# LAT 9°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦CAPELLA | | ALDEBARAN | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 13°43′ | 045 | 22°19′ | 076 | 25°45′ | 143 | 20°51′ | 166 | 48°45′ | 200 | 28°47′ | 275 | 34°13′ | 320 |
| 1 | 14 25 | 045 | 23 17 | 076 | 26 20 | 144 | 21 05 | 167 | 48 24 | 202 | 27 48 | 275 | 33 35 | 319 |
| 2 | 15 06 | 045 | 24 14 | 076 | 26 55 | 144 | 21 18 | 167 | 48 02 | 203 | 26 49 | 276 | 32 56 | 319 |
| 3 | 15 48 | 045 | 25 12 | 076 | 27 29 | 145 | 21 31 | 168 | 47 38 | 204 | 25 50 | 276 | 32 17 | 319 |
| 4 | 16 29 | 045 | 26 09 | 076 | 28 03 | 146 | 21 44 | 168 | 47 14 | 205 | 24 51 | 276 | 31 38 | 318 |
| 5 | 17°11′ | 044 | 27°07′ | 076 | 28°36′ | 146 | 21°56′ | 169 | 46°48′ | 206 | 23°52′ | 276 | 30°58′ | 318 |
| 6 | 17 53 | 044 | 28 04 | 076 | 29 09 | 147 | 22 07 | 169 | 46 21 | 207 | 22 53 | 276 | 30 19 | 318 |
| 7 | 18 34 | 044 | 29 02 | 076 | 29 41 | 147 | 22 18 | 170 | 45 54 | 208 | 21 54 | 276 | 29 39 | 318 |
| 8 | 19 15 | 044 | 29 59 | 076 | 30 13 | 148 | 22 28 | 170 | 45 25 | 209 | 20 55 | 276 | 28 59 | 317 |
| 9 | 19 57 | 044 | 30 57 | 076 | 30 44 | 149 | 22 38 | 171 | 44 55 | 210 | 19 56 | 276 | 28 19 | 317 |
| 10 | 20°38′ | 044 | 31°54′ | 076 | 31°14′ | 149 | 22°47′ | 171 | 44°25′ | 211 | 18°57′ | 276 | 27°38′ | 317 |
| 11 | 21 19 | 044 | 32 52 | 076 | 31 44 | 150 | 22 55 | 172 | 43 54 | 212 | 17 58 | 277 | 26 58 | 317 |
| 12 | 22 00 | 044 | 33 49 | 076 | 32 13 | 151 | 23 03 | 173 | 43 22 | 213 | 16 59 | 277 | 26 17 | 316 |
| 13 | 22 41 | 044 | 34 47 | 076 | 32 42 | 151 | 23 11 | 173 | 42 49 | 214 | 16 00 | 277 | 25 36 | 316 |
| 14 | 23 22 | 044 | 35 44 | 076 | 33 10 | 152 | 23 17 | 174 | 42 15 | 215 | 15 02 | 277 | 24 55 | 316 |
| | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦DENEB | |
| 15 | 24°03′ | 043 | 36°42′ | 076 | 24°06′ | 103 | 23°24′ | 174 | 41°40′ | 216 | 41°59′ | 275 | 24°14′ | 316 |
| 16 | 24 43 | 043 | 37 39 | 076 | 25 03 | 103 | 23 29 | 175 | 41 05 | 217 | 41 00 | 275 | 23 33 | 316 |
| 17 | 25 24 | 043 | 38 37 | 076 | 26 01 | 104 | 23 34 | 176 | 40 29 | 218 | 40 01 | 275 | 22 51 | 316 |
| 18 | 26 04 | 043 | 39 34 | 076 | 26 59 | 104 | 23 38 | 176 | 39 53 | 219 | 39 02 | 276 | 22 10 | 315 |
| 19 | 26 44 | 043 | 40 32 | 076 | 27 56 | 104 | 23 42 | 177 | 39 15 | 219 | 38 03 | 276 | 21 28 | 315 |
| 20 | 27°24′ | 042 | 41°29′ | 076 | 28°53′ | 105 | 23°45′ | 177 | 38°38′ | 220 | 37°04′ | 276 | 20°46′ | 315 |
| 21 | 28 04 | 042 | 42 27 | 076 | 29 51 | 105 | 23 48 | 178 | 37 59 | 221 | 36 05 | 276 | 20 05 | 315 |
| 22 | 28 44 | 042 | 43 24 | 076 | 30 48 | 105 | 23 50 | 178 | 37 20 | 222 | 35 06 | 276 | 19 23 | 315 |
| 23 | 29 23 | 042 | 44 21 | 076 | 31 45 | 106 | 23 51 | 179 | 36 41 | 222 | 34 07 | 276 | 18 41 | 315 |
| 24 | 30 03 | 041 | 45 19 | 076 | 32 42 | 106 | 23 52 | 180 | 36 00 | 223 | 33 09 | 276 | 17 59 | 315 |
| 25 | 30°42′ | 041 | 46°16′ | 075 | 33°39′ | 106 | 23°52′ | 180 | 35°20′ | 224 | 32°10′ | 276 | 17°17′ | 315 |
| 26 | 31 21 | 041 | 47 13 | 075 | 34 36 | 107 | 23 51 | 181 | 34 39 | 224 | 31 11 | 276 | 16 35 | 315 |
| 27 | 31 59 | 041 | 48 11 | 075 | 35 33 | 107 | 23 50 | 181 | 33 57 | 225 | 30 12 | 276 | 15 53 | 315 |
| 28 | 32 38 | 040 | 49 08 | 075 | 36 29 | 107 | 23 48 | 182 | 33 15 | 226 | 29 13 | 276 | 15 11 | 315 |
| 29 | 33 16 | 040 | 50 05 | 075 | 37 26 | 108 | 23 46 | 183 | 32 32 | 226 | 28 14 | 277 | 14 29 | 315 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 45°22′ | 020 | 33°54′ | 040 | 51°02′ | 075 | 38°22′ | 108 | 23°43′ | 183 | 31°49′ | 227 | 57°09′ | 312 |
| 31 | 45 41 | 019 | 34 31 | 039 | 52 00 | 075 | 39 19 | 108 | 23 39 | 184 | 31 06 | 227 | 56 24 | 311 |
| 32 | 46 00 | 018 | 35 09 | 039 | 52 57 | 074 | 40 15 | 109 | 23 35 | 184 | 30 22 | 228 | 55 39 | 310 |
| 33 | 46 18 | 017 | 35 46 | 038 | 53 54 | 074 | 41 11 | 109 | 23 30 | 185 | 29 38 | 228 | 54 54 | 309 |
| 34 | 46 35 | 016 | 36 22 | 038 | 54 51 | 074 | 42 07 | 110 | 23 25 | 186 | 28 54 | 229 | 54 07 | 309 |
| 35 | 46°51′ | 015 | 36°59′ | 038 | 55°48′ | 074 | 43°02′ | 110 | 23°19′ | 186 | 28°09′ | 229 | 53°21′ | 308 |
| 36 | 47 06 | 015 | 37 35 | 037 | 56 45 | 073 | 43 58 | 111 | 23 12 | 187 | 27 24 | 230 | 52 34 | 307 |
| 37 | 47 21 | 014 | 38 10 | 037 | 57 41 | 073 | 44 53 | 111 | 23 05 | 187 | 26 38 | 230 | 51 47 | 307 |
| 38 | 47 34 | 013 | 38 45 | 036 | 58 38 | 073 | 45 49 | 112 | 22 57 | 188 | 25 52 | 231 | 50 59 | 306 |
| 39 | 47 47 | 012 | 39 20 | 036 | 59 35 | 073 | 46 43 | 112 | 22 49 | 188 | 25 06 | 231 | 50 11 | 306 |
| 40 | 47°59′ | 011 | 39°54′ | 035 | 60°31′ | 072 | 47°38′ | 113 | 22°40′ | 189 | 24°20′ | 232 | 49°22′ | 305 |
| 41 | 48 10 | 010 | 40 28 | 035 | 61 27 | 072 | 48 33 | 113 | 22 30 | 190 | 23 33 | 232 | 48 34 | 305 |
| 42 | 48 19 | 009 | 41 02 | 034 | 62 24 | 071 | 49 27 | 114 | 22 20 | 190 | 22 46 | 233 | 47 45 | 304 |
| 43 | 48 28 | 008 | 41 35 | 034 | 63 20 | 071 | 50 21 | 115 | 22 10 | 191 | 21 59 | 233 | 46 56 | 304 |
| 44 | 48 36 | 007 | 42 07 | 033 | 64 16 | 070 | 51 15 | 115 | 21 58 | 191 | 21 12 | 233 | 46 06 | 303 |
| | ✦CAPELLA | | PROCYON | | SIRIUS | | ✦CANOPUS | | ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 42°39′ | 032 | 20°26′ | 088 | 28°29′ | 115 | 14°33′ | 151 | 21°47′ | 192 | 47°06′ | 231 | 45°16′ | 303 |
| 46 | 43 11 | 032 | 21 26 | 088 | 29 23 | 115 | 15 02 | 151 | 21 34 | 192 | 46 20 | 232 | 44 27 | 302 |
| 47 | 43 42 | 031 | 22 25 | 088 | 30 16 | 115 | 15 31 | 152 | 21 21 | 193 | 45 33 | 233 | 43 36 | 302 |
| 48 | 44 12 | 030 | 23 24 | 088 | 31 10 | 116 | 15 58 | 152 | 21 08 | 193 | 44 45 | 234 | 42 46 | 302 |
| 49 | 44 42 | 030 | 24 23 | 088 | 32 03 | 116 | 16 26 | 152 | 20 54 | 194 | 43 58 | 234 | 41 56 | 301 |
| 50 | 45°11′ | 029 | 25°22′ | 089 | 32°56′ | 117 | 16°53′ | 153 | 20°39′ | 194 | 43°09′ | 235 | 41°05′ | 301 |
| 51 | 45 39 | 028 | 26 22 | 089 | 33 49 | 117 | 17 20 | 153 | 20 24 | 195 | 42 21 | 236 | 40 14 | 301 |
| 52 | 46 07 | 028 | 27 21 | 089 | 34 41 | 118 | 17 47 | 154 | 20 09 | 195 | 41 31 | 236 | 39 23 | 301 |
| 53 | 46 34 | 027 | 28 20 | 089 | 35 34 | 118 | 18 13 | 154 | 19 53 | 196 | 40 42 | 237 | 38 32 | 300 |
| 54 | 47 01 | 026 | 29 19 | 089 | 36 26 | 119 | 18 38 | 155 | 19 36 | 196 | 39 52 | 238 | 37 41 | 300 |
| 55 | 47°26′ | 025 | 30°19′ | 089 | 37°18′ | 119 | 19°03′ | 155 | 19°19′ | 197 | 39°02′ | 238 | 36°50′ | 300 |
| 56 | 47 51 | 024 | 31 18 | 089 | 38 09 | 120 | 19 28 | 156 | 19 02 | 197 | 38 12 | 239 | 35 58 | 300 |
| 57 | 48 15 | 024 | 32 17 | 090 | 39 01 | 120 | 19 53 | 156 | 18 44 | 198 | 37 21 | 239 | 35 07 | 300 |
| 58 | 48 38 | 023 | 33 16 | 090 | 39 52 | 121 | 20 16 | 157 | 18 26 | 198 | 36 30 | 240 | 34 15 | 299 |
| 59 | 49 01 | 022 | 34 16 | 090 | 40 43 | 121 | 20 40 | 157 | 18 07 | 199 | 35 38 | 240 | 33 23 | 299 |
| | ✦CAPELLA | | POLLUX | | PROCYON | | ✦SIRIUS | | CANOPUS | | ✦Diphda | | Alpheratz | |
| 60 | 49°22′ | 021 | 33°35′ | 062 | 35°15′ | 090 | 41°33′ | 122 | 21°03′ | 158 | 34°47′ | 241 | 32°32′ | 299 |
| 61 | 49 43 | 020 | 34 28 | 062 | 36 14 | 090 | 42 23 | 123 | 21 25 | 158 | 33 55 | 241 | 31 40 | 299 |
| 62 | 50 03 | 019 | 35 20 | 062 | 37 14 | 090 | 43 13 | 123 | 21 47 | 159 | 33 03 | 242 | 30 48 | 299 |
| 63 | 50 22 | 018 | 36 12 | 062 | 38 13 | 090 | 44 02 | 124 | 22 08 | 159 | 32 11 | 242 | 29 56 | 299 |
| 64 | 50 40 | 017 | 37 04 | 062 | 39 12 | 091 | 44 51 | 125 | 22 29 | 160 | 31 18 | 243 | 29 04 | 298 |
| 65 | 50°57′ | 016 | 37°56′ | 061 | 40°11′ | 091 | 45°40′ | 125 | 22°50′ | 160 | 30°25′ | 243 | 28°12′ | 298 |
| 66 | 51 12 | 015 | 38 48 | 061 | 41 11 | 091 | 46 28 | 126 | 23 10 | 161 | 29 33 | 243 | 27 19 | 298 |
| 67 | 51 27 | 014 | 39 40 | 061 | 42 10 | 091 | 47 15 | 127 | 23 29 | 161 | 28 39 | 244 | 26 27 | 298 |
| 68 | 51 41 | 013 | 40 32 | 061 | 43 09 | 091 | 48 02 | 128 | 23 48 | 162 | 27 46 | 244 | 25 35 | 298 |
| 69 | 51 54 | 012 | 41 24 | 060 | 44 08 | 092 | 48 49 | 129 | 24 06 | 162 | 26 53 | 245 | 24 43 | 298 |
| 70 | 52°05′ | 011 | 42°15′ | 060 | 45°08′ | 092 | 49°35′ | 129 | 24°23′ | 163 | 25°59′ | 245 | 23°50′ | 298 |
| 71 | 52 16 | 010 | 43 06 | 060 | 46 07 | 092 | 50 20 | 130 | 24 41 | 164 | 25 05 | 245 | 22 58 | 298 |
| 72 | 52 25 | 009 | 43 58 | 060 | 47 06 | 092 | 51 05 | 131 | 24 57 | 164 | 24 11 | 246 | 22 06 | 298 |
| 73 | 52 34 | 007 | 44 49 | 059 | 48 05 | 092 | 51 49 | 132 | 25 13 | 165 | 23 17 | 246 | 21 13 | 298 |
| 74 | 52 41 | 006 | 45 39 | 059 | 49 04 | 092 | 52 33 | 133 | 25 28 | 165 | 22 23 | 246 | 20 21 | 298 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 52°47′ | 005 | 46°30′ | 058 | 50°04′ | 093 | 53°15′ | 134 | 25°43′ | 166 | 33°24′ | 207 | 46°30′ | 295 |
| 76 | 52 52 | 004 | 47 20 | 058 | 51 03 | 093 | 53 57 | 136 | 25 57 | 167 | 32 56 | 208 | 45 37 | 295 |
| 77 | 52 55 | 003 | 48 11 | 058 | 52 02 | 093 | 54 39 | 137 | 26 10 | 167 | 32 28 | 209 | 44 43 | 294 |
| 78 | 52 58 | 002 | 49 00 | 057 | 53 01 | 093 | 55 19 | 138 | 26 23 | 168 | 31 59 | 210 | 43 49 | 294 |
| 79 | 52 59 | 001 | 49 50 | 057 | 54 00 | 094 | 55 58 | 139 | 26 35 | 169 | 31 29 | 210 | 42 54 | 294 |
| 80 | 52°59′ | 359 | 50°40′ | 056 | 54°59′ | 094 | 56°36′ | 140 | 26°47′ | 169 | 30°59′ | 211 | 42°00′ | 294 |
| 81 | 52 58 | 358 | 51 29 | 056 | 55 59 | 094 | 57 14 | 142 | 26 57 | 170 | 30 28 | 212 | 41 06 | 293 |
| 82 | 52 55 | 357 | 52 17 | 055 | 56 58 | 094 | 57 50 | 143 | 27 08 | 170 | 29 57 | 212 | 40 12 | 293 |
| 83 | 52 52 | 356 | 53 06 | 055 | 57 57 | 095 | 58 25 | 145 | 27 17 | 171 | 29 25 | 213 | 39 17 | 293 |
| 84 | 52 47 | 355 | 53 54 | 054 | 58 56 | 095 | 58 59 | 146 | 27 26 | 172 | 28 53 | 213 | 38 23 | 293 |
| 85 | 52°41′ | 354 | 54°42′ | 053 | 59°55′ | 095 | 59°31′ | 148 | 27°34′ | 172 | 28°20′ | 214 | 37°28′ | 293 |
| 86 | 52 34 | 353 | 55 29 | 053 | 60 54 | 096 | 60 02 | 149 | 27 41 | 173 | 27 46 | 215 | 36 33 | 293 |
| 87 | 52 26 | 351 | 56 16 | 052 | 61 53 | 096 | 60 32 | 151 | 27 48 | 174 | 27 12 | 215 | 35 39 | 293 |
| 88 | 52 17 | 350 | 57 02 | 051 | 62 52 | 096 | 61 00 | 153 | 27 54 | 174 | 26 38 | 216 | 34 44 | 292 |
| 89 | 52 06 | 349 | 57 48 | 050 | 63 51 | 097 | 61 26 | 154 | 28 00 | 175 | 26 03 | 216 | 33 49 | 292 |

# LAT 9°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦POLLUX | | REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 58°33′ | 049 | 28°44′ | 081 | 22°17′ | 145 | 28°04′ | 176 | 69°33′ | 213 | 68°26′ | 293 | 51°55′ | 348 |
| 91 | 59 18 | 048 | 29 42 | 081 | 22 51 | 145 | 28 08 | 177 | 69 00 | 215 | 67 31 | 292 | 51 42 | 347 |
| 92 | 60 02 | 047 | 30 41 | 081 | 23 24 | 146 | 28 12 | 177 | 68 24 | 218 | 66 36 | 291 | 51 28 | 346 |
| 93 | 60 45 | 046 | 31 40 | 082 | 23 57 | 146 | 28 14 | 178 | 67 47 | 220 | 65 41 | 290 | 51 14 | 345 |
| 94 | 61 28 | 045 | 32 38 | 082 | 24 30 | 147 | 28 16 | 179 | 67 09 | 222 | 64 45 | 290 | 50 58 | 344 |
| 95 | 62°09′ | 044 | 33°37′ | 082 | 25°02′ | 147 | 28°17′ | 179 | 66°29′ | 224 | 63°49′ | 289 | 50°41′ | 343 |
| 96 | 62 50 | 043 | 34 35 | 082 | 25 33 | 148 | 28 18 | 180 | 65 47 | 225 | 62 53 | 289 | 50 23 | 342 |
| 97 | 63 30 | 042 | 35 34 | 082 | 26 04 | 149 | 28 17 | 181 | 65 04 | 227 | 61 57 | 288 | 50 04 | 341 |
| 98 | 64 09 | 040 | 36 33 | 082 | 26 35 | 149 | 28 16 | 181 | 64 21 | 229 | 61 01 | 288 | 49 45 | 340 |
| 99 | 64 47 | 039 | 37 31 | 082 | 27 05 | 150 | 28 15 | 182 | 63 36 | 230 | 60 04 | 288 | 49 24 | 339 |
| 100 | 65°23′ | 037 | 38°30′ | 082 | 27°35′ | 150 | 28°12′ | 183 | 62°50′ | 231 | 59°08′ | 287 | 49°03′ | 338 |
| 101 | 65 59 | 036 | 39 29 | 082 | 28 04 | 151 | 28 09 | 183 | 62 03 | 233 | 58 11 | 287 | 48 40 | 337 |
| 102 | 66 33 | 034 | 40 27 | 082 | 28 32 | 152 | 28 05 | 184 | 61 16 | 234 | 57 14 | 287 | 48 17 | 337 |
| 103 | 67 05 | 032 | 41 26 | 082 | 29 00 | 152 | 28 01 | 185 | 60 27 | 235 | 56 18 | 286 | 47 53 | 336 |
| 104 | 67 36 | 030 | 42 25 | 082 | 29 27 | 153 | 27 55 | 185 | 59 38 | 236 | 55 21 | 286 | 47 28 | 335 |
| | Dubhe | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 105 | 21°19′ | 027 | 43°24′ | 082 | 29°54′ | 154 | 27°49′ | 186 | 58°49′ | 237 | 54°24′ | 286 | 47°02′ | 334 |
| 106 | 21 45 | 026 | 44 22 | 082 | 30 20 | 154 | 27 43 | 187 | 57 59 | 238 | 53 27 | 286 | 46 36 | 333 |
| 107 | 22 11 | 026 | 45 21 | 082 | 30 46 | 155 | 27 36 | 187 | 57 08 | 239 | 52 30 | 285 | 46 09 | 332 |
| 108 | 22 37 | 026 | 46 20 | 082 | 31 11 | 156 | 27 28 | 188 | 56 17 | 240 | 51 33 | 285 | 45 41 | 332 |
| 109 | 23 03 | 026 | 47 18 | 082 | 31 35 | 156 | 27 19 | 189 | 55 25 | 241 | 50 35 | 285 | 45 13 | 331 |
| 110 | 23°29′ | 025 | 48°17′ | 082 | 31°58′ | 157 | 27°09′ | 189 | 54°33′ | 242 | 49°38′ | 285 | 44°44′ | 330 |
| 111 | 23 54 | 025 | 49 16 | 082 | 32 21 | 158 | 26 59 | 190 | 53 40 | 243 | 48 41 | 285 | 44 14 | 330 |
| 112 | 24 19 | 025 | 50 15 | 082 | 32 43 | 158 | 26 49 | 191 | 52 48 | 243 | 47 44 | 285 | 43 44 | 329 |
| 113 | 24 44 | 025 | 51 13 | 082 | 33 04 | 159 | 26 37 | 191 | 51 54 | 244 | 46 46 | 285 | 43 13 | 328 |
| 114 | 25 09 | 025 | 52 12 | 082 | 33 25 | 160 | 26 25 | 192 | 51 01 | 245 | 45 49 | 285 | 42 42 | 328 |
| 115 | 25°33′ | 024 | 53°11′ | 082 | 33°45′ | 161 | 26°13′ | 193 | 50°07′ | 246 | 44°52′ | 284 | 42°10′ | 327 |
| 116 | 25 58 | 024 | 54 09 | 082 | 34 04 | 162 | 25 59 | 193 | 49 13 | 246 | 43 54 | 284 | 41 37 | 326 |
| 117 | 26 22 | 024 | 55 08 | 082 | 34 23 | 162 | 25 46 | 194 | 48 19 | 247 | 42 57 | 284 | 41 04 | 326 |
| 118 | 26 45 | 023 | 56 07 | 082 | 34 40 | 163 | 25 31 | 195 | 47 24 | 247 | 41 59 | 284 | 40 31 | 325 |
| 119 | 27 09 | 023 | 57 05 | 082 | 34 57 | 164 | 25 16 | 195 | 46 29 | 248 | 41 02 | 284 | 39 57 | 325 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦SIRIUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 120 | 27°32′ | 023 | 33°33′ | 079 | 35°13′ | 165 | 58°25′ | 215 | 45°34′ | 248 | 40°04′ | 284 | 39°23′ | 324 |
| 121 | 27 54 | 022 | 34 31 | 079 | 35 28 | 166 | 57 50 | 217 | 44 39 | 249 | 39 07 | 284 | 38 48 | 324 |
| 122 | 28 17 | 022 | 35 29 | 079 | 35 42 | 166 | 57 14 | 218 | 43 44 | 249 | 38 09 | 284 | 38 13 | 323 |
| 123 | 28 39 | 022 | 36 28 | 079 | 35 56 | 167 | 56 37 | 220 | 42 48 | 250 | 37 12 | 284 | 37 37 | 323 |
| 124 | 29 01 | 021 | 37 26 | 079 | 36 08 | 168 | 55 58 | 221 | 41 52 | 250 | 36 14 | 284 | 37 01 | 322 |
| 125 | 29°22′ | 021 | 38°24′ | 079 | 36°20′ | 169 | 55°19′ | 222 | 40°56′ | 251 | 35°17′ | 284 | 36°25′ | 322 |
| 126 | 29 43 | 021 | 39 22 | 079 | 36 31 | 170 | 54 39 | 223 | 40 00 | 251 | 34 19 | 284 | 35 48 | 322 |
| 127 | 30 04 | 020 | 40 20 | 079 | 36 41 | 171 | 53 58 | 224 | 39 04 | 252 | 33 22 | 284 | 35 11 | 321 |
| 128 | 30 24 | 020 | 41 18 | 079 | 36 50 | 172 | 53 16 | 226 | 38 08 | 252 | 32 24 | 284 | 34 34 | 321 |
| 129 | 30 44 | 020 | 42 16 | 079 | 36 58 | 173 | 52 33 | 227 | 37 11 | 252 | 31 27 | 284 | 33 57 | 320 |
| 130 | 31°04′ | 019 | 43°14′ | 079 | 37°05′ | 173 | 51°50′ | 228 | 36°15′ | 253 | 30°29′ | 284 | 33°19′ | 320 |
| 131 | 31 23 | 019 | 44 12 | 079 | 37 11 | 174 | 51 05 | 229 | 35 18 | 253 | 29 32 | 284 | 32 41 | 320 |
| 132 | 31 42 | 018 | 45 10 | 079 | 37 17 | 175 | 50 21 | 230 | 34 21 | 254 | 28 34 | 284 | 32 02 | 319 |
| 133 | 32 01 | 018 | 46 08 | 078 | 37 21 | 176 | 49 35 | 231 | 33 24 | 254 | 27 37 | 284 | 31 24 | 319 |
| 134 | 32 19 | 017 | 47 06 | 078 | 37 24 | 177 | 48 49 | 231 | 32 27 | 254 | 26 39 | 284 | 30 45 | 319 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦Suhail | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 32°36′ | 017 | 13°07′ | 072 | 20°47′ | 106 | 37°27′ | 178 | 48°03′ | 232 | 44°32′ | 272 | 30°06′ | 319 |
| 136 | 32 53 | 017 | 14 04 | 072 | 21 44 | 106 | 37 29 | 179 | 47 16 | 233 | 43 33 | 272 | 29 26 | 318 |
| 137 | 33 10 | 016 | 15 00 | 073 | 22 41 | 106 | 37 29 | 180 | 46 28 | 234 | 42 33 | 272 | 28 47 | 318 |
| 138 | 33 26 | 016 | 15 57 | 073 | 23 38 | 107 | 37 29 | 181 | 45 40 | 235 | 41 34 | 272 | 28 07 | 318 |
| 139 | 33 42 | 015 | 16 53 | 073 | 24 34 | 107 | 37 28 | 182 | 44 51 | 235 | 40 35 | 272 | 27 27 | 318 |
| 140 | 33°57′ | 015 | 17°50′ | 073 | 25°31′ | 107 | 37°25′ | 183 | 44°02′ | 236 | 39°36′ | 272 | 26°47′ | 317 |
| 141 | 34 12 | 014 | 18 47 | 073 | 26 28 | 107 | 37 22 | 183 | 43 13 | 237 | 38 36 | 272 | 26 07 | 317 |
| 142 | 34 26 | 014 | 19 43 | 073 | 27 24 | 108 | 37 18 | 184 | 42 23 | 237 | 37 37 | 272 | 25 27 | 317 |
| 143 | 34 40 | 013 | 20 40 | 073 | 28 21 | 108 | 37 13 | 185 | 41 33 | 238 | 36 38 | 273 | 24 46 | 317 |
| 144 | 34 53 | 013 | 21 36 | 073 | 29 17 | 108 | 37 07 | 186 | 40 43 | 239 | 35 39 | 273 | 24 06 | 317 |
| 145 | 35°06′ | 012 | 22°33′ | 073 | 30°13′ | 109 | 37°00′ | 187 | 39°52′ | 239 | 34°40′ | 273 | 23°25′ | 316 |
| 146 | 35 18 | 012 | 23 30 | 073 | 31 09 | 109 | 36 53 | 188 | 39 01 | 240 | 33 40 | 273 | 22 44 | 316 |
| 147 | 35 30 | 011 | 24 26 | 073 | 32 05 | 109 | 36 44 | 189 | 38 10 | 240 | 32 41 | 273 | 22 03 | 316 |
| 148 | 35 41 | 011 | 25 23 | 073 | 33 01 | 110 | 36 34 | 190 | 37 18 | 241 | 31 42 | 273 | 21 22 | 316 |
| 149 | 35 51 | 010 | 26 20 | 073 | 33 57 | 110 | 36 24 | 191 | 36 26 | 241 | 30 43 | 273 | 20 41 | 316 |
| 150 | 36°01′ | 009 | 27°17′ | 073 | 34°52′ | 111 | 12°29′ | 164 | 36°13′ | 192 | 35°34′ | 242 | 53°18′ | 306 |
| 151 | 36 11 | 009 | 28 13 | 073 | 35 47 | 111 | 12 46 | 164 | 36 00 | 192 | 34 42 | 242 | 52 30 | 305 |
| 152 | 36 20 | 008 | 29 10 | 073 | 36 43 | 111 | 13 01 | 165 | 35 47 | 193 | 33 49 | 243 | 51 41 | 304 |
| 153 | 36 28 | 008 | 30 07 | 073 | 37 38 | 112 | 13 17 | 165 | 35 33 | 194 | 32 56 | 243 | 50 52 | 304 |
| 154 | 36 36 | 007 | 31 03 | 073 | 38 33 | 112 | 13 32 | 165 | 35 18 | 195 | 32 03 | 244 | 50 03 | 303 |
| 155 | 36°43′ | 007 | 32°00′ | 073 | 39°28′ | 113 | 13°47′ | 166 | 35°03′ | 196 | 31°10′ | 244 | 49°13′ | 303 |
| 156 | 36 49 | 006 | 32 57 | 073 | 40 22 | 113 | 14 01 | 166 | 34 46 | 197 | 30 17 | 245 | 48 23 | 302 |
| 157 | 36 55 | 005 | 33 53 | 073 | 41 16 | 114 | 14 15 | 167 | 34 29 | 197 | 29 23 | 245 | 47 33 | 302 |
| 158 | 37 01 | 005 | 34 50 | 073 | 42 11 | 114 | 14 29 | 167 | 34 11 | 198 | 28 29 | 245 | 46 43 | 302 |
| 159 | 37 05 | 004 | 35 47 | 073 | 43 05 | 115 | 14 42 | 167 | 33 52 | 199 | 27 35 | 246 | 45 52 | 301 |
| 160 | 37°09′ | 004 | 36°43′ | 073 | 43°58′ | 115 | 14°55′ | 168 | 33°32′ | 200 | 26°41′ | 246 | 45°02′ | 301 |
| 161 | 37 13 | 003 | 37 40 | 073 | 44 52 | 116 | 15 07 | 168 | 33 12 | 200 | 25 47 | 246 | 44 11 | 301 |
| 162 | 37 16 | 003 | 38 37 | 073 | 45 45 | 116 | 15 19 | 169 | 32 51 | 201 | 24 53 | 247 | 43 20 | 300 |
| 163 | 37 18 | 002 | 39 33 | 073 | 46 38 | 117 | 15 30 | 169 | 32 29 | 202 | 23 58 | 247 | 42 28 | 300 |
| 164 | 37 20 | 001 | 40 30 | 073 | 47 30 | 118 | 15 41 | 169 | 32 07 | 203 | 23 04 | 247 | 41 37 | 300 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 37°21′ | 001 | 41°26′ | 072 | 48°23′ | 118 | 15°52′ | 170 | 31°43′ | 203 | 40°21′ | 269 | 40°45′ | 299 |
| 166 | 37 21 | 000 | 42 23 | 072 | 49 15 | 119 | 16 02 | 170 | 31 19 | 204 | 39 22 | 269 | 39 54 | 299 |
| 167 | 37 21 | 000 | 43 19 | 072 | 50 06 | 120 | 16 12 | 171 | 30 55 | 205 | 38 23 | 269 | 39 02 | 299 |
| 168 | 37 20 | 359 | 44 16 | 072 | 50 57 | 121 | 16 21 | 171 | 30 30 | 206 | 37 23 | 270 | 38 10 | 299 |
| 169 | 37 19 | 358 | 45 12 | 072 | 51 48 | 121 | 16 30 | 172 | 30 04 | 206 | 36 24 | 270 | 37 18 | 298 |
| 170 | 37°17′ | 358 | 46°08′ | 072 | 52°38′ | 122 | 16°38′ | 172 | 29°37′ | 207 | 35°25′ | 270 | 36°26′ | 298 |
| 171 | 37 14 | 357 | 47 05 | 072 | 53 28 | 123 | 16 46 | 173 | 29 10 | 208 | 34 26 | 270 | 35 33 | 298 |
| 172 | 37 11 | 357 | 48 01 | 071 | 54 18 | 124 | 16 53 | 173 | 28 42 | 208 | 33 26 | 270 | 34 41 | 298 |
| 173 | 37 07 | 356 | 48 57 | 071 | 55 07 | 125 | 17 00 | 173 | 28 14 | 209 | 32 27 | 270 | 33 49 | 298 |
| 174 | 37 03 | 355 | 49 53 | 071 | 55 55 | 126 | 17 07 | 174 | 27 45 | 209 | 31 28 | 271 | 32 56 | 298 |
| 175 | 36°58′ | 355 | 50°49′ | 071 | 56°43′ | 127 | 17°13′ | 174 | 27°16′ | 210 | 30°29′ | 271 | 32°04′ | 297 |
| 176 | 36 52 | 354 | 51 45 | 071 | 57 30 | 128 | 17 18 | 175 | 26 46 | 211 | 29 29 | 271 | 31 11 | 297 |
| 177 | 36 46 | 354 | 52 41 | 070 | 58 16 | 129 | 17 23 | 175 | 26 16 | 211 | 28 30 | 271 | 30 18 | 297 |
| 178 | 36 39 | 353 | 53 36 | 070 | 59 01 | 130 | 17 28 | 176 | 25 45 | 212 | 27 31 | 271 | 29 26 | 297 |
| 179 | 36 31 | 352 | 54 32 | 070 | 59 46 | 132 | 17 32 | 176 | 25 13 | 212 | 26 31 | 271 | 28 33 | 297 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | | ANTARES | | RIGIL KENT | | ✦ACRUX | | Suhail | | ✦REGULUS | | Dubhe | |
| 180 | 55°27′ | 069 | 15°27′ | 121 | 13°17′ | 161 | 17°36′ | 177 | 24°41′ | 213 | 62°40′ | 278 | 36°23′ | 352 |
| 181 | 56 23 | 069 | 16 18 | 121 | 13 36 | 162 | 17 39 | 177 | 24 09 | 213 | 61 42 | 278 | 36 15 | 351 |
| 182 | 57 18 | 069 | 17 09 | 121 | 13 55 | 162 | 17 42 | 178 | 23 36 | 214 | 60 43 | 278 | 36 06 | 351 |
| 183 | 58 13 | 068 | 17 59 | 122 | 14 13 | 162 | 17 44 | 178 | 23 03 | 214 | 59 44 | 278 | 35 56 | 350 |
| 184 | 59 08 | 068 | 18 49 | 122 | 14 31 | 163 | 17 45 | 179 | 22 29 | 215 | 58 46 | 278 | 35 46 | 350 |
| 185 | 60°03′ | 067 | 19°39′ | 122 | 14°48′ | 163 | 17°47′ | 179 | 21°55′ | 215 | 57°47′ | 278 | 35°35′ | 349 |
| 186 | 60 57 | 067 | 20 29 | 123 | 15 05 | 164 | 17 47 | 180 | 21 20 | 216 | 56 48 | 278 | 35 23 | 349 |
| 187 | 61 52 | 066 | 21 19 | 123 | 15 22 | 164 | 17 48 | 180 | 20 46 | 216 | 55 50 | 278 | 35 11 | 348 |
| 188 | 62 46 | 065 | 22 09 | 123 | 15 38 | 164 | 17 47 | 181 | 20 10 | 217 | 54 51 | 278 | 34 59 | 348 |
| 189 | 63 39 | 065 | 22 58 | 124 | 15 53 | 165 | 17 46 | 181 | 19 35 | 217 | 53 52 | 278 | 34 46 | 347 |
| 190 | 64°33′ | 064 | 23°47′ | 124 | 16°09′ | 165 | 17°45′ | 181 | 18°59′ | 218 | 52°54′ | 278 | 34°32′ | 347 |
| 191 | 65 26 | 063 | 24 36 | 125 | 16 24 | 166 | 17 43 | 182 | 18 22 | 218 | 51 55 | 278 | 34 18 | 346 |
| 192 | 66 19 | 062 | 25 25 | 125 | 16 38 | 166 | 17 41 | 182 | 17 45 | 218 | 50 56 | 278 | 34 04 | 346 |
| 193 | 67 11 | 062 | 26 13 | 126 | 16 52 | 167 | 17 39 | 183 | 17 08 | 219 | 49 57 | 278 | 33 49 | 345 |
| 194 | 68 03 | 061 | 27 01 | 126 | 17 06 | 167 | 17 35 | 183 | 16 31 | 219 | 48 59 | 278 | 33 33 | 345 |
| | ✦Alphecca | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 195 | 49°14′ | 059 | 22°20′ | 080 | 27°49′ | 126 | 17°19′ | 167 | 17°32′ | 184 | 48°00′ | 278 | 33°17′ | 344 |
| 196 | 50 05 | 059 | 23 19 | 080 | 28 36 | 127 | 17 31 | 168 | 17 27 | 184 | 47 01 | 278 | 33 01 | 344 |
| 197 | 50 55 | 058 | 24 17 | 080 | 29 24 | 127 | 17 44 | 168 | 17 23 | 185 | 46 03 | 278 | 32 44 | 343 |
| 198 | 51 46 | 058 | 25 16 | 080 | 30 10 | 128 | 17 55 | 169 | 17 18 | 185 | 45 04 | 278 | 32 27 | 343 |
| 199 | 52 36 | 057 | 26 14 | 080 | 30 57 | 128 | 18 06 | 169 | 17 12 | 186 | 44 05 | 278 | 32 09 | 342 |
| 200 | 53°25′ | 057 | 27°12′ | 080 | 31°43′ | 129 | 18°17′ | 170 | 17°06′ | 186 | 43°06′ | 278 | 31°51′ | 342 |
| 201 | 54 15 | 056 | 28 11 | 081 | 32 29 | 129 | 18 27 | 170 | 16 59 | 187 | 42 08 | 278 | 31 32 | 341 |
| 202 | 55 04 | 056 | 29 09 | 081 | 33 15 | 130 | 18 37 | 171 | 16 52 | 187 | 41 09 | 278 | 31 13 | 341 |
| 203 | 55 52 | 055 | 30 08 | 081 | 34 00 | 131 | 18 46 | 171 | 16 45 | 187 | 40 10 | 278 | 30 54 | 341 |
| 204 | 56 41 | 054 | 31 06 | 081 | 34 45 | 131 | 18 55 | 172 | 16 37 | 188 | 39 12 | 278 | 30 34 | 340 |
| 205 | 57°28′ | 053 | 32°05′ | 081 | 35°29′ | 132 | 19°04′ | 172 | 16°29′ | 188 | 38°13′ | 278 | 30°14′ | 340 |
| 206 | 58 16 | 053 | 33 03 | 081 | 36 13 | 132 | 19 11 | 173 | 16 20 | 189 | 37 14 | 278 | 29 53 | 339 |
| 207 | 59 03 | 052 | 34 02 | 081 | 36 57 | 133 | 19 19 | 173 | 16 10 | 189 | 36 16 | 278 | 29 32 | 339 |
| 208 | 59 49 | 051 | 35 00 | 081 | 37 40 | 134 | 19 25 | 174 | 16 01 | 190 | 35 17 | 278 | 29 11 | 339 |
| 209 | 60 34 | 050 | 35 59 | 081 | 38 22 | 135 | 19 31 | 174 | 15 50 | 190 | 34 18 | 278 | 28 49 | 338 |
| | ✦VEGA | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | SPICA | | ✦REGULUS | | Dubhe | |
| 210 | 21°39′ | 052 | 36°57′ | 081 | 39°04′ | 135 | 19°37′ | 175 | 68°04′ | 203 | 33°20′ | 278 | 28°27′ | 338 |
| 211 | 22 25 | 052 | 37 56 | 081 | 39 46 | 136 | 19 42 | 175 | 67 40 | 205 | 32 21 | 278 | 28 05 | 338 |
| 212 | 23 11 | 052 | 38 54 | 081 | 40 26 | 137 | 19 47 | 176 | 67 14 | 207 | 31 22 | 278 | 27 42 | 337 |
| 213 | 23 58 | 051 | 39 53 | 081 | 41 07 | 138 | 19 51 | 176 | 66 46 | 210 | 30 24 | 279 | 27 19 | 337 |
| 214 | 24 44 | 051 | 40 51 | 081 | 41 46 | 138 | 19 55 | 177 | 66 15 | 212 | 29 25 | 279 | 26 56 | 337 |
| 215 | 25°30′ | 051 | 41°50′ | 081 | 42°26′ | 139 | 19°58′ | 177 | 65°43′ | 214 | 28°27′ | 279 | 26°32′ | 336 |
| 216 | 26 16 | 051 | 42 49 | 081 | 43 04 | 140 | 20 00 | 178 | 65 10 | 216 | 27 28 | 279 | 26 09 | 336 |
| 217 | 27 02 | 051 | 43 47 | 081 | 43 42 | 141 | 20 02 | 178 | 64 34 | 217 | 26 30 | 279 | 25 45 | 336 |
| 218 | 27 48 | 051 | 44 46 | 081 | 44 19 | 142 | 20 04 | 179 | 63 58 | 219 | 25 31 | 279 | 25 20 | 336 |
| 219 | 28 34 | 050 | 45 44 | 081 | 44 55 | 143 | 20 05 | 179 | 63 20 | 221 | 24 32 | 279 | 24 56 | 335 |
| 220 | 29°20′ | 050 | 46°43′ | 081 | 45°31′ | 144 | 20°05′ | 180 | 62°40′ | 223 | 23°34′ | 279 | 24°31′ | 335 |
| 221 | 30 05 | 050 | 47 41 | 081 | 46 05 | 145 | 20 05 | 180 | 61 59 | 224 | 22 35 | 279 | 24 06 | 335 |
| 222 | 30 51 | 050 | 48 40 | 081 | 46 39 | 146 | 20 04 | 181 | 61 18 | 225 | 21 37 | 279 | 23 40 | 335 |
| 223 | 31 36 | 050 | 49 39 | 081 | 47 12 | 147 | 20 03 | 181 | 60 35 | 227 | 20 38 | 279 | 23 15 | 334 |
| 224 | 32 21 | 049 | 50 37 | 081 | 47 44 | 148 | 20 01 | 182 | 59 51 | 228 | 19 40 | 279 | 22 49 | 334 |
| | VEGA | | ✦ALTAIR | | Nunki | | ANTARES | | RIGIL KENT | | ✦SPICA | | ✦Alkaid | |
| 225 | 33°06′ | 049 | 18°06′ | 083 | 22°40′ | 123 | 48°16′ | 149 | 19°59′ | 182 | 59°07′ | 229 | 47°05′ | 343 |
| 226 | 33 51 | 049 | 19 05 | 084 | 23 29 | 124 | 48 46 | 150 | 19 56 | 183 | 58 21 | 231 | 46 47 | 342 |
| 227 | 34 35 | 049 | 20 03 | 084 | 24 18 | 124 | 49 15 | 151 | 19 53 | 183 | 57 35 | 232 | 46 28 | 341 |
| 228 | 35 20 | 048 | 21 02 | 084 | 25 07 | 125 | 49 43 | 152 | 19 49 | 184 | 56 48 | 233 | 46 09 | 340 |
| 229 | 36 04 | 048 | 22 01 | 084 | 25 56 | 125 | 50 10 | 153 | 19 45 | 185 | 56 00 | 234 | 45 48 | 340 |
| 230 | 36°48′ | 048 | 23°00′ | 084 | 26°44′ | 126 | 50°36′ | 155 | 19°40′ | 185 | 55°12′ | 235 | 45°27′ | 339 |
| 231 | 37 31 | 047 | 23 59 | 084 | 27 32 | 126 | 51 01 | 156 | 19 34 | 186 | 54 23 | 236 | 45 05 | 338 |
| 232 | 38 15 | 047 | 24 58 | 084 | 28 20 | 126 | 51 24 | 157 | 19 28 | 186 | 53 34 | 237 | 44 43 | 337 |
| 233 | 38 58 | 047 | 25 57 | 084 | 29 07 | 127 | 51 47 | 159 | 19 22 | 187 | 52 44 | 238 | 44 19 | 336 |
