 | 7.9 5.3 | 7.9 5.2 | 7.8 5.2 | 7.8 5.1 | 7.7 5.0 | 7.6 4.9 | 60.0 |
| 60.3 | 8.3 5.5 | 8.3 5.5 | 8.2 5.4 | 8.2 5.4 | 8.1 5.3 | 8.0 5.2 | 7.9 5.1 | 60.3 |
| 60.6 | 8.7 5.7 | 8.7 5.7 | 8.6 5.7 | 8.6 5.6 | 8.5 5.5 | 8.4 5.4 | 8.2 5.3 | 60.6 |
| 60.9 | 9.1 5.9 | 9.0 5.9 | 9.0 5.9 | 8.9 5.8 | 8.8 5.7 | 8.7 5.6 | 8.6 5.4 | 60.9 |
| 61.2 | 9.5 6.2 | 9.4 6.1 | 9.4 6.1 | 9.3 6.0 | 9.2 5.9 | 9.1 5.8 | 8.9 5.6 | 61.2 |
| 61.5 | 9.8 6.4 | 9.8 6.3 | 9.7 6.3 | 9.7 6.2 | 9.5 6.1 | 9.4 5.9 | 9.2 5.8 | 61.5 |

| DEPRESION | | | |
|--------------|--------------------|--------------|--------------------|
| Alt. del ojo | Alt. del ojo corr. | Alt. del ojo | Alt. del ojo Corr. |
| m | Pies | m | Pies |
| 2.4 | -2.8 | 8.0 | 9.5 |
| 2.6 | -2.9 | 8.6 | 9.9 |
| 2.8 | -3.0 | 9.2 | 10.3 |
| 3.0 | -3.1 | 9.8 | 10.6 |
| 3.2 | -3.2 | 10.5 | 11.0 |
| 3.4 | -3.3 | 11.2 | 11.4 |
| 3.6 | -3.4 | 11.9 | 11.8 |
| 3.8 | -3.5 | 12.6 | 12.2 |
| 4.0 | -3.6 | 13.3 | 12.6 |
| 4.3 | -3.7 | 14.1 | 13.0 |
| 4.5 | -3.8 | 14.9 | 13.4 |
| 4.7 | -3.9 | 15.7 | 13.8 |
| 5.0 | -4.0 | 16.5 | 14.2 |
| 5.2 | -4.1 | 17.4 | 14.7 |
| 5.5 | -4.2 | 18.3 | 15.1 |
| 5.8 | -4.3 | 19.1 | 15.5 |
| 6.1 | -4.4 | 20.1 | 16.0 |
| 6.3 | -4.5 | 21.0 | 16.5 |
| 6.6 | -4.6 | 22.0 | 16.9 |
| 6.9 | -4.7 | 22.9 | 17.4 |
| 7.2 | -4.8 | 23.9 | 17.9 |
| 7.5 | -4.9 | 24.9 | 18.4 |
| 7.9 | -5.0 | 26.0 | 18.8 |
| 8.2 | -5.1 | 27.1 | 19.3 |
| 8.5 | -5.2 | 28.1 | 19.8 |
| 8.8 | -5.3 | 29.2 | 20.4 |
| 9.2 | -5.4 | 30.4 | 20.9 |
| 9.5 | | 31.5 | 21.4 |

TABLA DE CORRECCION DE LUNA

La corrección está dividida en dos partes; la primera corrección se toma de la parte superior de la tabla usando la altura aparente como argumento, y la segunda de la parte inferior, usando P. H. como argumento, en la misma columna que se usó para tomar la primera corrección. En la parte inferior se dan correcciones separadas para los limbos inferior (I) y superior (S). Todas las correcciones deben sumarse a la altura aparente, pero deben restarse 30' de la altura correspondiente al limbo superior.

Para correcciones por presión y temperatura ver página A4

Para observaciones con sextante de burbuja, despreciar la depresión, tomar la media de las correcciones para limbo superior y limbo inferior y restar 15' de la altura.

Alt. Ap. = Altura aparente = Altura de sextante corregida por error de índice y depresión.