| 234 | 39 41 | 046 | 26 56 | 085 | 29 55 | 127 | 52 08 | 160 | 19 15 | 187 | 51 54 | 239 | 43 55 | 336 |
| 235 | 40°23′ | 046 | 27°55′ | 085 | 30°41′ | 128 | 52°27′ | 161 | 19°07′ | 188 | 51°03′ | 239 | 43°31′ | 335 |
| 236 | 41 06 | 045 | 28 54 | 085 | 31 28 | 128 | 52 46 | 163 | 18 59 | 188 | 50 12 | 240 | 43 05 | 334 |
| 237 | 41 47 | 045 | 29 53 | 085 | 32 14 | 129 | 53 03 | 164 | 18 51 | 189 | 49 21 | 241 | 42 39 | 334 |
| 238 | 42 29 | 044 | 30 52 | 085 | 33 00 | 130 | 53 18 | 165 | 18 42 | 189 | 48 29 | 241 | 42 13 | 333 |
| 239 | 43 10 | 044 | 31 51 | 085 | 33 46 | 130 | 53 33 | 167 | 18 32 | 189 | 47 36 | 242 | 41 46 | 332 |
| | ✦VEGA | | ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ✦ARCTURUS | | Alkaid | |
| 240 | 43°51′ | 043 | 32°50′ | 085 | 34°31′ | 131 | 53°45′ | 168 | 46°44′ | 243 | 63°01′ | 295 | 41°18′ | 332 |
| 241 | 44 32 | 043 | 33 49 | 085 | 35 15 | 131 | 53 57 | 170 | 45 51 | 243 | 62 07 | 294 | 40 50 | 331 |
| 242 | 45 12 | 042 | 34 48 | 085 | 36 00 | 132 | 54 06 | 171 | 44 58 | 244 | 61 12 | 294 | 40 21 | 331 |
| 243 | 45 51 | 042 | 35 47 | 085 | 36 43 | 133 | 54 14 | 173 | 44 04 | 245 | 60 18 | 293 | 39 52 | 330 |
| 244 | 46 30 | 041 | 36 46 | 086 | 37 27 | 133 | 54 21 | 174 | 43 11 | 245 | 59 23 | 292 | 39 22 | 329 |
| 245 | 47°09′ | 040 | 37°46′ | 086 | 38°10′ | 134 | 54°26′ | 176 | 42°17′ | 246 | 58°28′ | 292 | 38°51′ | 329 |
| 246 | 47 47 | 040 | 38 45 | 086 | 38 52 | 135 | 54 29 | 177 | 41 23 | 246 | 57 33 | 292 | 38 21 | 328 |
| 247 | 48 25 | 039 | 39 44 | 086 | 39 34 | 135 | 54 31 | 179 | 40 28 | 247 | 56 38 | 291 | 37 49 | 328 |
| 248 | 49 02 | 038 | 40 43 | 086 | 40 15 | 136 | 54 31 | 181 | 39 34 | 247 | 55 43 | 291 | 37 18 | 327 |
| 249 | 49 38 | 038 | 41 42 | 086 | 40 56 | 137 | 54 30 | 182 | 38 39 | 248 | 54 47 | 290 | 36 46 | 327 |
| 250 | 50°14′ | 037 | 42°41′ | 086 | 41°36′ | 138 | 54°27′ | 184 | 37°44′ | 248 | 53°52′ | 290 | 36°13′ | 327 |
| 251 | 50 49 | 036 | 43 40 | 086 | 42 16 | 139 | 54 23 | 185 | 36 49 | 249 | 52 56 | 290 | 35 40 | 326 |
| 252 | 51 23 | 035 | 44 39 | 086 | 42 55 | 139 | 54 17 | 187 | 35 54 | 249 | 52 00 | 290 | 35 07 | 326 |
| 253 | 51 57 | 034 | 45 39 | 086 | 43 33 | 140 | 54 09 | 188 | 34 59 | 249 | 51 05 | 289 | 34 34 | 325 |
| 254 | 52 30 | 033 | 46 38 | 087 | 44 10 | 141 | 54 00 | 190 | 34 03 | 250 | 50 09 | 289 | 34 00 | 325 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ARCTURUS | | ✦Alkaid | |
| 255 | 53°02′ | 032 | 47°37′ | 087 | 44°47′ | 142 | 53°49′ | 191 | 33°07′ | 250 | 49°13′ | 289 | 33°25′ | 324 |
| 256 | 53 33 | 031 | 48 36 | 087 | 45 23 | 143 | 53 37 | 193 | 32 11 | 251 | 48 16 | 289 | 32 51 | 324 |
| 257 | 54 04 | 030 | 49 35 | 087 | 45 59 | 144 | 53 23 | 194 | 31 16 | 251 | 47 20 | 288 | 32 16 | 324 |
| 258 | 54 33 | 029 | 50 34 | 087 | 46 33 | 145 | 53 08 | 196 | 30 20 | 251 | 46 24 | 288 | 31 41 | 323 |
| 259 | 55 02 | 028 | 51 33 | 087 | 47 07 | 146 | 52 51 | 197 | 29 23 | 252 | 45 28 | 288 | 31 05 | 323 |
| 260 | 55°29′ | 027 | 52°33′ | 087 | 47°39′ | 147 | 52°33′ | 198 | 28°27′ | 252 | 44°31′ | 288 | 30°30′ | 323 |
| 261 | 55 56 | 026 | 53 32 | 087 | 48 11 | 148 | 52 14 | 200 | 27 31 | 252 | 43 35 | 288 | 29 54 | 322 |
| 262 | 56 21 | 025 | 54 31 | 087 | 48 42 | 149 | 51 53 | 201 | 26 34 | 253 | 42 38 | 288 | 29 17 | 322 |
| 263 | 56 46 | 024 | 55 30 | 087 | 49 12 | 150 | 51 31 | 202 | 25 38 | 253 | 41 42 | 288 | 28 41 | 322 |
| 264 | 57 09 | 022 | 56 29 | 087 | 49 40 | 152 | 51 08 | 204 | 24 41 | 253 | 40 46 | 287 | 28 04 | 322 |
| 265 | 57°31′ | 021 | 57°29′ | 087 | 50°08′ | 153 | 50°44′ | 205 | 23°44′ | 253 | 39°49′ | 287 | 27°27′ | 321 |
| 266 | 57 52 | 020 | 58 28 | 088 | 50 35 | 154 | 50 18 | 206 | 22 47 | 254 | 38 52 | 287 | 26 50 | 321 |
| 267 | 58 11 | 019 | 59 27 | 088 | 51 00 | 155 | 49 52 | 207 | 21 50 | 254 | 37 56 | 287 | 26 13 | 321 |
| 268 | 58 29 | 017 | 60 26 | 088 | 51 25 | 156 | 49 24 | 209 | 20 53 | 254 | 36 59 | 287 | 25 36 | 321 |
| 269 | 58 46 | 016 | 61 25 | 088 | 51 48 | 158 | 48 55 | 210 | 19 56 | 254 | 36 03 | 287 | 24 58 | 321 |

LAT 9°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEGA | | ✦DENEB | | Enif | | ✦Nunki | | Shaula | | ANTARES | | ✦ARCTURUS | |
| 270 | 59°02′ | 014 | 39°43′ | 036 | 34°32′ | 084 | 52°09′ | 159 | 43°31′ | 187 | 48°25′ | 211 | 35°06′ | 287 |
| 271 | 59 15 | 013 | 40 17 | 036 | 35 31 | 084 | 52 30 | 160 | 43 23 | 188 | 47 54 | 212 | 34 09 | 287 |
| 272 | 59 28 | 011 | 40 52 | 035 | 36 30 | 084 | 52 49 | 162 | 43 14 | 189 | 47 22 | 213 | 33 13 | 287 |
| 273 | 59 39 | 010 | 41 26 | 035 | 37 29 | 084 | 53 07 | 163 | 43 04 | 190 | 46 50 | 214 | 32 16 | 287 |
| 274 | 59 48 | 008 | 42 00 | 034 | 38 28 | 084 | 53 23 | 165 | 42 53 | 191 | 46 16 | 215 | 31 19 | 287 |
| 275 | 59°56′ | 007 | 42°33′ | 034 | 39°27′ | 084 | 53°38′ | 166 | 42°41′ | 192 | 45°41′ | 216 | 30°23′ | 287 |
| 276 | 60 02 | 005 | 43 05 | 033 | 40 26 | 085 | 53 51 | 168 | 42 28 | 193 | 45 06 | 217 | 29 26 | 287 |
| 277 | 60 07 | 004 | 43 37 | 032 | 41 25 | 085 | 54 03 | 169 | 42 14 | 194 | 44 30 | 218 | 28 29 | 287 |
| 278 | 60 10 | 002 | 44 09 | 032 | 42 24 | 085 | 54 14 | 171 | 41 59 | 195 | 43 53 | 219 | 27 32 | 287 |
| 279 | 60 12 | 001 | 44 40 | 031 | 43 23 | 085 | 54 23 | 172 | 41 43 | 196 | 43 16 | 220 | 26 36 | 287 |
| 280 | 60°12′ | 359 | 45°10′ | 030 | 44°22′ | 085 | 54°30′ | 174 | 41°26′ | 197 | 42°38′ | 221 | 25°39′ | 287 |
| 281 | 60 10 | 357 | 45 40 | 030 | 45 21 | 085 | 54 36 | 175 | 41 08 | 198 | 41 59 | 221 | 24 42 | 287 |
| 282 | 60 06 | 356 | 46 09 | 029 | 46 20 | 085 | 54 40 | 177 | 40 48 | 199 | 41 19 | 222 | 23 46 | 287 |
| 283 | 60 01 | 354 | 46 37 | 028 | 47 19 | 085 | 54 43 | 178 | 40 28 | 200 | 40 39 | 223 | 22 49 | 287 |
| 284 | 59 55 | 353 | 47 05 | 027 | 48 18 | 085 | 54 44 | 180 | 40 08 | 201 | 39 58 | 224 | 21 52 | 287 |
| | DENEB | | ✦Alpheratz | | FOMALHAUT | | ✦Nunki | | ANTARES | | ✦Rasalhague | | VEGA | |
| 285 | 47°32′ | 027 | 15°22′ | 062 | 20°54′ | 126 | 54°43′ | 181 | 39°17′ | 225 | 69°02′ | 282 | 59°47′ | 351 |
| 286 | 47 58 | 026 | 16 15 | 062 | 21 42 | 127 | 54 41 | 183 | 38 35 | 225 | 68 04 | 281 | 59 37 | 350 |
| 287 | 48 23 | 025 | 17 07 | 062 | 22 29 | 127 | 54 37 | 184 | 37 53 | 226 | 67 06 | 281 | 59 26 | 348 |
| 288 | 48 48 | 024 | 17 59 | 062 | 23 16 | 128 | 54 32 | 186 | 37 10 | 227 | 66 08 | 281 | 59 13 | 347 |
| 289 | 49 12 | 023 | 18 52 | 062 | 24 03 | 128 | 54 25 | 188 | 36 27 | 227 | 65 10 | 280 | 58 59 | 345 |
| 290 | 49°35′ | 022 | 19°44′ | 062 | 24°49′ | 129 | 54°16′ | 189 | 35°43′ | 228 | 64°11′ | 280 | 58°43′ | 344 |
| 291 | 49 57 | 021 | 20 37 | 062 | 25 36 | 129 | 54 06 | 191 | 34 58 | 229 | 63 13 | 280 | 58 26 | 343 |
| 292 | 50 18 | 020 | 21 29 | 062 | 26 21 | 129 | 53 55 | 192 | 34 14 | 229 | 62 15 | 280 | 58 08 | 341 |
| 293 | 50 38 | 019 | 22 21 | 062 | 27 07 | 130 | 53 41 | 194 | 33 29 | 230 | 61 16 | 280 | 57 48 | 340 |
| 294 | 50 58 | 019 | 23 14 | 062 | 27 52 | 130 | 53 27 | 195 | 32 43 | 230 | 60 18 | 280 | 57 27 | 339 |
| 295 | 51°16′ | 017 | 24°06′ | 062 | 28°37′ | 131 | 53°11′ | 196 | 31°58′ | 231 | 59°19′ | 279 | 57°05′ | 337 |
| 296 | 51 33 | 016 | 24 58 | 062 | 29 22 | 131 | 52 53 | 198 | 31 11 | 231 | 58 21 | 279 | 56 41 | 336 |
| 297 | 51 50 | 015 | 25 50 | 062 | 30 06 | 132 | 52 35 | 199 | 30 25 | 232 | 57 22 | 279 | 56 16 | 335 |
| 298 | 52 05 | 014 | 26 43 | 062 | 30 50 | 132 | 52 14 | 201 | 29 38 | 232 | 56 24 | 279 | 55 51 | 334 |
| 299 | 52 19 | 013 | 27 35 | 062 | 31 34 | 133 | 51 53 | 202 | 28 51 | 233 | 55 25 | 279 | 55 24 | 333 |
| | ✦DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | VEGA | |
| 300 | 52°32′ | 012 | 28°27′ | 062 | 32°17′ | 134 | 24°05′ | 176 | 28°03′ | 233 | 54°27′ | 279 | 54°56′ | 331 |
| 301 | 52 44 | 011 | 29 19 | 061 | 32 59 | 134 | 24 09 | 177 | 27 16 | 234 | 53 28 | 279 | 54 27 | 330 |
| 302 | 52 55 | 010 | 30 11 | 061 | 33 42 | 135 | 24 13 | 177 | 26 28 | 234 | 52 30 | 279 | 53 58 | 329 |
| 303 | 53 04 | 009 | 31 03 | 061 | 34 23 | 135 | 24 15 | 178 | 25 39 | 235 | 51 31 | 279 | 53 27 | 328 |
| 304 | 53 13 | 008 | 31 55 | 061 | 35 05 | 136 | 24 17 | 178 | 24 51 | 235 | 50 33 | 279 | 52 56 | 327 |
| 305 | 53°20′ | 007 | 32°47′ | 061 | 35°46′ | 137 | 24°19′ | 179 | 24°02′ | 236 | 49°34′ | 279 | 52°23′ | 327 |
| 306 | 53 26 | 005 | 33 39 | 061 | 36 26 | 137 | 24 20 | 180 | 23 13 | 236 | 48 36 | 279 | 51 50 | 326 |
| 307 | 53 31 | 004 | 34 30 | 061 | 37 06 | 138 | 24 20 | 180 | 22 24 | 236 | 47 37 | 279 | 51 16 | 325 |
| 308 | 53 35 | 003 | 35 22 | 060 | 37 45 | 139 | 24 19 | 181 | 21 34 | 237 | 46 38 | 279 | 50 42 | 324 |
| 309 | 53 37 | 002 | 36 13 | 060 | 38 24 | 140 | 24 18 | 181 | 20 45 | 237 | 45 40 | 279 | 50 07 | 323 |
| 310 | 53°39′ | 001 | 37°05′ | 060 | 39°02′ | 140 | 24°17′ | 182 | 19°55′ | 237 | 44°41′ | 279 | 49°31′ | 322 |
| 311 | 53 39 | 359 | 37 56 | 060 | 39 39 | 141 | 24 14 | 183 | 19 05 | 238 | 43 43 | 279 | 48 54 | 322 |
| 312 | 53 38 | 358 | 38 47 | 060 | 40 16 | 142 | 24 11 | 183 | 18 15 | 238 | 42 44 | 279 | 48 17 | 321 |
| 313 | 53 35 | 357 | 39 38 | 059 | 40 52 | 143 | 24 08 | 184 | 17 24 | 238 | 41 46 | 279 | 47 40 | 320 |
| 314 | 53 32 | 356 | 40 29 | 059 | 41 28 | 144 | 24 04 | 184 | 16 33 | 239 | 40 47 | 279 | 47 01 | 320 |
| | Alpheratz | | ✦Diphda | | FOMALHAUT | | ✦Nunki | | Rasalhague | | VEGA | | ✦DENEB | |
| 315 | 41°20′ | 059 | 28°24′ | 116 | 42°02′ | 145 | 43°42′ | 220 | 39°48′ | 279 | 46°23′ | 319 | 53°27′ | 355 |
| 316 | 42 11 | 058 | 29 17 | 116 | 42 36 | 145 | 43 04 | 220 | 38 50 | 279 | 45 43 | 318 | 53 21 | 354 |
| 317 | 43 01 | 058 | 30 10 | 117 | 43 10 | 146 | 42 25 | 221 | 37 51 | 279 | 45 04 | 318 | 53 13 | 352 |
| 318 | 43 51 | 058 | 31 03 | 117 | 43 42 | 147 | 41 46 | 222 | 36 53 | 279 | 44 24 | 317 | 53 05 | 351 |
| 319 | 44 41 | 057 | 31 56 | 118 | 44 14 | 148 | 41 06 | 223 | 35 54 | 279 | 43 43 | 317 | 52 55 | 350 |
| 320 | 45°31′ | 057 | 32°48′ | 118 | 44°44′ | 149 | 40°25′ | 224 | 34°56′ | 279 | 43°02′ | 316 | 52°45′ | 349 |
| 321 | 46 21 | 057 | 33 40 | 119 | 45 14 | 150 | 39 44 | 224 | 33 57 | 279 | 42 21 | 316 | 52 33 | 348 |
| 322 | 47 10 | 056 | 34 32 | 119 | 45 43 | 151 | 39 02 | 225 | 32 59 | 279 | 41 39 | 315 | 52 20 | 347 |
| 323 | 47 59 | 056 | 35 24 | 120 | 46 11 | 152 | 38 20 | 226 | 32 00 | 279 | 40 57 | 315 | 52 06 | 346 |
| 324 | 48 48 | 055 | 36 15 | 120 | 46 38 | 153 | 37 37 | 227 | 31 02 | 279 | 40 15 | 314 | 51 50 | 345 |
| 325 | 49°37′ | 055 | 37°06′ | 121 | 47°04′ | 155 | 36°54′ | 227 | 30°03′ | 279 | 39°32′ | 314 | 51°34′ | 344 |
| 326 | 50 25 | 054 | 37 57 | 121 | 47 29 | 156 | 36 10 | 228 | 29 05 | 279 | 38 49 | 313 | 51 17 | 343 |
| 327 | 51 13 | 054 | 38 48 | 122 | 47 53 | 157 | 35 26 | 228 | 28 06 | 279 | 38 06 | 313 | 50 59 | 342 |
| 328 | 52 01 | 053 | 39 38 | 122 | 48 16 | 158 | 34 42 | 229 | 27 08 | 280 | 37 23 | 313 | 50 39 | 341 |
| 329 | 52 48 | 053 | 40 28 | 123 | 48 38 | 159 | 33 57 | 230 | 26 09 | 280 | 36 39 | 312 | 50 19 | 340 |
| | ✦Alpheratz | | Diphda | | ✦FOMALHAUT | | Peacock | | ALTAIR | | ✦VEGA | | DENEB | |
| 330 | 53°35′ | 052 | 41°17′ | 124 | 48°58′ | 160 | 21°36′ | 193 | 58°20′ | 272 | 35°55′ | 312 | 49°58′ | 339 |
| 331 | 54 21 | 051 | 42 06 | 124 | 49 17 | 162 | 21 22 | 194 | 57 21 | 273 | 35 11 | 312 | 49 36 | 338 |
| 332 | 55 07 | 050 | 42 55 | 125 | 49 36 | 163 | 21 07 | 195 | 56 22 | 273 | 34 26 | 311 | 49 13 | 337 |
| 333 | 55 52 | 050 | 43 44 | 126 | 49 52 | 164 | 20 52 | 195 | 55 23 | 273 | 33 42 | 311 | 48 49 | 336 |
| 334 | 56 37 | 049 | 44 32 | 126 | 50 08 | 165 | 20 36 | 196 | 54 23 | 273 | 32 57 | 311 | 48 25 | 335 |
| 335 | 57°22′ | 048 | 45°19′ | 127 | 50°22′ | 167 | 20°20′ | 196 | 53°24′ | 273 | 32°12′ | 311 | 47°59′ | 334 |
| 336 | 58 06 | 047 | 46 06 | 128 | 50 35 | 168 | 20 04 | 197 | 52 25 | 273 | 31 27 | 310 | 47 33 | 333 |
| 337 | 58 49 | 046 | 46 53 | 129 | 50 47 | 169 | 19 46 | 197 | 51 26 | 273 | 30 42 | 310 | 47 06 | 333 |
| 338 | 59 31 | 045 | 47 39 | 129 | 50 57 | 171 | 19 29 | 198 | 50 27 | 273 | 29 56 | 310 | 46 39 | 332 |
| 339 | 60 13 | 044 | 48 24 | 130 | 51 06 | 172 | 19 11 | 198 | 49 28 | 273 | 29 11 | 310 | 46 10 | 331 |
| 340 | 60°54′ | 043 | 49°09′ | 131 | 51°13′ | 173 | 18°52′ | 199 | 48°28′ | 273 | 28°25′ | 309 | 45°41′ | 330 |
| 341 | 61 34 | 042 | 49 54 | 132 | 51 19 | 175 | 18 33 | 199 | 47 29 | 273 | 27 39 | 309 | 45 12 | 330 |
| 342 | 62 13 | 041 | 50 37 | 133 | 51 24 | 176 | 18 13 | 199 | 46 30 | 274 | 26 53 | 309 | 44 41 | 329 |
| 343 | 62 51 | 039 | 51 20 | 134 | 51 27 | 178 | 17 53 | 200 | 45 31 | 274 | 26 07 | 309 | 44 11 | 328 |
| 344 | 63 28 | 038 | 52 02 | 135 | 51 29 | 179 | 17 33 | 200 | 44 32 | 274 | 25 21 | 309 | 43 39 | 328 |
| | ✦Mirfak | | Hamal | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 345 | 21°57′ | 040 | 42°47′ | 066 | 16°11′ | 137 | 16°21′ | 159 | 51°29′ | 180 | 43°33′ | 274 | 43°07′ | 327 |
| 346 | 22 35 | 039 | 43 41 | 066 | 16 52 | 137 | 16 42 | 159 | 51 28 | 182 | 42 34 | 274 | 42 34 | 326 |
| 347 | 23 13 | 039 | 44 35 | 066 | 17 32 | 137 | 17 03 | 160 | 51 25 | 183 | 41 34 | 274 | 42 01 | 326 |
| 348 | 23 50 | 039 | 45 29 | 065 | 18 12 | 138 | 17 23 | 160 | 51 21 | 185 | 40 35 | 274 | 41 28 | 325 |
| 349 | 24 27 | 039 | 46 23 | 065 | 18 52 | 138 | 17 43 | 161 | 51 16 | 186 | 39 36 | 274 | 40 54 | 325 |
| 350 | 25°04′ | 039 | 47°16′ | 065 | 19°31′ | 139 | 18°02′ | 161 | 51°09′ | 187 | 38°37′ | 274 | 40°19′ | 324 |
| 351 | 25 41 | 038 | 48 10 | 065 | 20 10 | 139 | 18 21 | 162 | 51 00 | 189 | 37 38 | 274 | 39 44 | 324 |
| 352 | 26 18 | 038 | 49 03 | 064 | 20 49 | 139 | 18 40 | 162 | 50 51 | 190 | 36 39 | 274 | 39 09 | 323 |
| 353 | 26 54 | 038 | 49 57 | 064 | 21 27 | 140 | 18 58 | 162 | 50 39 | 191 | 35 40 | 275 | 38 33 | 323 |
| 354 | 27 31 | 038 | 50 50 | 064 | 22 05 | 140 | 19 16 | 163 | 50 27 | 193 | 34 41 | 275 | 37 57 | 322 |
| 355 | 28°07′ | 037 | 51°43′ | 063 | 22°43′ | 141 | 19°33′ | 163 | 50°13′ | 194 | 33°42′ | 275 | 37°21′ | 322 |
| 356 | 28 43 | 037 | 52 36 | 063 | 23 20 | 141 | 19 49 | 164 | 49 58 | 195 | 32 43 | 275 | 36 44 | 321 |
| 357 | 29 19 | 037 | 53 28 | 062 | 23 57 | 142 | 20 05 | 164 | 49 42 | 197 | 31 44 | 275 | 36 06 | 321 |
| 358 | 29 54 | 037 | 54 20 | 062 | 24 34 | 142 | 20 21 | 165 | 49 24 | 198 | 30 45 | 275 | 35 29 | 321 |
| 359 | 30 29 | 036 | 55 12 | 061 | 25 10 | 143 | 20 36 | 165 | 49 05 | 199 | 29 46 | 275 | 34 51 | 320 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦CAPELLA | ALDEBARAN | RIGEL | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 0 | 13°00′044 | 22°04′075 | 9° 45′100 | 21°49′166 | 49°41′201 | 28°41′276 | 33°27′320 |
| 1 | 13 42 044 | 23 02 075 | 10 44 100 | 22 03 166 | 49 20 202 | 27 42 276 | 32 49 320 |
| 2 | 14 24 044 | 23 59 075 | 11 42 100 | 22 17 167 | 48 57 203 | 26 43 276 | 32 10 319 |
| 3 | 15 05 044 | 24 57 075 | 12 41 100 | 22 30 168 | 48 33 204 | 25 43 276 | 31 32 319 |
| 4 | 15 47 044 | 25 54 075 | 13 39 100 | 22 43 168 | 48 08 206 | 24 44 276 | 30 53 319 |
| 5 | 16°28′044 | 26°52′075 | 14°38′101 | 22°55′169 | 47°42′207 | 23°45′276 | 30°13′319 |
| 6 | 17 10 044 | 27 49 075 | 15 36 101 | 23 06 169 | 47 14 208 | 22 46 276 | 29 34 318 |
| 7 | 17 51 044 | 28 47 075 | 16 34 101 | 23 17 170 | 46 46 209 | 21 47 276 | 28 54 318 |
| 8 | 18 32 044 | 29 44 075 | 17 33 101 | 23 27 170 | 46 17 210 | 20 48 277 | 28 15 318 |
| 9 | 19 14 044 | 30 42 075 | 18 31 101 | 23 37 171 | 45 47 211 | 19 49 277 | 27 34 317 |
| 10 | 19°55′044 | 31°39′075 | 19°29′102 | 23°46′171 | 45°16′212 | 18°50′277 | 26°54′317 |
| 11 | 20 36 044 | 32 37 075 | 20 27 102 | 23 55 172 | 44 44 213 | 17 51 277 | 26 14 317 |
| 12 | 21 17 044 | 33 34 075 | 21 25 102 | 24 03 173 | 44 12 214 | 16 52 277 | 25 33 317 |
| 13 | 21 58 043 | 34 32 075 | 22 23 102 | 24 10 173 | 43 38 215 | 15 53 277 | 24 52 317 |
| 14 | 22 38 043 | 35 29 075 | 23 21 103 | 24 17 174 | 43 04 216 | 14 54 277 | 24 12 316 |
| | CAPELLA | ✦ALDEBARAN | RIGEL | ACHERNAR | ✦FOMALHAUT | Enif | ✦DENEB |
| 15 | 23°19′043 | 36°27′075 | 24°19′103 | 24°23′174 | 42°29′217 | 41°53′276 | 23°31′316 |
| 16 | 23 59 043 | 37 24 075 | 25 17 103 | 24 29 175 | 41 53 217 | 40 54 276 | 22 49 316 |
| 17 | 24 40 043 | 38 22 075 | 26 15 103 | 24 34 175 | 41 17 218 | 39 55 276 | 22 08 316 |
| 18 | 25 20 042 | 39 19 075 | 27 13 104 | 24 38 176 | 40 39 219 | 38 56 276 | 21 27 316 |
| 19 | 26 00 042 | 40 17 075 | 28 11 104 | 24 42 177 | 40 02 220 | 37 57 276 | 20 45 316 |
| 20 | 26°40′042 | 41°14′075 | 29°08′104 | 24°45′177 | 39°23′221 | 36°58′276 | 20°04′316 |
| 21 | 27 20 042 | 42 11 075 | 30 06 104 | 24 48 178 | 38 44 221 | 35 59 277 | 19 22 315 |
| 22 | 27 59 042 | 43 09 075 | 31 03 105 | 24 50 178 | 38 05 222 | 35 00 277 | 18 40 315 |
| 23 | 28 39 041 | 44 06 075 | 32 01 105 | 24 51 179 | 37 25 223 | 34 01 277 | 17 58 315 |
| 24 | 29 18 041 | 45 03 075 | 32 58 105 | 24 52 180 | 36 44 223 | 33 02 277 | 17 17 315 |
| 25 | 29°57′041 | 46°01′074 | 33°56′106 | 24°52′180 | 36°03′224 | 32°03′277 | 16°35′315 |
| 26 | 30 35 040 | 46 58 074 | 34 53 106 | 24 51 181 | 35 21 225 | 31 04 277 | 15 53 315 |
| 27 | 31 14 040 | 47 55 074 | 35 50 106 | 24 50 181 | 34 39 225 | 30 05 277 | 15 11 315 |
| 28 | 31 52 040 | 48 52 074 | 36 47 107 | 24 48 182 | 33 57 226 | 29 06 277 | 14 28 315 |
| 29 | 32 30 039 | 49 49 074 | 37 44 107 | 24 46 183 | 33 14 227 | 28 07 277 | 13 46 315 |
| | Mirfak | CAPELLA | ✦ALDEBARAN | RIGEL | ✦ACHERNAR | FOMALHAUT | ✦Alpheratz |
| 30 | 44°25′019 | 33°07′039 | 50°46′074 | 38°41′107 | 24°43′183 | 32°30′227 | 56°28′313 |
| 31 | 44 44 018 | 33 45 039 | 51 43 073 | 39 37 108 | 24 39 184 | 31 47 228 | 55 45 312 |
| 32 | 45 03 018 | 34 22 038 | 52 40 073 | 40 34 108 | 24 35 184 | 31 02 228 | 55 00 311 |
| 33 | 45 20 017 | 34 58 038 | 53 37 073 | 41 30 108 | 24 30 185 | 30 18 229 | 54 15 310 |
| 34 | 45 37 016 | 35 35 038 | 54 34 073 | 42 27 109 | 24 25 186 | 29 33 229 | 53 30 310 |
| 35 | 45°53′015 | 36°11′037 | 55°30′072 | 43°23′109 | 24°18′186 | 28°48′230 | 52°44′309 |
| 36 | 46 08 014 | 36 47 037 | 56 27 072 | 44 19 110 | 24 12 187 | 28 02 230 | 51 57 308 |
| 37 | 46 22 013 | 37 22 036 | 57 23 072 | 45 15 110 | 24 04 187 | 27 16 231 | 51 10 308 |
| 38 | 46 36 013 | 37 57 036 | 58 20 071 | 46 10 111 | 23 57 188 | 26 30 231 | 50 23 307 |
| 39 | 46 48 012 | 38 31 035 | 59 16 071 | 47 06 111 | 23 48 188 | 25 44 232 | 49 36 307 |
| 40 | 47°00′011 | 39°05′035 | 60°12′071 | 48°01′112 | 23°39′189 | 24°57′232 | 48°48′306 |
| 41 | 47 10 010 | 39 39 034 | 61 08 070 | 48 56 112 | 23 29 190 | 24 10 233 | 47 59 305 |
| 42 | 47 20 009 | 40 12 034 | 62 04 070 | 49 51 113 | 23 19 190 | 23 23 233 | 47 11 305 |
| 43 | 47 29 008 | 40 45 033 | 62 59 069 | 50 45 114 | 23 08 191 | 22 35 233 | 46 22 305 |
| 44 | 47 37 007 | 41 17 032 | 63 55 068 | 51 40 114 | 22 57 191 | 21 47 234 | 45 33 304 |
| | ✦CAPELLA | PROCYON | SIRIUS | ✦CANOPUS | ACHERNAR | Diphda | ✦Alpheratz |
| 45 | 41°49′032 | 20°24′087 | 28°54′114 | 15°26′151 | 22°45′192 | 47°43′232 | 44°44′304 |
| 46 | 42 20 031 | 21 23 088 | 29 48 115 | 15 55 151 | 22 33 192 | 46 56 233 | 43 54 303 |
| 47 | 42 50 031 | 22 23 088 | 30 42 115 | 16 23 151 | 22 20 193 | 46 09 234 | 43 04 303 |
| 48 | 43 20 030 | 23 22 088 | 31 36 115 | 16 51 152 | 22 06 193 | 45 21 234 | 42 14 303 |
| 49 | 43 50 029 | 24 21 088 | 32 29 116 | 17 19 152 | 21 52 194 | 44 32 235 | 41 24 302 |
| 50 | 44°18′029 | 25°21′088 | 33°23′116 | 17°47′153 | 21°38′194 | 43°43′236 | 40°34′302 |
| 51 | 44 46 028 | 26 20 088 | 34 16 117 | 18 14 153 | 21 22 195 | 42 54 236 | 39 43 302 |
| 52 | 45 14 027 | 27 19 088 | 35 09 117 | 18 40 154 | 21 07 196 | 42 04 237 | 38 52 301 |
| 53 | 45 41 026 | 28 19 088 | 36 02 118 | 19 07 154 | 20 51 196 | 41 14 238 | 38 02 301 |
| 54 | 46 07 026 | 29 18 089 | 36 54 118 | 19 32 154 | 20 34 197 | 40 24 238 | 37 11 301 |
| 55 | 46°32′025 | 30°18′089 | 37°47′118 | 19°58′155 | 20°17′197 | 39°33′239 | 36°19′301 |
| 56 | 46 56 024 | 31 17 089 | 38 39 119 | 20 23 155 | 19 59 198 | 38 42 239 | 35 28 300 |
| 57 | 47 20 023 | 32 16 089 | 39 31 120 | 20 47 156 | 19 41 198 | 37 51 240 | 34 37 300 |
| 58 | 47 43 022 | 33 16 089 | 40 22 120 | 21 11 156 | 19 23 198 | 37 00 240 | 33 45 300 |
| 59 | 48 05 021 | 34 15 089 | 41 13 121 | 21 35 157 | 19 03 199 | 36 08 241 | 32 54 300 |
| | ✦CAPELLA | POLLUX | PROCYON | ✦SIRIUS | CANOPUS | ✦Diphda | Alpheratz |
| 60 | 48°26′020 | 33°07′062 | 35°15′089 | 42°04′121 | 21°58′157 | 35°16′241 | 32°02′300 |
| 61 | 48 47 020 | 33 59 062 | 36 14 089 | 42 55 122 | 22 21 158 | 34 24 242 | 31 11 299 |
| 62 | 49 06 019 | 34 51 061 | 37 13 090 | 43 45 123 | 22 43 158 | 33 31 242 | 30 19 299 |
| 63 | 49 25 018 | 35 44 061 | 38 13 090 | 44 35 123 | 23 04 159 | 32 38 243 | 29 27 299 |
| 64 | 49 42 017 | 36 36 061 | 39 12 090 | 45 25 124 | 23 26 159 | 31 46 243 | 28 35 299 |
| 65 | 49°59′016 | 37°27′061 | 40°12′090 | 46°14′125 | 23°46′160 | 30°52′244 | 27°43′299 |
| 66 | 50 14 015 | 38 19 060 | 41 11 090 | 47 03 125 | 24 06 161 | 29 59 244 | 26 51 299 |
| 67 | 50 29 014 | 39 11 060 | 42 11 090 | 47 51 126 | 24 26 161 | 29 06 244 | 25 59 299 |
| 68 | 50 43 013 | 40 02 060 | 43 10 090 | 48 39 127 | 24 45 162 | 28 12 245 | 25 07 299 |
| 69 | 50 55 012 | 40 54 060 | 44 09 091 | 49 26 128 | 25 03 162 | 27 18 245 | 24 14 298 |
| 70 | 51°07′011 | 41°45′059 | 45°09′091 | 50°13′129 | 25°21′163 | 26°24′245 | 23°22′298 |
| 71 | 51 17 009 | 42 36 059 | 46 08 091 | 50 59 129 | 25 38 163 | 25 30 246 | 22 30 298 |
| 72 | 51 26 008 | 43 27 059 | 47 08 091 | 51 44 130 | 25 55 164 | 24 36 246 | 21 38 298 |
| 73 | 51 34 007 | 44 17 058 | 48 07 091 | 52 29 131 | 26 11 165 | 23 41 246 | 20 45 298 |
| 74 | 51 41 006 | 45 08 058 | 49 06 091 | 53 14 132 | 26 26 165 | 22 47 247 | 19 53 298 |
| | CAPELLA | ✦POLLUX | PROCYON | SIRIUS | ✦CANOPUS | Acamar | ✦Hamal |
| 75 | 51°47′005 | 45°58′058 | 50°06′091 | 53°57′133 | 26°41′166 | 34°17′208 | 46°05′296 |
| 76 | 51 52 004 | 46 48 057 | 51 05 092 | 54 40 135 | 26 55 166 | 33 49 208 | 45 11 296 |
| 77 | 51 55 003 | 47 38 057 | 52 05 092 | 55 22 136 | 27 09 167 | 33 20 209 | 44 17 295 |
| 78 | 51 58 002 | 48 28 056 | 53 04 092 | 56 03 137 | 27 22 168 | 32 51 210 | 43 24 295 |
| 79 | 51 59 001 | 49 17 056 | 54 03 092 | 56 43 138 | 27 34 168 | 32 21 211 | 42 30 295 |
| 80 | 51°59′359 | 50°06′055 | 55°03′092 | 57°22′139 | 27°45′169 | 31°50′211 | 41°36′295 |
| 81 | 51 58 358 | 50 54 055 | 56 02 093 | 58 00 141 | 27 56 170 | 31 19 212 | 40 42 294 |
| 82 | 51 56 357 | 51 43 054 | 57 01 093 | 58 37 142 | 28 07 170 | 30 48 213 | 39 47 294 |
| 83 | 51 52 356 | 52 31 053 | 58 01 093 | 59 13 144 | 28 16 171 | 30 15 213 | 38 53 294 |
| 84 | 51 47 355 | 53 18 053 | 59 00 093 | 59 48 145 | 28 25 172 | 29 43 214 | 37 59 294 |
| 85 | 51°42′354 | 54°05′052 | 59°59′094 | 60°21′147 | 28°33′172 | 29°09′214 | 37°04′294 |
| 86 | 51 35 353 | 54 52 051 | 60 59 094 | 60 53 148 | 28 41 173 | 28 36 215 | 36 10 293 |
| 87 | 51 27 352 | 55 38 051 | 61 58 094 | 61 24 150 | 28 48 174 | 28 01 216 | 35 15 293 |
| 88 | 51 18 351 | 56 24 050 | 62 57 094 | 61 53 152 | 28 54 174 | 27 26 216 | 34 21 293 |
| 89 | 51 07 350 | 57 09 049 | 63 56 095 | 62 20 153 | 28 59 175 | 26 51 217 | 33 26 293 |

LAT 8°N

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦POLLUX | REGULUS | Suhail | ✦CANOPUS | Acamar | ✦ALDEBARAN | CAPELLA |
| 90 | 57°54′048 | 28°34′081 | 23°06′145 | 29°04′176 | 26°15′217 | 68°02′295 | 50°56′348 |
| 91 | 58 38 047 | 29 33 081 | 23 40 145 | 29 08 176 | 25 39 218 | 67 08 294 | 50 44 347 |
| 92 | 59 21 046 | 30 32 081 | 24 14 146 | 29 12 177 | 25 03 218 | 66 13 293 | 50 30 346 |
| 93 | 60 03 045 | 31 30 081 | 24 47 146 | 29 14 178 | 24 26 219 | 65 19 293 | 50 16 345 |
| 94 | 60 45 044 | 32 29 081 | 25 20 147 | 29 16 179 | 23 48 219 | 64 24 292 | 50 00 344 |
| 95 | 61°26′043 | 33°28′081 | 25°52′147 | 29°17′179 | 23°11′220 | 63°28′291 | 49°43′343 |
| 96 | 62 06 042 | 34 26 081 | 26 24 148 | 29 18 180 | 22 33 220 | 62 33 291 | 49 26 342 |
| 97 | 62 45 040 | 35 25 081 | 26 56 148 | 29 17 181 | 21 54 221 | 61 37 290 | 49 08 341 |
| 98 | 63 23 039 | 36 24 081 | 27 27 149 | 29 16 181 | 21 15 221 | 60 41 290 | 48 48 340 |
| 99 | 64 00 038 | 37 23 081 | 27 57 150 | 29 15 182 | 20 36 221 | 59 45 289 | 48 28 340 |
| 100 | 64°35′036 | 38°21′081 | 28°27′150 | 29°12′183 | 19°57′222 | 58°49′289 | 48°07′339 |
| 101 | 65 10 034 | 39 20 081 | 28 56 151 | 29 09 183 | 19 17 222 | 57 53 288 | 47 45 338 |
| 102 | 65 43 033 | 40 19 081 | 29 25 151 | 29 05 184 | 18 37 223 | 56 57 288 | 47 22 337 |
| 103 | 66 14 031 | 41 17 081 | 29 53 152 | 29 00 185 | 17 56 223 | 56 00 288 | 46 58 336 |
| 104 | 66 44 029 | 42 16 081 | 30 21 153 | 28 55 185 | 17 16 223 | 55 03 288 | 46 34 335 |
| 105 | 20°25′026 | 43°15′081 | 30°48′153 | 28°49′186 | 59°20′239 | 54°07′287 | 46°08′334 |
| 106 | 20 51 026 | 44 14 081 | 31 14 154 | 28 42 187 | 58 29 240 | 53 10 287 | 45 42 334 |
| 107 | 21 17 026 | 45 12 081 | 31 40 155 | 28 35 187 | 57 38 241 | 52 13 287 | 45 16 333 |
| 108 | 21 43 026 | 46 11 081 | 32 05 155 | 28 27 188 | 56 46 242 | 51 16 287 | 44 48 332 |
| 109 | 22 09 026 | 47 10 081 | 32 30 156 | 28 18 189 | 55 53 242 | 50 19 286 | 44 20 331 |
| 110 | 22°35′025 | 48°08′081 | 32°53′157 | 28°09′190 | 55°01′243 | 49°22′286 | 43°52′331 |
| 111 | 23 00 025 | 49 07 081 | 33 17 157 | 27 58 190 | 54 07 244 | 48 25 286 | 43 22 330 |
| 112 | 23 25 025 | 50 06 081 | 33 39 158 | 27 48 191 | 53 14 245 | 47 28 286 | 42 52 329 |
| 113 | 23 50 025 | 51 04 081 | 34 01 159 | 27 36 191 | 52 20 245 | 46 31 286 | 42 22 329 |
| 114 | 24 14 024 | 52 03 081 | 34 21 160 | 27 24 192 | 51 26 246 | 45 33 286 | 41 51 328 |
| 115 | 24°39′024 | 53°02′081 | 34°42′161 | 27°11′193 | 50°31′247 | 44°36′285 | 41°19′328 |
| 116 | 25 03 024 | 54 01 081 | 35 01 161 | 26 58 193 | 49 37 247 | 43 39 285 | 40 47 327 |
| 117 | 25 27 023 | 54 59 081 | 35 20 162 | 26 44 194 | 48 42 248 | 42 41 285 | 40 14 326 |
| 118 | 25 50 023 | 55 58 081 | 35 37 163 | 26 29 195 | 47 47 248 | 41 44 285 | 39 41 326 |
| 119 | 26 13 023 | 56 56 081 | 35 54 164 | 26 14 195 | 46 51 249 | 40 47 285 | 39 08 325 |
| | Dubhe | ✦Denebola | Suhail | ✦SIRIUS | RIGEL | ALDEBARAN | ✦CAPELLA |
| 120 | 26°36′023 | 33°21′078 | 36°11′165 | 59°14′216 | 45°56′249 | 39°49′285 | 38°34′325 |
| 121 | 26 59 022 | 34 19 078 | 36 26 165 | 58 38 218 | 45 00 250 | 38 52 285 | 37 59 324 |
| 122 | 27 21 022 | 35 17 078 | 36 41 166 | 58 01 219 | 44 04 250 | 37 54 285 | 37 24 324 |
| 123 | 27 43 022 | 36 15 078 | 36 54 167 | 57 23 221 | 43 08 251 | 36 57 285 | 36 49 323 |
| 124 | 28 05 021 | 37 13 078 | 37 07 168 | 56 43 222 | 42 12 251 | 36 00 285 | 36 13 323 |
| 125 | 28°26′021 | 38°11′078 | 37°19′169 | 56°03′223 | 41°16′252 | 35°02′285 | 35°37′322 |
| 126 | 28 47 020 | 39 10 078 | 37 30 170 | 55 22 224 | 40 19 252 | 34 05 285 | 35 01 322 |
| 127 | 29 08 020 | 40 08 078 | 37 40 171 | 54 40 225 | 39 23 252 | 33 07 285 | 34 24 322 |
| 128 | 29 28 020 | 41 06 078 | 37 49 172 | 53 57 227 | 38 26 253 | 32 10 285 | 33 47 321 |
| 129 | 29 48 019 | 42 04 078 | 37 57 172 | 53 14 228 | 37 29 253 | 31 12 285 | 33 10 321 |
| 130 | 30°07′019 | 43°02′078 | 38°05′173 | 52°30′229 | 36°32′254 | 30°15′285 | 32°32′321 |
| 131 | 30 26 019 | 44 00 078 | 38 11 174 | 51 45 230 | 35 35 254 | 29 17 285 | 31 55 320 |
| 132 | 30 45 018 | 44 58 078 | 38 16 175 | 50 59 231 | 34 38 254 | 28 19 285 | 31 16 320 |
| 133 | 31 03 018 | 45 56 077 | 38 21 176 | 50 13 231 | 33 41 255 | 27 22 285 | 30 38 320 |
| 134 | 31 21 017 | 46 54 077 | 38 24 177 | 49 26 232 | 32 43 255 | 26 24 285 | 29 59 319 |
| | Dubhe | ✦ARCTURUS | SPICA | ✦Suhail | SIRIUS | BETELGEUSE | ✦CAPELLA |
| 135 | 31°39′017 | 12°49′072 | 21°03′105 | 38°27′178 | 48°39′233 | 44°30′273 | 29°21′319 |
| 136 | 31 56 016 | 13 46 072 | 22 00 106 | 38 29 179 | 47 51 234 | 43 30 273 | 28 41 319 |
| 137 | 32 12 016 | 14 42 072 | 22 57 106 | 38 29 180 | 47 03 235 | 42 31 273 | 28 02 318 |
| 138 | 32 28 015 | 15 39 072 | 23 55 106 | 38 29 181 | 46 14 235 | 41 32 273 | 27 23 318 |
| 139 | 32 44 015 | 16 35 072 | 24 52 106 | 38 28 182 | 45 25 236 | 40 32 273 | 26 43 318 |
| 140 | 32°59′014 | 17°32′072 | 25°49′107 | 38°25′183 | 44°36′237 | 39°33′273 | 26°03′318 |
| 141 | 33 14 014 | 18 29 072 | 26 45 107 | 38 22 184 | 43 46 237 | 38 34 273 | 25 23 318 |
| 142 | 33 28 014 | 19 25 073 | 27 42 107 | 38 18 184 | 42 55 238 | 37 34 273 | 24 43 317 |
| 143 | 33 41 013 | 20 22 073 | 28 39 108 | 38 13 185 | 42 05 239 | 36 35 273 | 24 02 317 |
| 144 | 33 54 013 | 21 19 073 | 29 35 108 | 38 07 186 | 41 14 239 | 35 36 273 | 23 22 317 |
| 145 | 34°07′012 | 22°15′073 | 30°32′108 | 38°00′187 | 40°23′240 | 34°36′274 | 22°41′317 |
| 146 | 34 19 011 | 23 12 073 | 31 28 108 | 37 52 188 | 39 31 240 | 33 37 274 | 22 01 317 |
| 147 | 34 31 011 | 24 09 073 | 32 25 109 | 37 43 189 | 38 39 241 | 32 38 274 | 21 20 316 |
| 148 | 34 42 010 | 25 05 073 | 33 21 109 | 37 34 190 | 37 47 242 | 31 38 274 | 20 39 316 |
| 149 | 34 52 010 | 26 02 073 | 34 17 110 | 37 23 191 | 36 55 242 | 30 39 274 | 19 58 316 |
| | Dubhe | ✦ARCTURUS | SPICA | ACRUX | ✦Suhail | SIRIUS | ✦POLLUX |
| 150 | 35°02′009 | 26°59′073 | 35°13′110 | 13°27′164 | 37°11′192 | 36°02′242 | 52°43′307 |
| 151 | 35 11 009 | 27 56 073 | 36 09 110 | 13 43 164 | 36 59 193 | 35 09 243 | 51 55 306 |
| 152 | 35 20 008 | 28 52 073 | 37 04 111 | 13 59 165 | 36 46 193 | 34 16 243 | 51 07 305 |
| 153 | 35 28 008 | 29 49 073 | 38 00 111 | 14 15 165 | 36 31 194 | 33 23 244 | 50 18 305 |
| 154 | 35 36 007 | 30 46 073 | 38 55 112 | 14 30 165 | 36 16 195 | 32 30 244 | 49 29 304 |
| 155 | 35°43′007 | 31°42′072 | 39°50′112 | 14°45′166 | 36°00′196 | 31°36′245 | 48°40′304 |
| 156 | 35 50 006 | 32 39 072 | 40 45 112 | 14 59 166 | 35 44 197 | 30 42 245 | 47 51 303 |
| 157 | 35 55 005 | 33 36 072 | 41 40 113 | 15 14 167 | 35 26 198 | 29 48 245 | 47 01 303 |
| 158 | 36 01 005 | 34 32 072 | 42 35 113 | 15 27 167 | 35 08 198 | 28 54 246 | 46 11 303 |
| 159 | 36 05 004 | 35 29 072 | 43 29 114 | 15 40 167 | 34 49 199 | 28 00 246 | 45 21 302 |
| 160 | 36°10′004 | 36°25′072 | 44°23′114 | 15°53′168 | 34°29′200 | 27°06′247 | 44°31′302 |
| 161 | 36 13 003 | 37 22 072 | 45 17 115 | 16 06 168 | 34 08 201 | 26 11 247 | 43 40 301 |
| 162 | 36 16 002 | 38 18 072 | 46 11 116 | 16 18 169 | 33 47 201 | 25 16 247 | 42 49 301 |
| 163 | 36 18 002 | 39 15 072 | 47 05 116 | 16 29 169 | 33 25 202 | 24 21 247 | 41 58 301 |
| 164 | 36 20 001 | 40 11 072 | 47 58 117 | 16 40 169 | 33 02 203 | 23 27 248 | 41 07 300 |
| 165 | 36°21′001 | 41°08′072 | 48°51′117 | 16°51′170 | 32°38′204 | 40°22′270 | 40°16′300 |
| 166 | 36 21 000 | 42 04 071 | 49 43 118 | 17 01 170 | 32 14 204 | 39 22 270 | 39 24 300 |
| 167 | 36 21 000 | 43 00 071 | 50 36 119 | 17 11 171 | 31 49 205 | 38 23 270 | 38 33 300 |
| 168 | 36 20 359 | 43 57 071 | 51 27 120 | 17 20 171 | 31 24 206 | 37 23 270 | 37 41 299 |
| 169 | 36 19 358 | 44 53 071 | 52 19 120 | 17 29 172 | 30 57 206 | 36 24 271 | 36 49 299 |
| 170 | 36°17′358 | 45°49′071 | 53°10′121 | 17°38′172 | 30°31′207 | 35°24′271 | 35°57′299 |
| 171 | 36 14 357 | 46 45 071 | 54 01 122 | 17 45 173 | 30 03 208 | 34 25 271 | 35 05 299 |
| 172 | 36 11 357 | 47 41 070 | 54 51 123 | 17 53 173 | 29 35 208 | 33 26 271 | 34 13 299 |
| 173 | 36 07 356 | 48 37 070 | 55 40 124 | 18 00 173 | 29 07 209 | 32 26 271 | 33 20 298 |
| 174 | 36 03 355 | 49 33 070 | 56 30 125 | 18 07 174 | 28 38 210 | 31 27 271 | 32 28 298 |
| 175 | 35°58′355 | 50°29′070 | 57°18′126 | 18°13′174 | 28°08′210 | 30°27′271 | 31°36′298 |
| 176 | 35 52 354 | 51 24 069 | 58 06 127 | 18 18 175 | 27 38 211 | 29 28 271 | 30 43 298 |
| 177 | 35 46 354 | 52 20 069 | 58 53 128 | 18 23 175 | 27 07 211 | 28 29 272 | 29 51 298 |
| 178 | 35 39 353 | 53 15 069 | 59 40 129 | 18 28 176 | 26 36 212 | 27 29 272 | 28 58 298 |
| 179 | 35 32 353 | 54 10 068 | 60 25 130 | 18 32 176 | 26 04 213 | 26 30 272 | 28 05 298 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | | ANTARES | | RIGIL KENT | | ✦ACRUX | | Suhail | | ✦REGULUS | | Dubhe | |
| 180 | 55°06′ | 068 | 15°58′ | 121 | 14°14′ | 161 | 18°36′ | 177 | 25°32′ | 213 | 62°31′ | 280 | 35°24′ | 352 |
| 181 | 56 01 | 068 | 16 49 | 121 | 14 33 | 161 | 18 39 | 177 | 24 59 | 214 | 61 32 | 280 | 35 15 | 351 |
| 182 | 56 55 | 067 | 17 40 | 121 | 14 52 | 162 | 18 42 | 178 | 24 26 | 214 | 60 34 | 280 | 35 06 | 351 |
| 183 | 57 50 | 067 | 18 30 | 121 | 15 10 | 162 | 18 44 | 178 | 23 52 | 215 | 59 35 | 280 | 34 57 | 350 |
| 184 | 58 44 | 066 | 19 21 | 122 | 15 28 | 163 | 18 45 | 179 | 23 18 | 215 | 58 36 | 280 | 34 47 | 350 |
| 185 | 59°39′ | 066 | 20°11′ | 122 | 15°45′ | 163 | 18°47′ | 179 | 22°44′ | 216 | 57°38′ | 280 | 34°36′ | 349 |
| 186 | 60 33 | 065 | 21 02 | 122 | 16 03 | 163 | 18 47 | 180 | 22 09 | 216 | 56 39 | 279 | 34 24 | 349 |
| 187 | 61 26 | 064 | 21 52 | 123 | 16 19 | 164 | 18 48 | 180 | 21 34 | 217 | 55 41 | 279 | 34 13 | 348 |
| 188 | 62 20 | 064 | 22 42 | 123 | 16 35 | 164 | 18 47 | 181 | 20 58 | 217 | 54 42 | 279 | 34 00 | 348 |
| 189 | 63 13 | 063 | 23 31 | 124 | 16 51 | 165 | 18 46 | 181 | 20 22 | 217 | 53 43 | 279 | 33 47 | 347 |
| 190 | 64°06′ | 062 | 24°21′ | 124 | 17°07′ | 165 | 18°45′ | 181 | 19°46′ | 218 | 52°45′ | 279 | 33°34′ | 347 |
| 191 | 64 58 | 061 | 25 10 | 124 | 17 22 | 166 | 18 43 | 182 | 19 09 | 218 | 51 46 | 279 | 33 20 | 346 |
| 192 | 65 50 | 060 | 25 59 | 125 | 17 36 | 166 | 18 41 | 182 | 18 32 | 219 | 50 47 | 279 | 33 06 | 346 |
| 193 | 66 41 | 059 | 26 48 | 125 | 17 50 | 166 | 18 38 | 183 | 17 55 | 219 | 49 49 | 279 | 32 51 | 345 |
| 194 | 67 32 | 058 | 27 36 | 126 | 18 04 | 167 | 18 35 | 183 | 17 17 | 219 | 48 50 | 279 | 32 35 | 345 |
| | ✦Alphecca | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 195 | 48°43′ | 058 | 22°10′ | 080 | 28°24′ | 126 | 18°17′ | 167 | 18°31′ | 184 | 47°51′ | 279 | 32°20′ | 344 |
| 196 | 49 33 | 058 | 23 08 | 080 | 29 12 | 126 | 18 30 | 168 | 18 27 | 184 | 46 53 | 279 | 32 03 | 344 |
| 197 | 50 23 | 057 | 24 07 | 080 | 30 00 | 127 | 18 42 | 168 | 18 23 | 185 | 45 54 | 279 | 31 47 | 343 |
| 198 | 51 13 | 057 | 25 05 | 080 | 30 47 | 127 | 18 54 | 169 | 18 17 | 185 | 44 55 | 279 | 31 29 | 343 |
| 199 | 52 03 | 056 | 26 04 | 080 | 31 34 | 128 | 19 05 | 169 | 18 12 | 186 | 43 56 | 279 | 31 12 | 343 |
| 200 | 52°52′ | 056 | 27°02′ | 080 | 32°21′ | 128 | 19°16′ | 170 | 18°06′ | 186 | 42°58′ | 279 | 30°54′ | 342 |
| 201 | 53 41 | 055 | 28 01 | 080 | 33 07 | 129 | 19 27 | 170 | 17 59 | 187 | 41 59 | 279 | 30 35 | 342 |
| 202 | 54 29 | 054 | 28 59 | 080 | 33 53 | 130 | 19 36 | 171 | 17 52 | 187 | 41 00 | 279 | 30 16 | 341 |
| 203 | 55 17 | 054 | 29 58 | 080 | 34 39 | 130 | 19 46 | 171 | 17 44 | 188 | 40 02 | 279 | 29 57 | 341 |
| 204 | 56 05 | 053 | 30 56 | 080 | 35 24 | 131 | 19 55 | 172 | 17 36 | 188 | 39 03 | 279 | 29 37 | 340 |
| 205 | 56°52′ | 052 | 31°55′ | 080 | 36°09′ | 131 | 20°03′ | 172 | 17°28′ | 188 | 38°04′ | 279 | 29°17′ | 340 |
| 206 | 57 39 | 051 | 32 53 | 080 | 36 53 | 132 | 20 11 | 173 | 17 19 | 189 | 37 05 | 279 | 28 57 | 340 |
| 207 | 58 25 | 050 | 33 52 | 080 | 37 37 | 133 | 20 18 | 173 | 17 10 | 189 | 36 07 | 279 | 28 36 | 339 |
| 208 | 59 10 | 050 | 34 50 | 080 | 38 21 | 133 | 20 25 | 174 | 17 00 | 190 | 35 08 | 279 | 28 15 | 339 |
| 209 | 59 55 | 049 | 35 49 | 080 | 39 04 | 134 | 20 31 | 174 | 16 49 | 190 | 34 09 | 279 | 27 53 | 339 |
| | ✦VEGA | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | SPICA | | ✦REGULUS | | Dubhe | |
| 210 | 21°01′ | 051 | 36°48′ | 080 | 39°46′ | 135 | 20°37′ | 175 | 68°59′ | 204 | 33°11′ | 279 | 27°31′ | 338 |
| 211 | 21 48 | 051 | 37 46 | 080 | 40 28 | 135 | 20 42 | 175 | 68 34 | 206 | 32 12 | 279 | 27 09 | 338 |
| 212 | 22 34 | 051 | 38 45 | 080 | 41 10 | 136 | 20 47 | 176 | 68 07 | 208 | 31 13 | 279 | 26 47 | 338 |
| 213 | 23 20 | 051 | 39 43 | 080 | 41 51 | 137 | 20 51 | 176 | 67 37 | 211 | 30 15 | 279 | 26 24 | 337 |
| 214 | 24 06 | 051 | 40 42 | 080 | 42 31 | 138 | 20 55 | 177 | 67 06 | 213 | 29 16 | 279 | 26 01 | 337 |
| 215 | 24°53′ | 051 | 41°40′ | 080 | 43°11′ | 139 | 20°58′ | 177 | 66°33′ | 215 | 28°17′ | 279 | 25°37′ | 337 |
| 216 | 25 38 | 051 | 42 39 | 080 | 43 50 | 139 | 21 00 | 178 | 65 58 | 217 | 27 19 | 279 | 25 14 | 336 |
| 217 | 26 24 | 050 | 43 37 | 080 | 44 28 | 140 | 21 02 | 178 | 65 22 | 219 | 26 20 | 279 | 24 50 | 336 |
| 218 | 27 10 | 050 | 44 36 | 080 | 45 06 | 141 | 21 04 | 179 | 64 44 | 221 | 25 21 | 279 | 24 26 | 336 |
| 219 | 27 56 | 050 | 45 35 | 080 | 45 43 | 142 | 21 05 | 179 | 64 04 | 222 | 24 23 | 279 | 24 01 | 336 |
| 220 | 28°41′ | 050 | 46°33′ | 080 | 46°19′ | 143 | 21°05′ | 180 | 63°24′ | 224 | 23°24′ | 280 | 23°36′ | 335 |
| 221 | 29 27 | 050 | 47 32 | 080 | 46 54 | 144 | 21 05 | 180 | 62 42 | 225 | 22 26 | 280 | 23 11 | 335 |
| 222 | 30 12 | 049 | 48 30 | 080 | 47 29 | 145 | 21 04 | 181 | 61 59 | 227 | 21 27 | 280 | 22 46 | 335 |
| 223 | 30 57 | 049 | 49 29 | 080 | 48 02 | 146 | 21 03 | 181 | 61 15 | 228 | 20 28 | 280 | 22 21 | 335 |
| 224 | 31 42 | 049 | 50 27 | 080 | 48 35 | 147 | 21 01 | 182 | 60 31 | 230 | 19 30 | 280 | 21 55 | 334 |
| | VEGA | | ✦ALTAIR | | Nunki | | ANTARES | | RIGIL KENT | | ✦SPICA | | ✦Alkaid | |
| 225 | 32°26′ | 049 | 17°59′ | 083 | 23°13′ | 123 | 49°07′ | 148 | 20°59′ | 182 | 59°45′ | 231 | 46°07′ | 343 |
| 226 | 33 11 | 048 | 18 58 | 083 | 24 02 | 124 | 49 38 | 149 | 20 56 | 183 | 58 59 | 232 | 45 50 | 342 |
| 227 | 33 55 | 048 | 19 57 | 083 | 24 52 | 124 | 50 07 | 150 | 20 53 | 184 | 58 12 | 233 | 45 31 | 341 |
| 228 | 34 39 | 048 | 20 56 | 083 | 25 41 | 124 | 50 36 | 152 | 20 49 | 184 | 57 24 | 234 | 45 12 | 341 |
| 229 | 35 23 | 047 | 21 55 | 084 | 26 30 | 125 | 51 04 | 153 | 20 44 | 185 | 56 35 | 235 | 44 52 | 340 |
| 230 | 36°07′ | 047 | 22°54′ | 084 | 27°19′ | 125 | 51°30′ | 154 | 20°39′ | 185 | 55°46′ | 236 | 44°31′ | 339 |
| 231 | 36 50 | 047 | 23 53 | 084 | 28 07 | 126 | 51 55 | 155 | 20 34 | 186 | 54 57 | 237 | 44 10 | 338 |
| 232 | 37 33 | 046 | 24 52 | 084 | 28 55 | 126 | 52 20 | 157 | 20 28 | 186 | 54 07 | 238 | 43 47 | 338 |
| 233 | 38 16 | 046 | 25 51 | 084 | 29 43 | 127 | 52 42 | 158 | 20 21 | 187 | 53 16 | 239 | 43 24 | 337 |
| 234 | 38 59 | 046 | 26 50 | 084 | 30 31 | 127 | 53 04 | 159 | 20 14 | 187 | 52 25 | 240 | 43 01 | 336 |
| 235 | 39°41′ | 045 | 27°49′ | 084 | 31°18′ | 127 | 53°24′ | 161 | 20°07′ | 188 | 51°33′ | 240 | 42°36′ | 335 |
| 236 | 40 23 | 045 | 28 48 | 084 | 32 05 | 128 | 53 43 | 162 | 19 59 | 188 | 50 42 | 241 | 42 11 | 335 |
| 237 | 41 05 | 044 | 29 47 | 084 | 32 52 | 129 | 54 01 | 164 | 19 50 | 189 | 49 49 | 242 | 41 46 | 334 |
| 238 | 41 46 | 044 | 30 47 | 084 | 33 38 | 129 | 54 17 | 165 | 19 41 | 189 | 48 57 | 243 | 41 19 | 333 |
| 239 | 42 27 | 043 | 31 46 | 084 | 34 24 | 130 | 54 31 | 167 | 19 31 | 190 | 48 04 | 243 | 40 52 | 333 |
| | ✦VEGA | | ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ✦ARCTURUS | | Alkaid | |
| 240 | 43°07′ | 043 | 32°45′ | 085 | 35°10′ | 130 | 54°44′ | 168 | 47°11′ | 244 | 62°35′ | 296 | 40°25′ | 332 |
| 241 | 43 47 | 042 | 33 44 | 085 | 35 55 | 131 | 54 56 | 170 | 46 17 | 244 | 61 41 | 296 | 39 57 | 332 |
| 242 | 44 27 | 042 | 34 43 | 085 | 36 40 | 131 | 55 06 | 171 | 45 24 | 245 | 60 48 | 295 | 39 29 | 331 |
| 243 | 45 06 | 041 | 35 42 | 085 | 37 24 | 132 | 55 14 | 173 | 44 30 | 246 | 59 54 | 295 | 39 00 | 330 |
| 244 | 45 45 | 040 | 36 41 | 085 | 38 08 | 133 | 55 21 | 174 | 43 36 | 246 | 59 00 | 294 | 38 30 | 330 |
| 245 | 46°23′ | 040 | 37°41′ | 085 | 38°51′ | 133 | 55°26′ | 176 | 42°41′ | 247 | 58°05′ | 294 | 38°00′ | 329 |
| 246 | 47 01 | 039 | 38 40 | 085 | 39 34 | 134 | 55 29 | 177 | 41 47 | 247 | 57 11 | 293 | 37 29 | 329 |
| 247 | 47 38 | 038 | 39 39 | 085 | 40 16 | 135 | 55 31 | 179 | 40 52 | 248 | 56 16 | 293 | 36 58 | 328 |
| 248 | 48 14 | 038 | 40 38 | 085 | 40 58 | 136 | 55 31 | 181 | 39 57 | 248 | 55 21 | 292 | 36 27 | 328 |
| 249 | 48 50 | 037 | 41 37 | 085 | 41 40 | 136 | 55 30 | 182 | 39 02 | 248 | 54 26 | 292 | 35 55 | 327 |
| 250 | 49°25′ | 036 | 42°37′ | 085 | 42°20′ | 137 | 55°27′ | 184 | 38°06′ | 249 | 53°31′ | 291 | 35°23′ | 327 |
| 251 | 50 00 | 035 | 43 36 | 085 | 43 01 | 138 | 55 22 | 185 | 37 11 | 249 | 52 35 | 291 | 34 50 | 326 |
| 252 | 50 34 | 034 | 44 35 | 085 | 43 40 | 139 | 55 16 | 187 | 36 15 | 250 | 51 40 | 291 | 34 17 | 326 |
| 253 | 51 07 | 034 | 45 34 | 085 | 44 19 | 140 | 55 08 | 188 | 35 19 | 250 | 50 44 | 290 | 33 44 | 326 |
| 254 | 51 39 | 033 | 46 33 | 085 | 44 57 | 141 | 54 59 | 190 | 34 23 | 250 | 49 48 | 290 | 33 10 | 325 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ARCTURUS | | ✦Alkaid | |
| 255 | 52°11′ | 032 | 47°33′ | 086 | 45°34′ | 141 | 54°48′ | 191 | 33°27′ | 251 | 48°53′ | 290 | 32°36′ | 325 |
| 256 | 52 42 | 031 | 48 32 | 086 | 46 11 | 142 | 54 35 | 193 | 32 31 | 251 | 47 57 | 290 | 32 02 | 324 |
| 257 | 53 12 | 030 | 49 31 | 086 | 46 47 | 143 | 54 21 | 194 | 31 35 | 251 | 47 01 | 289 | 31 27 | 324 |
| 258 | 53 41 | 029 | 50 30 | 086 | 47 22 | 144 | 54 06 | 196 | 30 39 | 252 | 46 05 | 289 | 30 52 | 324 |
| 259 | 54 09 | 028 | 51 30 | 086 | 47 56 | 145 | 53 49 | 197 | 29 42 | 252 | 45 09 | 289 | 30 17 | 323 |
| 260 | 54°36′ | 027 | 52°29′ | 086 | 48°29′ | 146 | 53°30′ | 199 | 28°45′ | 252 | 44°12′ | 289 | 29°42′ | 323 |
| 261 | 55 02 | 025 | 53 28 | 086 | 49 02 | 148 | 53 10 | 200 | 27 49 | 253 | 43 16 | 289 | 29 06 | 323 |
| 262 | 55 27 | 024 | 54 27 | 086 | 49 33 | 149 | 52 49 | 202 | 26 52 | 253 | 42 20 | 289 | 28 30 | 323 |
| 263 | 55 51 | 023 | 55 27 | 086 | 50 04 | 150 | 52 27 | 203 | 25 55 | 253 | 41 23 | 288 | 27 54 | 322 |
| 264 | 56 13 | 022 | 56 26 | 086 | 50 33 | 151 | 52 03 | 204 | 24 58 | 254 | 40 27 | 288 | 27 17 | 322 |
| 265 | 56°35′ | 021 | 57°25′ | 086 | 51°01′ | 152 | 51°38′ | 205 | 24°01′ | 254 | 39°31′ | 288 | 26°40′ | 322 |
| 266 | 56 55 | 019 | 58 24 | 086 | 51 29 | 153 | 51 12 | 207 | 23 04 | 254 | 38 34 | 288 | 26 04 | 321 |
| 267 | 57 14 | 018 | 59 24 | 086 | 51 55 | 155 | 50 45 | 208 | 22 07 | 254 | 37 38 | 288 | 25 26 | 321 |
| 268 | 57 32 | 017 | 60 23 | 086 | 52 19 | 156 | 50 16 | 209 | 21 10 | 255 | 36 41 | 288 | 24 49 | 321 |
| 269 | 57 48 | 015 | 61 22 | 086 | 52 43 | 157 | 49 47 | 210 | 20 12 | 255 | 35 45 | 288 | 24 12 | 321 |

LAT 8°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEGA | | ✦DENEB | | Enif | | ✦Nunki | | Shaula | | ANTARES | | ✦ARCTURUS | |
| 270 | 58°03′ | 014 | 38°54′ | 036 | 34°26′ | 083 | 53°05′ | 159 | 44°30′ | 187 | 49°16′ | 211 | 34°48′ | 288 |
| 271 | 58 17 | 013 | 39 29 | 035 | 35 25 | 083 | 53 26 | 160 | 44 22 | 188 | 48 45 | 213 | 33 51 | 288 |
| 272 | 58 29 | 011 | 40 03 | 035 | 36 24 | 083 | 53 46 | 161 | 44 14 | 189 | 48 12 | 214 | 32 55 | 288 |
| 273 | 58 40 | 010 | 40 37 | 034 | 37 23 | 084 | 54 04 | 163 | 44 03 | 190 | 47 39 | 215 | 31 58 | 288 |
| 274 | 58 49 | 008 | 41 10 | 034 | 38 22 | 084 | 54 21 | 164 | 43 52 | 191 | 47 05 | 216 | 31 01 | 287 |
| 275 | 58°57′ | 007 | 41°43′ | 033 | 39°21′ | 084 | 54°36′ | 166 | 43°40′ | 192 | 46°30′ | 217 | 30°05′ | 287 |
| 276 | 59 03 | 005 | 42 15 | 033 | 40 20 | 084 | 54 50 | 167 | 43 27 | 193 | 45 54 | 218 | 29 08 | 287 |
| 277 | 59 07 | 004 | 42 47 | 032 | 41 19 | 084 | 55 02 | 169 | 43 12 | 195 | 45 17 | 219 | 28 11 | 287 |
| 278 | 59 10 | 002 | 43 18 | 031 | 42 18 | 084 | 55 13 | 170 | 42 57 | 196 | 44 40 | 219 | 27 15 | 287 |
| 279 | 59 12 | 001 | 43 48 | 031 | 43 17 | 084 | 55 22 | 172 | 42 40 | 197 | 44 02 | 220 | 26 18 | 287 |
| 280 | 59°12′ | 359 | 44°18′ | 030 | 44°16′ | 084 | 55°30′ | 173 | 42°23′ | 198 | 43°23′ | 221 | 25°21′ | 287 |
| 281 | 59 10 | 358 | 44 48 | 029 | 45 15 | 084 | 55 36 | 175 | 42 05 | 199 | 42 43 | 222 | 24 25 | 287 |
| 282 | 59 06 | 356 | 45 16 | 028 | 46 14 | 084 | 55 40 | 177 | 41 45 | 200 | 42 03 | 223 | 23 28 | 287 |
| 283 | 59 02 | 355 | 45 44 | 028 | 47 14 | 084 | 55 43 | 178 | 41 25 | 201 | 41 23 | 224 | 22 31 | 287 |
| 284 | 58 55 | 353 | 46 12 | 027 | 48 13 | 084 | 55 44 | 180 | 41 03 | 201 | 40 41 | 224 | 21 35 | 287 |
| | DENEB | | ✦Alpheratz | | FOMALHAUT | | ✦Nunki | | ANTARES | | ✦Rasalhague | | VEGA | |
| 285 | 46°38′ | 026 | 14°54′ | 062 | 21°30′ | 126 | 55°43′ | 181 | 39°59′ | 225 | 68°49′ | 284 | 58°47′ | 352 |
| 286 | 47 04 | 025 | 15 46 | 062 | 22 18 | 127 | 55 41 | 183 | 39 17 | 226 | 67 51 | 284 | 58 38 | 350 |
| 287 | 47 29 | 025 | 16 39 | 062 | 23 05 | 127 | 55 37 | 185 | 38 34 | 227 | 66 53 | 283 | 58 27 | 349 |
| 288 | 47 53 | 024 | 17 31 | 062 | 23 53 | 127 | 55 31 | 186 | 37 51 | 227 | 65 56 | 283 | 58 14 | 347 |
| 289 | 48 17 | 023 | 18 24 | 062 | 24 40 | 128 | 55 24 | 188 | 37 07 | 228 | 64 58 | 283 | 58 00 | 346 |
| 290 | 48°39′ | 022 | 19°16′ | 062 | 25°27′ | 128 | 55°15′ | 189 | 36°23′ | 228 | 64°00′ | 282 | 57°45′ | 344 |
| 291 | 49 01 | 021 | 20 08 | 062 | 26 13 | 129 | 55 05 | 191 | 35 38 | 229 | 63 02 | 282 | 57 29 | 343 |
| 292 | 49 22 | 020 | 21 01 | 062 | 26 59 | 129 | 54 53 | 192 | 34 53 | 230 | 62 03 | 282 | 57 11 | 342 |
| 293 | 49 42 | 019 | 21 53 | 062 | 27 45 | 130 | 54 40 | 194 | 34 07 | 230 | 61 05 | 281 | 56 51 | 340 |
| 294 | 50 01 | 018 | 22 45 | 062 | 28 31 | 130 | 54 25 | 195 | 33 21 | 231 | 60 07 | 281 | 56 31 | 339 |
| 295 | 50°19′ | 017 | 23°38′ | 062 | 29°16′ | 130 | 54°08′ | 197 | 32°35′ | 231 | 59°09′ | 281 | 56°09′ | 338 |
| 296 | 50 36 | 016 | 24 30 | 061 | 30 01 | 131 | 53 50 | 198 | 31 49 | 232 | 58 10 | 281 | 55 46 | 337 |
| 297 | 50 52 | 015 | 25 22 | 061 | 30 46 | 132 | 53 31 | 200 | 31 02 | 232 | 57 12 | 281 | 55 22 | 336 |
| 298 | 51 07 | 014 | 26 14 | 061 | 31 30 | 132 | 53 10 | 201 | 30 14 | 233 | 56 14 | 281 | 54 57 | 334 |
| 299 | 51 21 | 013 | 27 06 | 061 | 32 14 | 133 | 52 48 | 202 | 29 27 | 233 | 55 15 | 281 | 54 31 | 333 |
| | ✦DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | VEGA | |
| 300 | 51°33′ | 012 | 27°58′ | 061 | 32°58′ | 133 | 25°05′ | 176 | 28°39′ | 234 | 54°17′ | 280 | 54°03′ | 332 |
| 301 | 51 45 | 011 | 28 50 | 061 | 33 41 | 134 | 25 09 | 176 | 27 51 | 234 | 53 18 | 280 | 53 35 | 331 |
| 302 | 51 56 | 010 | 29 42 | 061 | 34 24 | 134 | 25 13 | 177 | 27 03 | 235 | 52 20 | 280 | 53 06 | 330 |
| 303 | 52 05 | 009 | 30 34 | 061 | 35 06 | 135 | 25 15 | 178 | 26 14 | 235 | 51 21 | 280 | 52 36 | 329 |
| 304 | 52 13 | 007 | 31 26 | 061 | 35 48 | 136 | 25 17 | 178 | 25 25 | 236 | 50 23 | 280 | 52 05 | 328 |
| 305 | 52°21′ | 006 | 32°18′ | 060 | 36°29′ | 136 | 25°19′ | 179 | 24°36′ | 236 | 49°24′ | 280 | 51°33′ | 327 |
| 306 | 52 27 | 005 | 33 09 | 060 | 37 10 | 137 | 25 20 | 180 | 23 47 | 236 | 48 26 | 280 | 51 01 | 326 |
| 307 | 52 31 | 004 | 34 01 | 060 | 37 50 | 138 | 25 20 | 180 | 22 57 | 237 | 47 27 | 280 | 50 27 | 325 |
| 308 | 52 35 | 003 | 34 52 | 060 | 38 30 | 138 | 25 19 | 181 | 22 07 | 237 | 46 29 | 280 | 49 53 | 325 |
| 309 | 52 37 | 002 | 35 43 | 060 | 39 09 | 139 | 25 18 | 181 | 21 17 | 237 | 45 30 | 280 | 49 18 | 324 |
| 310 | 52°39′ | 001 | 36°35′ | 059 | 39°48′ | 140 | 25°17′ | 182 | 20°27′ | 238 | 44°32′ | 280 | 48°43′ | 323 |
| 311 | 52 39 | 359 | 37 26 | 059 | 40 26 | 141 | 25 14 | 183 | 19 37 | 238 | 43 33 | 280 | 48 07 | 322 |
| 312 | 52 38 | 358 | 38 17 | 059 | 41 03 | 141 | 25 11 | 183 | 18 46 | 238 | 42 34 | 280 | 47 30 | 322 |
| 313 | 52 35 | 357 | 39 07 | 059 | 41 40 | 142 | 25 08 | 184 | 17 55 | 239 | 41 36 | 280 | 46 53 | 321 |
| 314 | 52 32 | 356 | 39 58 | 058 | 42 16 | 143 | 25 03 | 184 | 17 04 | 239 | 40 37 | 280 | 46 15 | 320 |
| | Alpheratz | | ✦Diphda | | FOMALHAUT | | ✦Nunki | | Rasalhague | | VEGA | | ✦DENEB | |
| 315 | 40°49′ | 058 | 28°50′ | 116 | 42°51′ | 144 | 44°28′ | 220 | 39°39′ | 280 | 45°37′ | 320 | 52°27′ | 355 |
| 316 | 41 39 | 058 | 29 44 | 116 | 43 26 | 145 | 43 49 | 221 | 38 40 | 280 | 44 58 | 319 | 52 21 | 354 |
| 317 | 42 29 | 057 | 30 37 | 116 | 43 59 | 146 | 43 10 | 222 | 37 42 | 280 | 44 19 | 318 | 52 14 | 353 |
| 318 | 43 19 | 057 | 31 30 | 117 | 44 32 | 147 | 42 30 | 223 | 36 43 | 280 | 43 39 | 318 | 52 06 | 351 |
| 319 | 44 09 | 057 | 32 23 | 117 | 45 04 | 148 | 41 50 | 223 | 35 45 | 280 | 42 59 | 317 | 51 56 | 350 |
| 320 | 44°58′ | 056 | 33°16′ | 118 | 45°36′ | 149 | 41°08′ | 224 | 34°46′ | 280 | 42°19′ | 317 | 51°46′ | 349 |
| 321 | 45 47 | 056 | 34 09 | 118 | 46 06 | 150 | 40 27 | 225 | 33 47 | 280 | 41 38 | 316 | 51 34 | 348 |
| 322 | 46 36 | 055 | 35 01 | 118 | 46 36 | 151 | 39 44 | 226 | 32 49 | 280 | 40 56 | 316 | 51 21 | 347 |
| 323 | 47 25 | 055 | 35 53 | 119 | 47 04 | 152 | 39 02 | 226 | 31 50 | 280 | 40 15 | 315 | 51 07 | 346 |
| 324 | 48 14 | 054 | 36 45 | 119 | 47 32 | 153 | 38 18 | 227 | 30 52 | 280 | 39 33 | 315 | 50 53 | 345 |
| 325 | 49°02′ | 054 | 37°36′ | 120 | 47°58′ | 154 | 37°35′ | 228 | 29°53′ | 280 | 38°50′ | 314 | 50°37′ | 344 |
| 326 | 49 50 | 053 | 38 28 | 121 | 48 24 | 155 | 36 50 | 228 | 28 55 | 280 | 38 08 | 314 | 50 20 | 343 |
| 327 | 50 37 | 053 | 39 19 | 121 | 48 48 | 156 | 36 06 | 229 | 27 56 | 280 | 37 25 | 314 | 50 02 | 342 |
| 328 | 51 24 | 052 | 40 10 | 122 | 49 11 | 158 | 35 21 | 230 | 26 58 | 280 | 36 42 | 313 | 49 43 | 341 |
| 329 | 52 11 | 052 | 41 00 | 122 | 49 34 | 159 | 34 35 | 230 | 25 59 | 280 | 35 58 | 313 | 49 23 | 340 |
| | ✦Alpheratz | | Diphda | | ✦FOMALHAUT | | Peacock | | ALTAIR | | ✦VEGA | | DENEB | |
| 330 | 52°57′ | 051 | 41°50′ | 123 | 49°55′ | 160 | 22°34′ | 194 | 58°17′ | 274 | 35°15′ | 312 | 49°02′ | 339 |
| 331 | 53 43 | 050 | 42 40 | 123 | 50 14 | 161 | 22 20 | 194 | 57 18 | 274 | 34 31 | 312 | 48 40 | 338 |
| 332 | 54 28 | 049 | 43 29 | 124 | 50 33 | 163 | 22 05 | 195 | 56 18 | 274 | 33 47 | 312 | 48 18 | 337 |
| 333 | 55 13 | 049 | 44 18 | 125 | 50 50 | 164 | 21 50 | 195 | 55 19 | 274 | 33 02 | 312 | 47 55 | 336 |
| 334 | 55 58 | 048 | 45 07 | 125 | 51 06 | 165 | 21 34 | 196 | 54 20 | 274 | 32 18 | 311 | 47 30 | 336 |
| 335 | 56°41′ | 047 | 45°55′ | 126 | 51°21′ | 166 | 21°18′ | 196 | 53°21′ | 274 | 31°33′ | 311 | 47°05′ | 335 |
| 336 | 57 24 | 046 | 46 43 | 127 | 51 34 | 168 | 21 01 | 197 | 52 21 | 274 | 30 48 | 311 | 46 39 | 334 |
| 337 | 58 07 | 045 | 47 30 | 128 | 51 46 | 169 | 20 44 | 197 | 51 22 | 274 | 30 03 | 311 | 46 13 | 333 |
| 338 | 58 48 | 044 | 48 17 | 129 | 51 56 | 171 | 20 26 | 198 | 50 23 | 274 | 29 18 | 310 | 45 46 | 332 |
| 339 | 59 29 | 043 | 49 03 | 129 | 52 05 | 172 | 20 08 | 198 | 49 24 | 274 | 28 32 | 310 | 45 18 | 332 |
| 340 | 60°09′ | 042 | 49°48′ | 130 | 52°13′ | 173 | 19°49′ | 199 | 48°24′ | 274 | 27°47′ | 310 | 44°49′ | 331 |
| 341 | 60 49 | 041 | 50 33 | 131 | 52 19 | 175 | 19 30 | 199 | 47 25 | 275 | 27 01 | 310 | 44 20 | 330 |
| 342 | 61 27 | 039 | 51 18 | 132 | 52 24 | 176 | 19 10 | 200 | 46 26 | 275 | 26 15 | 310 | 43 50 | 329 |
| 343 | 62 04 | 038 | 52 02 | 133 | 52 27 | 178 | 18 50 | 200 | 45 27 | 275 | 25 29 | 309 | 43 19 | 329 |
| 344 | 62 40 | 037 | 52 45 | 134 | 52 29 | 179 | 18 29 | 201 | 44 27 | 275 | 24 43 | 309 | 42 48 | 328 |
| | ✦Mirfak | | Hamal | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 345 | 21°11′ | 039 | 42°22′ | 065 | 16°55′ | 136 | 17°17′ | 159 | 52°29′ | 180 | 43°28′ | 275 | 42°17′ | 327 |
| 346 | 21 49 | 039 | 43 16 | 065 | 17 36 | 137 | 17 38 | 159 | 52 28 | 182 | 42 29 | 275 | 41 44 | 327 |
| 347 | 22 26 | 039 | 44 10 | 065 | 18 16 | 137 | 17 59 | 160 | 52 25 | 183 | 41 30 | 275 | 41 12 | 326 |
| 348 | 23 03 | 039 | 45 03 | 065 | 18 57 | 138 | 18 20 | 160 | 52 21 | 185 | 40 31 | 275 | 40 38 | 326 |
| 349 | 23 40 | 039 | 45 57 | 064 | 19 37 | 138 | 18 40 | 161 | 52 15 | 186 | 39 31 | 275 | 40 05 | 325 |
| 350 | 24°17′ | 038 | 46°50′ | 064 | 20°16′ | 138 | 18°59′ | 161 | 52°08′ | 188 | 38°32′ | 275 | 39°31′ | 325 |
| 351 | 24 54 | 038 | 47 44 | 064 | 20 56 | 139 | 19 18 | 161 | 52 00 | 189 | 37 33 | 275 | 38 56 | 324 |
| 352 | 25 31 | 038 | 48 37 | 063 | 21 35 | 139 | 19 37 | 162 | 51 50 | 190 | 36 34 | 275 | 38 21 | 324 |
| 353 | 26 07 | 038 | 49 30 | 063 | 22 13 | 140 | 19 55 | 162 | 51 38 | 192 | 35 35 | 275 | 37 45 | 323 |
| 354 | 26 43 | 037 | 50 23 | 062 | 22 52 | 140 | 20 13 | 163 | 51 25 | 193 | 34 36 | 275 | 37 10 | 323 |
| 355 | 27°19′ | 037 | 51°15′ | 062 | 23°29′ | 141 | 20°30′ | 163 | 51°11′ | 194 | 33°36′ | 275 | 36°33′ | 322 |
| 356 | 27 55 | 037 | 52 07 | 062 | 24 07 | 141 | 20 47 | 164 | 50 56 | 196 | 32 37 | 276 | 35 57 | 322 |
| 357 | 28 30 | 037 | 53 00 | 061 | 24 44 | 142 | 21 03 | 164 | 50 39 | 197 | 31 38 | 276 | 35 20 | 321 |
| 358 | 29 06 | 036 | 53 51 | 061 | 25 21 | 142 | 21 19 | 165 | 50 21 | 198 | 30 39 | 276 | 34 42 | 321 |
| 359 | 29 41 | 036 | 54 43 | 060 | 25 57 | 143 | 21 34 | 165 | 50 02 | 200 | 29 40 | 276 | 34 05 | 321 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦CAPELLA | | ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 12°17′ | 044 | 21°49′ | 075 | 9° 55′ | 100 | 22°47′ | 166 | 50°37′ | 201 | 28°34′ | 276 | 32°41′ | 321 |
| 1 | 12 59 | 044 | 22 46 | 075 | 10 54 | 100 | 23 01 | 166 | 50 15 | 202 | 27 35 | 276 | 32 03 | 320 |
| 2 | 13 41 | 044 | 23 44 | 075 | 11 53 | 100 | 23 15 | 167 | 49 52 | 204 | 26 36 | 277 | 31 25 | 320 |
| 3 | 14 22 | 044 | 24 41 | 075 | 12 51 | 100 | 23 29 | 167 | 49 27 | 205 | 25 37 | 277 | 30 46 | 320 |
| 4 | 15 04 | 044 | 25 39 | 075 | 13 50 | 100 | 23 41 | 168 | 49 02 | 206 | 24 38 | 277 | 30 07 | 319 |
| 5 | 15°45′ | 044 | 26°36′ | 075 | 14°48′ | 100 | 23°53′ | 169 | 48°35′ | 207 | 23°38′ | 277 | 29°28′ | 319 |
| 6 | 16 26 | 044 | 27 34 | 075 | 15 47 | 101 | 24 05 | 169 | 48 07 | 208 | 22 39 | 277 | 28 49 | 319 |
| 7 | 17 08 | 044 | 28 31 | 075 | 16 46 | 101 | 24 16 | 170 | 47 39 | 209 | 21 40 | 277 | 28 10 | 318 |
| 8 | 17 49 | 044 | 29 29 | 075 | 17 44 | 101 | 24 26 | 170 | 47 09 | 210 | 20 41 | 277 | 27 30 | 318 |
| 9 | 18 30 | 044 | 30 26 | 075 | 18 43 | 101 | 24 36 | 171 | 46 38 | 211 | 19 42 | 277 | 26 50 | 318 |
| 10 | 19°11′ | 044 | 31°24′ | 075 | 19°41′ | 101 | 24°46′ | 171 | 46°07′ | 212 | 18°43′ | 277 | 26°10′ | 318 |
| 11 | 19 52 | 043 | 32 21 | 075 | 20 39 | 102 | 24 54 | 172 | 45 34 | 213 | 17 44 | 277 | 25 30 | 317 |
| 12 | 20 33 | 043 | 33 19 | 075 | 21 38 | 102 | 25 02 | 172 | 45 01 | 214 | 16 45 | 277 | 24 49 | 317 |
| 13 | 21 14 | 043 | 34 16 | 075 | 22 36 | 102 | 25 10 | 173 | 44 27 | 215 | 15 46 | 277 | 24 09 | 317 |
| 14 | 21 55 | 043 | 35 14 | 075 | 23 34 | 102 | 25 17 | 174 | 43 52 | 216 | 14 47 | 277 | 23 28 | 317 |
| | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦DENEB | |
| 15 | 22°35′ | 043 | 36°11′ | 075 | 24°32′ | 102 | 25°23′ | 174 | 43°17′ | 217 | 41°46′ | 277 | 22°47′ | 317 |
| 16 | 23 15 | 043 | 37 09 | 075 | 25 31 | 103 | 25 29 | 175 | 42 40 | 218 | 40 47 | 277 | 22 06 | 316 |
| 17 | 23 56 | 042 | 38 06 | 074 | 26 29 | 103 | 25 34 | 175 | 42 04 | 219 | 39 48 | 277 | 21 25 | 316 |
| 18 | 24 36 | 042 | 39 03 | 074 | 27 27 | 103 | 25 38 | 176 | 41 26 | 220 | 38 49 | 277 | 20 44 | 316 |
| 19 | 25 16 | 042 | 40 01 | 074 | 28 25 | 103 | 25 42 | 177 | 40 48 | 220 | 37 50 | 277 | 20 02 | 316 |
| 20 | 25°55′ | 042 | 40°58′ | 074 | 29°23′ | 104 | 25°45′ | 177 | 40°09′ | 221 | 36°51′ | 277 | 19°21′ | 316 |
| 21 | 26 35 | 041 | 41 55 | 074 | 30 20 | 104 | 25 48 | 178 | 39 29 | 222 | 35 52 | 277 | 18 39 | 316 |
| 22 | 27 14 | 041 | 42 52 | 074 | 31 18 | 104 | 25 50 | 178 | 38 49 | 223 | 34 53 | 277 | 17 58 | 316 |
| 23 | 27 53 | 041 | 43 50 | 074 | 32 16 | 104 | 25 51 | 179 | 38 09 | 223 | 33 54 | 277 | 17 16 | 315 |
| 24 | 28 32 | 041 | 44 47 | 074 | 33 14 | 105 | 25 52 | 180 | 37 27 | 224 | 32 54 | 277 | 16 34 | 315 |
| 25 | 29°11′ | 040 | 45°44′ | 073 | 34°11′ | 105 | 25°52′ | 180 | 36°46′ | 225 | 31°55′ | 277 | 15°52′ | 315 |
| 26 | 29 49 | 040 | 46 41 | 073 | 35 09 | 105 | 25 51 | 181 | 36 04 | 225 | 30 56 | 277 | 15 10 | 315 |
| 27 | 30 28 | 040 | 47 38 | 073 | 36 06 | 105 | 25 50 | 181 | 35 21 | 226 | 29 57 | 277 | 14 28 | 315 |
| 28 | 31 06 | 039 | 48 35 | 073 | 37 04 | 106 | 25 48 | 182 | 34 38 | 227 | 28 58 | 278 | 13 46 | 315 |
| 29 | 31 43 | 039 | 49 32 | 073 | 38 01 | 106 | 25 46 | 183 | 33 55 | 227 | 27 59 | 278 | 13 04 | 315 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 43°28′ | 019 | 32°21′ | 039 | 50°29′ | 072 | 38°58′ | 106 | 25°43′ | 183 | 33°11′ | 228 | 55°47′ | 314 |
| 31 | 43 47 | 018 | 32 58 | 038 | 51 25 | 072 | 39 55 | 107 | 25 39 | 184 | 32 27 | 228 | 55 04 | 313 |
| 32 | 44 05 | 017 | 33 35 | 038 | 52 22 | 072 | 40 52 | 107 | 25 35 | 184 | 31 42 | 229 | 54 20 | 312 |
| 33 | 44 23 | 017 | 34 11 | 038 | 53 19 | 072 | 41 49 | 108 | 25 30 | 185 | 30 57 | 229 | 53 36 | 311 |
| 34 | 44 39 | 016 | 34 47 | 037 | 54 15 | 071 | 42 46 | 108 | 25 24 | 186 | 30 12 | 230 | 52 51 | 311 |
| 35 | 44°55′ | 015 | 35°23′ | 037 | 55°11′ | 071 | 43°42′ | 108 | 25°18′ | 186 | 29°26′ | 230 | 52°05′ | 310 |
| 36 | 45 10 | 014 | 35 58 | 036 | 56 08 | 071 | 44 39 | 109 | 25 11 | 187 | 28 40 | 231 | 51 20 | 309 |
| 37 | 45 24 | 013 | 36 33 | 036 | 57 04 | 070 | 45 35 | 109 | 25 04 | 187 | 27 54 | 231 | 50 33 | 309 |
| 38 | 45 37 | 012 | 37 08 | 035 | 58 00 | 070 | 46 31 | 110 | 24 56 | 188 | 27 07 | 232 | 49 47 | 308 |
| 39 | 45 49 | 011 | 37 42 | 035 | 58 55 | 069 | 47 27 | 110 | 24 47 | 189 | 26 21 | 232 | 48 59 | 307 |
| 40 | 46°01′ | 011 | 38°16′ | 034 | 59°51′ | 069 | 48°23′ | 111 | 24°38′ | 189 | 25°34′ | 232 | 48°12′ | 307 |
| 41 | 46 11 | 010 | 38 49 | 034 | 60 47 | 068 | 49 18 | 111 | 24 29 | 190 | 24 46 | 233 | 47 24 | 306 |
| 42 | 46 21 | 009 | 39 22 | 033 | 61 42 | 068 | 50 14 | 112 | 24 18 | 190 | 23 59 | 233 | 46 36 | 306 |
| 43 | 46 30 | 008 | 39 54 | 033 | 62 37 | 067 | 51 09 | 112 | 24 07 | 191 | 23 11 | 234 | 45 48 | 305 |
| 44 | 46 37 | 007 | 40 26 | 032 | 63 32 | 067 | 52 04 | 113 | 23 56 | 191 | 22 23 | 234 | 44 59 | 305 |
| | ✦CAPELLA | | PROCYON | | SIRIUS | | ✦CANOPUS | | ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 40°57′ | 031 | 20°21′ | 087 | 29°18′ | 114 | 16°18′ | 151 | 23°44′ | 192 | 48°20′ | 233 | 44°10′ | 304 |
| 46 | 41 28 | 031 | 21 20 | 087 | 30 13 | 114 | 16 47 | 151 | 23 31 | 192 | 47 32 | 234 | 43 21 | 304 |
| 47 | 41 58 | 030 | 22 20 | 087 | 31 07 | 114 | 17 16 | 151 | 23 18 | 193 | 46 44 | 234 | 42 31 | 304 |
| 48 | 42 28 | 029 | 23 19 | 087 | 32 01 | 115 | 17 44 | 152 | 23 05 | 194 | 45 55 | 235 | 41 42 | 303 |
| 49 | 42 57 | 029 | 24 19 | 087 | 32 55 | 115 | 18 12 | 152 | 22 50 | 194 | 45 06 | 236 | 40 52 | 303 |
| 50 | 43°25′ | 028 | 25°18′ | 088 | 33°49′ | 116 | 18°40′ | 153 | 22°36′ | 195 | 44°17′ | 237 | 40°02′ | 303 |
| 51 | 43 53 | 027 | 26 18 | 088 | 34 43 | 116 | 19 07 | 153 | 22 20 | 195 | 43 27 | 237 | 39 11 | 302 |
| 52 | 44 20 | 027 | 27 17 | 088 | 35 36 | 116 | 19 34 | 153 | 22 05 | 196 | 42 37 | 238 | 38 21 | 302 |
| 53 | 44 47 | 026 | 28 17 | 088 | 36 29 | 117 | 20 01 | 154 | 21 48 | 196 | 41 46 | 238 | 37 30 | 302 |
| 54 | 45 12 | 025 | 29 16 | 088 | 37 22 | 117 | 20 27 | 154 | 21 31 | 197 | 40 55 | 239 | 36 40 | 301 |
| 55 | 45°37′ | 024 | 30°16′ | 088 | 38°15′ | 118 | 20°52′ | 155 | 21°14′ | 197 | 40°04′ | 240 | 35°49′ | 301 |
| 56 | 46 01 | 024 | 31 15 | 088 | 39 08 | 118 | 21 17 | 155 | 20 56 | 198 | 39 13 | 240 | 34 58 | 301 |
| 57 | 46 25 | 023 | 32 15 | 088 | 40 00 | 119 | 21 42 | 156 | 20 38 | 198 | 38 21 | 241 | 34 07 | 301 |
| 58 | 46 47 | 022 | 33 14 | 088 | 40 52 | 119 | 22 06 | 156 | 20 19 | 199 | 37 29 | 241 | 33 15 | 300 |
| 59 | 47 09 | 021 | 34 14 | 088 | 41 44 | 120 | 22 30 | 157 | 20 00 | 199 | 36 37 | 242 | 32 24 | 300 |
| | ✦CAPELLA | | POLLUX | | PROCYON | | ✦SIRIUS | | CANOPUS | | ✦Diphda | | Alpheratz | |
| 60 | 47°30′ | 020 | 32°38′ | 061 | 35°14′ | 089 | 42°35′ | 120 | 22°53′ | 157 | 35°44′ | 242 | 31°32′ | 300 |
| 61 | 47 50 | 019 | 33 30 | 061 | 36 13 | 089 | 43 26 | 121 | 23 16 | 158 | 34 52 | 242 | 30 41 | 300 |
| 62 | 48 09 | 018 | 34 22 | 061 | 37 13 | 089 | 44 17 | 122 | 23 39 | 158 | 33 59 | 243 | 29 49 | 300 |
| 63 | 48 27 | 017 | 35 14 | 061 | 38 12 | 089 | 45 08 | 122 | 24 00 | 159 | 33 06 | 243 | 28 57 | 300 |
| 64 | 48 45 | 016 | 36 06 | 060 | 39 12 | 089 | 45 58 | 123 | 24 22 | 159 | 32 12 | 244 | 28 06 | 299 |
| 65 | 49°01′ | 015 | 36°58′ | 060 | 40°11′ | 089 | 46°48′ | 124 | 24°42′ | 160 | 31°19′ | 244 | 27°14′ | 299 |
| 66 | 49 16 | 014 | 37 49 | 060 | 41 11 | 089 | 47 37 | 124 | 25 03 | 160 | 30 25 | 244 | 26 22 | 299 |
| 67 | 49 31 | 013 | 38 41 | 060 | 42 10 | 089 | 48 26 | 125 | 25 22 | 161 | 29 31 | 245 | 25 30 | 299 |
| 68 | 49 44 | 012 | 39 32 | 059 | 43 10 | 089 | 49 14 | 126 | 25 42 | 162 | 28 37 | 245 | 24 38 | 299 |
| 69 | 49 56 | 011 | 40 23 | 059 | 44 09 | 090 | 50 02 | 127 | 26 00 | 162 | 27 43 | 246 | 23 46 | 299 |
| 70 | 50°08′ | 010 | 41°14′ | 059 | 45°09′ | 090 | 50°50′ | 128 | 26°18′ | 163 | 26°49′ | 246 | 22°53′ | 299 |
| 71 | 50 18 | 009 | 42 05 | 058 | 46 09 | 090 | 51 37 | 128 | 26 36 | 163 | 25 55 | 246 | 22 01 | 299 |
| 72 | 50 27 | 008 | 42 55 | 058 | 47 08 | 090 | 52 23 | 129 | 26 52 | 164 | 25 00 | 247 | 21 09 | 299 |
| 73 | 50 35 | 007 | 43 46 | 058 | 48 08 | 090 | 53 09 | 130 | 27 09 | 165 | 24 05 | 247 | 20 17 | 299 |
| 74 | 50 42 | 006 | 44 36 | 057 | 49 07 | 090 | 53 54 | 131 | 27 24 | 165 | 23 11 | 247 | 19 24 | 299 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 50°47′ | 005 | 45°26′ | 057 | 50°07′ | 090 | 54°38′ | 132 | 27°39′ | 166 | 35°10′ | 208 | 45°38′ | 297 |
| 76 | 50 52 | 004 | 46 15 | 056 | 51 06 | 090 | 55 22 | 134 | 27 53 | 166 | 34 41 | 209 | 44 45 | 296 |
| 77 | 50 55 | 003 | 47 05 | 056 | 52 06 | 091 | 56 04 | 135 | 28 07 | 167 | 34 12 | 210 | 43 51 | 296 |
| 78 | 50 58 | 002 | 47 54 | 055 | 53 05 | 091 | 56 46 | 136 | 28 20 | 168 | 33 43 | 210 | 42 58 | 296 |
| 79 | 50 59 | 001 | 48 43 | 055 | 54 05 | 091 | 57 27 | 137 | 28 33 | 168 | 33 13 | 211 | 42 04 | 296 |
| 80 | 50°59′ | 359 | 49°31′ | 054 | 55°05′ | 091 | 58°07′ | 138 | 28°44′ | 169 | 32°42′ | 212 | 41°10′ | 295 |
| 81 | 50 58 | 358 | 50 19 | 054 | 56 04 | 091 | 58 46 | 140 | 28 55 | 170 | 32 10 | 212 | 40 17 | 295 |
| 82 | 50 56 | 357 | 51 07 | 053 | 57 04 | 091 | 59 24 | 141 | 29 06 | 170 | 31 38 | 213 | 39 23 | 295 |
| 83 | 50 52 | 356 | 51 55 | 052 | 58 03 | 091 | 60 01 | 143 | 29 16 | 171 | 31 06 | 214 | 38 29 | 295 |
| 84 | 50 48 | 355 | 52 42 | 052 | 59 03 | 092 | 60 37 | 144 | 29 25 | 172 | 30 32 | 214 | 37 34 | 294 |
| 85 | 50°42′ | 354 | 53°28′ | 051 | 60°02′ | 092 | 61°11′ | 146 | 29°33′ | 172 | 29°59′ | 215 | 36°40′ | 294 |
| 86 | 50 35 | 353 | 54 14 | 050 | 61 02 | 092 | 61 44 | 147 | 29 41 | 173 | 29 25 | 215 | 35 46 | 294 |
| 87 | 50 27 | 352 | 55 00 | 050 | 62 01 | 092 | 62 16 | 149 | 29 48 | 174 | 28 50 | 216 | 34 51 | 294 |
| 88 | 50 18 | 351 | 55 45 | 049 | 63 01 | 092 | 62 45 | 151 | 29 54 | 174 | 28 15 | 216 | 33 57 | 294 |
| 89 | 50 08 | 350 | 56 29 | 048 | 64 00 | 093 | 63 14 | 153 | 29 59 | 175 | 27 39 | 217 | 33 02 | 294 |

LAT 7°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 57°13′ | 047 | 28°25′ | 080 | 23°55′ | 144 | 30°04′ | 176 | 27°03′ | 218 | 67°36′ | 297 | 49°57′ | 349 |
| 91 | 57 56 | 046 | 29 23 | 080 | 24 29 | 145 | 30 08 | 176 | 26 27 | 218 | 66 42 | 296 | 49 45 | 348 |
| 92 | 58 39 | 045 | 30 22 | 080 | 25 03 | 145 | 30 11 | 177 | 25 50 | 219 | 65 49 | 295 | 49 32 | 347 |
| 93 | 59 21 | 044 | 31 21 | 080 | 25 37 | 146 | 30 14 | 178 | 25 13 | 219 | 64 55 | 294 | 49 17 | 346 |
| 94 | 60 02 | 043 | 32 19 | 080 | 26 10 | 146 | 30 16 | 179 | 24 35 | 219 | 64 00 | 294 | 49 02 | 345 |
| 95 | 60°42′ | 042 | 33°18′ | 080 | 26°43′ | 147 | 30°17′ | 179 | 23°57′ | 220 | 63°06′ | 293 | 48°46′ | 344 |
| 96 | 61 21 | 040 | 34 17 | 080 | 27 15 | 148 | 30 18 | 180 | 23 18 | 220 | 62 11 | 292 | 48 29 | 343 |
| 97 | 61 59 | 039 | 35 16 | 080 | 27 47 | 148 | 30 17 | 181 | 22 40 | 221 | 61 16 | 292 | 48 11 | 342 |
| 98 | 62 36 | 038 | 36 14 | 080 | 28 18 | 149 | 30 16 | 181 | 22 00 | 221 | 60 20 | 291 | 47 52 | 341 |
| 99 | 63 12 | 036 | 37 13 | 080 | 28 49 | 149 | 30 14 | 182 | 21 21 | 222 | 59 25 | 291 | 47 32 | 340 |
| 100 | 63°47′ | 035 | 38°12′ | 080 | 29°19′ | 150 | 30°12′ | 183 | 20°41′ | 222 | 58°29′ | 290 | 47°11′ | 339 |
| 101 | 64 20 | 033 | 39 10 | 080 | 29 48 | 150 | 30 09 | 183 | 20 01 | 223 | 57 33 | 290 | 46 49 | 338 |
| 102 | 64 52 | 032 | 40 09 | 080 | 30 18 | 151 | 30 05 | 184 | 19 21 | 223 | 56 37 | 290 | 46 27 | 337 |
| 103 | 65 22 | 030 | 41 08 | 080 | 30 46 | 152 | 30 00 | 185 | 18 40 | 223 | 55 41 | 289 | 46 03 | 337 |
| 104 | 65 51 | 028 | 42 06 | 080 | 31 14 | 152 | 29 55 | 186 | 17 59 | 224 | 54 45 | 289 | 45 39 | 336 |
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 105 | 66°19′ | 026 | 43°05′ | 080 | 31°41′ | 153 | 29°49′ | 186 | 59°51′ | 240 | 53°48′ | 289 | 45°14′ | 335 |
| 106 | 66 44 | 024 | 44 04 | 080 | 32 08 | 154 | 29 42 | 187 | 58 59 | 241 | 52 52 | 288 | 44 49 | 334 |
| 107 | 67 08 | 022 | 45 03 | 080 | 32 34 | 154 | 29 34 | 188 | 58 07 | 242 | 51 55 | 288 | 44 22 | 333 |
| 108 | 67 29 | 020 | 46 01 | 080 | 33 00 | 155 | 29 26 | 188 | 57 14 | 243 | 50 58 | 288 | 43 55 | 333 |
| 109 | 67 49 | 018 | 47 00 | 080 | 33 24 | 156 | 29 17 | 189 | 56 21 | 244 | 50 02 | 287 | 43 28 | 332 |
| 110 | 68°06′ | 016 | 47°59′ | 080 | 33°48′ | 157 | 29°08′ | 190 | 55°27′ | 244 | 49°05′ | 287 | 42°59′ | 331 |
| 111 | 68 21 | 014 | 48 57 | 080 | 34 12 | 157 | 28 58 | 190 | 54 33 | 245 | 48 08 | 287 | 42 30 | 331 |
| 112 | 68 34 | 011 | 49 56 | 080 | 34 35 | 158 | 28 47 | 191 | 53 39 | 246 | 47 11 | 287 | 42 01 | 330 |
| 113 | 68 45 | 009 | 50 54 | 080 | 34 57 | 159 | 28 35 | 192 | 52 44 | 247 | 46 14 | 287 | 41 30 | 329 |
| 114 | 68 53 | 006 | 51 53 | 080 | 35 18 | 160 | 28 23 | 192 | 51 50 | 247 | 45 17 | 286 | 41 00 | 329 |
| 115 | 68°58′ | 004 | 52°52′ | 080 | 35°38′ | 160 | 28°10′ | 193 | 50°55′ | 248 | 44°20′ | 286 | 40°28′ | 328 |
| 116 | 69 01 | 002 | 53 50 | 079 | 35 58 | 161 | 27 56 | 194 | 49 59 | 248 | 43 23 | 286 | 39 57 | 327 |
| 117 | 69 01 | 359 | 54 49 | 079 | 36 17 | 162 | 27 42 | 194 | 49 04 | 249 | 42 25 | 286 | 39 24 | 327 |
| 118 | 68 59 | 357 | 55 47 | 079 | 36 35 | 163 | 27 27 | 195 | 48 08 | 249 | 41 28 | 286 | 38 52 | 326 |
| 119 | 68 54 | 354 | 56 46 | 079 | 36 52 | 164 | 27 12 | 195 | 47 13 | 250 | 40 31 | 286 | 38 18 | 326 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦SIRIUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 120 | 25°41′ | 022 | 33°08′ | 077 | 37°08′ | 164 | 60°02′ | 217 | 46°17′ | 250 | 39°33′ | 286 | 37°45′ | 325 |
| 121 | 26 03 | 022 | 34 06 | 077 | 37 24 | 165 | 59 25 | 219 | 45 20 | 251 | 38 36 | 286 | 37 10 | 325 |
| 122 | 26 26 | 022 | 35 04 | 077 | 37 39 | 166 | 58 47 | 220 | 44 24 | 251 | 37 39 | 286 | 36 36 | 324 |
| 123 | 26 47 | 021 | 36 02 | 077 | 37 53 | 167 | 58 08 | 222 | 43 28 | 252 | 36 41 | 285 | 36 01 | 324 |
| 124 | 27 09 | 021 | 37 00 | 077 | 38 06 | 168 | 57 28 | 223 | 42 31 | 252 | 35 44 | 285 | 35 25 | 323 |
| 125 | 27°30′ | 021 | 37°58′ | 077 | 38°18′ | 169 | 56°47′ | 224 | 41°34′ | 253 | 34°47′ | 285 | 34°50′ | 323 |
| 126 | 27 51 | 020 | 38 57 | 077 | 38 29 | 170 | 56 05 | 225 | 40 37 | 253 | 33 49 | 285 | 34 14 | 322 |
| 127 | 28 11 | 020 | 39 55 | 077 | 38 39 | 171 | 55 22 | 226 | 39 40 | 253 | 32 52 | 285 | 33 37 | 322 |
| 128 | 28 32 | 020 | 40 53 | 077 | 38 48 | 171 | 54 38 | 228 | 38 43 | 254 | 31 54 | 285 | 33 00 | 322 |
| 129 | 28 51 | 019 | 41 51 | 077 | 38 57 | 172 | 53 54 | 229 | 37 46 | 254 | 30 57 | 285 | 32 23 | 321 |
| 130 | 29°11′ | 019 | 42°49′ | 077 | 39°04′ | 173 | 53°09′ | 230 | 36°49′ | 254 | 29°59′ | 285 | 31°46′ | 321 |
| 131 | 29 30 | 018 | 43 46 | 077 | 39 11 | 174 | 52 23 | 231 | 35 51 | 255 | 29 02 | 285 | 31 08 | 321 |
| 132 | 29 48 | 018 | 44 44 | 077 | 39 16 | 175 | 51 37 | 232 | 34 54 | 255 | 28 04 | 285 | 30 30 | 320 |
| 133 | 30 06 | 018 | 45 42 | 076 | 39 21 | 176 | 50 50 | 232 | 33 56 | 255 | 27 07 | 285 | 29 52 | 320 |
| 134 | 30 24 | 017 | 46 40 | 076 | 39 24 | 177 | 50 03 | 233 | 32 59 | 255 | 26 09 | 285 | 29 14 | 320 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦Suhail | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 30°41′ | 017 | 12°30′ | 072 | 21°19′ | 105 | 39°27′ | 178 | 49°15′ | 234 | 44°26′ | 274 | 28°35′ | 319 |
| 136 | 30 58 | 016 | 13 27 | 072 | 22 16 | 105 | 39 29 | 179 | 48 26 | 235 | 43 27 | 274 | 27 56 | 319 |
| 137 | 31 14 | 016 | 14 24 | 072 | 23 14 | 105 | 39 29 | 180 | 47 37 | 236 | 42 28 | 274 | 27 17 | 319 |
| 138 | 31 30 | 015 | 15 20 | 072 | 24 11 | 106 | 39 29 | 181 | 46 48 | 236 | 41 28 | 274 | 26 38 | 319 |
| 139 | 31 46 | 015 | 16 17 | 072 | 25 08 | 106 | 39 28 | 182 | 45 58 | 237 | 40 29 | 274 | 25 58 | 318 |
| 140 | 32°01′ | 014 | 17°14′ | 072 | 26°06′ | 106 | 39°25′ | 183 | 45°08′ | 238 | 39°29′ | 274 | 25°19′ | 318 |
| 141 | 32 15 | 014 | 18 10 | 072 | 27 03 | 106 | 39 22 | 184 | 44 18 | 238 | 38 30 | 274 | 24 39 | 318 |
| 142 | 32 29 | 013 | 19 07 | 072 | 28 00 | 107 | 39 18 | 185 | 43 27 | 239 | 37 30 | 274 | 23 59 | 318 |
| 143 | 32 43 | 013 | 20 04 | 072 | 28 57 | 107 | 39 13 | 185 | 42 36 | 240 | 36 31 | 274 | 23 18 | 317 |
| 144 | 32 56 | 012 | 21 01 | 072 | 29 54 | 107 | 39 07 | 186 | 41 44 | 240 | 35 32 | 274 | 22 38 | 317 |
| 145 | 33°08′ | 012 | 21°57′ | 072 | 30°50′ | 108 | 39°00′ | 187 | 40°52′ | 241 | 34°32′ | 274 | 21°57′ | 317 |
| 146 | 33 20 | 011 | 22 54 | 072 | 31 47 | 108 | 38 51 | 188 | 40 00 | 241 | 33 33 | 274 | 21 17 | 317 |
| 147 | 33 32 | 011 | 23 51 | 072 | 32 44 | 108 | 38 43 | 189 | 39 08 | 242 | 32 33 | 274 | 20 36 | 317 |
| 148 | 33 43 | 010 | 24 47 | 072 | 33 40 | 109 | 38 33 | 190 | 38 15 | 242 | 31 34 | 274 | 19 55 | 317 |
| 149 | 33 53 | 010 | 25 44 | 072 | 34 37 | 109 | 38 22 | 191 | 37 23 | 243 | 30 35 | 274 | 19 14 | 316 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ACRUX | | ✦Suhail | | SIRIUS | | ✦POLLUX | |
| 150 | 34°03′ | 009 | 26°41′ | 072 | 35°33′ | 109 | 14°25′ | 164 | 38°10′ | 192 | 36°30′ | 243 | 52°07′ | 308 |
| 151 | 34 12 | 009 | 27 37 | 072 | 36 29 | 110 | 14 41 | 164 | 37 57 | 193 | 35 36 | 244 | 51 19 | 307 |
| 152 | 34 21 | 008 | 28 34 | 072 | 37 25 | 110 | 14 57 | 165 | 37 44 | 194 | 34 43 | 244 | 50 32 | 306 |
| 153 | 34 29 | 008 | 29 31 | 072 | 38 21 | 110 | 15 13 | 165 | 37 29 | 194 | 33 49 | 244 | 49 44 | 306 |
| 154 | 34 36 | 007 | 30 27 | 072 | 39 17 | 111 | 15 28 | 165 | 37 14 | 195 | 32 55 | 245 | 48 55 | 305 |
| 155 | 34°43′ | 006 | 31°24′ | 072 | 40°12′ | 111 | 15°43′ | 166 | 36°58′ | 196 | 32°02′ | 245 | 48°06′ | 305 |
| 156 | 34 50 | 006 | 32 21 | 072 | 41 08 | 112 | 15 58 | 166 | 36 41 | 197 | 31 07 | 246 | 47 17 | 304 |
| 157 | 34 56 | 005 | 33 17 | 072 | 42 03 | 112 | 16 12 | 166 | 36 23 | 198 | 30 13 | 246 | 46 28 | 304 |
| 158 | 35 01 | 005 | 34 14 | 072 | 42 58 | 113 | 16 26 | 167 | 36 05 | 199 | 29 19 | 246 | 45 38 | 303 |
| 159 | 35 06 | 004 | 35 10 | 072 | 43 53 | 113 | 16 39 | 167 | 35 45 | 199 | 28 24 | 247 | 44 49 | 303 |
| 160 | 35°10′ | 004 | 36°07′ | 071 | 44°48′ | 114 | 16°52′ | 168 | 35°25′ | 200 | 27°29′ | 247 | 43°59′ | 303 |
| 161 | 35 13 | 003 | 37 03 | 071 | 45 42 | 114 | 17 04 | 168 | 35 04 | 201 | 26 34 | 247 | 43 08 | 302 |
| 162 | 35 16 | 002 | 37 59 | 071 | 46 37 | 115 | 17 16 | 169 | 34 43 | 202 | 25 39 | 248 | 42 18 | 302 |
| 163 | 35 18 | 002 | 38 56 | 071 | 47 31 | 115 | 17 28 | 169 | 34 20 | 202 | 24 44 | 248 | 41 27 | 301 |
| 164 | 35 20 | 001 | 39 52 | 071 | 48 24 | 116 | 17 39 | 169 | 33 57 | 203 | 23 49 | 248 | 40 36 | 301 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 35°21′ | 001 | 40°48′ | 071 | 49°18′ | 116 | 17°50′ | 170 | 33°33′ | 204 | 40°21′ | 271 | 39°45′ | 301 |
| 166 | 35 21 | 000 | 41 45 | 071 | 50 11 | 117 | 18 00 | 170 | 33 09 | 205 | 39 22 | 271 | 38 54 | 301 |
| 167 | 35 21 | 000 | 42 41 | 070 | 51 04 | 118 | 18 10 | 171 | 32 43 | 205 | 38 22 | 271 | 38 03 | 300 |
| 168 | 35 20 | 359 | 43 37 | 070 | 51 56 | 118 | 18 20 | 171 | 32 18 | 206 | 37 22 | 271 | 37 11 | 300 |
| 169 | 35 19 | 358 | 44 33 | 070 | 52 49 | 119 | 18 28 | 172 | 31 51 | 207 | 36 23 | 271 | 36 19 | 300 |
| 170 | 35°17′ | 358 | 45°29′ | 070 | 53°40′ | 120 | 18°37′ | 172 | 31°24′ | 207 | 35°23′ | 271 | 35°28′ | 300 |
| 171 | 35 14 | 357 | 46 25 | 070 | 54 32 | 121 | 18 45 | 172 | 30 56 | 208 | 34 24 | 271 | 34 36 | 299 |
| 172 | 35 11 | 357 | 47 20 | 069 | 55 23 | 122 | 18 53 | 173 | 30 28 | 209 | 33 24 | 272 | 33 44 | 299 |
| 173 | 35 08 | 356 | 48 16 | 069 | 56 13 | 123 | 19 00 | 173 | 29 59 | 209 | 32 25 | 272 | 32 52 | 299 |
| 174 | 35 03 | 356 | 49 12 | 069 | 57 03 | 123 | 19 06 | 174 | 29 30 | 210 | 31 25 | 272 | 32 00 | 299 |
| 175 | 34°58′ | 355 | 50°07′ | 068 | 57°53′ | 124 | 19°12′ | 174 | 29°00′ | 211 | 30°26′ | 272 | 31°07′ | 299 |
| 176 | 34 53 | 354 | 51 02 | 068 | 58 41 | 125 | 19 18 | 175 | 28 29 | 211 | 29 26 | 272 | 30 15 | 298 |
| 177 | 34 46 | 354 | 51 58 | 068 | 59 30 | 127 | 19 23 | 175 | 27 58 | 212 | 28 27 | 272 | 29 23 | 298 |
| 178 | 34 40 | 353 | 52 53 | 067 | 60 17 | 128 | 19 28 | 176 | 27 26 | 212 | 27 27 | 272 | 28 30 | 298 |
| 179 | 34 32 | 353 | 53 48 | 067 | 61 04 | 129 | 19 32 | 176 | 26 54 | 213 | 26 28 | 272 | 27 37 | 298 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | | ANTARES | | RIGIL KENT | | ✦ACRUX | | Suhail | | ✦REGULUS | | Dubhe | |
| 180 | 54°42′ | 067 | 16°28′ | 120 | 15°11′ | 161 | 19°36′ | 177 | 26°22′ | 213 | 62°19′ | 282 | 34°25′ | 352 |
| 181 | 55 37 | 066 | 17 19 | 121 | 15 30 | 161 | 19 39 | 177 | 25 49 | 214 | 61 21 | 282 | 34 16 | 352 |
| 182 | 56 31 | 066 | 18 11 | 121 | 15 49 | 162 | 19 41 | 178 | 25 15 | 214 | 60 22 | 282 | 34 07 | 351 |
| 183 | 57 26 | 065 | 19 02 | 121 | 16 07 | 162 | 19 44 | 178 | 24 42 | 215 | 59 24 | 282 | 33 58 | 350 |
| 184 | 58 19 | 065 | 19 52 | 121 | 16 25 | 163 | 19 45 | 179 | 24 07 | 215 | 58 26 | 281 | 33 47 | 350 |
| 185 | 59°13′ | 064 | 20°43′ | 122 | 16°43′ | 163 | 19°47′ | 179 | 23°33′ | 216 | 57°27′ | 281 | 33°37′ | 349 |
| 186 | 60 07 | 063 | 21 34 | 122 | 17 00 | 163 | 19 47 | 180 | 22 57 | 216 | 56 29 | 281 | 33 26 | 349 |
| 187 | 61 00 | 063 | 22 24 | 122 | 17 17 | 164 | 19 48 | 180 | 22 22 | 217 | 55 30 | 281 | 33 14 | 348 |
| 188 | 61 52 | 062 | 23 14 | 123 | 17 33 | 164 | 19 47 | 181 | 21 46 | 217 | 54 32 | 281 | 33 02 | 348 |
| 189 | 62 45 | 061 | 24 04 | 123 | 17 49 | 165 | 19 46 | 181 | 21 10 | 218 | 53 33 | 281 | 32 49 | 347 |
| 190 | 63°37′ | 060 | 24°54′ | 124 | 18°05′ | 165 | 19°45′ | 181 | 20°33′ | 218 | 52°35′ | 280 | 32°36′ | 347 |
| 191 | 64 28 | 060 | 25 44 | 124 | 18 20 | 166 | 19 43 | 182 | 19 56 | 219 | 51 36 | 280 | 32 22 | 346 |
| 192 | 65 20 | 059 | 26 33 | 124 | 18 35 | 166 | 19 41 | 182 | 19 19 | 219 | 50 37 | 280 | 32 08 | 346 |
| 193 | 66 10 | 058 | 27 22 | 125 | 18 49 | 166 | 19 38 | 183 | 18 42 | 219 | 49 39 | 280 | 31 53 | 345 |
| 194 | 67 00 | 056 | 28 11 | 125 | 19 03 | 167 | 19 35 | 183 | 18 04 | 220 | 48 40 | 280 | 31 38 | 345 |
| | ✦Alphecca | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 195 | 48°11′ | 057 | 21°59′ | 079 | 28°59′ | 126 | 19°16′ | 167 | 19°31′ | 184 | 47°41′ | 280 | 31°22′ | 344 |
| 196 | 49 01 | 057 | 22 57 | 079 | 29 48 | 126 | 19 29 | 168 | 19 27 | 184 | 46 43 | 280 | 31 06 | 344 |
| 197 | 49 50 | 056 | 23 56 | 079 | 30 36 | 126 | 19 41 | 168 | 19 22 | 185 | 45 44 | 280 | 30 49 | 344 |
| 198 | 50 40 | 056 | 24 54 | 079 | 31 23 | 127 | 19 53 | 169 | 19 17 | 185 | 44 45 | 280 | 30 32 | 343 |
| 199 | 51 29 | 055 | 25 53 | 079 | 32 11 | 127 | 20 04 | 169 | 19 11 | 186 | 43 47 | 280 | 30 14 | 343 |
| 200 | 52°18′ | 055 | 26°51′ | 079 | 32°58′ | 128 | 20°15′ | 170 | 19°05′ | 186 | 42°48′ | 280 | 29°57′ | 342 |
| 201 | 53 06 | 054 | 27 50 | 079 | 33 45 | 128 | 20 26 | 170 | 18 59 | 187 | 41 49 | 280 | 29 38 | 342 |
| 202 | 53 54 | 053 | 28 49 | 079 | 34 31 | 129 | 20 36 | 171 | 18 51 | 187 | 40 51 | 280 | 29 19 | 341 |
| 203 | 54 41 | 053 | 29 47 | 080 | 35 17 | 130 | 20 45 | 171 | 18 44 | 188 | 39 52 | 280 | 29 00 | 341 |
| 204 | 55 28 | 052 | 30 46 | 080 | 36 03 | 130 | 20 54 | 172 | 18 36 | 188 | 38 53 | 280 | 28 41 | 341 |
| 205 | 56°15′ | 051 | 31°44′ | 080 | 36°48′ | 131 | 21°02′ | 172 | 18°27′ | 188 | 37°55′ | 280 | 28°21′ | 340 |
| 206 | 57 01 | 050 | 32 43 | 080 | 37 33 | 131 | 21 10 | 173 | 18 18 | 189 | 36 56 | 280 | 28 00 | 340 |
| 207 | 57 46 | 049 | 33 41 | 080 | 38 18 | 132 | 21 18 | 173 | 18 09 | 189 | 35 57 | 280 | 27 40 | 340 |
| 208 | 58 31 | 048 | 34 40 | 080 | 39 02 | 133 | 21 25 | 174 | 17 59 | 190 | 34 58 | 280 | 27 19 | 339 |
| 209 | 59 15 | 047 | 35 38 | 080 | 39 45 | 133 | 21 31 | 174 | 17 48 | 190 | 34 00 | 280 | 26 57 | 339 |
| | ✦VEGA | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 210 | 20°24′ | 051 | 36°37′ | 080 | 40°28′ | 134 | 21°37′ | 175 | 17°38′ | 191 | 33°01′ | 280 | 26°36′ | 338 |
| 211 | 21 10 | 051 | 37 36 | 080 | 41 11 | 135 | 21 42 | 175 | 17 26 | 191 | 32 02 | 280 | 26 14 | 338 |
| 212 | 21 56 | 051 | 38 34 | 080 | 41 53 | 136 | 21 47 | 176 | 17 15 | 192 | 31 04 | 280 | 25 51 | 338 |
| 213 | 22 42 | 051 | 39 33 | 079 | 42 34 | 136 | 21 51 | 176 | 17 03 | 192 | 30 05 | 280 | 25 29 | 337 |
| 214 | 23 28 | 051 | 40 31 | 079 | 43 15 | 137 | 21 55 | 177 | 16 50 | 192 | 29 06 | 280 | 25 06 | 337 |
| 215 | 24°14′ | 050 | 41°30′ | 079 | 43°55′ | 138 | 21°58′ | 177 | 16°37′ | 193 | 28°07′ | 280 | 24°42′ | 337 |
| 216 | 25 00 | 050 | 42 28 | 079 | 44 35 | 139 | 22 00 | 178 | 16 24 | 193 | 27 09 | 280 | 24 19 | 337 |
| 217 | 25 46 | 050 | 43 27 | 079 | 45 14 | 140 | 22 02 | 178 | 16 10 | 194 | 26 10 | 280 | 23 55 | 336 |
| 218 | 26 32 | 050 | 44 25 | 079 | 45 52 | 141 | 22 04 | 179 | 15 56 | 194 | 25 11 | 280 | 23 31 | 336 |
| 219 | 27 17 | 050 | 45 24 | 079 | 46 30 | 141 | 22 05 | 179 | 15 41 | 194 | 24 13 | 280 | 23 06 | 336 |
| 220 | 28°02′ | 049 | 46°22′ | 079 | 47°07′ | 142 | 22°05′ | 180 | 15°26′ | 195 | 23°14′ | 280 | 22°42′ | 335 |
| 221 | 28 48 | 049 | 47 21 | 079 | 47 42 | 143 | 22 05 | 180 | 15 11 | 195 | 22 15 | 280 | 22 17 | 335 |
| 222 | 29 33 | 049 | 48 19 | 079 | 48 18 | 144 | 22 04 | 181 | 14 55 | 196 | 21 17 | 280 | 21 52 | 335 |
| 223 | 30 17 | 049 | 49 18 | 079 | 48 52 | 145 | 22 03 | 181 | 14 39 | 196 | 20 18 | 280 | 21 27 | 335 |
| 224 | 31 02 | 048 | 50 16 | 079 | 49 25 | 146 | 22 01 | 182 | 14 22 | 196 | 19 20 | 280 | 21 01 | 335 |
| | VEGA | | ✦ALTAIR | | Nunki | | ANTARES | | RIGIL KENT | | ✦SPICA | | ✦Alkaid | |
| 225 | 31°47′ | 048 | 17°51′ | 083 | 23°45′ | 123 | 49°58′ | 148 | 21°59′ | 182 | 60°23′ | 232 | 45°10′ | 343 |
| 226 | 32 31 | 048 | 18 50 | 083 | 24 35 | 123 | 50 29 | 149 | 21 56 | 183 | 59 35 | 233 | 44 53 | 343 |
| 227 | 33 15 | 048 | 19 50 | 083 | 25 25 | 124 | 50 59 | 150 | 21 53 | 184 | 58 47 | 234 | 44 34 | 342 |
| 228 | 33 59 | 047 | 20 49 | 083 | 26 15 | 124 | 51 29 | 151 | 21 49 | 184 | 57 58 | 235 | 44 15 | 341 |
| 229 | 34 42 | 047 | 21 48 | 083 | 27 04 | 124 | 51 57 | 152 | 21 44 | 185 | 57 09 | 236 | 43 56 | 340 |
| 230 | 35°26′ | 047 | 22°47′ | 083 | 27°53′ | 125 | 52°24′ | 154 | 21°39′ | 185 | 56°19′ | 237 | 43°35′ | 339 |
| 231 | 36 09 | 046 | 23 46 | 083 | 28 42 | 125 | 52 50 | 155 | 21 34 | 186 | 55 29 | 238 | 43 14 | 339 |
| 232 | 36 52 | 046 | 24 45 | 083 | 29 30 | 126 | 53 15 | 156 | 21 28 | 186 | 54 38 | 239 | 42 52 | 338 |
| 233 | 37 34 | 045 | 25 44 | 083 | 30 19 | 126 | 53 38 | 158 | 21 21 | 187 | 53 46 | 240 | 42 29 | 337 |
| 234 | 38 17 | 045 | 26 44 | 084 | 31 07 | 127 | 54 00 | 159 | 21 14 | 187 | 52 55 | 241 | 42 06 | 337 |
| 235 | 38°59′ | 045 | 27°43′ | 084 | 31°54′ | 127 | 54°21′ | 160 | 21°06′ | 188 | 52°03′ | 241 | 41°42′ | 336 |
| 236 | 39 40 | 044 | 28 42 | 084 | 32 42 | 127 | 54 40 | 162 | 20 58 | 188 | 51 10 | 242 | 41 17 | 335 |
| 237 | 40 21 | 044 | 29 41 | 084 | 33 29 | 128 | 54 58 | 163 | 20 49 | 189 | 50 17 | 243 | 40 52 | 334 |
| 238 | 41 02 | 043 | 30 40 | 084 | 34 16 | 129 | 55 14 | 165 | 20 40 | 189 | 49 24 | 244 | 40 26 | 334 |
| 239 | 41 43 | 043 | 31 40 | 084 | 35 02 | 129 | 55 29 | 166 | 20 30 | 190 | 48 31 | 244 | 39 59 | 333 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ✦ARCTURUS | | Alkaid | |
| 240 | 42°23′ | 042 | 32°39′ | 084 | 35°48′ | 130 | 55°43′ | 168 | 47°37′ | 245 | 62°07′ | 298 | 39°32′ | 333 |
| 241 | 43 03 | 041 | 33 38 | 084 | 36 34 | 130 | 55 55 | 169 | 46 43 | 245 | 61 14 | 297 | 39 04 | 332 |
| 242 | 43 42 | 041 | 34 37 | 084 | 37 19 | 131 | 56 05 | 171 | 45 49 | 246 | 60 21 | 297 | 38 36 | 331 |
| 243 | 44 21 | 040 | 35 36 | 084 | 38 04 | 131 | 56 13 | 172 | 44 54 | 246 | 59 28 | 296 | 38 07 | 331 |
| 244 | 44 59 | 040 | 36 36 | 084 | 38 48 | 132 | 56 20 | 174 | 43 59 | 247 | 58 34 | 296 | 37 38 | 330 |
| 245 | 45°37′ | 039 | 37°35′ | 084 | 39°32′ | 133 | 56°26′ | 176 | 43°05′ | 247 | 57°41′ | 295 | 37°08′ | 330 |
| 246 | 46 14 | 038 | 38 34 | 084 | 40 16 | 133 | 56 29 | 177 | 42 10 | 248 | 56 47 | 294 | 36 38 | 329 |
| 247 | 46 50 | 038 | 39 33 | 084 | 40 59 | 134 | 56 31 | 179 | 41 14 | 248 | 55 52 | 294 | 36 07 | 329 |
| 248 | 47 26 | 037 | 40 33 | 084 | 41 41 | 135 | 56 31 | 181 | 40 19 | 249 | 54 58 | 293 | 35 36 | 328 |
| 249 | 48 02 | 036 | 41 32 | 084 | 42 23 | 136 | 56 30 | 182 | 39 23 | 249 | 54 03 | 293 | 35 05 | 328 |
| 250 | 48°37′ | 035 | 42°31′ | 084 | 43°04′ | 136 | 56°27′ | 184 | 38°28′ | 250 | 53°08′ | 293 | 34°33′ | 327 |
| 251 | 49 11 | 035 | 43 30 | 084 | 43 45 | 137 | 56 22 | 185 | 37 32 | 250 | 52 13 | 292 | 34 00 | 327 |
| 252 | 49 44 | 034 | 44 30 | 084 | 44 25 | 138 | 56 16 | 187 | 36 36 | 250 | 51 18 | 292 | 33 28 | 326 |
| 253 | 50 17 | 033 | 45 29 | 084 | 45 04 | 139 | 56 08 | 189 | 35 39 | 251 | 50 23 | 292 | 32 54 | 326 |
| 254 | 50 49 | 032 | 46 28 | 084 | 45 43 | 140 | 55 58 | 190 | 34 43 | 251 | 49 27 | 291 | 32 21 | 326 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ARCTURUS | | ✦Alkaid | |
| 255 | 51°20′ | 031 | 47°27′ | 084 | 46°21′ | 141 | 55°47′ | 192 | 33°47′ | 251 | 48°32′ | 291 | 31°47′ | 325 |
| 256 | 51 50 | 030 | 48 27 | 084 | 46 58 | 142 | 55 34 | 193 | 32 50 | 252 | 47 36 | 291 | 31 13 | 325 |
| 257 | 52 20 | 029 | 49 26 | 084 | 47 35 | 143 | 55 19 | 195 | 31 54 | 252 | 46 40 | 290 | 30 39 | 324 |
| 258 | 52 48 | 028 | 50 25 | 084 | 48 11 | 144 | 55 03 | 196 | 30 57 | 252 | 45 44 | 290 | 30 04 | 324 |
| 259 | 53 16 | 027 | 51 25 | 084 | 48 45 | 145 | 54 46 | 198 | 30 00 | 253 | 44 48 | 290 | 29 29 | 324 |
| 260 | 53°42′ | 026 | 52°24′ | 084 | 49°19′ | 146 | 54°27′ | 199 | 29°03′ | 253 | 43°52′ | 290 | 28°54′ | 323 |
| 261 | 54 08 | 025 | 53 23 | 084 | 49 52 | 147 | 54 07 | 201 | 28 06 | 253 | 42 56 | 290 | 28 18 | 323 |
| 262 | 54 32 | 024 | 54 22 | 084 | 50 24 | 148 | 53 45 | 202 | 27 09 | 253 | 42 00 | 289 | 27 42 | 323 |
| 263 | 54 55 | 023 | 55 22 | 084 | 50 55 | 149 | 53 22 | 203 | 26 12 | 254 | 41 04 | 289 | 27 06 | 323 |
| 264 | 55 18 | 021 | 56 21 | 084 | 51 25 | 150 | 52 58 | 205 | 25 15 | 254 | 40 08 | 289 | 26 30 | 322 |
| 265 | 55°39′ | 020 | 57°20′ | 084 | 51°54′ | 152 | 52°32′ | 206 | 24°18′ | 254 | 39°12′ | 289 | 25°53′ | 322 |
| 266 | 55 59 | 019 | 58 19 | 084 | 52 22 | 153 | 52 05 | 207 | 23 20 | 254 | 38 15 | 289 | 25 16 | 322 |
| 267 | 56 17 | 018 | 59 19 | 084 | 52 49 | 154 | 51 38 | 209 | 22 23 | 255 | 37 19 | 289 | 24 40 | 322 |
| 268 | 56 34 | 016 | 60 18 | 084 | 53 14 | 155 | 51 09 | 210 | 21 25 | 255 | 36 22 | 289 | 24 02 | 321 |
| 269 | 56 50 | 015 | 61 17 | 084 | 53 38 | 157 | 50 38 | 211 | 20 28 | 255 | 35 26 | 288 | 23 25 | 321 |

LAT 7°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEGA | | ✦DENEB | | Enif | | ✦Nunki | | Shaula | | ANTARES | | ✦ARCTURUS | |
| 270 | 57°05′ | 014 | 38°05′ | 035 | 34°19′ | 083 | 54°01′ | 158 | 45°30′ | 187 | 50°07′ | 212 | 34°29′ | 288 |
| 271 | 57 18 | 012 | 38 40 | 035 | 35 18 | 083 | 54 23 | 160 | 45 22 | 188 | 49 35 | 213 | 33 33 | 288 |
| 272 | 57 30 | 011 | 39 14 | 034 | 36 17 | 083 | 54 43 | 161 | 45 13 | 189 | 49 02 | 214 | 32 36 | 288 |
| 273 | 57 41 | 009 | 39 47 | 034 | 37 16 | 083 | 55 01 | 162 | 45 02 | 190 | 48 28 | 215 | 31 40 | 288 |
| 274 | 57 50 | 008 | 40 20 | 033 | 38 15 | 083 | 55 19 | 164 | 44 51 | 192 | 47 53 | 216 | 30 43 | 288 |
| 275 | 57°57′ | 006 | 40°52′ | 033 | 39°14′ | 083 | 55°34′ | 165 | 44°39′ | 193 | 47°18′ | 217 | 29°46′ | 288 |
| 276 | 58 03 | 005 | 41 24 | 032 | 40 13 | 083 | 55 49 | 167 | 44 25 | 194 | 46 41 | 218 | 28 50 | 288 |
| 277 | 58 07 | 004 | 41 56 | 031 | 41 12 | 083 | 56 01 | 169 | 44 10 | 195 | 46 04 | 219 | 27 53 | 288 |
| 278 | 58 10 | 002 | 42 26 | 031 | 42 11 | 083 | 56 12 | 170 | 43 55 | 196 | 45 26 | 220 | 26 57 | 288 |
| 279 | 58 12 | 001 | 42 57 | 030 | 43 10 | 083 | 56 22 | 172 | 43 38 | 197 | 44 47 | 221 | 26 00 | 288 |
| 280 | 58°12′ | 359 | 43°26′ | 029 | 44°09′ | 083 | 56°29′ | 173 | 43°20′ | 198 | 44°08′ | 222 | 25°03′ | 288 |
| 281 | 58 10 | 358 | 43 55 | 029 | 45 08 | 083 | 56 36 | 175 | 43 01 | 199 | 43 28 | 223 | 24 06 | 288 |
| 282 | 58 07 | 356 | 44 23 | 028 | 46 08 | 083 | 56 40 | 177 | 42 42 | 200 | 42 47 | 223 | 23 10 | 288 |
| 283 | 58 02 | 355 | 44 51 | 027 | 47 07 | 083 | 56 43 | 178 | 42 21 | 201 | 42 06 | 224 | 22 13 | 288 |
| 284 | 57 56 | 353 | 45 18 | 026 | 48 06 | 083 | 56 44 | 180 | 41 59 | 202 | 41 24 | 225 | 21 16 | 288 |
| | DENEB | | ✦Alpheratz | | FOMALHAUT | | ✦Nunki | | ANTARES | | ✦Rasalhague | | VEGA | |
| 285 | 45°44′ | 026 | 14°26′ | 062 | 22°05′ | 126 | 56°43′ | 181 | 40°42′ | 226 | 68°33′ | 287 | 57°48′ | 352 |
| 286 | 46 10 | 025 | 15 18 | 062 | 22 53 | 126 | 56 41 | 183 | 39 59 | 226 | 67 36 | 286 | 57 39 | 350 |
| 287 | 46 34 | 024 | 16 10 | 062 | 23 41 | 127 | 56 37 | 185 | 39 15 | 227 | 66 39 | 286 | 57 28 | 349 |
| 288 | 46 58 | 023 | 17 03 | 062 | 24 29 | 127 | 56 31 | 186 | 38 31 | 228 | 65 41 | 285 | 57 16 | 348 |
| 289 | 47 21 | 022 | 17 55 | 062 | 25 16 | 127 | 56 24 | 188 | 37 47 | 228 | 64 44 | 285 | 57 02 | 346 |
| 290 | 47°44′ | 021 | 18°47′ | 061 | 26°03′ | 128 | 56°15′ | 190 | 37°02′ | 229 | 63°46′ | 284 | 56°47′ | 345 |
| 291 | 48 05 | 021 | 19 40 | 061 | 26 50 | 128 | 56 04 | 191 | 36 17 | 230 | 62 48 | 284 | 56 31 | 343 |
| 292 | 48 25 | 020 | 20 32 | 061 | 27 37 | 129 | 55 52 | 193 | 35 31 | 230 | 61 50 | 284 | 56 14 | 342 |
| 293 | 48 45 | 019 | 21 24 | 061 | 28 23 | 129 | 55 38 | 194 | 34 45 | 231 | 60 52 | 283 | 55 55 | 341 |
| 294 | 49 04 | 018 | 22 17 | 061 | 29 09 | 130 | 55 23 | 196 | 33 59 | 231 | 59 54 | 283 | 55 35 | 340 |
| 295 | 49°21′ | 017 | 23°09′ | 061 | 29°55′ | 130 | 55°06′ | 197 | 33°12′ | 232 | 58°56′ | 283 | 55°13′ | 338 |
| 296 | 49 38 | 016 | 24 01 | 061 | 30 41 | 131 | 54 47 | 199 | 32 25 | 232 | 57 58 | 282 | 54 51 | 337 |
| 297 | 49 54 | 015 | 24 53 | 061 | 31 26 | 131 | 54 28 | 200 | 31 38 | 233 | 57 00 | 282 | 54 27 | 336 |
| 298 | 50 08 | 014 | 25 45 | 061 | 32 10 | 132 | 54 06 | 202 | 30 50 | 233 | 56 02 | 282 | 54 03 | 335 |
| 299 | 50 22 | 013 | 26 37 | 061 | 32 55 | 132 | 53 44 | 203 | 30 02 | 234 | 55 04 | 282 | 53 37 | 334 |
| | ✦DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | VEGA | |
| 300 | 50°35′ | 012 | 27°29′ | 061 | 33°39′ | 133 | 26°05′ | 176 | 29°14′ | 234 | 54°05′ | 282 | 53°10′ | 333 |
| 301 | 50 46 | 011 | 28 21 | 061 | 34 22 | 133 | 26 09 | 176 | 28 26 | 235 | 53 07 | 282 | 52 42 | 332 |
| 302 | 50 57 | 010 | 29 13 | 060 | 35 06 | 134 | 26 12 | 177 | 27 37 | 235 | 52 09 | 281 | 52 14 | 331 |
| 303 | 51 06 | 008 | 30 04 | 060 | 35 48 | 134 | 26 15 | 178 | 26 48 | 236 | 51 10 | 281 | 51 44 | 330 |
| 304 | 51 14 | 007 | 30 56 | 060 | 36 30 | 135 | 26 17 | 178 | 25 59 | 236 | 50 12 | 281 | 51 14 | 329 |
| 305 | 51°21′ | 006 | 31°48′ | 060 | 37°12′ | 136 | 26°19′ | 179 | 25°09′ | 236 | 49°13′ | 281 | 50°43′ | 328 |
| 306 | 51 27 | 005 | 32 39 | 060 | 37 54 | 136 | 26 20 | 180 | 24 20 | 237 | 48 15 | 281 | 50 10 | 327 |
| 307 | 51 32 | 004 | 33 30 | 059 | 38 34 | 137 | 26 20 | 180 | 23 30 | 237 | 47 16 | 281 | 49 38 | 326 |
| 308 | 51 35 | 003 | 34 22 | 059 | 39 15 | 138 | 26 19 | 181 | 22 40 | 237 | 46 18 | 281 | 49 04 | 325 |
| 309 | 51 38 | 002 | 35 13 | 059 | 39 54 | 139 | 26 18 | 181 | 21 49 | 238 | 45 19 | 281 | 48 30 | 324 |
| 310 | 51°39′ | 001 | 36°04′ | 059 | 40°33′ | 139 | 26°17′ | 182 | 20°59′ | 238 | 44°21′ | 281 | 47°55′ | 324 |
| 311 | 51 39 | 359 | 36 55 | 059 | 41 12 | 140 | 26 14 | 183 | 20 08 | 238 | 43 22 | 281 | 47 19 | 323 |
| 312 | 51 38 | 358 | 37 45 | 058 | 41 50 | 141 | 26 11 | 183 | 19 17 | 239 | 42 24 | 281 | 46 43 | 322 |
| 313 | 51 35 | 357 | 38 36 | 058 | 42 27 | 142 | 26 08 | 184 | 18 26 | 239 | 41 25 | 281 | 46 06 | 322 |
| 314 | 51 32 | 356 | 39 26 | 058 | 43 04 | 143 | 26 03 | 184 | 17 35 | 239 | 40 27 | 281 | 45 29 | 321 |
| | Alpheratz | | ✦Diphda | | FOMALHAUT | | ✦Nunki | | Rasalhague | | VEGA | | ✦DENEB | |
| 315 | 40°16′ | 057 | 29°16′ | 115 | 43°39′ | 143 | 45°14′ | 221 | 39°28′ | 281 | 44°51′ | 320 | 51°27′ | 355 |
| 316 | 41 06 | 057 | 30 10 | 115 | 44 14 | 144 | 44 35 | 222 | 38 30 | 280 | 44 13 | 320 | 51 21 | 354 |
| 317 | 41 56 | 057 | 31 03 | 116 | 44 49 | 145 | 43 55 | 223 | 37 31 | 280 | 43 34 | 319 | 51 14 | 353 |
| 318 | 42 46 | 056 | 31 57 | 116 | 45 22 | 146 | 43 14 | 223 | 36 33 | 280 | 42 55 | 318 | 51 06 | 352 |
| 319 | 43 35 | 056 | 32 50 | 117 | 45 55 | 147 | 42 33 | 224 | 35 34 | 280 | 42 15 | 318 | 50 57 | 351 |
| 320 | 44°24′ | 055 | 33°43′ | 117 | 46°27′ | 148 | 41°51′ | 225 | 34°35′ | 280 | 41°35′ | 317 | 50°47′ | 349 |
| 321 | 45 13 | 055 | 34 36 | 117 | 46 58 | 149 | 41 09 | 226 | 33 37 | 280 | 40 54 | 317 | 50 35 | 348 |
| 322 | 46 02 | 055 | 35 29 | 118 | 47 28 | 150 | 40 26 | 226 | 32 38 | 280 | 40 13 | 316 | 50 23 | 347 |
| 323 | 46 50 | 054 | 36 22 | 118 | 47 57 | 151 | 39 43 | 227 | 31 40 | 280 | 39 32 | 316 | 50 09 | 346 |
| 324 | 47 38 | 054 | 37 14 | 119 | 48 25 | 152 | 38 59 | 228 | 30 41 | 280 | 38 50 | 315 | 49 55 | 345 |
| 325 | 48°26′ | 053 | 38°06′ | 119 | 48°52′ | 154 | 38°15′ | 228 | 29°43′ | 280 | 38°08′ | 315 | 49°39′ | 344 |
| 326 | 49 13 | 052 | 38 58 | 120 | 49 18 | 155 | 37 30 | 229 | 28 44 | 281 | 37 26 | 315 | 49 22 | 343 |
| 327 | 50 00 | 052 | 39 49 | 120 | 49 43 | 156 | 36 45 | 230 | 27 46 | 281 | 36 43 | 314 | 49 05 | 342 |
| 328 | 50 47 | 051 | 40 41 | 121 | 50 07 | 157 | 35 59 | 230 | 26 47 | 281 | 36 00 | 314 | 48 46 | 341 |
| 329 | 51 33 | 051 | 41 32 | 121 | 50 29 | 158 | 35 13 | 231 | 25 48 | 281 | 35 17 | 313 | 48 26 | 340 |
| | ✦Alpheratz | | Diphda | | ✦FOMALHAUT | | Peacock | | ALTAIR | | ✦VEGA | | DENEB | |
| 330 | 52°19′ | 050 | 42°22′ | 122 | 50°51′ | 160 | 23°33′ | 194 | 58°12′ | 276 | 34°34′ | 313 | 48°06′ | 339 |
| 331 | 53 04 | 049 | 43 13 | 123 | 51 11 | 161 | 23 18 | 194 | 57 13 | 276 | 33 50 | 313 | 47 45 | 339 |
| 332 | 53 49 | 048 | 44 03 | 123 | 51 30 | 162 | 23 03 | 195 | 56 13 | 276 | 33 06 | 312 | 47 22 | 338 |
| 333 | 54 33 | 048 | 44 52 | 124 | 51 48 | 163 | 22 48 | 195 | 55 14 | 276 | 32 22 | 312 | 46 59 | 337 |
| 334 | 55 17 | 047 | 45 41 | 125 | 52 04 | 165 | 22 32 | 196 | 54 15 | 276 | 31 38 | 312 | 46 36 | 336 |
| 335 | 56°00′ | 046 | 46°30′ | 125 | 52°19′ | 166 | 22°16′ | 196 | 53°15′ | 276 | 30°53′ | 311 | 46°11′ | 335 |
| 336 | 56 42 | 045 | 47 18 | 126 | 52 32 | 168 | 21 59 | 197 | 52 16 | 276 | 30 09 | 311 | 45 46 | 334 |
| 337 | 57 24 | 044 | 48 06 | 127 | 52 45 | 169 | 21 41 | 197 | 51 17 | 276 | 29 24 | 311 | 45 19 | 334 |
| 338 | 58 05 | 043 | 48 54 | 128 | 52 55 | 170 | 21 23 | 198 | 50 18 | 276 | 28 39 | 311 | 44 52 | 333 |
| 339 | 58 45 | 042 | 49 41 | 129 | 53 05 | 172 | 21 05 | 198 | 49 18 | 276 | 27 53 | 310 | 44 25 | 332 |
| 340 | 59°24′ | 041 | 50°27′ | 129 | 53°12′ | 173 | 20°46′ | 199 | 48°19′ | 276 | 27°08′ | 310 | 43°57′ | 331 |
| 341 | 60 03 | 040 | 51 13 | 130 | 53 19 | 175 | 20 26 | 199 | 47 20 | 276 | 26 23 | 310 | 43 28 | 331 |
| 342 | 60 40 | 038 | 51 58 | 131 | 53 23 | 176 | 20 07 | 200 | 46 21 | 276 | 25 37 | 310 | 42 58 | 330 |
| 343 | 61 16 | 037 | 52 42 | 132 | 53 27 | 178 | 19 46 | 200 | 45 21 | 276 | 24 51 | 310 | 42 28 | 329 |
| 344 | 61 52 | 036 | 53 26 | 133 | 53 29 | 179 | 19 25 | 201 | 44 22 | 276 | 24 05 | 310 | 41 57 | 329 |
| | ✦Mirfak | | Hamal | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 345 | 20°24′ | 039 | 41°57′ | 064 | 17°38′ | 136 | 18°13′ | 159 | 53°29′ | 180 | 43°23′ | 276 | 41°26′ | 328 |
| 346 | 21 02 | 039 | 42 50 | 064 | 18 19 | 137 | 18 34 | 159 | 53 28 | 182 | 42 23 | 276 | 40 54 | 327 |
| 347 | 21 39 | 039 | 43 44 | 064 | 19 00 | 137 | 18 55 | 160 | 53 25 | 183 | 41 24 | 276 | 40 22 | 327 |
| 348 | 22 16 | 038 | 44 37 | 064 | 19 41 | 137 | 19 16 | 160 | 53 21 | 185 | 40 25 | 276 | 39 49 | 326 |
| 349 | 22 53 | 038 | 45 30 | 063 | 20 21 | 138 | 19 36 | 160 | 53 15 | 186 | 39 26 | 276 | 39 15 | 326 |
| 350 | 23°30′ | 038 | 46°24′ | 063 | 21°01′ | 138 | 19°56′ | 161 | 53°08′ | 188 | 38°26′ | 276 | 38°41′ | 325 |
| 351 | 24 07 | 038 | 47 17 | 063 | 21 41 | 139 | 20 15 | 161 | 52 59 | 189 | 37 27 | 276 | 38 07 | 325 |
| 352 | 24 43 | 038 | 48 09 | 062 | 22 20 | 139 | 20 34 | 162 | 52 49 | 191 | 36 28 | 276 | 37 32 | 324 |
| 353 | 25 19 | 037 | 49 02 | 062 | 22 59 | 139 | 20 52 | 162 | 52 37 | 192 | 35 29 | 276 | 36 57 | 324 |
| 354 | 25 55 | 037 | 49 54 | 061 | 23 37 | 140 | 21 10 | 163 | 52 24 | 193 | 34 30 | 276 | 36 22 | 323 |
| 355 | 26°31′ | 037 | 50°46′ | 061 | 24°16′ | 140 | 21°28′ | 163 | 52°10′ | 195 | 33°30′ | 276 | 35°46′ | 323 |
| 356 | 27 07 | 037 | 51 38 | 060 | 24 54 | 141 | 21 45 | 164 | 51 54 | 196 | 32 31 | 276 | 35 09 | 322 |
| 357 | 27 42 | 036 | 52 30 | 060 | 25 31 | 141 | 22 01 | 164 | 51 37 | 197 | 31 32 | 276 | 34 33 | 322 |
| 358 | 28 17 | 036 | 53 21 | 059 | 26 08 | 142 | 22 17 | 165 | 51 18 | 199 | 30 33 | 276 | 33 56 | 321 |
| 359 | 28 52 | 036 | 54 12 | 059 | 26 45 | 142 | 22 32 | 165 | 50 58 | 200 | 29 34 | 276 | 33 18 | 321 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦CAPELLA | | ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 11°34′ | 044 | 21°33′ | 075 | 10°05′ | 099 | 23°45′ | 166 | 51°33′ | 202 | 28°27′ | 277 | 31°54′ | 321 |
| 1 | 12 16 | 044 | 22 31 | 075 | 11 04 | 100 | 24 00 | 166 | 51 11 | 203 | 27 28 | 277 | 31 17 | 321 |
| 2 | 12 58 | 044 | 23 28 | 075 | 12 03 | 100 | 24 14 | 167 | 50 47 | 204 | 26 29 | 277 | 30 39 | 320 |
| 3 | 13 39 | 044 | 24 26 | 075 | 13 02 | 100 | 24 27 | 167 | 50 22 | 205 | 25 30 | 277 | 30 00 | 320 |
| 4 | 14 21 | 044 | 25 23 | 075 | 14 00 | 100 | 24 40 | 168 | 49 56 | 207 | 24 30 | 277 | 29 22 | 320 |
| 5 | 15°02′ | 044 | 26°21′ | 074 | 14°59′ | 100 | 24°52′ | 168 | 49°28′ | 208 | 23°31′ | 277 | 28°43′ | 319 |
| 6 | 15 43 | 044 | 27 18 | 074 | 15 58 | 100 | 25 04 | 169 | 49 00 | 209 | 22 32 | 277 | 28 04 | 319 |
| 7 | 16 24 | 044 | 28 16 | 074 | 16 57 | 100 | 25 15 | 170 | 48 31 | 210 | 21 33 | 277 | 27 25 | 319 |
| 8 | 17 06 | 044 | 29 13 | 074 | 17 55 | 101 | 25 26 | 170 | 48 01 | 211 | 20 34 | 277 | 26 45 | 318 |
| 9 | 17 47 | 043 | 30 11 | 074 | 18 54 | 101 | 25 35 | 171 | 47 29 | 212 | 19 34 | 277 | 26 06 | 318 |
| 10 | 18°28′ | 043 | 31°08′ | 074 | 19°53′ | 101 | 25°45′ | 171 | 46°57′ | 213 | 18°35′ | 277 | 25°26′ | 318 |
| 11 | 19 09 | 043 | 32 05 | 074 | 20 51 | 101 | 25 54 | 172 | 46 24 | 214 | 17 36 | 277 | 24 46 | 318 |
| 12 | 19 49 | 043 | 33 03 | 074 | 21 50 | 101 | 26 02 | 172 | 45 51 | 215 | 16 37 | 278 | 24 05 | 317 |
| 13 | 20 30 | 043 | 34 00 | 074 | 22 48 | 102 | 26 09 | 173 | 45 16 | 216 | 15 38 | 278 | 23 25 | 317 |
| 14 | 21 11 | 043 | 34 58 | 074 | 23 47 | 102 | 26 16 | 174 | 44 41 | 217 | 14 39 | 278 | 22 44 | 317 |
| | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦DENEB | |
| 15 | 21°51′ | 042 | 35°55′ | 074 | 24°45′ | 102 | 26°23′ | 174 | 44°04′ | 218 | 41°38′ | 278 | 22°03′ | 317 |
| 16 | 22 31 | 042 | 36 52 | 074 | 25 43 | 102 | 26 28 | 175 | 43 28 | 219 | 40 39 | 278 | 21 23 | 317 |
| 17 | 23 11 | 042 | 37 49 | 074 | 26 42 | 102 | 26 33 | 175 | 42 50 | 219 | 39 40 | 278 | 20 42 | 316 |
| 18 | 23 51 | 042 | 38 47 | 074 | 27 40 | 103 | 26 38 | 176 | 42 12 | 220 | 38 41 | 278 | 20 00 | 316 |
| 19 | 24 31 | 042 | 39 44 | 073 | 28 38 | 103 | 26 42 | 177 | 41 33 | 221 | 37 42 | 278 | 19 19 | 316 |
| 20 | 25°10′ | 041 | 40°41′ | 073 | 29°36′ | 103 | 26°45′ | 177 | 40°54′ | 222 | 36°43′ | 278 | 18°38′ | 316 |
| 21 | 25 50 | 041 | 41 38 | 073 | 30 34 | 103 | 26 48 | 178 | 40 14 | 222 | 35 44 | 278 | 17 56 | 316 |
| 22 | 26 29 | 041 | 42 35 | 073 | 31 33 | 103 | 26 50 | 178 | 39 33 | 223 | 34 45 | 278 | 17 15 | 316 |
| 23 | 27 08 | 041 | 43 32 | 073 | 32 31 | 104 | 26 51 | 179 | 38 52 | 224 | 33 46 | 278 | 16 33 | 316 |
| 24 | 27 47 | 040 | 44 29 | 073 | 33 28 | 104 | 26 52 | 180 | 38 10 | 225 | 32 46 | 278 | 15 51 | 316 |
| 25 | 28°25′ | 040 | 45°26′ | 072 | 34°26′ | 104 | 26°52′ | 180 | 37°28′ | 225 | 31°47′ | 278 | 15°09′ | 315 |
| 26 | 29 03 | 040 | 46 23 | 072 | 35 24 | 104 | 26 51 | 181 | 36 46 | 226 | 30 48 | 278 | 14 27 | 315 |
| 27 | 29 41 | 039 | 47 20 | 072 | 36 22 | 105 | 26 50 | 181 | 36 03 | 226 | 29 49 | 278 | 13 46 | 315 |
| 28 | 30 19 | 039 | 48 17 | 072 | 37 20 | 105 | 26 48 | 182 | 35 19 | 227 | 28 50 | 278 | 13 04 | 315 |
| 29 | 30 57 | 039 | 49 13 | 072 | 38 17 | 105 | 26 46 | 183 | 34 35 | 228 | 27 51 | 278 | 12 21 | 315 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 42°32′ | 019 | 31°34′ | 038 | 50°10′ | 071 | 39°15′ | 106 | 26°43′ | 183 | 33°51′ | 228 | 55°05′ | 315 |
| 31 | 42 50 | 018 | 32 11 | 038 | 51 06 | 071 | 40 12 | 106 | 26 39 | 184 | 33 07 | 229 | 54 23 | 314 |
| 32 | 43 08 | 017 | 32 47 | 038 | 52 03 | 071 | 41 09 | 106 | 26 35 | 184 | 32 22 | 229 | 53 39 | 313 |
| 33 | 43 25 | 016 | 33 23 | 037 | 52 59 | 070 | 42 07 | 107 | 26 30 | 185 | 31 36 | 230 | 52 56 | 312 |
| 34 | 43 42 | 015 | 33 59 | 037 | 53 55 | 070 | 43 04 | 107 | 26 24 | 186 | 30 50 | 230 | 52 11 | 312 |
| 35 | 43°57′ | 015 | 34°35′ | 036 | 54°51′ | 070 | 44°01′ | 107 | 26°18′ | 186 | 30°04′ | 231 | 51°27′ | 311 |
| 36 | 44 12 | 014 | 35 10 | 036 | 55 47 | 069 | 44 57 | 108 | 26 11 | 187 | 29 18 | 231 | 50 41 | 310 |
| 37 | 44 26 | 013 | 35 44 | 035 | 56 43 | 069 | 45 54 | 108 | 26 03 | 187 | 28 31 | 232 | 49 55 | 310 |
| 38 | 44 39 | 012 | 36 19 | 035 | 57 38 | 068 | 46 51 | 109 | 25 55 | 188 | 27 45 | 232 | 49 09 | 309 |
| 39 | 44 51 | 011 | 36 53 | 034 | 58 34 | 068 | 47 47 | 109 | 25 47 | 189 | 26 57 | 232 | 48 23 | 308 |
| 40 | 45°02′ | 010 | 37°26′ | 034 | 59°29′ | 067 | 48°43′ | 110 | 25°38′ | 189 | 26°10′ | 233 | 47°36′ | 308 |
| 41 | 45 12 | 010 | 37 59 | 033 | 60 24 | 067 | 49 40 | 110 | 25 28 | 190 | 25 22 | 233 | 46 48 | 307 |
| 42 | 45 22 | 009 | 38 32 | 033 | 61 18 | 066 | 50 35 | 111 | 25 17 | 190 | 24 34 | 234 | 46 01 | 307 |
| 43 | 45 30 | 008 | 39 04 | 032 | 62 13 | 065 | 51 31 | 111 | 25 06 | 191 | 23 46 | 234 | 45 13 | 306 |
| 44 | 45 38 | 007 | 39 35 | 032 | 63 07 | 065 | 52 27 | 112 | 24 55 | 191 | 22 58 | 234 | 44 24 | 306 |
| | ✦CAPELLA | | PROCYON | | SIRIUS | | ✦CANOPUS | | ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 40°06′ | 031 | 20°18′ | 087 | 29°42′ | 113 | 17°10′ | 150 | 24°43′ | 192 | 48°56′ | 234 | 43°36′ | 305 |
| 46 | 40 37 | 030 | 21 17 | 087 | 30 37 | 114 | 17 40 | 151 | 24 30 | 193 | 48 07 | 235 | 42 47 | 305 |
| 47 | 41 06 | 030 | 22 17 | 087 | 31 31 | 114 | 18 09 | 151 | 24 17 | 193 | 47 19 | 235 | 41 58 | 304 |
| 48 | 41 36 | 029 | 23 16 | 087 | 32 26 | 114 | 18 37 | 152 | 24 03 | 194 | 46 29 | 236 | 41 08 | 304 |
| 49 | 42 04 | 028 | 24 16 | 087 | 33 20 | 115 | 19 05 | 152 | 23 49 | 194 | 45 40 | 237 | 40 19 | 304 |
| 50 | 42°32′ | 028 | 25°16′ | 087 | 34°15′ | 115 | 19°33′ | 152 | 23°34′ | 195 | 44°50′ | 237 | 39°29′ | 303 |
| 51 | 43 00 | 027 | 26 15 | 087 | 35 09 | 115 | 20 01 | 153 | 23 18 | 195 | 43 59 | 238 | 38 39 | 303 |
| 52 | 43 27 | 026 | 27 15 | 087 | 36 02 | 116 | 20 28 | 153 | 23 02 | 196 | 43 08 | 239 | 37 49 | 303 |
| 53 | 43 53 | 025 | 28 14 | 087 | 36 56 | 116 | 20 54 | 154 | 22 46 | 196 | 42 17 | 239 | 36 59 | 302 |
| 54 | 44 18 | 025 | 29 14 | 087 | 37 49 | 117 | 21 21 | 154 | 22 29 | 197 | 41 26 | 240 | 36 08 | 302 |
| 55 | 44°43′ | 024 | 30°14′ | 087 | 38°43′ | 117 | 21°46′ | 155 | 22°11′ | 197 | 40°34′ | 240 | 35°17′ | 302 |
| 56 | 45 06 | 023 | 31 13 | 088 | 39 36 | 118 | 22 12 | 155 | 21 54 | 198 | 39 42 | 241 | 34 27 | 302 |
| 57 | 45 29 | 022 | 32 13 | 088 | 40 28 | 118 | 22 37 | 156 | 21 35 | 198 | 38 50 | 241 | 33 36 | 301 |
| 58 | 45 52 | 021 | 33 12 | 088 | 41 21 | 119 | 23 01 | 156 | 21 16 | 199 | 37 58 | 242 | 32 45 | 301 |
| 59 | 46 13 | 021 | 34 12 | 088 | 42 13 | 119 | 23 25 | 157 | 20 57 | 199 | 37 05 | 242 | 31 53 | 301 |
| | ✦CAPELLA | | POLLUX | | PROCYON | | ✦SIRIUS | | CANOPUS | | ✦Diphda | | Alpheratz | |
| 60 | 46°34′ | 020 | 32°09′ | 061 | 35°12′ | 088 | 43°05′ | 120 | 23°49′ | 157 | 36°12′ | 243 | 31°02′ | 301 |
| 61 | 46 53 | 019 | 33 01 | 060 | 36 11 | 088 | 43 57 | 120 | 24 12 | 158 | 35 19 | 243 | 30 11 | 300 |
| 62 | 47 12 | 018 | 33 53 | 060 | 37 11 | 088 | 44 48 | 121 | 24 34 | 158 | 34 26 | 243 | 29 19 | 300 |
| 63 | 47 30 | 017 | 34 45 | 060 | 38 11 | 088 | 45 39 | 121 | 24 56 | 159 | 33 32 | 244 | 28 28 | 300 |
| 64 | 47 47 | 016 | 35 36 | 060 | 39 10 | 088 | 46 30 | 122 | 25 18 | 159 | 32 39 | 244 | 27 36 | 300 |
| 65 | 48°03′ | 015 | 36°28′ | 059 | 40°10′ | 088 | 47°20′ | 123 | 25°39′ | 160 | 31°45′ | 245 | 26°44′ | 300 |
| 66 | 48 18 | 014 | 37 19 | 059 | 41 10 | 088 | 48 10 | 123 | 25 59 | 160 | 30 51 | 245 | 25 52 | 300 |
| 67 | 48 32 | 013 | 38 10 | 059 | 42 09 | 088 | 49 00 | 124 | 26 19 | 161 | 29 57 | 245 | 25 00 | 299 |
| 68 | 48 45 | 012 | 39 01 | 059 | 43 09 | 089 | 49 49 | 125 | 26 38 | 161 | 29 02 | 246 | 24 08 | 299 |
| 69 | 48 57 | 011 | 39 52 | 058 | 44 09 | 089 | 50 38 | 126 | 26 57 | 162 | 28 08 | 246 | 23 16 | 299 |
| 70 | 49°08′ | 010 | 40°42′ | 058 | 45°08′ | 089 | 51°26′ | 127 | 27°15′ | 163 | 27°13′ | 246 | 22°24′ | 299 |
| 71 | 49 18 | 009 | 41 33 | 058 | 46 08 | 089 | 52 14 | 127 | 27 33 | 163 | 26 19 | 247 | 21 32 | 299 |
| 72 | 49 27 | 008 | 42 23 | 057 | 47 07 | 089 | 53 01 | 128 | 27 50 | 164 | 25 24 | 247 | 20 40 | 299 |
| 73 | 49 35 | 007 | 43 13 | 057 | 48 07 | 089 | 53 47 | 129 | 28 06 | 164 | 24 29 | 247 | 19 48 | 299 |
| 74 | 49 42 | 006 | 44 03 | 056 | 49 07 | 089 | 54 33 | 130 | 28 22 | 165 | 23 34 | 248 | 18 56 | 299 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 49°48′ | 005 | 44°52′ | 056 | 50°06′ | 089 | 55°18′ | 131 | 28°37′ | 166 | 36°03′ | 208 | 45°11′ | 298 |
| 76 | 49 52 | 004 | 45 42 | 055 | 51 06 | 089 | 56 02 | 132 | 28 52 | 166 | 35 34 | 209 | 44 18 | 297 |
| 77 | 49 55 | 003 | 46 31 | 055 | 52 06 | 089 | 56 46 | 134 | 29 06 | 167 | 35 05 | 210 | 43 25 | 297 |
| 78 | 49 58 | 002 | 47 19 | 054 | 53 05 | 089 | 57 29 | 135 | 29 19 | 168 | 34 35 | 211 | 42 31 | 297 |
| 79 | 49 59 | 001 | 48 08 | 054 | 54 05 | 089 | 58 11 | 136 | 29 31 | 168 | 34 04 | 211 | 41 38 | 296 |
| 80 | 49°59′ | 359 | 48°56′ | 053 | 55°05′ | 090 | 58°52′ | 137 | 29°43′ | 169 | 33°33′ | 212 | 40°44′ | 296 |
| 81 | 49 58 | 358 | 49 43 | 053 | 56 04 | 090 | 59 32 | 139 | 29 54 | 170 | 33 01 | 213 | 39 51 | 296 |
| 82 | 49 56 | 357 | 50 31 | 052 | 57 04 | 090 | 60 11 | 140 | 30 05 | 170 | 32 28 | 213 | 38 57 | 296 |
| 83 | 49 52 | 356 | 51 18 | 051 | 58 04 | 090 | 60 49 | 141 | 30 15 | 171 | 31 55 | 214 | 38 03 | 295 |
| 84 | 49 48 | 355 | 52 04 | 051 | 59 03 | 090 | 61 25 | 143 | 30 24 | 172 | 31 22 | 214 | 37 09 | 295 |
| 85 | 49°42′ | 354 | 52°50′ | 050 | 60°03′ | 090 | 62°00′ | 145 | 30°32′ | 172 | 30°48′ | 215 | 36°15′ | 295 |
| 86 | 49 36 | 353 | 53 35 | 049 | 61 03 | 090 | 62 34 | 146 | 30 40 | 173 | 30 13 | 216 | 35 21 | 295 |
| 87 | 49 28 | 352 | 54 20 | 048 | 62 02 | 090 | 63 07 | 148 | 30 47 | 174 | 29 38 | 216 | 34 27 | 295 |
| 88 | 49 19 | 351 | 55 05 | 048 | 63 02 | 090 | 63 38 | 150 | 30 53 | 174 | 29 03 | 217 | 33 32 | 294 |
| 89 | 49 09 | 350 | 55 49 | 047 | 64 02 | 091 | 64 07 | 152 | 30 59 | 175 | 28 27 | 217 | 32 38 | 294 |

LAT 6°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 56°32′ | 046 | 28°14′ | 080 | 24°43′ | 144 | 31°04′ | 176 | 27°51′ | 218 | 67°07′ | 299 | 48°58′ | 349 |
| 91 | 57 14 | 045 | 29 13 | 080 | 25 18 | 145 | 31 08 | 176 | 27 14 | 218 | 66 15 | 298 | 48 46 | 348 |
| 92 | 57 56 | 044 | 30 12 | 080 | 25 53 | 145 | 31 11 | 177 | 26 37 | 219 | 65 22 | 297 | 48 33 | 347 |
| 93 | 58 37 | 043 | 31 10 | 080 | 26 26 | 146 | 31 14 | 178 | 25 59 | 219 | 64 29 | 296 | 48 19 | 346 |
| 94 | 59 17 | 042 | 32 09 | 080 | 27 00 | 146 | 31 16 | 179 | 25 21 | 220 | 63 35 | 296 | 48 04 | 345 |
| 95 | 59°56′ | 041 | 33°08′ | 080 | 27°33′ | 147 | 31°17′ | 179 | 24°43′ | 220 | 62°41′ | 295 | 47°48′ | 344 |
| 96 | 60 35 | 039 | 34 06 | 080 | 28 05 | 147 | 31 18 | 180 | 24 04 | 221 | 61 47 | 294 | 47 31 | 343 |
| 97 | 61 12 | 038 | 35 05 | 080 | 28 37 | 148 | 31 17 | 181 | 23 25 | 221 | 60 53 | 294 | 47 14 | 342 |
| 98 | 61 48 | 037 | 36 04 | 080 | 29 09 | 148 | 31 16 | 181 | 22 45 | 222 | 59 58 | 293 | 46 55 | 341 |
| 99 | 62 23 | 035 | 37 03 | 080 | 29 40 | 149 | 31 14 | 182 | 22 06 | 222 | 59 03 | 292 | 46 35 | 340 |
| 100 | 62°57′ | 034 | 38°01′ | 080 | 30°11′ | 150 | 31°12′ | 183 | 21°26′ | 222 | 58°07′ | 292 | 46°15′ | 339 |
| 101 | 63 29 | 032 | 39 00 | 080 | 30 41 | 150 | 31 09 | 183 | 20 45 | 223 | 57 12 | 291 | 45 53 | 339 |
| 102 | 64 01 | 031 | 39 59 | 080 | 31 10 | 151 | 31 05 | 184 | 20 05 | 223 | 56 16 | 291 | 45 31 | 338 |
| 103 | 64 30 | 029 | 40 57 | 079 | 31 39 | 151 | 31 00 | 185 | 19 24 | 223 | 55 21 | 291 | 45 08 | 337 |
| 104 | 64 58 | 027 | 41 56 | 079 | 32 07 | 152 | 30 55 | 186 | 18 42 | 224 | 54 25 | 290 | 44 44 | 336 |
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 105 | 65°25′ | 025 | 42°55′ | 079 | 32°35′ | 153 | 30°48′ | 186 | 60°20′ | 242 | 53°29′ | 290 | 44°20′ | 335 |
| 106 | 65 49 | 023 | 43 53 | 079 | 33 02 | 153 | 30 42 | 187 | 59 27 | 243 | 52 32 | 289 | 43 54 | 335 |
| 107 | 66 12 | 021 | 44 52 | 079 | 33 28 | 154 | 30 34 | 188 | 58 34 | 243 | 51 36 | 289 | 43 28 | 334 |
| 108 | 66 33 | 019 | 45 50 | 079 | 33 54 | 155 | 30 26 | 188 | 57 40 | 244 | 50 40 | 289 | 43 02 | 333 |
| 109 | 66 52 | 017 | 46 49 | 079 | 34 19 | 156 | 30 17 | 189 | 56 47 | 245 | 49 43 | 289 | 42 34 | 332 |
| 110 | 67°08′ | 015 | 47°48′ | 079 | 34°43′ | 156 | 30°07′ | 190 | 55°52′ | 246 | 48°46′ | 288 | 42°06′ | 332 |
| 111 | 67 23 | 013 | 48 46 | 079 | 35 07 | 157 | 29 57 | 190 | 54 58 | 246 | 47 50 | 288 | 41 38 | 331 |
| 112 | 67 35 | 011 | 49 45 | 079 | 35 30 | 158 | 29 46 | 191 | 54 03 | 247 | 46 53 | 288 | 41 09 | 330 |
| 113 | 67 45 | 008 | 50 43 | 079 | 35 52 | 158 | 29 34 | 192 | 53 08 | 248 | 45 56 | 288 | 40 39 | 330 |
| 114 | 67 53 | 006 | 51 42 | 078 | 36 14 | 159 | 29 21 | 192 | 52 12 | 248 | 44 59 | 287 | 40 08 | 329 |
| 115 | 67°58′ | 004 | 52°40′ | 078 | 36°35′ | 160 | 29°08′ | 193 | 51°17′ | 249 | 44°02′ | 287 | 39°37′ | 328 |
| 116 | 68 01 | 001 | 53 39 | 078 | 36 55 | 161 | 28 55 | 194 | 50 21 | 249 | 43 05 | 287 | 39 06 | 328 |
| 117 | 68 01 | 359 | 54 37 | 078 | 37 14 | 162 | 28 40 | 194 | 49 25 | 250 | 42 08 | 287 | 38 34 | 327 |
| 118 | 67 59 | 357 | 55 35 | 078 | 37 32 | 163 | 28 25 | 195 | 48 29 | 250 | 41 11 | 287 | 38 01 | 327 |
| 119 | 67 55 | 354 | 56 34 | 078 | 37 50 | 163 | 28 09 | 196 | 47 33 | 251 | 40 14 | 287 | 37 29 | 326 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦SIRIUS | | RIGEL | | ALDEBARAN | | ✦CAPELLA | |
| 120 | 24°45′ | 022 | 32°55′ | 077 | 38°06′ | 164 | 60°49′ | 219 | 46°36′ | 251 | 39°17′ | 286 | 36°55′ | 326 |
| 121 | 25 08 | 022 | 33 53 | 077 | 38 22 | 165 | 60 11 | 220 | 45 40 | 252 | 38 20 | 286 | 36 21 | 325 |
| 122 | 25 30 | 022 | 34 51 | 077 | 38 37 | 166 | 59 32 | 221 | 44 43 | 252 | 37 22 | 286 | 35 47 | 325 |
| 123 | 25 51 | 021 | 35 49 | 076 | 38 51 | 167 | 58 52 | 223 | 43 46 | 253 | 36 25 | 286 | 35 12 | 324 |
| 124 | 26 13 | 021 | 36 47 | 076 | 39 04 | 168 | 58 11 | 224 | 42 49 | 253 | 35 28 | 286 | 34 37 | 324 |
| 125 | 26°34′ | 020 | 37°45′ | 076 | 39°16′ | 169 | 57°29′ | 225 | 41°52′ | 253 | 34°30′ | 286 | 34°02′ | 323 |
| 126 | 26 55 | 020 | 38 43 | 076 | 39 28 | 170 | 56 46 | 226 | 40 55 | 254 | 33 33 | 286 | 33 26 | 323 |
| 127 | 27 15 | 020 | 39 41 | 076 | 39 38 | 170 | 56 03 | 228 | 39 57 | 254 | 32 36 | 286 | 32 50 | 322 |
| 128 | 27 35 | 019 | 40 39 | 076 | 39 48 | 171 | 55 18 | 229 | 39 00 | 254 | 31 38 | 286 | 32 13 | 322 |
| 129 | 27 55 | 019 | 41 36 | 076 | 39 56 | 172 | 54 33 | 230 | 38 02 | 255 | 30 41 | 286 | 31 36 | 322 |
| 130 | 28°14′ | 019 | 42°34′ | 076 | 40°04′ | 173 | 53°47′ | 231 | 37°05′ | 255 | 29°43′ | 286 | 30°59′ | 321 |
| 131 | 28 33 | 018 | 43 32 | 076 | 40 10 | 174 | 53 01 | 232 | 36 07 | 255 | 28 46 | 286 | 30 22 | 321 |
| 132 | 28 51 | 018 | 44 30 | 076 | 40 16 | 175 | 52 14 | 233 | 35 09 | 256 | 27 48 | 286 | 29 44 | 321 |
| 133 | 29 09 | 017 | 45 28 | 075 | 40 21 | 176 | 51 26 | 233 | 34 11 | 256 | 26 51 | 286 | 29 06 | 320 |
| 134 | 29 27 | 017 | 46 25 | 075 | 40 24 | 177 | 50 38 | 234 | 33 14 | 256 | 25 53 | 286 | 28 28 | 320 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦Suhail | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 29°44′ | 016 | 12°12′ | 072 | 21°34′ | 105 | 40°27′ | 178 | 49°49′ | 235 | 44°22′ | 275 | 27°49′ | 320 |
| 136 | 30 00 | 016 | 13 08 | 072 | 22 32 | 105 | 40 29 | 179 | 49 00 | 236 | 43 23 | 275 | 27 11 | 319 |
| 137 | 30 17 | 016 | 14 05 | 072 | 23 29 | 105 | 40 29 | 180 | 48 11 | 237 | 42 23 | 275 | 26 32 | 319 |
| 138 | 30 32 | 015 | 15 02 | 072 | 24 27 | 105 | 40 29 | 181 | 47 21 | 237 | 41 24 | 275 | 25 53 | 319 |
| 139 | 30 48 | 015 | 15 59 | 072 | 25 25 | 106 | 40 28 | 182 | 46 30 | 238 | 40 24 | 275 | 25 13 | 319 |
| 140 | 31°03′ | 014 | 16°55′ | 072 | 26°22′ | 106 | 40°25′ | 183 | 45°40′ | 239 | 39°25′ | 275 | 24°34′ | 318 |
| 141 | 31 17 | 014 | 17 52 | 072 | 27 19 | 106 | 40 22 | 184 | 44 49 | 239 | 38 25 | 275 | 23 54 | 318 |
| 142 | 31 31 | 013 | 18 49 | 072 | 28 17 | 106 | 40 18 | 185 | 43 57 | 240 | 37 26 | 275 | 23 14 | 318 |
| 143 | 31 44 | 013 | 19 45 | 072 | 29 14 | 106 | 40 12 | 186 | 43 06 | 240 | 36 26 | 275 | 22 34 | 318 |
| 144 | 31 57 | 012 | 20 42 | 072 | 30 11 | 107 | 40 06 | 186 | 42 14 | 241 | 35 27 | 275 | 21 54 | 318 |
| 145 | 32°10′ | 012 | 21°39′ | 072 | 31°08′ | 107 | 39°59′ | 187 | 41°21′ | 241 | 34°28′ | 275 | 21°13′ | 317 |
| 146 | 32 21 | 011 | 22 35 | 072 | 32 05 | 107 | 39 51 | 188 | 40 29 | 242 | 33 28 | 275 | 20 33 | 317 |
| 147 | 32 33 | 011 | 23 32 | 072 | 33 02 | 108 | 39 42 | 189 | 39 36 | 242 | 32 29 | 275 | 19 52 | 317 |
| 148 | 32 44 | 010 | 24 29 | 072 | 33 59 | 108 | 39 32 | 190 | 38 43 | 243 | 31 29 | 275 | 19 12 | 317 |
| 149 | 32 54 | 010 | 25 25 | 072 | 34 56 | 108 | 39 21 | 191 | 37 50 | 243 | 30 30 | 275 | 18 31 | 317 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ACRUX | | ✦Suhail | | SIRIUS | | ✦POLLUX | |
| 150 | 33°04′ | 009 | 26°22′ | 072 | 35°52′ | 109 | 15°22′ | 164 | 39°09′ | 192 | 36°56′ | 244 | 51°30′ | 309 |
| 151 | 33 13 | 009 | 27 19 | 072 | 36 49 | 109 | 15 39 | 164 | 38 56 | 193 | 36 03 | 244 | 50 43 | 308 |
| 152 | 33 21 | 008 | 28 15 | 072 | 37 45 | 109 | 15 55 | 164 | 38 42 | 194 | 35 09 | 245 | 49 56 | 307 |
| 153 | 33 29 | 007 | 29 12 | 071 | 38 42 | 110 | 16 11 | 165 | 38 28 | 195 | 34 15 | 245 | 49 08 | 307 |
| 154 | 33 37 | 007 | 30 08 | 071 | 39 38 | 110 | 16 26 | 165 | 38 12 | 195 | 33 21 | 245 | 48 20 | 306 |
| 155 | 33°44′ | 006 | 31°05′ | 071 | 40°34′ | 110 | 16°41′ | 166 | 37°56′ | 196 | 32°26′ | 246 | 47°32′ | 306 |
| 156 | 33 50 | 006 | 32 02 | 071 | 41 30 | 111 | 16 56 | 166 | 37 38 | 197 | 31 32 | 246 | 46 43 | 305 |
| 157 | 33 56 | 005 | 32 58 | 071 | 42 25 | 111 | 17 10 | 166 | 37 20 | 198 | 30 37 | 246 | 45 54 | 305 |
| 158 | 34 01 | 005 | 33 54 | 071 | 43 21 | 112 | 17 24 | 167 | 37 02 | 199 | 29 42 | 247 | 45 05 | 304 |
| 159 | 34 06 | 004 | 34 51 | 071 | 44 16 | 112 | 17 37 | 167 | 36 42 | 200 | 28 48 | 247 | 44 16 | 304 |
| 160 | 34°10′ | 004 | 35°47′ | 071 | 45°11′ | 113 | 17°50′ | 168 | 36°21′ | 200 | 27°52′ | 247 | 43°26′ | 303 |
| 161 | 34 13 | 003 | 36 44 | 071 | 46 06 | 113 | 18 03 | 168 | 36 00 | 201 | 26 57 | 248 | 42 36 | 303 |
| 162 | 34 16 | 002 | 37 40 | 070 | 47 01 | 114 | 18 15 | 168 | 35 38 | 202 | 26 02 | 248 | 41 46 | 303 |
| 163 | 34 18 | 002 | 38 36 | 070 | 47 56 | 114 | 18 27 | 169 | 35 16 | 203 | 25 07 | 248 | 40 55 | 302 |
| 164 | 34 20 | 001 | 39 32 | 070 | 48 50 | 115 | 18 38 | 169 | 34 52 | 204 | 24 11 | 249 | 40 05 | 302 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 34°21′ | 001 | 40°28′ | 070 | 49°44′ | 115 | 18°49′ | 170 | 34°28′ | 204 | 40°20′ | 272 | 39°14′ | 302 |
| 166 | 34 21 | 000 | 41 24 | 070 | 50 38 | 116 | 18 59 | 170 | 34 03 | 205 | 39 20 | 272 | 38 23 | 301 |
| 167 | 34 21 | 000 | 42 20 | 070 | 51 31 | 117 | 19 09 | 171 | 33 38 | 206 | 38 20 | 272 | 37 32 | 301 |
| 168 | 34 20 | 359 | 43 16 | 069 | 52 25 | 117 | 19 19 | 171 | 33 11 | 206 | 37 21 | 272 | 36 41 | 301 |
| 169 | 34 19 | 358 | 44 12 | 069 | 53 17 | 118 | 19 28 | 172 | 32 45 | 207 | 36 21 | 272 | 35 49 | 300 |
| 170 | 34°17′ | 358 | 45°08′ | 069 | 54°10′ | 119 | 19°36′ | 172 | 32°17′ | 208 | 35°22′ | 272 | 34°58′ | 300 |
| 171 | 34 15 | 357 | 46 03 | 069 | 55 02 | 120 | 19 44 | 172 | 31 49 | 208 | 34 22 | 272 | 34 06 | 300 |
| 172 | 34 11 | 357 | 46 59 | 068 | 55 54 | 120 | 19 52 | 173 | 31 20 | 209 | 33 22 | 272 | 33 14 | 300 |
| 173 | 34 08 | 356 | 47 54 | 068 | 56 45 | 121 | 19 59 | 173 | 30 51 | 210 | 32 23 | 272 | 32 22 | 299 |
| 174 | 34 03 | 356 | 48 49 | 068 | 57 36 | 122 | 20 06 | 174 | 30 22 | 210 | 31 23 | 272 | 31 30 | 299 |
| 175 | 33°58′ | 355 | 49°45′ | 067 | 58°26′ | 123 | 20°12′ | 174 | 29°51′ | 211 | 30°23′ | 272 | 30°38′ | 299 |
| 176 | 33 53 | 354 | 50 40 | 067 | 59 16 | 124 | 20 18 | 175 | 29 20 | 211 | 29 24 | 273 | 29 46 | 299 |
| 177 | 33 47 | 354 | 51 34 | 067 | 60 05 | 125 | 20 23 | 175 | 28 49 | 212 | 28 24 | 273 | 28 54 | 299 |
| 178 | 33 40 | 353 | 52 29 | 066 | 60 53 | 126 | 20 28 | 176 | 28 17 | 213 | 27 25 | 273 | 28 02 | 299 |
| 179 | 33 33 | 353 | 53 24 | 066 | 61 41 | 128 | 20 32 | 176 | 27 45 | 213 | 26 25 | 273 | 27 09 | 298 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | ANTARES | RIGIL KENT | ✦ACRUX | Suhail | ✦REGULUS | Dubhe |
| 180 | 54°18′ 065 | 16°58′ 120 | 16°07′ 161 | 20°36′ 177 | 27°12′ 214 | 62°05′ 284 | 33°25′ 352 |
| 181 | 55 12 065 | 17 50 120 | 16 27 161 | 20 39 177 | 26 39 214 | 61 07 284 | 33 17 352 |
| 182 | 56 06 064 | 18 41 121 | 16 46 162 | 20 41 178 | 26 05 215 | 60 09 283 | 33 08 351 |
| 183 | 57 00 064 | 19 33 121 | 17 04 162 | 20 44 178 | 25 31 215 | 59 11 283 | 32 58 351 |
| 184 | 57 53 063 | 20 24 121 | 17 22 162 | 20 45 179 | 24 56 216 | 58 13 283 | 32 48 350 |
| 185 | 58°46′ 063 | 21°15′ 121 | 17°40′ 163 | 20°47′ 179 | 24°21′ 216 | 57°15′ 283 | 32°38′ 350 |
| 186 | 59 39 062 | 22 05 122 | 17 57 163 | 20 47 180 | 23 46 217 | 56 17 282 | 32 27 349 |
| 187 | 60 31 061 | 22 56 122 | 18 14 164 | 20 48 180 | 23 10 217 | 55 18 282 | 32 15 349 |
| 188 | 61 24 060 | 23 47 122 | 18 31 164 | 20 47 181 | 22 34 217 | 54 20 282 | 32 03 348 |
| 189 | 62 15 060 | 24 37 123 | 18 47 165 | 20 46 181 | 21 57 218 | 53 22 282 | 31 50 348 |
| 190 | 63°06′ 059 | 25°27′ 123 | 19°03′ 165 | 20°45′ 181 | 21°20′ 218 | 52°23′ 282 | 31°37′ 347 |
| 191 | 63 57 058 | 26 17 123 | 19 18 165 | 20 43 182 | 20 43 219 | 51 25 282 | 31 23 347 |
| 192 | 64 47 057 | 27 06 124 | 19 33 166 | 20 41 182 | 20 06 219 | 50 26 281 | 31 09 346 |
| 193 | 65 37 056 | 27 56 124 | 19 47 166 | 20 38 183 | 19 28 220 | 49 28 281 | 30 55 346 |
| 194 | 66 26 054 | 28 45 125 | 20 01 167 | 20 35 183 | 18 50 220 | 48 29 281 | 30 40 345 |
| | ✦Alphecca | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 195 | 47°38′ 056 | 21°47′ 079 | 29°34′ 125 | 20°14′ 167 | 20°31′ 184 | 47°31′ 281 | 30°24′ 345 |
| 196 | 48 27 056 | 22 46 079 | 30 23 126 | 20 27 168 | 20 27 184 | 46 32 281 | 30 08 344 |
| 197 | 49 17 055 | 23 44 079 | 31 11 126 | 20 40 168 | 20 22 185 | 45 33 281 | 29 51 344 |
| 198 | 50 06 055 | 24 43 079 | 31 59 126 | 20 52 169 | 20 17 185 | 44 35 281 | 29 34 343 |
| 199 | 50 54 054 | 25 42 079 | 32 47 127 | 21 03 169 | 20 11 186 | 43 36 281 | 29 17 343 |
| 200 | 51°42′ 054 | 26°40′ 079 | 33°35′ 127 | 21°14′ 170 | 20°05′ 186 | 42°37′ 281 | 28°59′ 342 |
| 201 | 52 30 053 | 27 39 079 | 34 22 128 | 21 25 170 | 19 58 187 | 41 39 281 | 28 41 342 |
| 202 | 53 17 052 | 28 37 079 | 35 09 128 | 21 35 171 | 19 51 187 | 40 40 281 | 28 22 342 |
| 203 | 54 04 051 | 29 36 079 | 35 55 129 | 21 44 171 | 19 43 188 | 39 41 280 | 28 03 341 |
| 204 | 54 51 051 | 30 34 079 | 36 41 130 | 21 53 172 | 19 35 188 | 38 43 280 | 27 44 341 |
| 205 | 55°37′ 050 | 31°33′ 079 | 37°27′ 130 | 22°02′ 172 | 19°27′ 189 | 37°44′ 280 | 27°24′ 340 |
| 206 | 56 22 049 | 32 32 079 | 38 13 131 | 22 10 173 | 19 17 189 | 36 45 280 | 27 04 340 |
| 207 | 57 07 048 | 33 30 079 | 38 58 131 | 22 17 173 | 19 08 189 | 35 47 280 | 26 44 340 |
| 208 | 57 51 047 | 34 29 079 | 39 42 132 | 22 24 174 | 18 58 190 | 34 48 280 | 26 23 339 |
| 209 | 58 34 046 | 35 27 079 | 40 26 133 | 22 31 174 | 18 47 190 | 33 49 280 | 26 01 339 |
| | ✦VEGA | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 210 | 19°46′ 051 | 36°26′ 079 | 41°10′ 133 | 22°36′ 175 | 18°37′ 191 | 32°51′ 280 | 25°40′ 339 |
| 211 | 20 32 051 | 37 24 079 | 41 53 134 | 22 42 175 | 18 25 191 | 31 52 280 | 25 18 338 |
| 212 | 21 18 051 | 38 23 079 | 42 35 135 | 22 46 176 | 18 13 192 | 30 53 280 | 24 56 338 |
| 213 | 22 04 050 | 39 21 079 | 43 17 136 | 22 51 176 | 18 01 192 | 29 54 280 | 24 33 338 |
| 214 | 22 50 050 | 40 20 079 | 43 59 136 | 22 54 177 | 17 49 192 | 28 56 280 | 24 10 337 |
| 215 | 23°36′ 050 | 41°18′ 079 | 44°40′ 137 | 22°58′ 177 | 17°36′ 193 | 27°57′ 280 | 23°47′ 337 |
| 216 | 24 22 050 | 42 17 078 | 45 20 138 | 23 00 178 | 17 22 193 | 26 58 280 | 23 24 337 |
| 217 | 25 07 050 | 43 15 078 | 45 59 139 | 23 02 178 | 17 08 194 | 26 00 280 | 23 00 336 |
| 218 | 25 53 050 | 44 14 078 | 46 38 140 | 23 04 179 | 16 54 194 | 25 01 280 | 22 36 336 |
| 219 | 26 38 049 | 45 12 078 | 47 16 141 | 23 05 179 | 16 39 194 | 24 02 280 | 22 12 336 |
| 220 | 27°23′ 049 | 46°11′ 078 | 47°54′ 142 | 23°05′ 180 | 16°24′ 195 | 23°03′ 280 | 21°47′ 336 |
| 221 | 28 08 049 | 47 09 078 | 48 30 143 | 23 05 180 | 16 09 195 | 22 05 280 | 21 22 335 |
| 222 | 28 53 049 | 48 07 078 | 49 06 144 | 23 04 181 | 15 53 196 | 21 06 280 | 20 58 335 |
| 223 | 29 38 048 | 49 06 078 | 49 41 145 | 23 03 181 | 15 36 196 | 20 07 280 | 20 32 335 |
| 224 | 30 22 048 | 50 04 078 | 50 15 146 | 23 01 182 | 15 20 196 | 19 09 281 | 20 07 335 |
| | VEGA | ✦ALTAIR | Nunki | ANTARES | RIGIL KENT | ✦SPICA | ✦Alkaid |
| 225 | 31°06′ 048 | 17°44′ 083 | 24°18′ 122 | 50°48′ 147 | 22°59′ 183 | 60°59′ 234 | 44°12′ 344 |
| 226 | 31 51 047 | 18 43 083 | 25 08 123 | 51 20 148 | 22 56 183 | 60 10 235 | 43 55 343 |
| 227 | 32 34 047 | 19 42 083 | 25 58 123 | 51 51 149 | 22 53 184 | 59 21 236 | 43 37 342 |
| 228 | 33 18 047 | 20 41 083 | 26 48 123 | 52 21 150 | 22 49 184 | 58 32 237 | 43 19 341 |
| 229 | 34 01 046 | 21 40 083 | 27 38 124 | 52 50 152 | 22 44 185 | 57 42 238 | 42 59 341 |
| 230 | 34°44′ 046 | 22°40′ 083 | 28°27′ 124 | 53°18′ 153 | 22°39′ 185 | 56°51′ 239 | 42°39′ 340 |
| 231 | 35 27 046 | 23 39 083 | 29 16 125 | 53 44 154 | 22 33 186 | 56 00 240 | 42 18 339 |
| 232 | 36 10 045 | 24 38 083 | 30 05 125 | 54 09 156 | 22 27 186 | 55 08 240 | 41 56 338 |
| 233 | 36 52 045 | 25 37 083 | 30 54 126 | 54 33 157 | 22 21 187 | 54 16 241 | 41 34 338 |
| 234 | 37 34 044 | 26 37 083 | 31 42 126 | 54 56 158 | 22 13 187 | 53 24 242 | 41 11 337 |
| 235 | 38°16′ 044 | 27°36′ 083 | 32°30′ 126 | 55°17′ 160 | 22°06′ 188 | 52°31′ 243 | 40°47′ 336 |
| 236 | 38 57 044 | 28 35 083 | 33 18 127 | 55 37 161 | 21 57 188 | 51 38 243 | 40 22 336 |
| 237 | 39 38 043 | 29 34 083 | 34 06 127 | 55 55 163 | 21 49 189 | 50 44 244 | 39 57 335 |
| 238 | 40 18 043 | 30 33 083 | 34 53 128 | 56 12 164 | 21 39 189 | 49 50 245 | 39 32 334 |
| 239 | 40 58 042 | 31 33 083 | 35 40 129 | 56 28 166 | 21 30 190 | 48 56 245 | 39 05 334 |
| | VEGA | ✦ALTAIR | Nunki | ✦ANTARES | SPICA | ✦ARCTURUS | Alkaid |
| 240 | 41°38′ 041 | 32°32′ 083 | 36°26′ 129 | 56°41′ 167 | 48°02′ 246 | 61°38′ 300 | 38°39′ 333 |
| 241 | 42 17 041 | 33 31 083 | 37 12 130 | 56 54 169 | 47 07 246 | 60 46 299 | 38 11 332 |
| 242 | 42 56 040 | 34 30 083 | 37 58 130 | 57 04 171 | 46 13 247 | 59 54 298 | 37 43 332 |
| 243 | 43 35 040 | 35 30 083 | 38 43 131 | 57 13 172 | 45 18 247 | 59 01 298 | 37 15 331 |
| 244 | 44 12 039 | 36 29 083 | 39 28 132 | 57 20 174 | 44 23 248 | 58 08 297 | 36 46 331 |
| 245 | 44°50′ 038 | 37°28′ 083 | 40°13′ 132 | 57°25′ 176 | 43°27′ 248 | 57°15′ 296 | 36°16′ 330 |
| 246 | 45 26 038 | 38 28 083 | 40 57 133 | 57 29 177 | 42 32 249 | 56 21 296 | 35 46 330 |
| 247 | 46 03 037 | 39 27 083 | 41 40 134 | 57 31 179 | 41 36 249 | 55 27 295 | 35 16 329 |
| 248 | 46 38 036 | 40 26 083 | 42 23 134 | 57 31 181 | 40 40 250 | 54 33 295 | 34 45 329 |
| 249 | 47 13 035 | 41 25 083 | 43 06 135 | 57 30 182 | 39 44 250 | 53 39 294 | 34 14 328 |
| 250 | 47°48′ 035 | 42°25′ 083 | 43°47′ 136 | 57°27′ 184 | 38°48′ 250 | 52°44′ 294 | 33°42′ 328 |
| 251 | 48 21 034 | 43 24 083 | 44 29 137 | 57 22 186 | 37 52 251 | 51 50 293 | 33 10 327 |
| 252 | 48 54 033 | 44 23 083 | 45 09 137 | 57 15 187 | 36 55 251 | 50 55 293 | 32 37 327 |
| 253 | 49 26 032 | 45 22 083 | 45 49 138 | 57 07 189 | 35 59 251 | 50 00 293 | 32 05 326 |
| 254 | 49 58 031 | 46 22 083 | 46 29 139 | 56 57 190 | 35 02 252 | 49 05 292 | 31 31 326 |
| | VEGA | ✦ALTAIR | Nunki | ✦ANTARES | SPICA | ARCTURUS | ✦Alkaid |
| 255 | 50°28′ 030 | 47°21′ 083 | 47°07′ 140 | 56°45′ 192 | 34°06′ 252 | 48°10′ 292 | 30°58′ 326 |
| 256 | 50 58 029 | 48 20 083 | 47 45 141 | 56 32 194 | 33 09 252 | 47 14 292 | 30 24 325 |
| 257 | 51 27 028 | 49 20 083 | 48 22 142 | 56 17 195 | 32 12 253 | 46 19 291 | 29 50 325 |
| 258 | 51 55 027 | 50 19 083 | 48 59 143 | 56 01 197 | 31 15 253 | 45 23 291 | 29 15 324 |
| 259 | 52 22 026 | 51 18 083 | 49 34 144 | 55 43 198 | 30 18 253 | 44 27 291 | 28 40 324 |
| 260 | 52°48′ 025 | 52°17′ 083 | 50°09′ 145 | 55°23′ 200 | 29°21′ 253 | 43°32′ 291 | 28°05′ 324 |
| 261 | 53 13 024 | 53 17 083 | 50 42 146 | 55 03 201 | 28 23 254 | 42 36 290 | 27 30 323 |
| 262 | 53 37 023 | 54 16 083 | 51 15 147 | 54 40 203 | 27 26 254 | 41 40 290 | 26 54 323 |
| 263 | 54 00 022 | 55 15 083 | 51 47 149 | 54 17 204 | 26 29 254 | 40 44 290 | 26 18 323 |
| 264 | 54 22 021 | 56 14 083 | 52 17 150 | 53 52 205 | 25 31 254 | 39 48 290 | 25 42 323 |
| 265 | 54°42′ 020 | 57°13′ 083 | 52°47′ 151 | 53°26′ 207 | 24°34′ 255 | 38°52′ 290 | 25°06′ 322 |
| 266 | 55 02 018 | 58 13 083 | 53 15 152 | 52 59 208 | 23 36 255 | 37 55 290 | 24 29 322 |
| 267 | 55 20 017 | 59 12 083 | 53 43 154 | 52 30 209 | 22 38 255 | 36 59 289 | 23 52 322 |
| 268 | 55 37 016 | 60 11 083 | 54 09 155 | 52 00 210 | 21 41 255 | 36 03 289 | 23 15 322 |
| 269 | 55 52 015 | 61 10 082 | 54 33 156 | 51 30 212 | 20 43 256 | 35 07 289 | 22 38 321 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | VEGA | ✦DENEB | Enif | ✦Nunki | Shaula | ANTARES | ✦ARCTURUS |
| 270 | 56°07′ 013 | 37°16′ 035 | 34°11′ 082 | 54°57′ 158 | 46°29′ 187 | 50°58′ 213 | 34°10′ 289 |
| 271 | 56 20 012 | 37 50 034 | 35 10 082 | 55 19 159 | 46 21 188 | 50 25 214 | 33 14 289 |
| 272 | 56 31 010 | 38 24 034 | 36 09 082 | 55 39 161 | 46 12 190 | 49 52 215 | 32 17 289 |
| 273 | 56 41 009 | 38 57 033 | 37 08 082 | 55 59 162 | 46 01 191 | 49 17 216 | 31 21 289 |
| 274 | 56 50 008 | 39 30 033 | 38 07 082 | 56 16 164 | 45 50 192 | 48 42 217 | 30 24 289 |
| 275 | 56°57′ 006 | 40°02′ 032 | 39°06′ 082 | 56°32′ 165 | 45°37′ 193 | 48°05′ 218 | 29°28′ 289 |
| 276 | 57 03 005 | 40 33 032 | 40 05 082 | 56 47 167 | 45 23 194 | 47 28 219 | 28 31 288 |
| 277 | 57 07 003 | 41 04 031 | 41 04 082 | 57 00 168 | 45 08 195 | 46 50 220 | 27 34 288 |
| 278 | 57 10 002 | 41 35 030 | 42 03 082 | 57 11 170 | 44 52 196 | 46 12 221 | 26 38 288 |
| 279 | 57 12 001 | 42 05 030 | 43 02 082 | 57 21 171 | 44 35 197 | 45 32 222 | 25 41 288 |
| 280 | 57°12′ 359 | 42°34′ 029 | 44°01′ 082 | 57°29′ 173 | 44°17′ 198 | 44°52′ 223 | 24°45′ 288 |
| 281 | 57 10 358 | 43 02 028 | 45 01 082 | 57 35 175 | 43 58 199 | 44 12 223 | 23 48 288 |
| 282 | 57 07 356 | 43 30 028 | 46 00 082 | 57 40 176 | 43 38 200 | 43 30 224 | 22 51 288 |
| 283 | 57 02 355 | 43 58 027 | 46 59 082 | 57 43 178 | 43 17 201 | 42 48 225 | 21 55 288 |
| 284 | 56 56 353 | 44 24 026 | 47 58 082 | 57 44 180 | 42 55 202 | 42 06 226 | 20 58 288 |
| | DENEB | Alpheratz | ✦FOMALHAUT | Nunki | ✦ANTARES | Rasalhague | ✦VEGA |
| 285 | 44°50′ 025 | 13°57′ 061 | 22°40′ 126 | 57°43′ 181 | 41°23′ 226 | 68°15′ 289 | 56°48′ 352 |
| 286 | 45 15 024 | 14 49 061 | 23 28 126 | 57 41 183 | 40 40 227 | 67 18 288 | 56 39 351 |
| 287 | 45 39 024 | 15 42 061 | 24 17 126 | 57 37 185 | 39 56 228 | 66 21 288 | 56 29 349 |
| 288 | 46 03 023 | 16 34 061 | 25 05 127 | 57 31 186 | 39 11 228 | 65 24 287 | 56 17 348 |
| 289 | 46 26 022 | 17 26 061 | 25 52 127 | 57 23 188 | 38 27 229 | 64 27 287 | 56 04 347 |
| 290 | 46°48′ 021 | 18°19′ 061 | 26°40′ 127 | 57°14′ 190 | 37°41′ 230 | 63°30′ 286 | 55°49′ 345 |
| 291 | 47 09 020 | 19 11 061 | 27 27 128 | 57 03 191 | 36 56 230 | 62 33 286 | 55 34 344 |
| 292 | 47 29 019 | 20 03 061 | 28 14 128 | 56 50 193 | 36 10 231 | 61 35 285 | 55 16 343 |
| 293 | 47 48 018 | 20 55 061 | 29 01 129 | 56 36 195 | 35 23 231 | 60 38 285 | 54 58 341 |
| 294 | 48 06 017 | 21 48 061 | 29 48 129 | 56 20 196 | 34 36 232 | 59 40 285 | 54 38 340 |
| 295 | 48°24′ 016 | 22°40′ 061 | 30°34′ 130 | 56°03′ 198 | 33°49′ 232 | 58°42′ 284 | 54°17′ 339 |
| 296 | 48 40 015 | 23 32 061 | 31 19 130 | 55 44 199 | 33 02 233 | 57 44 284 | 53 55 338 |
| 297 | 48 56 014 | 24 24 061 | 32 05 131 | 55 24 201 | 32 14 233 | 56 46 284 | 53 32 337 |
| 298 | 49 10 013 | 25 16 060 | 32 50 131 | 55 02 202 | 31 26 234 | 55 48 284 | 53 08 336 |
| 299 | 49 23 012 | 26 08 060 | 33 35 132 | 54 39 203 | 30 38 234 | 54 50 283 | 52 43 334 |
| | ✦DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | VEGA |
| 300 | 49°36′ 011 | 26°59′ 060 | 34°19′ 132 | 27°05′ 176 | 29°49′ 235 | 53°52′ 283 | 52°17′ 333 |
| 301 | 49 47 010 | 27 51 060 | 35 03 133 | 27 09 176 | 29 00 235 | 52 54 283 | 51 49 332 |
| 302 | 49 57 009 | 28 43 060 | 35 47 133 | 27 12 177 | 28 11 236 | 51 56 283 | 51 21 331 |
| 303 | 50 06 008 | 29 34 060 | 36 30 134 | 27 15 178 | 27 22 236 | 50 58 283 | 50 52 330 |
| 304 | 50 14 007 | 30 26 060 | 37 13 135 | 27 17 178 | 26 32 236 | 49 59 282 | 50 22 329 |
| 305 | 50°21′ 006 | 31°17′ 059 | 37°55′ 135 | 27°19′ 179 | 25°42′ 237 | 49°01′ 282 | 49°52′ 329 |
| 306 | 50 27 005 | 32 09 059 | 38 37 136 | 27 20 180 | 24 52 237 | 48 03 282 | 49 20 328 |
| 307 | 50 32 004 | 33 00 059 | 39 18 137 | 27 20 180 | 24 02 237 | 47 05 282 | 48 48 327 |
| 308 | 50 35 003 | 33 51 059 | 39 59 137 | 27 19 181 | 23 12 238 | 46 06 282 | 48 15 326 |
| 309 | 50 38 002 | 34 42 058 | 40 39 138 | 27 18 181 | 22 21 238 | 45 08 282 | 47 41 325 |
| 310 | 50°39′ 001 | 35°32′ 058 | 41°19′ 139 | 27°17′ 182 | 21°30′ 238 | 44°09′ 282 | 47°06′ 324 |
| 311 | 50 39 359 | 36 23 058 | 41 58 140 | 27 14 183 | 20 39 239 | 43 11 282 | 46 31 324 |
| 312 | 50 38 358 | 37 13 058 | 42 36 140 | 27 11 183 | 19 48 239 | 42 12 282 | 45 56 323 |
| 313 | 50 35 357 | 38 04 057 | 43 14 141 | 27 07 184 | 18 57 239 | 41 14 281 | 45 19 322 |
| 314 | 50 32 356 | 38 54 057 | 43 51 142 | 27 03 184 | 18 06 240 | 40 15 281 | 44 42 321 |
| | Alpheratz | ✦Diphda | FOMALHAUT | ✦Nunki | Rasalhague | VEGA | ✦DENEB |
| 315 | 39°44′ 057 | 29°41′ 115 | 44°27′ 143 | 45°59′ 221 | 39°17′ 281 | 44°05′ 321 | 50°27′ 355 |
| 316 | 40 33 056 | 30 35 115 | 45 03 144 | 45 19 222 | 38 18 281 | 43 27 320 | 50 22 354 |
| 317 | 41 23 056 | 31 29 115 | 45 38 145 | 44 39 223 | 37 20 281 | 42 49 320 | 50 15 353 |
| 318 | 42 12 055 | 32 23 116 | 46 12 146 | 43 57 224 | 36 21 281 | 42 10 319 | 50 07 352 |
| 319 | 43 01 055 | 33 17 116 | 46 45 147 | 43 16 225 | 35 23 281 | 41 30 318 | 49 58 351 |
| 320 | 43°50′ 055 | 34°10′ 116 | 47°18′ 148 | 42°33′ 226 | 34°24′ 281 | 40°51′ 318 | 49°48′ 350 |
| 321 | 44 39 054 | 35 04 117 | 47 49 149 | 41 51 226 | 33 26 281 | 40 10 317 | 49 36 349 |
| 322 | 45 27 054 | 35 57 117 | 48 20 150 | 41 07 227 | 32 27 281 | 39 30 317 | 49 24 348 |
| 323 | 46 15 053 | 36 50 118 | 48 49 151 | 40 23 228 | 31 29 281 | 38 49 316 | 49 11 347 |
| 324 | 47 02 053 | 37 43 118 | 49 18 152 | 39 39 228 | 30 30 281 | 38 07 316 | 48 56 346 |
| 325 | 47°50′ 052 | 38°35′ 119 | 49°46′ 153 | 38°54′ 229 | 29°31′ 281 | 37°26′ 315 | 48°41′ 345 |
| 326 | 48 36 051 | 39 27 119 | 50 12 154 | 38 09 230 | 28 33 281 | 36 44 315 | 48 25 344 |
| 327 | 49 23 051 | 40 19 120 | 50 38 155 | 37 23 230 | 27 34 281 | 36 01 315 | 48 07 343 |
| 328 | 50 09 050 | 41 11 120 | 51 02 157 | 36 37 231 | 26 36 281 | 35 19 314 | 47 49 342 |
| 329 | 50 55 050 | 42 03 121 | 51 25 158 | 35 51 231 | 25 37 281 | 34 36 314 | 47 30 341 |
| | ✦Alpheratz | Diphda | ✦FOMALHAUT | Peacock | ALTAIR | ✦VEGA | DENEB |
| 330 | 51°40′ 049 | 42°54′ 121 | 51°47′ 159 | 24°31′ 194 | 58°05′ 277 | 33°53′ 314 | 47°10′ 340 |
| 331 | 52 24 048 | 43 45 122 | 52 08 160 | 24 16 194 | 57 06 277 | 33 09 313 | 46 49 339 |
| 332 | 53 09 047 | 44 35 122 | 52 27 162 | 24 01 195 | 56 07 277 | 32 26 313 | 46 27 338 |
| 333 | 53 52 047 | 45 25 123 | 52 45 163 | 23 46 195 | 55 07 277 | 31 42 313 | 46 04 337 |
| 334 | 54 35 046 | 46 15 124 | 53 02 164 | 23 30 196 | 54 08 277 | 30 58 312 | 45 41 336 |
| 335 | 55°18′ 045 | 47°04′ 124 | 53°17′ 166 | 23°13′ 196 | 53°09′ 277 | 30°13′ 312 | 45°16′ 336 |
| 336 | 55 59 044 | 47 53 125 | 53 31 167 | 22 56 197 | 52 10 277 | 29 29 312 | 44 51 335 |
| 337 | 56 40 043 | 48 42 126 | 53 43 169 | 22 38 197 | 51 10 277 | 28 44 311 | 44 26 334 |
| 338 | 57 20 042 | 49 30 127 | 53 54 170 | 22 20 198 | 50 11 277 | 27 59 311 | 43 59 333 |
| 339 | 58 00 041 | 50 18 128 | 54 04 172 | 22 02 198 | 49 12 277 | 27 14 311 | 43 32 332 |
| 340 | 58°38′ 040 | 51°05′ 128 | 54°12′ 173 | 21°43′ 199 | 48°13′ 277 | 26°29′ 311 | 43°04′ 332 |
| 341 | 59 16 038 | 51 51 129 | 54 18 175 | 21 23 199 | 47 13 277 | 25 44 310 | 42 35 331 |
| 342 | 59 53 037 | 52 37 130 | 54 23 176 | 21 03 200 | 46 14 277 | 24 58 310 | 42 06 330 |
| 343 | 60 28 036 | 53 22 131 | 54 27 177 | 20 43 200 | 45 15 277 | 24 13 310 | 41 36 330 |
| 344 | 61 03 035 | 54 07 132 | 54 29 179 | 20 22 201 | 44 16 277 | 23 27 310 | 41 06 329 |
| | ✦Mirfak | Hamal | Acamar | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 345 | 19°38′ 039 | 41°30′ 064 | 18°22′ 136 | 19°09′ 159 | 54°29′ 180 | 43°16′ 277 | 40°35′ 328 |
| 346 | 20 15 039 | 42 24 063 | 19 03 136 | 19 30 159 | 54 28 182 | 42 17 277 | 40 03 328 |
| 347 | 20 52 038 | 43 17 063 | 19 44 137 | 19 52 159 | 54 25 183 | 41 18 277 | 39 31 327 |
| 348 | 21 29 038 | 44 10 063 | 20 25 137 | 20 12 160 | 54 20 185 | 40 18 277 | 38 59 327 |
| 349 | 22 06 038 | 45 03 062 | 21 05 137 | 20 33 160 | 54 14 186 | 39 19 277 | 38 26 326 |
| 350 | 22°43′ 038 | 45°56′ 062 | 21°46′ 138 | 20°53′ 161 | 54°07′ 188 | 38°20′ 277 | 37°52′ 326 |
| 351 | 23 19 038 | 46 48 062 | 22 25 138 | 21 12 161 | 53 58 189 | 37 21 277 | 37 18 325 |
| 352 | 23 56 037 | 47 41 061 | 23 05 139 | 21 31 162 | 53 48 191 | 36 21 277 | 36 44 325 |
| 353 | 24 32 037 | 48 33 061 | 23 44 139 | 21 50 162 | 53 36 192 | 35 22 277 | 36 09 324 |
| 354 | 25 07 037 | 49 25 060 | 24 23 140 | 22 08 163 | 53 22 194 | 34 23 277 | 35 34 324 |
| 355 | 25°43′ 037 | 50°17′ 060 | 25°02′ 140 | 22°25′ 163 | 53°07′ 195 | 33°24′ 277 | 34°58′ 323 |
| 356 | 26 19 036 | 51 08 059 | 25 40 140 | 22 42 164 | 52 51 196 | 32 24 277 | 34 22 323 |
| 357 | 26 54 036 | 51 59 059 | 26 18 141 | 22 59 164 | 52 34 198 | 31 25 277 | 33 45 322 |
| 358 | 27 29 036 | 52 50 058 | 26 55 141 | 23 15 165 | 52 15 199 | 30 26 277 | 33 09 322 |
| 359 | 28 03 035 | 53 41 058 | 27 32 142 | 23 30 165 | 51 55 200 | 29 27 277 | 32 32 321 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦CAPELLA | ALDEBARAN | RIGEL | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 0 | 10°51′ 044 | 21°17′ 074 | 10°15′ 099 | 24°43′ 166 | 52°29′ 202 | 28°20′ 277 | 31°08′ 321 |
| 1 | 11 33 044 | 22 14 074 | 11 14 099 | 24 58 166 | 52 06 203 | 27 21 277 | 30 30 321 |
| 2 | 12 14 044 | 23 12 074 | 12 13 100 | 25 12 167 | 51 41 205 | 26 21 277 | 29 52 321 |
| 3 | 12 56 044 | 24 09 074 | 13 12 100 | 25 26 167 | 51 16 206 | 25 22 278 | 29 14 320 |
| 4 | 13 37 044 | 25 07 074 | 14 11 100 | 25 39 168 | 50 49 207 | 24 23 278 | 28 36 320 |
| 5 | 14°19′ 044 | 26°04′ 074 | 15°10′ 100 | 25°51′ 168 | 50°21′ 208 | 23°24′ 278 | 27°57′ 320 |
| 6 | 15 00 044 | 27 02 074 | 16 09 100 | 26 03 169 | 49 53 209 | 22 24 278 | 27 19 319 |
| 7 | 15 41 043 | 27 59 074 | 17 07 100 | 26 14 169 | 49 23 211 | 21 25 278 | 26 40 319 |
| 8 | 16 22 043 | 28 57 074 | 18 06 100 | 26 25 170 | 48 52 212 | 20 26 278 | 26 00 319 |
| 9 | 17 03 043 | 29 54 074 | 19 05 100 | 26 35 171 | 48 20 213 | 19 27 278 | 25 21 318 |
| 10 | 17°44′ 043 | 30°51′ 074 | 20°04′ 101 | 26°44′ 171 | 47°47′ 214 | 18°27′ 278 | 24°41′ 318 |
| 11 | 18 25 043 | 31 49 074 | 21 02 101 | 26 53 172 | 47 14 215 | 17 28 278 | 24 01 318 |
| 12 | 19 05 043 | 32 46 074 | 22 01 101 | 27 01 172 | 46 40 216 | 16 29 278 | 23 21 318 |
| 13 | 19 46 043 | 33 43 073 | 23 00 101 | 27 09 173 | 46 04 217 | 15 30 278 | 22 41 318 |
| 14 | 20 26 042 | 34 41 073 | 23 58 101 | 27 16 174 | 45 28 217 | 14 31 278 | 22 00 317 |
| | CAPELLA | ✦ALDEBARAN | RIGEL | ✦ACHERNAR | FOMALHAUT | Enif | ✦DENEB |
| 15 | 21°07′ 042 | 35°38′ 073 | 24°57′ 101 | 27°22′ 174 | 44°52′ 218 | 41°29′ 279 | 21°20′ 317 |
| 16 | 21 47 042 | 36 35 073 | 25 56 102 | 27 28 175 | 44 14 219 | 40 30 279 | 20 39 317 |
| 17 | 22 27 042 | 37 32 073 | 26 54 102 | 27 33 175 | 43 36 220 | 39 31 279 | 19 58 317 |
| 18 | 23 06 042 | 38 29 073 | 27 53 102 | 27 38 176 | 42 58 221 | 38 32 279 | 19 17 317 |
| 19 | 23 46 041 | 39 26 073 | 28 51 102 | 27 42 177 | 42 18 222 | 37 33 279 | 18 36 316 |
| 20 | 24°25′ 041 | 40°23′ 072 | 29°50′ 102 | 27°45′ 177 | 41°38′ 222 | 36°34′ 279 | 17°54′ 316 |
| 21 | 25 05 041 | 41 20 072 | 30 48 103 | 27 48 178 | 40 58 223 | 35 35 279 | 17 13 316 |
| 22 | 25 44 041 | 42 17 072 | 31 46 103 | 27 50 178 | 40 17 224 | 34 36 279 | 16 32 316 |
| 23 | 26 22 040 | 43 14 072 | 32 44 103 | 27 51 179 | 39 35 224 | 33 37 279 | 15 50 316 |
| 24 | 27 01 040 | 44 11 072 | 33 43 103 | 27 52 180 | 38 53 225 | 32 38 279 | 15 08 316 |
| 25 | 27°39′ 040 | 45°08′ 071 | 34°41′ 104 | 27°52′ 180 | 38°10′ 226 | 31°39′ 279 | 14°27′ 316 |
| 26 | 28 17 039 | 46 04 071 | 35 39 104 | 27 51 181 | 37 27 226 | 30 40 279 | 13 45 316 |
| 27 | 28 55 039 | 47 01 071 | 36 37 104 | 27 50 181 | 36 44 227 | 29 40 279 | 13 03 315 |
| 28 | 29 32 039 | 47 57 071 | 37 35 104 | 27 48 182 | 36 00 228 | 28 41 279 | 12 21 315 |
| 29 | 30 10 038 | 48 54 070 | 38 33 105 | 27 46 183 | 35 16 228 | 27 42 279 | 11 39 315 |
| | Mirfak | CAPELLA | ✦ALDEBARAN | RIGEL | ✦ACHERNAR | FOMALHAUT | ✦Alpheratz |
| 30 | 41°35′ 018 | 30°47′ 038 | 49°50′ 070 | 39°30′ 105 | 27°42′ 183 | 34°31′ 229 | 54°22′ 316 |
| 31 | 41 53 018 | 31 23 038 | 50 46 070 | 40 28 105 | 27 39 184 | 33 46 229 | 53 41 315 |
| 32 | 42 11 017 | 31 59 037 | 51 42 069 | 41 26 106 | 27 34 185 | 33 01 230 | 52 58 314 |
| 33 | 42 28 016 | 32 35 037 | 52 38 069 | 42 23 106 | 27 29 185 | 32 15 230 | 52 15 313 |
| 34 | 42 44 015 | 33 11 036 | 53 34 069 | 43 21 106 | 27 24 186 | 31 29 231 | 51 31 313 |
| 35 | 42°59′ 014 | 33°46′ 036 | 54°30′ 068 | 44°18′ 107 | 27°17′ 186 | 30°42′ 231 | 50°47′ 312 |
| 36 | 43 13 014 | 34 21 035 | 55 25 068 | 45 15 107 | 27 10 187 | 29 56 232 | 50 02 311 |
| 37 | 43 27 013 | 34 55 035 | 56 20 067 | 46 13 107 | 27 03 188 | 29 09 232 | 49 17 310 |
| 38 | 43 40 012 | 35 29 034 | 57 15 067 | 47 10 108 | 26 55 188 | 28 21 232 | 48 31 310 |
| 39 | 43 52 011 | 36 03 034 | 58 10 066 | 48 06 108 | 26 46 189 | 27 34 233 | 47 45 309 |
| 40 | 44°03′ 010 | 36°36′ 033 | 59°05′ 066 | 49°03′ 109 | 26°37′ 189 | 26°46′ 233 | 46°59′ 309 |
| 41 | 44 13 009 | 37 09 033 | 59 59 065 | 50 00 109 | 26 27 190 | 25 58 234 | 46 12 308 |
| 42 | 44 22 008 | 37 41 032 | 60 53 064 | 50 56 110 | 26 16 190 | 25 10 234 | 45 24 308 |
| 43 | 44 31 008 | 38 13 032 | 61 47 064 | 51 52 110 | 26 05 191 | 24 21 234 | 44 37 307 |
| 44 | 44 38 007 | 38 44 031 | 62 41 063 | 52 48 111 | 25 54 192 | 23 33 235 | 43 49 306 |
| | CAPELLA | ✦PROCYON | SIRIUS | CANOPUS | ✦ACHERNAR | Diphda | ✦Alpheratz |
| 45 | 39°15′ 031 | 20°14′ 086 | 30°05′ 113 | 18°03′ 150 | 25°41′ 192 | 49°31′ 235 | 43°01′ 306 |
| 46 | 39 45 030 | 21 14 086 | 31 01 113 | 18 32 151 | 25 29 193 | 48 42 235 | 42 12 306 |
| 47 | 40 14 029 | 22 13 086 | 31 55 113 | 19 01 151 | 25 15 193 | 47 52 236 | 41 23 305 |
| 48 | 40 43 029 | 23 13 087 | 32 50 114 | 19 30 151 | 25 01 194 | 47 02 237 | 40 34 305 |
| 49 | 41 12 028 | 24 13 087 | 33 45 114 | 19 58 152 | 24 47 194 | 46 12 238 | 39 45 304 |
| 50 | 41°39′ 027 | 25°12′ 087 | 34°40′ 114 | 20°26′ 152 | 24°32′ 195 | 45°22′ 238 | 38°56′ 304 |
| 51 | 42 06 027 | 26 12 087 | 35 34 115 | 20 54 153 | 24 16 195 | 44 31 239 | 38 06 304 |
| 52 | 42 33 026 | 27 12 087 | 36 28 115 | 21 21 153 | 24 00 196 | 43 39 239 | 37 16 303 |
| 53 | 42 58 025 | 28 11 087 | 37 22 116 | 21 48 154 | 23 43 196 | 42 48 240 | 36 26 303 |
| 54 | 43 23 024 | 29 11 087 | 38 16 116 | 22 15 154 | 23 26 197 | 41 56 240 | 35 36 303 |
| 55 | 43°48′ 024 | 30°11′ 087 | 39°10′ 116 | 22°41′ 154 | 23°09′ 197 | 41°04′ 241 | 34°46′ 302 |
| 56 | 44 11 023 | 31 10 087 | 40 03 117 | 23 06 155 | 22 51 198 | 40 11 241 | 33 55 302 |
| 57 | 44 34 022 | 32 10 087 | 40 56 117 | 23 31 155 | 22 32 198 | 39 19 242 | 33 04 302 |
| 58 | 44 56 021 | 33 10 087 | 41 49 118 | 23 56 156 | 22 13 199 | 38 26 242 | 32 13 302 |
| 59 | 45 17 020 | 34 09 087 | 42 42 118 | 24 20 156 | 21 54 199 | 37 33 243 | 31 22 301 |
| | ✦CAPELLA | PROCYON | ✦SIRIUS | CANOPUS | ACHERNAR | ✦Diphda | Alpheratz |
| 60 | 45°37′ 019 | 35°09′ 087 | 43°35′ 119 | 24°44′ 157 | 21°34′ 200 | 36°39′ 243 | 30°31′ 301 |
| 61 | 45 57 019 | 36 09 087 | 44 27 119 | 25 07 157 | 21 13 200 | 35 46 244 | 29 40 301 |
| 62 | 46 15 018 | 37 09 087 | 45 19 120 | 25 30 158 | 20 52 201 | 34 52 244 | 28 49 301 |
| 63 | 46 33 017 | 38 08 087 | 46 10 121 | 25 52 158 | 20 31 201 | 33 58 244 | 27 57 301 |
| 64 | 46 49 016 | 39 08 087 | 47 02 121 | 26 14 159 | 20 09 202 | 33 04 245 | 27 06 300 |
| 65 | 47°05′ 015 | 40°08′ 087 | 47°53′ 122 | 26°35′ 160 | 19°47′ 202 | 32°10′ 245 | 26°14′ 300 |
| 66 | 47 20 014 | 41 07 087 | 48 43 123 | 26 56 160 | 19 25 202 | 31 16 246 | 25 22 300 |
| 67 | 47 34 013 | 42 07 088 | 49 33 123 | 27 16 161 | 19 02 203 | 30 21 246 | 24 31 300 |
| 68 | 47 47 012 | 43 07 088 | 50 23 124 | 27 35 161 | 18 38 203 | 29 27 246 | 23 39 300 |
| 69 | 47 59 011 | 44 07 088 | 51 12 125 | 27 54 162 | 18 15 204 | 28 32 247 | 22 47 300 |
| 70 | 48°09′ 010 | 45°06′ 088 | 52°01′ 126 | 28°13′ 162 | 17°51′ 204 | 27°37′ 247 | 21°55′ 300 |
| 71 | 48 19 009 | 46 06 088 | 52 50 126 | 28 30 163 | 17 26 204 | 26 42 247 | 21 03 299 |
| 72 | 48 28 008 | 47 06 088 | 53 37 127 | 28 48 164 | 17 01 205 | 25 47 247 | 20 11 299 |
| 73 | 48 36 007 | 48 05 088 | 54 25 128 | 29 04 164 | 16 36 205 | 24 52 248 | 19 19 299 |
| 74 | 48 42 006 | 49 05 088 | 55 11 129 | 29 20 165 | 16 11 205 | 23 56 248 | 18 26 299 |
| | CAPELLA | ✦POLLUX | PROCYON | SIRIUS | ✦CANOPUS | Acamar | ✦Hamal |
| 75 | 48°48′ 005 | 44°18′ 055 | 50°05′ 088 | 55°57′ 130 | 29°35′ 165 | 36°55′ 209 | 44°42′ 299 |
| 76 | 48 52 004 | 45 07 055 | 51 05 088 | 56 43 131 | 29 50 166 | 36 26 209 | 43 50 298 |
| 77 | 48 56 003 | 45 56 054 | 52 04 088 | 57 27 132 | 30 04 167 | 35 57 210 | 42 57 298 |
| 78 | 48 58 002 | 46 44 054 | 53 04 088 | 58 11 134 | 30 17 167 | 35 26 211 | 42 04 297 |
| 79 | 48 59 001 | 47 32 053 | 54 04 088 | 58 54 135 | 30 30 168 | 34 55 212 | 41 11 297 |
| 80 | 48°59′ 000 | 48°19′ 052 | 55°04′ 088 | 59°36′ 136 | 30°42′ 169 | 34°24′ 212 | 40°18′ 297 |
| 81 | 48 58 358 | 49 07 052 | 56 03 088 | 60 16 137 | 30 53 169 | 33 51 213 | 39 24 297 |
| 82 | 48 56 357 | 49 53 051 | 57 03 088 | 60 56 139 | 31 04 170 | 33 19 214 | 38 31 296 |
| 83 | 48 52 356 | 50 40 050 | 58 03 088 | 61 35 140 | 31 14 171 | 32 45 214 | 37 37 296 |
| 84 | 48 48 355 | 51 26 050 | 59 03 088 | 62 13 142 | 31 23 171 | 32 11 215 | 36 43 296 |
| 85 | 48°43′ 354 | 52°11′ 049 | 60°02′ 088 | 62°49′ 143 | 31°32′ 172 | 31°37′ 215 | 35°50′ 296 |
| 86 | 48 36 353 | 52 56 048 | 61 02 088 | 63 24 145 | 31 40 173 | 31 02 216 | 34 56 295 |
| 87 | 48 29 352 | 53 40 047 | 62 02 088 | 63 57 147 | 31 47 174 | 30 27 217 | 34 01 295 |
| 88 | 48 20 351 | 54 24 047 | 63 02 088 | 64 29 149 | 31 53 174 | 29 51 217 | 33 07 295 |
| 89 | 48 10 350 | 55 07 046 | 64 01 088 | 64 59 151 | 31 59 175 | 29 15 218 | 32 13 295 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | POLLUX | ✦REGULUS | Suhail | ✦CANOPUS | Acamar | ✦ALDEBARAN | CAPELLA |
| 90 | 55°50′ 045 | 28°03′ 079 | 25°32′ 144 | 32°04′ 176 | 28°38′ 218 | 66°37′ 301 | 47°59′ 349 |
| 91 | 56 31 044 | 29 02 079 | 26 07 144 | 32 08 176 | 28 01 219 | 65 46 300 | 47 48 348 |
| 92 | 57 12 043 | 30 01 079 | 26 42 145 | 32 11 177 | 27 23 219 | 64 54 299 | 47 35 347 |
| 93 | 57 53 042 | 30 59 079 | 27 16 145 | 32 14 178 | 26 45 220 | 64 01 298 | 47 21 346 |
| 94 | 58 32 041 | 31 58 079 | 27 50 146 | 32 16 178 | 26 07 220 | 63 09 297 | 47 06 345 |
| 95 | 59°10′ 039 | 32°57′ 079 | 28°23′ 146 | 32°17′ 179 | 25°28′ 221 | 62°15′ 297 | 46°51′ 344 |
| 96 | 59 48 038 | 33 55 079 | 28 56 147 | 32 18 180 | 24 49 221 | 61 22 296 | 46 34 343 |
| 97 | 60 24 037 | 34 54 079 | 29 28 147 | 32 17 181 | 24 10 221 | 60 28 295 | 46 16 342 |
| 98 | 61 00 036 | 35 53 079 | 30 00 148 | 32 16 181 | 23 30 222 | 59 34 295 | 45 58 342 |
| 99 | 61 34 034 | 36 51 079 | 30 31 149 | 32 14 182 | 22 50 222 | 58 39 294 | 45 39 341 |
| 100 | 62°07′ 033 | 37°50′ 079 | 31°02′ 149 | 32°12′ 183 | 22°10′ 223 | 57°44′ 293 | 45°18′ 340 |
| 101 | 62 38 031 | 38 49 079 | 31 33 150 | 32 09 184 | 21 29 223 | 56 49 293 | 44 57 339 |
| 102 | 63 09 030 | 39 47 079 | 32 02 150 | 32 05 184 | 20 48 223 | 55 54 292 | 44 35 338 |
| 103 | 63 37 028 | 40 46 079 | 32 31 151 | 32 00 185 | 20 07 224 | 54 59 292 | 44 13 337 |
| 104 | 64 05 026 | 41 44 079 | 33 00 152 | 31 54 186 | 19 26 224 | 54 03 291 | 43 49 337 |
| | POLLUX | ✦REGULUS | Suhail | ✦CANOPUS | RIGEL | ✦ALDEBARAN | CAPELLA |
| 105 | 64°30′ 024 | 42°43′ 078 | 33°28′ 152 | 31°48′ 186 | 60°48′ 243 | 53°08′ 291 | 43°25′ 336 |
| 106 | 64 54 023 | 43 42 078 | 33 55 153 | 31 41 187 | 59 54 244 | 52 12 291 | 43 00 335 |
| 107 | 65 16 021 | 44 40 078 | 34 22 154 | 31 33 188 | 59 00 245 | 51 16 290 | 42 35 334 |
| 108 | 65 36 019 | 45 39 078 | 34 48 154 | 31 25 188 | 58 06 246 | 50 20 290 | 42 08 333 |
| 109 | 65 54 017 | 46 37 078 | 35 14 155 | 31 16 189 | 57 11 246 | 49 23 290 | 41 41 333 |
| 110 | 66°10′ 015 | 47°36′ 078 | 35°38′ 156 | 31°06′ 190 | 56°16′ 247 | 48°27′ 289 | 41°14′ 332 |
| 111 | 66 25 013 | 48 34 078 | 36 02 157 | 30 56 190 | 55 21 248 | 47 31 289 | 40 45 331 |
| 112 | 66 36 010 | 49 32 078 | 36 26 157 | 30 44 191 | 54 26 248 | 46 34 289 | 40 16 331 |
| 113 | 66 46 008 | 50 31 077 | 36 48 158 | 30 33 192 | 53 30 249 | 45 38 289 | 39 47 330 |
| 114 | 66 53 006 | 51 29 077 | 37 10 159 | 30 20 192 | 52 34 250 | 44 41 288 | 39 17 329 |
| 115 | 66°58′ 004 | 52°27′ 077 | 37°31′ 160 | 30°07′ 193 | 51°38′ 250 | 43°44′ 288 | 38°46′ 329 |
| 116 | 67 01 001 | 53 25 077 | 37 51 161 | 29 53 194 | 50 42 251 | 42 47 288 | 38 15 328 |
| 117 | 67 01 359 | 54 24 077 | 38 11 161 | 29 38 194 | 49 45 251 | 41 50 288 | 37 43 328 |
| 118 | 66 59 357 | 55 22 076 | 38 29 162 | 29 23 195 | 48 48 252 | 40 53 288 | 37 11 327 |
| 119 | 66 55 355 | 56 20 076 | 38 47 163 | 29 07 196 | 47 52 252 | 39 56 287 | 36 39 327 |
| | Dubhe | ✦Denebola | Suhail | ✦CANOPUS | SIRIUS | BETELGEUSE | ✦CAPELLA |
| 120 | 23°50′ 022 | 32°40′ 076 | 39°04′ 164 | 28°51′ 196 | 61°35′ 220 | 59°09′ 276 | 36°05′ 326 |
| 121 | 24 12 022 | 33 38 076 | 39 20 165 | 28 34 197 | 60 57 221 | 58 10 276 | 35 32 326 |
| 122 | 24 34 021 | 34 36 076 | 39 35 166 | 28 16 197 | 60 17 223 | 57 10 276 | 34 58 325 |
| 123 | 24 55 021 | 35 34 076 | 39 49 167 | 27 58 198 | 59 36 224 | 56 11 276 | 34 23 325 |
| 124 | 25 17 021 | 36 32 076 | 40 03 168 | 27 39 199 | 58 54 225 | 55 11 276 | 33 49 324 |
| 125 | 25°38′ 020 | 37°30′ 076 | 40°15′ 168 | 27°20′ 199 | 58°11′ 226 | 54°12′ 276 | 33°14′ 324 |
| 126 | 25 58 020 | 38 28 075 | 40 27 169 | 27 00 200 | 57 27 228 | 53 12 276 | 32 38 323 |
| 127 | 26 18 020 | 39 26 075 | 40 37 170 | 26 39 200 | 56 43 229 | 52 13 276 | 32 02 323 |
| 128 | 26 38 019 | 40 24 075 | 40 47 171 | 26 18 201 | 55 58 230 | 51 13 276 | 31 26 322 |
| 129 | 26 58 019 | 41 21 075 | 40 56 172 | 25 56 201 | 55 12 231 | 50 14 276 | 30 49 322 |
| 130 | 27°17′ 018 | 42°19′ 075 | 41°03′ 173 | 25°34′ 202 | 54°25′ 232 | 49°15′ 276 | 30°12′ 322 |
| 131 | 27 36 018 | 43 17 075 | 41 10 174 | 25 12 203 | 53 38 233 | 48 15 276 | 29 35 321 |
| 132 | 27 54 018 | 44 15 075 | 41 16 175 | 24 48 203 | 52 50 234 | 47 16 276 | 28 58 321 |
| 133 | 28 12 017 | 45 12 074 | 41 20 176 | 24 25 204 | 52 02 234 | 46 16 275 | 28 20 321 |
| 134 | 28 29 017 | 46 10 074 | 41 24 177 | 24 01 204 | 51 13 235 | 45 17 275 | 27 42 320 |
| | Dubhe | ✦SPICA | ACRUX | ✦CANOPUS | SIRIUS | BETELGEUSE | ✦CAPELLA |
| 135 | 28°46′ 016 | 21°49′ 104 | 11°29′ 159 | 23°36′ 205 | 50°23′ 236 | 44°17′ 275 | 27°04′ 320 |
| 136 | 29 03 016 | 22 47 104 | 11 51 159 | 23 11 205 | 49 34 237 | 43 18 275 | 26 25 320 |
| 137 | 29 19 015 | 23 45 105 | 12 12 159 | 22 46 205 | 48 43 237 | 42 18 275 | 25 46 319 |
| 138 | 29 34 015 | 24 43 105 | 12 33 160 | 22 20 206 | 47 53 238 | 41 19 275 | 25 07 319 |
| 139 | 29 50 015 | 25 40 105 | 12 53 160 | 21 53 206 | 47 02 239 | 40 19 275 | 24 28 319 |
| 140 | 30°04′ 014 | 26°38′ 105 | 13°14′ 160 | 21°26′ 207 | 46°11′ 239 | 39°20′ 275 | 23°49′ 319 |
| 141 | 30 19 014 | 27 36 105 | 13 34 161 | 20 59 207 | 45 19 240 | 38 20 275 | 23 09 318 |
| 142 | 30 32 013 | 28 33 106 | 13 54 161 | 20 32 208 | 44 27 241 | 37 21 276 | 22 30 318 |
| 143 | 30 46 013 | 29 31 106 | 14 13 161 | 20 04 208 | 43 35 241 | 36 21 276 | 21 50 318 |
| 144 | 30 59 012 | 30 28 106 | 14 32 162 | 19 35 209 | 42 42 242 | 35 22 276 | 21 09 318 |
| 145 | 31°11′ 012 | 31°26′ 106 | 14°51′ 162 | 19°07′ 209 | 41°50′ 242 | 34°22′ 276 | 20°29′ 318 |
| 146 | 31 23 011 | 32 23 107 | 15 09 162 | 18 38 209 | 40 57 243 | 33 23 276 | 19 49 317 |
| 147 | 31 34 011 | 33 20 107 | 15 28 163 | 18 08 210 | 40 03 243 | 32 23 276 | 19 08 317 |
| 148 | 31 44 010 | 34 17 107 | 15 45 163 | 17 39 210 | 39 10 244 | 31 24 276 | 18 28 317 |
| 149 | 31 55 010 | 35 14 108 | 16 03 163 | 17 08 210 | 38 16 244 | 30 24 276 | 17 47 317 |
| | ✦Dubhe | ARCTURUS | ✦SPICA | ACRUX | ✦SIRIUS | PROCYON | POLLUX |
| 150 | 32°04′ 009 | 26°03′ 071 | 36°11′ 108 | 16°20′ 164 | 37°23′ 244 | 55°13′ 272 | 50°52′ 310 |
| 151 | 32 13 008 | 27 00 071 | 37 08 108 | 16 36 164 | 36 29 245 | 54 14 272 | 50 05 309 |
| 152 | 32 22 008 | 27 56 071 | 38 05 109 | 16 53 164 | 35 34 245 | 53 14 272 | 49 19 308 |
| 153 | 32 30 007 | 28 53 071 | 39 01 109 | 17 09 165 | 34 40 246 | 52 14 272 | 48 32 308 |
| 154 | 32 37 007 | 29 49 071 | 39 58 109 | 17 24 165 | 33 45 246 | 51 14 272 | 47 44 307 |
| 155 | 32°44′ 006 | 30°45′ 071 | 40°54′ 110 | 17°39′ 166 | 32°51′ 246 | 50°15′ 272 | 46°56′ 307 |
| 156 | 32 50 006 | 31 42 071 | 41 50 110 | 17 54 166 | 31 56 247 | 49 15 272 | 46 08 306 |
| 157 | 32 56 005 | 32 38 071 | 42 47 110 | 18 08 166 | 31 01 247 | 48 15 272 | 45 20 306 |
| 158 | 33 01 005 | 33 35 070 | 43 43 111 | 18 22 167 | 30 06 247 | 47 16 272 | 44 31 305 |
| 159 | 33 06 004 | 34 31 070 | 44 38 111 | 18 36 167 | 29 11 248 | 46 16 272 | 43 42 305 |
| 160 | 33°10′ 004 | 35°27′ 070 | 45°34′ 112 | 18°49′ 168 | 28°15′ 248 | 45°16′ 272 | 42°53′ 304 |
| 161 | 33 13 003 | 36 23 070 | 46 29 112 | 19 02 168 | 27 20 248 | 44 16 272 | 42 03 304 |
| 162 | 33 16 002 | 37 19 070 | 47 25 113 | 19 14 168 | 26 24 249 | 43 17 272 | 41 13 303 |
| 163 | 33 18 002 | 38 15 070 | 48 20 113 | 19 26 169 | 25 29 249 | 42 17 272 | 40 23 303 |
| 164 | 33 20 001 | 39 11 069 | 49 15 114 | 19 37 169 | 24 33 249 | 41 17 272 | 39 33 303 |
| | Dubhe | ✦ARCTURUS | SPICA | ✦ACRUX | Suhail | PROCYON | ✦POLLUX |
| 165 | 33°21′ 001 | 40°07′ 069 | 50°09′ 114 | 19°48′ 170 | 35°23′ 205 | 40°18′ 273 | 38°42′ 302 |
| 166 | 33 21 000 | 41 03 069 | 51 04 115 | 19 59 170 | 34 57 205 | 39 18 273 | 37 52 302 |
| 167 | 33 21 000 | 41 59 069 | 51 58 115 | 20 09 171 | 34 32 206 | 38 18 273 | 37 01 302 |
| 168 | 33 20 359 | 42 55 068 | 52 51 116 | 20 18 171 | 34 05 207 | 37 18 273 | 36 10 301 |
| 169 | 33 19 358 | 43 50 068 | 53 45 117 | 20 27 171 | 33 38 207 | 36 19 273 | 35 19 301 |
| 170 | 33°17′ 358 | 44°46′ 068 | 54°38′ 118 | 20°36′ 172 | 33°10′ 208 | 35°19′ 273 | 34°27′ 301 |
| 171 | 33 15 357 | 45 41 068 | 55 31 118 | 20 44 172 | 32 42 209 | 34 19 273 | 33 36 300 |
| 172 | 33 11 357 | 46 36 067 | 56 23 119 | 20 52 173 | 32 13 209 | 33 20 273 | 32 44 300 |
| 173 | 33 08 356 | 47 31 067 | 57 15 120 | 20 59 173 | 31 43 210 | 32 20 273 | 31 53 300 |
| 174 | 33 04 356 | 48 26 067 | 58 07 121 | 21 05 174 | 31 13 211 | 31 20 273 | 31 01 300 |
| 175 | 32°59′ 355 | 49°21′ 066 | 58°58′ 122 | 21°12′ 174 | 30°43′ 211 | 30°21′ 273 | 30°09′ 300 |
| 176 | 32 53 354 | 50 16 066 | 59 49 123 | 21 17 175 | 30 11 212 | 29 21 273 | 29 17 299 |
| 177 | 32 47 354 | 51 10 066 | 60 39 124 | 21 23 175 | 29 40 212 | 28 21 273 | 28 25 299 |
| 178 | 32 41 353 | 52 04 065 | 61 28 125 | 21 27 176 | 29 08 213 | 27 21 273 | 27 33 299 |
| 179 | 32 33 353 | 52 59 065 | 62 17 126 | 21 32 176 | 28 35 213 | 26 22 273 | 26 40 299 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | ANTARES | RIGIL KENT | ✦ACRUX | Suhail | ✦REGULUS | Dubhe |
| 180 | 53°52′064 | 17°28′120 | 17°04′161 | 21°35′177 | 28°02′214 | 61°50′286 | 32°26′352 |
| 181 | 54 46 064 | 18 20 120 | 17 24 161 | 21 39 177 | 27 28 214 | 60 52 285 | 32 17 352 |
| 182 | 55 39 063 | 19 12 120 | 17 43 162 | 21 41 178 | 26 54 215 | 59 54 285 | 32 09 351 |
| 183 | 56 33 062 | 20 03 121 | 18 01 162 | 21 44 178 | 26 20 215 | 58 57 285 | 31 59 351 |
| 184 | 57 25 062 | 20 55 121 | 18 20 162 | 21 45 179 | 25 45 216 | 57 59 284 | 31 49 350 |
| 185 | 58°18′061 | 21°46′121 | 18°37′163 | 21°47′179 | 25°09′216 | 57°01′284 | 31°39′350 |
| 186 | 59 10 060 | 22 37 121 | 18 55 163 | 21 47 180 | 24 34 217 | 56 03 284 | 31 28 349 |
| 187 | 60 02 060 | 23 28 122 | 19 12 164 | 21 48 180 | 23 58 217 | 55 05 284 | 31 16 349 |
| 188 | 60 53 059 | 24 19 122 | 19 29 164 | 21 47 181 | 23 21 218 | 54 07 283 | 31 04 348 |
| 189 | 61 44 058 | 25 09 122 | 19 45 164 | 21 46 181 | 22 44 218 | 53 09 283 | 30 52 348 |
| 190 | 62°35′057 | 26°00′123 | 20°01′165 | 21°45′181 | 22°07′219 | 52°10′283 | 30°39′347 |
| 191 | 63 24 056 | 26 50 123 | 20 16 165 | 21 43 182 | 21 30 219 | 51 12 283 | 30 25 347 |
| 192 | 64 14 055 | 27 40 123 | 20 31 166 | 21 41 182 | 20 52 219 | 50 14 283 | 30 11 346 |
| 193 | 65 02 054 | 28 29 124 | 20 45 166 | 21 38 183 | 20 14 220 | 49 15 282 | 29 57 346 |
| 194 | 65 50 053 | 29 19 124 | 20 59 167 | 21 35 183 | 19 36 220 | 48 17 282 | 29 42 345 |
| | ✦Alphecca | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 195 | 47°04′055 | 21°36′078 | 30°08′125 | 21°13′167 | 21°31′184 | 47°19′282 | 29°26′345 |
| 196 | 47 53 055 | 22 34 078 | 30 57 125 | 21 26 168 | 21 27 184 | 46 20 282 | 29 10 344 |
| 197 | 48 42 054 | 23 33 078 | 31 46 125 | 21 39 168 | 21 22 185 | 45 22 282 | 28 54 344 |
| 198 | 49 31 054 | 24 31 078 | 32 35 126 | 21 51 169 | 21 17 185 | 44 23 282 | 28 37 343 |
| 199 | 50 19 053 | 25 30 078 | 33 23 126 | 22 02 169 | 21 11 186 | 43 25 282 | 28 20 343 |
| 200 | 51°06′053 | 26°28′078 | 34°11′127 | 22°13′170 | 21°05′186 | 42°26′282 | 28°02′343 |
| 201 | 51 53 052 | 27 27 078 | 34 59 127 | 22 24 170 | 20 58 187 | 41 27 281 | 27 44 342 |
| 202 | 52 40 051 | 28 26 078 | 35 46 128 | 22 34 171 | 20 51 187 | 40 29 281 | 27 26 342 |
| 203 | 53 26 050 | 29 24 078 | 36 33 128 | 22 44 171 | 20 43 188 | 39 30 281 | 27 07 341 |
| 204 | 54 12 050 | 30 23 078 | 37 19 129 | 22 53 172 | 20 35 188 | 38 32 281 | 26 47 341 |
| 205 | 54°57′049 | 31°21′078 | 38°06′130 | 23°01′172 | 20°26′189 | 37°33′281 | 26°28′341 |
| 206 | 55 42 048 | 32 20 078 | 38 52 130 | 23 09 173 | 20 17 189 | 36 34 281 | 26 08 340 |
| 207 | 56 26 047 | 33 18 078 | 39 37 131 | 23 17 173 | 20 07 189 | 35 36 281 | 25 47 340 |
| 208 | 57 09 046 | 34 17 078 | 40 22 131 | 23 24 174 | 19 57 190 | 34 37 281 | 25 26 339 |
| 209 | 57 52 045 | 35 15 078 | 41 07 132 | 23 30 174 | 19 47 190 | 33 38 281 | 25 05 339 |
| | ✦VEGA | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 210 | 19°08′051 | 36°14′078 | 41°51′133 | 23°36′175 | 19°36′191 | 32°40′281 | 24°44′339 |
| 211 | 19 54 050 | 37 12 078 | 42 34 133 | 23 41 175 | 19 24 191 | 31 41 281 | 24 22 338 |
| 212 | 20 40 050 | 38 11 078 | 43 18 134 | 23 46 176 | 19 12 192 | 30 42 281 | 24 00 338 |
| 213 | 21 26 050 | 39 09 078 | 44 00 135 | 23 51 176 | 19 00 192 | 29 43 281 | 23 38 338 |
| 214 | 22 12 050 | 40 08 078 | 44 42 136 | 23 54 177 | 18 47 193 | 28 45 281 | 23 15 337 |
| 215 | 22°57′050 | 41°06′078 | 45°24′137 | 23°57′177 | 18°34′193 | 27°46′281 | 22°52′337 |
| 216 | 23 43 050 | 42 04 078 | 46 04 137 | 24 00 178 | 18 20 193 | 26 47 281 | 22 29 337 |
| 217 | 24 28 049 | 43 03 077 | 46 44 138 | 24 02 178 | 18 06 194 | 25 49 281 | 22 05 337 |
| 218 | 25 14 049 | 44 01 077 | 47 24 139 | 24 04 179 | 17 52 194 | 24 50 281 | 21 41 336 |
| 219 | 25 59 049 | 44 59 077 | 48 03 140 | 24 05 179 | 17 37 195 | 23 51 281 | 21 17 336 |
| 220 | 26°44′049 | 45°58′077 | 48°41′141 | 24°05′180 | 17°22′195 | 22°52′281 | 20°53′336 |
| 221 | 27 29 048 | 46 56 077 | 49 18 142 | 24 05 180 | 17 06 195 | 21 54 281 | 20 28 336 |
| 222 | 28 13 048 | 47 54 077 | 49 54 143 | 24 04 181 | 16 50 196 | 20 55 281 | 20 03 335 |
| 223 | 28 58 048 | 48 52 077 | 50 30 144 | 24 03 181 | 16 34 196 | 19 56 281 | 19 38 335 |
| 224 | 29 42 048 | 49 50 076 | 51 04 145 | 24 01 182 | 16 17 196 | 18 58 281 | 19 13 335 |
| | VEGA | ALTAIR | ✦Nunki | ANTARES | RIGIL KENT | ✦SPICA | ✦Alkaid |
| 225 | 30°26′047 | 17°36′082 | 24°50′122 | 51°38′146 | 23°59′183 | 61°34′235 | 43°15′344 |
| 226 | 31 10 047 | 18 35 082 | 25 40 122 | 52 11 147 | 23 56 183 | 60 45 236 | 42 58 343 |
| 227 | 31 53 047 | 19 34 082 | 26 31 123 | 52 43 149 | 23 52 184 | 59 55 237 | 42 40 342 |
| 228 | 32 37 046 | 20 33 082 | 27 21 123 | 53 13 150 | 23 48 184 | 59 04 238 | 42 22 342 |
| 229 | 33 20 046 | 21 33 082 | 28 11 123 | 53 43 151 | 23 44 185 | 58 13 239 | 42 02 341 |
| 230 | 34°03′046 | 22°32′082 | 29°01′124 | 54°11′152 | 23°39′185 | 57°22′240 | 41°42′340 |
| 231 | 34 45 045 | 23 31 082 | 29 50 124 | 54 38 154 | 23 33 186 | 56 30 241 | 41 22 339 |
| 232 | 35 27 045 | 24 30 082 | 30 39 125 | 55 04 155 | 23 27 186 | 55 37 242 | 41 00 339 |
| 233 | 36 09 044 | 25 30 082 | 31 29 125 | 55 28 156 | 23 20 187 | 54 44 242 | 40 38 338 |
| 234 | 36 51 044 | 26 29 083 | 32 17 126 | 55 52 158 | 23 13 187 | 53 51 243 | 40 15 337 |
| 235 | 37°32′043 | 27°28′083 | 33°06′126 | 56°13′159 | 23°05′188 | 52°58′244 | 39°52′337 |
| 236 | 38 13 043 | 28 27 083 | 33 54 126 | 56 34 161 | 22 57 188 | 52 04 244 | 39 28 336 |
| 237 | 38 54 042 | 29 27 083 | 34 42 127 | 56 53 162 | 22 48 189 | 51 10 245 | 39 03 335 |
| 238 | 39 34 042 | 30 26 083 | 35 30 127 | 57 10 164 | 22 39 189 | 50 16 246 | 38 38 335 |
| 239 | 40 14 041 | 31 25 083 | 36 17 128 | 57 26 166 | 22 29 190 | 49 21 246 | 38 12 334 |
| | VEGA | ✦ALTAIR | Nunki | ✦ANTARES | SPICA | ✦ARCTURUS | Alkaid |
| 240 | 40°53′041 | 32°25′083 | 37°04′129 | 57°40′167 | 48°26′247 | 61°07′301 | 37°45′333 |
| 241 | 41 32 040 | 33 24 083 | 37 50 129 | 57 52 169 | 47 31 247 | 60 16 301 | 37 18 333 |
| 242 | 42 10 040 | 34 23 083 | 38 37 130 | 58 03 170 | 46 36 248 | 59 25 300 | 36 50 332 |
| 243 | 42 48 039 | 35 22 083 | 39 22 130 | 58 12 172 | 45 40 248 | 58 33 299 | 36 22 332 |
| 244 | 43 26 038 | 36 22 083 | 40 08 131 | 58 20 174 | 44 45 249 | 57 40 298 | 35 53 331 |
| 245 | 44°02′038 | 37°21′083 | 40°53′132 | 58°25′175 | 43°49′249 | 56°47′298 | 35°24′330 |
| 246 | 44 39 037 | 38 20 083 | 41 37 132 | 58 29 177 | 42 53 250 | 55 54 297 | 34 54 330 |
| 247 | 45 15 036 | 39 19 083 | 42 21 133 | 58 31 179 | 41 57 250 | 55 01 297 | 34 24 329 |
| 248 | 45 50 036 | 40 19 083 | 43 05 134 | 58 31 181 | 41 01 250 | 54 07 296 | 33 54 329 |
| 249 | 46 24 035 | 41 18 083 | 43 48 134 | 58 30 182 | 40 04 251 | 53 14 296 | 33 23 328 |
| 250 | 46°58′034 | 42°17′082 | 44°30′135 | 58°27′184 | 39°08′251 | 52°20′295 | 32°51′328 |
| 251 | 47 31 033 | 43 17 082 | 45 12 136 | 58 22 186 | 38 11 251 | 51 25 295 | 32 19 328 |
| 252 | 48 04 032 | 44 16 082 | 45 53 137 | 58 15 187 | 37 15 252 | 50 31 294 | 31 47 327 |
| 253 | 48 35 032 | 45 15 082 | 46 34 138 | 58 06 189 | 36 18 252 | 49 36 294 | 31 15 327 |
| 254 | 49 06 031 | 46 14 082 | 47 14 138 | 57 56 191 | 35 21 252 | 48 41 293 | 30 42 326 |
| | ✦VEGA | ALTAIR | ✦Nunki | ANTARES | ✦SPICA | ARCTURUS | Alkaid |
| 255 | 49°36′030 | 47°13′082 | 47°53′139 | 57°44′192 | 34°24′253 | 47°47′293 | 30°08′326 |
| 256 | 50 06 029 | 48 13 082 | 48 32 140 | 57 30 194 | 33 27 253 | 46 52 293 | 29 35 326 |
| 257 | 50 34 028 | 49 12 082 | 49 09 141 | 57 15 196 | 32 29 253 | 45 56 292 | 29 01 325 |
| 258 | 51 01 027 | 50 11 082 | 49 46 142 | 56 58 197 | 31 32 254 | 45 01 292 | 28 26 325 |
| 259 | 51 28 026 | 51 10 082 | 50 23 143 | 56 40 199 | 30 35 254 | 44 06 292 | 27 52 324 |
| 260 | 51°54′025 | 52°10′082 | 50°58′144 | 56°20′200 | 29°37′254 | 43°10′292 | 27°17′324 |
| 261 | 52 18 024 | 53 09 082 | 51 32 146 | 55 59 202 | 28 40 254 | 42 14 291 | 26 42 324 |
| 262 | 52 42 023 | 54 08 082 | 52 05 147 | 55 36 203 | 27 42 254 | 41 19 291 | 26 06 323 |
| 263 | 53 04 021 | 55 07 082 | 52 38 148 | 55 12 205 | 26 45 255 | 40 23 291 | 25 30 323 |
| 264 | 53 25 020 | 56 06 081 | 53 09 149 | 54 46 206 | 25 47 255 | 39 27 291 | 24 54 323 |
| 265 | 53°46′019 | 57°05′081 | 53°39′150 | 54°19′207 | 24°49′255 | 38°31′290 | 24°18′323 |
| 266 | 54 05 018 | 58 04 081 | 54 08 152 | 53 51 209 | 23 52 255 | 37 35 290 | 23 42 322 |
| 267 | 54 22 017 | 59 03 081 | 54 36 153 | 53 22 210 | 22 54 256 | 36 39 290 | 23 05 322 |
| 268 | 54 39 015 | 60 02 081 | 55 03 154 | 52 52 211 | 21 56 256 | 35 43 290 | 22 28 322 |
| 269 | 54 54 014 | 61 01 081 | 55 28 156 | 52 21 212 | 20 58 256 | 34 47 290 | 21 51 322 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | VEGA | ✦DENEB | FOMALHAUT | ✦Peacock | Shaula | ANTARES | ✦ARCTURUS |
| 270 | 55°08′013 | 36°27′035 | 10°43′121 | 21°26′159 | 47°29′187 | 51°48′213 | 33°50′290 |
| 271 | 55 21 012 | 37 01 034 | 11 34 122 | 21 47 160 | 47 21 189 | 51 15 215 | 32 54 290 |
| 272 | 55 32 010 | 37 34 034 | 12 25 122 | 22 08 160 | 47 11 190 | 50 41 216 | 31 58 289 |
| 273 | 55 42 009 | 38 07 033 | 13 16 122 | 22 28 161 | 47 00 191 | 50 05 217 | 31 01 289 |
| 274 | 55 51 008 | 38 39 032 | 14 07 122 | 22 47 161 | 46 49 192 | 49 29 218 | 30 05 289 |
| 275 | 55°58′006 | 39°11′032 | 14°57′122 | 23°06′162 | 46°36′193 | 48°52′219 | 29°08′289 |
| 276 | 56 03 005 | 39 42 031 | 15 48 123 | 23 25 162 | 46 21 194 | 48 15 220 | 28 12 289 |
| 277 | 56 08 003 | 40 13 031 | 16 38 123 | 23 43 163 | 46 06 195 | 47 36 221 | 27 15 289 |
| 278 | 56 10 002 | 40 43 030 | 17 28 123 | 24 00 163 | 45 50 196 | 46 57 221 | 26 19 289 |
| 279 | 56 12 001 | 41 12 029 | 18 18 123 | 24 18 164 | 45 33 197 | 46 17 222 | 25 22 289 |
| 280 | 56°12′359 | 41°41′029 | 19°08′124 | 24°34′164 | 45°14′198 | 45°36′223 | 24°26′289 |
| 281 | 56 10 358 | 42 09 028 | 19 58 124 | 24 50 165 | 44 55 200 | 44 55 224 | 23 29 289 |
| 282 | 56 07 356 | 42 37 027 | 20 47 124 | 25 06 165 | 44 34 201 | 44 13 225 | 22 32 289 |
| 283 | 56 02 355 | 43 04 026 | 21 37 125 | 25 20 166 | 44 13 202 | 43 31 226 | 21 36 289 |
| 284 | 55 56 354 | 43 30 026 | 22 26 125 | 25 35 166 | 43 50 203 | 42 48 226 | 20 39 289 |
| | DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | ✦VEGA |
| 285 | 43°56′025 | 13°28′061 | 23°15′125 | 25°49′167 | 42°04′227 | 67°54′291 | 55°49′352 |
| 286 | 44 20 024 | 14 20 061 | 24 03 125 | 26 02 167 | 41 20 228 | 66 58 291 | 55 40 351 |
| 287 | 44 44 023 | 15 13 061 | 24 52 126 | 26 15 168 | 40 36 228 | 66 02 290 | 55 30 350 |
| 288 | 45 08 022 | 16 05 061 | 25 40 126 | 26 27 169 | 39 51 229 | 65 06 289 | 55 18 348 |
| 289 | 45 30 022 | 16 57 061 | 26 28 127 | 26 38 169 | 39 06 230 | 64 09 289 | 55 06 347 |
| 290 | 45°52′021 | 17°50′061 | 27°16′127 | 26°49′170 | 38°20′230 | 63°12′288 | 54°51′346 |
| 291 | 46 12 020 | 18 42 061 | 28 04 127 | 27 00 170 | 37 34 231 | 62 16 288 | 54 36 344 |
| 292 | 46 32 019 | 19 34 061 | 28 51 128 | 27 09 171 | 36 47 231 | 61 18 287 | 54 19 343 |
| 293 | 46 51 018 | 20 26 061 | 29 38 128 | 27 18 172 | 36 00 232 | 60 21 287 | 54 01 342 |
| 294 | 47 09 017 | 21 18 061 | 30 25 129 | 27 27 172 | 35 13 232 | 59 24 286 | 53 42 341 |
| 295 | 47°26′016 | 22°10′060 | 31°12′129 | 27°35′173 | 34°26′233 | 58°27′286 | 53°21′339 |
| 296 | 47 42 015 | 23 02 060 | 31 58 130 | 27 42 173 | 33 38 233 | 57 29 286 | 53 00 338 |
| 297 | 47 58 014 | 23 54 060 | 32 44 130 | 27 49 174 | 32 50 234 | 56 31 285 | 52 37 337 |
| 298 | 48 12 013 | 24 46 060 | 33 29 131 | 27 55 175 | 32 01 234 | 55 34 285 | 52 13 336 |
| 299 | 48 25 012 | 25 38 060 | 34 15 131 | 28 00 175 | 31 12 235 | 54 36 285 | 51 49 335 |
| | ✦DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | VEGA |
| 300 | 48°37′011 | 26°29′060 | 34°59′132 | 28°05′176 | 30°23′235 | 53°38′284 | 51°23′334 |
| 301 | 48 48 010 | 27 21 060 | 35 44 132 | 28 09 176 | 29 34 236 | 52 40 284 | 50 56 333 |
| 302 | 48 58 009 | 28 13 059 | 36 28 133 | 28 12 177 | 28 45 236 | 51 42 284 | 50 28 332 |
| 303 | 49 07 008 | 29 04 059 | 37 12 133 | 28 15 178 | 27 55 236 | 50 44 284 | 50 00 331 |
| 304 | 49 15 007 | 29 55 059 | 37 55 134 | 28 17 178 | 27 05 237 | 49 46 284 | 49 30 330 |
| 305 | 49°22′006 | 30°46′059 | 38°37′135 | 28°19′179 | 26°15′237 | 48°48′283 | 49°00′329 |
| 306 | 49 27 005 | 31 37 059 | 39 20 135 | 28 20 180 | 25 25 238 | 47 50 283 | 48 29 328 |
| 307 | 49 32 004 | 32 28 058 | 40 02 136 | 28 20 180 | 24 34 238 | 46 52 283 | 47 57 327 |
| 308 | 49 35 003 | 33 19 058 | 40 43 137 | 28 19 181 | 23 43 238 | 45 53 283 | 47 25 327 |
| 309 | 49 38 002 | 34 10 058 | 41 23 137 | 28 18 181 | 22 53 238 | 44 55 283 | 46 51 326 |
| 310 | 49°39′001 | 35°00′058 | 42°04′138 | 28°16′182 | 22°02′239 | 43°57′283 | 46°17′325 |
| 311 | 49 39 359 | 35 51 057 | 42 43 139 | 28 14 183 | 21 10 239 | 42 58 283 | 45 43 324 |
| 312 | 49 38 358 | 36 41 057 | 43 22 140 | 28 11 183 | 20 19 239 | 42 00 282 | 45 08 323 |
| 313 | 49 35 357 | 37 31 057 | 44 00 141 | 28 07 184 | 19 28 240 | 41 02 282 | 44 32 323 |
| 314 | 49 32 356 | 38 21 056 | 44 38 141 | 28 03 184 | 18 36 240 | 40 03 282 | 43 55 322 |
| | ✦Alpheratz | ✦FOMALHAUT | Peacock | Nunki | ✦Rasalhague | VEGA | DENEB |
| 315 | 39°10′056 | 45°15′142 | 27°58′185 | 46°44′222 | 39°05′282 | 43°18′321 | 49°28′355 |
| 316 | 40 00 056 | 45 51 143 | 27 52 186 | 46 03 223 | 38 06 282 | 42 41 321 | 49 22 354 |
| 317 | 40 49 055 | 46 27 144 | 27 46 186 | 45 22 224 | 37 08 282 | 42 03 320 | 49 15 353 |
| 318 | 41 38 055 | 47 01 145 | 27 39 187 | 44 40 225 | 36 09 282 | 41 24 320 | 49 07 352 |
| 319 | 42 27 054 | 47 35 146 | 27 32 188 | 43 58 225 | 35 11 282 | 40 45 319 | 48 59 351 |
| 320 | 43°15′054 | 48°08′147 | 27°24′188 | 43°15′226 | 34°12′282 | 40°06′318 | 48°49′350 |
| 321 | 44 03 053 | 48 40 148 | 27 15 189 | 42 32 227 | 33 14 282 | 39 26 318 | 48 38 349 |
| 322 | 44 51 053 | 49 12 149 | 27 05 189 | 41 48 228 | 32 15 282 | 38 46 317 | 48 26 348 |
| 323 | 45 38 052 | 49 42 150 | 26 55 190 | 41 04 228 | 31 17 282 | 38 05 317 | 48 12 347 |
| 324 | 46 26 052 | 50 11 151 | 26 45 190 | 40 19 229 | 30 18 282 | 37 24 316 | 47 58 346 |
| 325 | 47°12′051 | 50°39′152 | 26°34′191 | 39°33′230 | 29°20′282 | 36°43′316 | 47°43′345 |
| 326 | 47 59 051 | 51 06 154 | 26 22 192 | 38 48 230 | 28 21 282 | 36 01 316 | 47 27 344 |
| 327 | 48 45 050 | 51 32 155 | 26 10 192 | 38 02 231 | 27 23 282 | 35 19 315 | 47 10 343 |
| 328 | 49 30 049 | 51 57 156 | 25 57 193 | 37 15 231 | 26 24 282 | 34 37 315 | 46 52 342 |
| 329 | 50 15 049 | 52 21 157 | 25 43 193 | 36 28 232 | 25 25 282 | 33 54 314 | 46 33 341 |
| | ✦Alpheratz | Diphda | ✦FOMALHAUT | Peacock | ✦ALTAIR | VEGA | DENEB |
| 330 | 51°00′048 | 43°25′120 | 52°43′159 | 25°29′194 | 57°57′279 | 33°11′314 | 46°13′340 |
| 331 | 51 44 047 | 44 16 121 | 53 04 160 | 25 15 194 | 56 58 279 | 32 28 314 | 45 53 339 |
| 332 | 52 28 046 | 45 07 122 | 53 24 161 | 24 59 195 | 55 58 279 | 31 45 313 | 45 31 338 |
| 333 | 53 11 046 | 45 58 122 | 53 42 163 | 24 44 195 | 54 59 278 | 31 01 313 | 45 09 338 |
| 334 | 53 53 045 | 46 48 123 | 53 59 164 | 24 27 196 | 54 00 278 | 30 17 313 | 44 46 337 |
| 335 | 54°35′044 | 47°38′124 | 54°15′165 | 24°11′197 | 53°01′278 | 29°33′312 | 44°22′336 |
| 336 | 55 16 043 | 48 28 124 | 54 29 167 | 23 53 197 | 52 02 278 | 28 49 312 | 43 57 335 |
| 337 | 55 56 042 | 49 17 125 | 54 42 168 | 23 36 198 | 51 03 278 | 28 04 312 | 43 32 334 |
| 338 | 56 35 041 | 50 06 126 | 54 53 170 | 23 17 198 | 50 04 278 | 27 20 312 | 43 05 334 |
| 339 | 57 14 040 | 50 54 127 | 55 03 171 | 22 59 199 | 49 04 278 | 26 35 311 | 42 38 333 |
| 340 | 57°52′039 | 51°41′127 | 55°11′173 | 22°39′199 | 48°05′278 | 25°50′311 | 42°11′332 |
| 341 | 58 29 037 | 52 29 128 | 55 18 174 | 22 20 200 | 47 06 278 | 25 05 311 | 41 43 331 |
| 342 | 59 04 036 | 53 15 129 | 55 23 176 | 21 59 200 | 46 07 278 | 24 19 311 | 41 14 331 |
| 343 | 59 39 035 | 54 01 130 | 55 27 177 | 21 39 200 | 45 07 278 | 23 34 310 | 40 44 330 |
| 344 | 60 13 034 | 54 47 131 | 55 29 179 | 21 18 201 | 44 08 278 | 22 48 310 | 40 14 329 |
| | Alpheratz | ✦Hamal | Acamar | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 345 | 60°45′032 | 41°03′063 | 19°05′136 | 20°04′158 | 55°29′180 | 43°09′278 | 39°44′329 |
| 346 | 61 17 031 | 41 56 063 | 19 46 136 | 20 26 159 | 55 28 182 | 42 10 278 | 39 12 328 |
| 347 | 61 46 029 | 42 49 062 | 20 28 136 | 20 48 159 | 55 25 184 | 41 10 277 | 38 41 328 |
| 348 | 62 15 028 | 43 42 062 | 21 09 137 | 21 09 160 | 55 20 185 | 40 11 277 | 38 09 327 |
| 349 | 62 42 026 | 44 35 062 | 21 49 137 | 21 29 160 | 55 14 187 | 39 12 277 | 37 36 327 |
| 350 | 63°08′024 | 45°27′061 | 22°30′138 | 21°49′161 | 55°06′188 | 38°13′277 | 37°03′326 |
| 351 | 63 31 023 | 46 20 061 | 23 10 138 | 22 09 161 | 54 57 190 | 37 13 277 | 36 29 325 |
| 352 | 63 54 021 | 47 12 060 | 23 50 138 | 22 28 162 | 54 47 191 | 36 14 277 | 35 55 325 |
| 353 | 64 14 019 | 48 03 060 | 24 30 139 | 22 47 162 | 54 34 193 | 35 15 277 | 35 20 324 |
| 354 | 64 33 017 | 48 55 059 | 25 09 139 | 23 05 163 | 54 21 194 | 34 16 277 | 34 45 324 |
| 355 | 64°49′015 | 49°46′059 | 25°48′140 | 23°23′163 | 54°05′195 | 33°16′277 | 34°10′323 |
| 356 | 65 04 013 | 50 37 058 | 26 26 140 | 23 40 164 | 53 49 197 | 32 17 277 | 33 34 323 |
| 357 | 65 17 011 | 51 28 058 | 27 04 141 | 23 56 164 | 53 31 198 | 31 18 277 | 32 58 323 |
| 358 | 65 27 009 | 52 18 057 | 27 42 141 | 24 13 165 | 53 11 200 | 30 18 277 | 32 21 322 |
| 359 | 65 36 007 | 53 08 056 | 28 19 142 | 24 28 165 | 52 51 201 | 29 19 277 | 31 45 322 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Alpheratz | | ✦Mirfak | | ALDEBARAN | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 64°42′ | 005 | 26°59′ | 034 | 21°00′ | 074 | 25°42′ | 165 | 53°24′ | 203 | 28°12′ | 278 | 30°21′ | 322 |
| 1 | 64 46 | 003 | 27 33 | 034 | 21 58 | 074 | 25 56 | 166 | 53 01 | 204 | 27 13 | 278 | 29 43 | 321 |
| 2 | 64 48 | 001 | 28 06 | 034 | 22 55 | 074 | 26 10 | 167 | 52 36 | 205 | 26 13 | 278 | 29 06 | 321 |
| 3 | 64 48 | 359 | 28 39 | 033 | 23 53 | 074 | 26 24 | 167 | 52 10 | 206 | 25 14 | 278 | 28 28 | 321 |
| 4 | 64 45 | 357 | 29 12 | 033 | 24 50 | 074 | 26 37 | 168 | 51 42 | 208 | 24 15 | 278 | 27 50 | 320 |
| 5 | 64°41′ | 355 | 29°44′ | 032 | 25°48′ | 074 | 26°50′ | 168 | 51°14′ | 209 | 23°15′ | 278 | 27°12′ | 320 |
| 6 | 64 34 | 353 | 30 16 | 032 | 26 45 | 073 | 27 02 | 169 | 50 45 | 210 | 22 16 | 278 | 26 33 | 320 |
| 7 | 64 25 | 351 | 30 48 | 032 | 27 42 | 073 | 27 13 | 169 | 50 14 | 211 | 21 17 | 278 | 25 54 | 319 |
| 8 | 64 14 | 349 | 31 19 | 031 | 28 40 | 073 | 27 24 | 170 | 49 43 | 212 | 20 18 | 278 | 25 15 | 319 |
| 9 | 64 01 | 347 | 31 50 | 031 | 29 37 | 073 | 27 34 | 171 | 49 10 | 213 | 19 18 | 278 | 24 36 | 319 |
| 10 | 63°47′ | 345 | 32°20′ | 030 | 30°34′ | 073 | 27°43′ | 171 | 48°37′ | 214 | 18°19′ | 278 | 23°56′ | 319 |
| 11 | 63 30 | 343 | 32 50 | 030 | 31 32 | 073 | 27 52 | 172 | 48 03 | 215 | 17 20 | 278 | 23 16 | 318 |
| 12 | 63 11 | 341 | 33 19 | 029 | 32 29 | 073 | 28 01 | 172 | 47 28 | 216 | 16 21 | 278 | 22 36 | 318 |
| 13 | 62 51 | 339 | 33 48 | 029 | 33 26 | 073 | 28 08 | 173 | 46 52 | 217 | 15 21 | 278 | 21 56 | 318 |
| 14 | 62 29 | 338 | 34 17 | 028 | 34 23 | 073 | 28 16 | 173 | 46 16 | 218 | 14 22 | 278 | 21 16 | 318 |
| | CAPELLA | | ALDEBARAN | | ✦RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦Alpheratz | |
| 15 | 20°22′ | 042 | 35°20′ | 073 | 25°09′ | 101 | 28°22′ | 174 | 45°39′ | 219 | 41°20′ | 280 | 62°06′ | 336 |
| 16 | 21 02 | 042 | 36 17 | 072 | 26 07 | 101 | 28 28 | 175 | 45 01 | 220 | 40 21 | 280 | 61 40 | 334 |
| 17 | 21 42 | 042 | 37 14 | 072 | 27 06 | 101 | 28 33 | 175 | 44 22 | 221 | 39 22 | 280 | 61 14 | 333 |
| 18 | 22 21 | 041 | 38 11 | 072 | 28 05 | 101 | 28 38 | 176 | 43 43 | 221 | 38 23 | 280 | 60 45 | 331 |
| 19 | 23 01 | 041 | 39 08 | 072 | 29 04 | 102 | 28 42 | 177 | 43 03 | 222 | 37 24 | 279 | 60 16 | 330 |
| 20 | 23°40′ | 041 | 40°05′ | 072 | 30°02′ | 102 | 28°45′ | 177 | 42°22′ | 223 | 36°25′ | 279 | 59°45′ | 328 |
| 21 | 24 19 | 041 | 41 02 | 071 | 31 01 | 102 | 28 48 | 178 | 41 41 | 224 | 35 26 | 279 | 59 13 | 327 |
| 22 | 24 58 | 040 | 41 59 | 071 | 31 59 | 102 | 28 50 | 178 | 41 00 | 224 | 34 27 | 279 | 58 40 | 326 |
| 23 | 25 36 | 040 | 42 55 | 071 | 32 58 | 102 | 28 51 | 179 | 40 18 | 225 | 33 27 | 279 | 58 06 | 324 |
| 24 | 26 15 | 040 | 43 52 | 071 | 33 56 | 103 | 28 52 | 180 | 39 35 | 226 | 32 28 | 279 | 57 30 | 323 |
| 25 | 26°53′ | 039 | 44°48′ | 071 | 34°54′ | 103 | 28°52′ | 180 | 38°52′ | 226 | 31°29′ | 279 | 56°54′ | 322 |
| 26 | 27 31 | 039 | 45 45 | 070 | 35 53 | 103 | 28 51 | 181 | 38 09 | 227 | 30 30 | 279 | 56 17 | 321 |
| 27 | 28 08 | 039 | 46 41 | 070 | 36 51 | 103 | 28 50 | 181 | 37 25 | 228 | 29 31 | 279 | 55 38 | 320 |
| 28 | 28 45 | 038 | 47 37 | 070 | 37 49 | 104 | 28 48 | 182 | 36 40 | 228 | 28 32 | 279 | 54 59 | 319 |
| 29 | 29 22 | 038 | 48 33 | 069 | 38 47 | 104 | 28 46 | 183 | 35 56 | 229 | 27 33 | 279 | 54 20 | 318 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 40°38′ | 018 | 29°59′ | 038 | 49°29′ | 069 | 39°46′ | 104 | 28°42′ | 183 | 35°10′ | 229 | 53°39′ | 317 |
| 31 | 40 56 | 017 | 30 35 | 037 | 50 25 | 069 | 40 44 | 104 | 28 39 | 184 | 34 25 | 230 | 52 58 | 316 |
| 32 | 41 13 | 017 | 31 11 | 037 | 51 21 | 068 | 41 41 | 105 | 28 34 | 185 | 33 39 | 230 | 52 16 | 315 |
| 33 | 41 30 | 016 | 31 47 | 036 | 52 16 | 068 | 42 39 | 105 | 28 29 | 185 | 32 53 | 231 | 51 33 | 314 |
| 34 | 41 46 | 015 | 32 22 | 036 | 53 12 | 067 | 43 37 | 105 | 28 23 | 186 | 32 06 | 231 | 50 50 | 314 |
| 35 | 42°01′ | 014 | 32°57′ | 035 | 54°07′ | 067 | 44°35′ | 106 | 28°17′ | 186 | 31°20′ | 232 | 50°06′ | 313 |
| 36 | 42 15 | 013 | 33 32 | 035 | 55 02 | 067 | 45 32 | 106 | 28 10 | 187 | 30 33 | 232 | 49 22 | 312 |
| 37 | 42 29 | 013 | 34 06 | 035 | 55 57 | 066 | 46 30 | 106 | 28 02 | 188 | 29 45 | 232 | 48 38 | 311 |
| 38 | 42 41 | 012 | 34 40 | 034 | 56 51 | 065 | 47 27 | 107 | 27 54 | 188 | 28 58 | 233 | 47 52 | 311 |
| 39 | 42 53 | 011 | 35 13 | 034 | 57 45 | 065 | 48 25 | 107 | 27 45 | 189 | 28 10 | 233 | 47 07 | 310 |
| 40 | 43°04′ | 010 | 35°46′ | 033 | 58°40′ | 064 | 49°22′ | 107 | 27°36′ | 189 | 27°22′ | 234 | 46°21′ | 309 |
| 41 | 43 14 | 009 | 36 18 | 032 | 59 33 | 064 | 50 19 | 108 | 27 26 | 190 | 26 33 | 234 | 45 34 | 309 |
| 42 | 43 23 | 008 | 36 50 | 032 | 60 27 | 063 | 51 16 | 108 | 27 15 | 191 | 25 45 | 234 | 44 48 | 308 |
| 43 | 43 31 | 007 | 37 22 | 031 | 61 20 | 062 | 52 12 | 109 | 27 04 | 191 | 24 56 | 235 | 44 00 | 308 |
| 44 | 43 39 | 007 | 37 52 | 031 | 62 13 | 061 | 53 09 | 109 | 26 52 | 192 | 24 07 | 235 | 43 13 | 307 |
| | CAPELLA | | ✦PROCYON | | SIRIUS | | CANOPUS | | ✦ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 38°23′ | 030 | 20°10′ | 086 | 30°28′ | 112 | 18°55′ | 150 | 26°40′ | 192 | 50°05′ | 236 | 42°25′ | 307 |
| 46 | 38 53 | 030 | 21 10 | 086 | 31 24 | 112 | 19 24 | 150 | 26 27 | 193 | 49 15 | 236 | 41 37 | 306 |
| 47 | 39 22 | 029 | 22 09 | 086 | 32 19 | 113 | 19 54 | 151 | 26 14 | 193 | 48 25 | 237 | 40 49 | 306 |
| 48 | 39 50 | 028 | 23 09 | 086 | 33 14 | 113 | 20 23 | 151 | 25 59 | 194 | 47 35 | 238 | 40 00 | 305 |
| 49 | 40 18 | 028 | 24 09 | 086 | 34 09 | 113 | 20 51 | 152 | 25 45 | 194 | 46 44 | 238 | 39 11 | 305 |
| 50 | 40°46′ | 027 | 25°09′ | 086 | 35°04′ | 114 | 21°19′ | 152 | 25°30′ | 195 | 45°53′ | 239 | 38°22′ | 305 |
| 51 | 41 13 | 026 | 26 08 | 086 | 35 59 | 114 | 21 47 | 152 | 25 14 | 195 | 45 01 | 240 | 37 33 | 304 |
| 52 | 41 39 | 025 | 27 08 | 086 | 36 53 | 114 | 22 15 | 153 | 24 58 | 196 | 44 10 | 240 | 36 43 | 304 |
| 53 | 42 04 | 025 | 28 08 | 086 | 37 48 | 115 | 22 42 | 153 | 24 41 | 196 | 43 17 | 241 | 35 53 | 304 |
| 54 | 42 29 | 024 | 29 07 | 086 | 38 42 | 115 | 23 08 | 154 | 24 24 | 197 | 42 25 | 241 | 35 03 | 303 |
| 55 | 42°53′ | 023 | 30°07′ | 086 | 39°36′ | 116 | 23°35′ | 154 | 24°06′ | 198 | 41°33′ | 242 | 34°13′ | 303 |
| 56 | 43 16 | 022 | 31 07 | 086 | 40 30 | 116 | 24 00 | 155 | 23 48 | 198 | 40 40 | 242 | 33 23 | 303 |
| 57 | 43 38 | 022 | 32 07 | 086 | 41 24 | 117 | 24 26 | 155 | 23 29 | 198 | 39 47 | 243 | 32 32 | 302 |
| 58 | 44 00 | 021 | 33 06 | 086 | 42 17 | 117 | 24 51 | 156 | 23 10 | 199 | 38 53 | 243 | 31 42 | 302 |
| 59 | 44 21 | 020 | 34 06 | 086 | 43 10 | 117 | 25 15 | 156 | 22 50 | 199 | 38 00 | 244 | 30 51 | 302 |
| | ✦CAPELLA | | PROCYON | | ✦SIRIUS | | CANOPUS | | ACHERNAR | | ✦Diphda | | Alpheratz | |
| 60 | 44°40′ | 019 | 35°06′ | 086 | 44°03′ | 118 | 25°39′ | 157 | 22°30′ | 200 | 37°06′ | 244 | 30°00′ | 302 |
| 61 | 45 00 | 018 | 36 06 | 087 | 44 56 | 119 | 26 02 | 157 | 22 09 | 200 | 36 12 | 244 | 29 09 | 301 |
| 62 | 45 18 | 017 | 37 05 | 087 | 45 48 | 119 | 26 25 | 158 | 21 48 | 201 | 35 18 | 245 | 28 18 | 301 |
| 63 | 45 35 | 016 | 38 05 | 087 | 46 40 | 120 | 26 48 | 158 | 21 27 | 201 | 34 24 | 245 | 27 27 | 301 |
| 64 | 45 52 | 015 | 39 05 | 087 | 47 32 | 120 | 27 10 | 159 | 21 05 | 202 | 33 30 | 245 | 26 35 | 301 |
| 65 | 46°07′ | 015 | 40°05′ | 087 | 48°24′ | 121 | 27°31′ | 159 | 20°43′ | 202 | 32°35′ | 246 | 25°44′ | 301 |
| 66 | 46 22 | 014 | 41 04 | 087 | 49 15 | 122 | 27 52 | 160 | 20 20 | 202 | 31 40 | 246 | 24 52 | 300 |
| 67 | 46 35 | 013 | 42 04 | 087 | 50 06 | 122 | 28 12 | 160 | 19 57 | 203 | 30 46 | 246 | 24 01 | 300 |
| 68 | 46 48 | 012 | 43 04 | 087 | 50 56 | 123 | 28 32 | 161 | 19 34 | 203 | 29 51 | 247 | 23 09 | 300 |
| 69 | 47 00 | 011 | 44 04 | 087 | 51 46 | 124 | 28 51 | 162 | 19 10 | 204 | 28 56 | 247 | 22 17 | 300 |
| 70 | 47°10′ | 010 | 45°03′ | 087 | 52°36′ | 125 | 29°10′ | 162 | 18°45′ | 204 | 28°00′ | 247 | 21°25′ | 300 |
| 71 | 47 20 | 009 | 46 03 | 087 | 53 25 | 125 | 29 28 | 163 | 18 21 | 204 | 27 05 | 248 | 20 33 | 300 |
| 72 | 47 28 | 008 | 47 03 | 087 | 54 13 | 126 | 29 45 | 163 | 17 56 | 205 | 26 10 | 248 | 19 41 | 300 |
| 73 | 47 36 | 007 | 48 03 | 087 | 55 01 | 127 | 30 02 | 164 | 17 31 | 205 | 25 14 | 248 | 18 49 | 300 |
| 74 | 47 43 | 006 | 49 02 | 087 | 55 49 | 128 | 30 18 | 165 | 17 05 | 206 | 24 19 | 248 | 17 57 | 299 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 47°48′ | 005 | 43°44′ | 054 | 50°02′ | 087 | 56°36′ | 129 | 30°33′ | 165 | 37°48′ | 209 | 44°13′ | 299 |
| 76 | 47 52 | 004 | 44 32 | 054 | 51 02 | 087 | 57 22 | 130 | 30 48 | 166 | 37 18 | 210 | 43 21 | 299 |
| 77 | 47 56 | 003 | 45 20 | 053 | 52 02 | 087 | 58 07 | 131 | 31 02 | 167 | 36 48 | 211 | 42 29 | 299 |
| 78 | 47 58 | 002 | 46 08 | 053 | 53 01 | 087 | 58 52 | 132 | 31 16 | 167 | 36 18 | 211 | 41 36 | 298 |
| 79 | 47 59 | 001 | 46 55 | 052 | 54 01 | 087 | 59 35 | 134 | 31 29 | 168 | 35 46 | 212 | 40 43 | 298 |
| 80 | 47°59′ | 000 | 47°43′ | 052 | 55°01′ | 087 | 60°18′ | 135 | 31°41′ | 169 | 35°14′ | 213 | 39°50′ | 298 |
| 81 | 47 58 | 358 | 48 29 | 051 | 56 01 | 087 | 61 00 | 136 | 31 52 | 169 | 34 42 | 213 | 38 57 | 297 |
| 82 | 47 56 | 357 | 49 15 | 050 | 57 00 | 087 | 61 41 | 138 | 32 03 | 170 | 34 08 | 214 | 38 04 | 297 |
| 83 | 47 53 | 356 | 50 01 | 050 | 58 00 | 087 | 62 21 | 139 | 32 13 | 171 | 33 35 | 215 | 37 10 | 297 |
| 84 | 47 48 | 355 | 50 47 | 049 | 59 00 | 087 | 62 59 | 141 | 32 23 | 171 | 33 01 | 215 | 36 17 | 296 |
| 85 | 47°43′ | 354 | 51°31′ | 048 | 60°00′ | 087 | 63°37′ | 142 | 32°31′ | 172 | 32°26′ | 216 | 35°23′ | 296 |
| 86 | 47 37 | 353 | 52 16 | 047 | 60 59 | 087 | 64 13 | 144 | 32 39 | 173 | 31 51 | 216 | 34 30 | 296 |
| 87 | 47 29 | 352 | 52 59 | 046 | 61 59 | 087 | 64 47 | 146 | 32 46 | 173 | 31 15 | 217 | 33 36 | 296 |
| 88 | 47 21 | 351 | 53 42 | 046 | 62 59 | 086 | 65 20 | 148 | 32 53 | 174 | 30 39 | 217 | 32 42 | 296 |
| 89 | 47 11 | 350 | 54 25 | 045 | 63 59 | 086 | 65 51 | 150 | 32 59 | 175 | 30 02 | 218 | 31 48 | 295 |

LAT 4°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 55°07′ | 044 | 27°52′ | 079 | 26°20′ | 144 | 33°04′ | 176 | 29°25′ | 218 | 66°05′ | 303 | 47°00′ | 349 |
| 91 | 55 48 | 043 | 28 50 | 079 | 26 56 | 144 | 33 08 | 176 | 28 48 | 219 | 65 15 | 302 | 46 49 | 348 |
| 92 | 56 28 | 042 | 29 49 | 079 | 27 31 | 145 | 33 11 | 177 | 28 10 | 219 | 64 24 | 301 | 46 36 | 347 |
| 93 | 57 07 | 041 | 30 48 | 079 | 28 05 | 145 | 33 14 | 178 | 27 31 | 220 | 63 32 | 300 | 46 23 | 346 |
| 94 | 57 46 | 040 | 31 46 | 079 | 28 39 | 146 | 33 16 | 178 | 26 53 | 220 | 62 40 | 299 | 46 08 | 346 |
| 95 | 58°24′ | 038 | 32°45′ | 078 | 29°13′ | 146 | 33°17′ | 179 | 26°14′ | 221 | 61°48′ | 298 | 45°53′ | 345 |
| 96 | 59 00 | 037 | 33 44 | 078 | 29 46 | 147 | 33 18 | 180 | 25 34 | 221 | 60 55 | 297 | 45 36 | 344 |
| 97 | 59 36 | 036 | 34 42 | 078 | 30 19 | 147 | 33 17 | 181 | 24 55 | 222 | 60 01 | 297 | 45 19 | 343 |
| 98 | 60 11 | 035 | 35 41 | 078 | 30 51 | 148 | 33 16 | 181 | 24 15 | 222 | 59 08 | 296 | 45 01 | 342 |
| 99 | 60 44 | 033 | 36 39 | 078 | 31 23 | 148 | 33 14 | 182 | 23 35 | 223 | 58 14 | 295 | 44 42 | 341 |
| 100 | 61°16′ | 032 | 37°38′ | 078 | 31°54′ | 149 | 33°12′ | 183 | 22°54′ | 223 | 57°20′ | 295 | 44°22′ | 340 |
| 101 | 61 47 | 030 | 38 37 | 078 | 32 24 | 150 | 33 08 | 184 | 22 13 | 223 | 56 25 | 294 | 44 01 | 339 |
| 102 | 62 16 | 029 | 39 35 | 078 | 32 54 | 150 | 33 04 | 184 | 21 32 | 224 | 55 31 | 294 | 43 40 | 338 |
| 103 | 62 44 | 027 | 40 34 | 078 | 33 24 | 151 | 33 00 | 185 | 20 50 | 224 | 54 36 | 293 | 43 17 | 338 |
| 104 | 63 11 | 025 | 41 32 | 078 | 33 53 | 151 | 32 54 | 186 | 20 09 | 224 | 53 41 | 293 | 42 54 | 337 |
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ✦ALDEBARAN | | CAPELLA | |
| 105 | 63°35′ | 024 | 42°31′ | 078 | 34°21′ | 152 | 32°48′ | 186 | 61°14′ | 245 | 52°45′ | 292 | 42°30′ | 336 |
| 106 | 63 58 | 022 | 43 29 | 077 | 34 49 | 153 | 32 41 | 187 | 60 20 | 246 | 51 50 | 292 | 42 06 | 335 |
| 107 | 64 20 | 020 | 44 27 | 077 | 35 16 | 153 | 32 33 | 188 | 59 25 | 247 | 50 54 | 292 | 41 40 | 335 |
| 108 | 64 39 | 018 | 45 26 | 077 | 35 42 | 154 | 32 24 | 189 | 58 30 | 247 | 49 59 | 291 | 41 14 | 334 |
| 109 | 64 57 | 016 | 46 24 | 077 | 36 08 | 155 | 32 15 | 189 | 57 34 | 248 | 49 03 | 291 | 40 48 | 333 |
| 110 | 65°12′ | 014 | 47°22′ | 077 | 36°33′ | 156 | 32°05′ | 190 | 56°39′ | 249 | 48°07′ | 290 | 40°20′ | 332 |
| 111 | 65 26 | 012 | 48 21 | 077 | 36 57 | 156 | 31 55 | 191 | 55 43 | 249 | 47 10 | 290 | 39 52 | 332 |
| 112 | 65 37 | 010 | 49 19 | 076 | 37 21 | 157 | 31 43 | 191 | 54 47 | 250 | 46 14 | 290 | 39 24 | 331 |
| 113 | 65 47 | 008 | 50 17 | 076 | 37 44 | 158 | 31 31 | 192 | 53 51 | 250 | 45 18 | 290 | 38 55 | 331 |
| 114 | 65 54 | 006 | 51 15 | 076 | 38 06 | 159 | 31 19 | 193 | 52 54 | 251 | 44 21 | 289 | 38 25 | 330 |
| 115 | 65°58′ | 004 | 52°13′ | 076 | 38°27′ | 160 | 31°05′ | 193 | 51°58′ | 251 | 43°25′ | 289 | 37°55′ | 329 |
| 116 | 66 01 | 001 | 53 11 | 075 | 38 48 | 160 | 30 51 | 194 | 51 01 | 252 | 42 28 | 289 | 37 24 | 329 |
| 117 | 66 01 | 359 | 54 09 | 075 | 39 07 | 161 | 30 36 | 195 | 50 04 | 252 | 41 32 | 289 | 36 53 | 328 |
| 118 | 65 59 | 357 | 55 07 | 075 | 39 26 | 162 | 30 21 | 195 | 49 07 | 253 | 40 35 | 288 | 36 21 | 328 |
| 119 | 65 55 | 355 | 56 05 | 075 | 39 44 | 163 | 30 05 | 196 | 48 10 | 253 | 39 38 | 288 | 35 48 | 327 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 120 | 22°54′ | 022 | 32°26′ | 075 | 40°02′ | 164 | 29°48′ | 196 | 62°21′ | 221 | 59°02′ | 278 | 35°16′ | 327 |
| 121 | 23 16 | 022 | 33 23 | 075 | 40 18 | 165 | 29 31 | 197 | 61 41 | 222 | 58 03 | 278 | 34 42 | 326 |
| 122 | 23 38 | 021 | 34 21 | 075 | 40 33 | 166 | 29 13 | 198 | 61 01 | 224 | 57 03 | 277 | 34 09 | 325 |
| 123 | 23 59 | 021 | 35 19 | 075 | 40 48 | 166 | 28 55 | 198 | 60 19 | 225 | 56 04 | 277 | 33 34 | 325 |
| 124 | 24 21 | 021 | 36 17 | 075 | 41 01 | 167 | 28 36 | 199 | 59 36 | 226 | 55 05 | 277 | 33 00 | 325 |
| 125 | 24°41′ | 020 | 37°15′ | 075 | 41°14′ | 168 | 28°16′ | 199 | 58°52′ | 228 | 54°05′ | 277 | 32°25′ | 324 |
| 126 | 25 02 | 020 | 38 13 | 075 | 41 26 | 169 | 27 56 | 200 | 58 07 | 229 | 53 06 | 277 | 31 50 | 324 |
| 127 | 25 22 | 019 | 39 10 | 075 | 41 36 | 170 | 27 35 | 201 | 57 22 | 230 | 52 06 | 277 | 31 14 | 323 |
| 128 | 25 42 | 019 | 40 08 | 074 | 41 46 | 171 | 27 14 | 201 | 56 36 | 231 | 51 07 | 277 | 30 38 | 323 |
| 129 | 26 01 | 019 | 41 06 | 074 | 41 55 | 172 | 26 52 | 202 | 55 49 | 232 | 50 08 | 277 | 30 02 | 322 |
| 130 | 26°20′ | 018 | 42°03′ | 074 | 42°03′ | 173 | 26°30′ | 202 | 55°02′ | 233 | 49°08′ | 277 | 29°25′ | 322 |
| 131 | 26 38 | 018 | 43 01 | 074 | 42 10 | 174 | 26 07 | 203 | 54 14 | 234 | 48 09 | 277 | 28 48 | 322 |
| 132 | 26 57 | 017 | 43 58 | 074 | 42 15 | 175 | 25 44 | 203 | 53 25 | 235 | 47 09 | 277 | 28 11 | 321 |
| 133 | 27 14 | 017 | 44 56 | 074 | 42 20 | 176 | 25 20 | 204 | 52 36 | 235 | 46 10 | 277 | 27 33 | 321 |
| 134 | 27 32 | 017 | 45 53 | 073 | 42 24 | 177 | 24 55 | 204 | 51 47 | 236 | 45 10 | 276 | 26 56 | 321 |
| | Dubhe | | ✦SPICA | | ACRUX | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 27°49′ | 016 | 22°04′ | 104 | 12°25′ | 159 | 24°31′ | 205 | 50°57′ | 237 | 44°11′ | 276 | 26°18′ | 320 |
| 136 | 28 05 | 016 | 23 02 | 104 | 12 47 | 159 | 24 05 | 205 | 50 06 | 238 | 43 11 | 276 | 25 39 | 320 |
| 137 | 28 21 | 015 | 24 00 | 104 | 13 08 | 159 | 23 40 | 206 | 49 15 | 238 | 42 12 | 276 | 25 01 | 320 |
| 138 | 28 37 | 015 | 24 58 | 104 | 13 29 | 160 | 23 14 | 206 | 48 24 | 239 | 41 12 | 276 | 24 22 | 319 |
| 139 | 28 52 | 014 | 25 56 | 105 | 13 50 | 160 | 22 47 | 207 | 47 33 | 240 | 40 13 | 276 | 23 43 | 319 |
| 140 | 29°06′ | 014 | 26°54′ | 105 | 14°10′ | 160 | 22°20′ | 207 | 46°41′ | 240 | 39°13′ | 276 | 23°04′ | 319 |
| 141 | 29 20 | 013 | 27 51 | 105 | 14 30 | 160 | 21 53 | 207 | 45 49 | 241 | 38 14 | 276 | 22 24 | 319 |
| 142 | 29 34 | 013 | 28 49 | 105 | 14 50 | 161 | 21 25 | 208 | 44 56 | 241 | 37 14 | 276 | 21 45 | 318 |
| 143 | 29 47 | 012 | 29 47 | 105 | 15 10 | 161 | 20 57 | 208 | 44 04 | 242 | 36 15 | 276 | 21 05 | 318 |
| 144 | 30 00 | 012 | 30 45 | 106 | 15 29 | 161 | 20 28 | 209 | 43 11 | 243 | 35 15 | 276 | 20 25 | 318 |
| 145 | 30°12′ | 011 | 31°42′ | 106 | 15°48′ | 162 | 19°59′ | 209 | 42°17′ | 243 | 34°16′ | 276 | 19°45′ | 318 |
| 146 | 30 24 | 011 | 32 40 | 106 | 16 07 | 162 | 19 30 | 209 | 41 24 | 243 | 33 16 | 276 | 19 05 | 318 |
| 147 | 30 35 | 010 | 33 37 | 106 | 16 25 | 162 | 19 00 | 210 | 40 30 | 244 | 32 17 | 276 | 18 24 | 317 |
| 148 | 30 45 | 010 | 34 35 | 107 | 16 43 | 163 | 18 30 | 210 | 39 36 | 244 | 31 17 | 276 | 17 44 | 317 |
| 149 | 30 55 | 009 | 35 32 | 107 | 17 00 | 163 | 18 00 | 211 | 38 42 | 245 | 30 18 | 276 | 17 03 | 317 |
| | ✦Dubhe | | ARCTURUS | | ✦SPICA | | ACRUX | | ✦SIRIUS | | PROCYON | | POLLUX | |
| 150 | 31°05′ | 009 | 25°43′ | 071 | 36°29′ | 107 | 17°17′ | 164 | 37°48′ | 245 | 55°11′ | 273 | 50°13′ | 311 |
| 151 | 31 14 | 008 | 26 40 | 071 | 37 26 | 107 | 17 34 | 164 | 36 54 | 246 | 54 11 | 273 | 49 27 | 310 |
| 152 | 31 23 | 008 | 27 36 | 071 | 38 23 | 108 | 17 51 | 164 | 35 59 | 246 | 53 11 | 273 | 48 41 | 309 |
| 153 | 31 30 | 007 | 28 33 | 070 | 39 20 | 108 | 18 07 | 165 | 35 04 | 246 | 52 11 | 273 | 47 55 | 309 |
| 154 | 31 38 | 007 | 29 29 | 070 | 40 17 | 108 | 18 22 | 165 | 34 09 | 247 | 51 12 | 273 | 47 08 | 308 |
| 155 | 31°45′ | 006 | 30°25′ | 070 | 41°14′ | 109 | 18°37′ | 165 | 33°14′ | 247 | 50°12′ | 273 | 46°20′ | 307 |
| 156 | 31 51 | 006 | 31 22 | 070 | 42 11 | 109 | 18 52 | 166 | 32 19 | 247 | 49 12 | 273 | 45 33 | 307 |
| 157 | 31 56 | 005 | 32 18 | 070 | 43 07 | 109 | 19 07 | 166 | 31 24 | 248 | 48 12 | 273 | 44 45 | 306 |
| 158 | 32 02 | 005 | 33 14 | 070 | 44 03 | 110 | 19 21 | 167 | 30 29 | 248 | 47 13 | 273 | 43 56 | 306 |
| 159 | 32 06 | 004 | 34 10 | 070 | 45 00 | 110 | 19 34 | 167 | 29 33 | 248 | 46 13 | 273 | 43 08 | 305 |
| 160 | 32°10′ | 003 | 35°06′ | 069 | 45°56′ | 111 | 19°48′ | 167 | 28°38′ | 248 | 45°13′ | 273 | 42°19′ | 305 |
| 161 | 32 13 | 003 | 36 02 | 069 | 46 52 | 111 | 20 00 | 168 | 27 42 | 249 | 44 13 | 273 | 41 29 | 304 |
| 162 | 32 16 | 002 | 36 58 | 069 | 47 47 | 112 | 20 13 | 168 | 26 46 | 249 | 43 14 | 273 | 40 40 | 304 |
| 163 | 32 18 | 002 | 37 54 | 069 | 48 43 | 112 | 20 25 | 169 | 25 50 | 249 | 42 14 | 273 | 39 50 | 304 |
| 164 | 32 20 | 001 | 38 50 | 069 | 49 38 | 113 | 20 36 | 169 | 24 54 | 249 | 41 14 | 273 | 39 00 | 303 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 32°21′ | 001 | 39°46′ | 068 | 50°33′ | 113 | 20°47′ | 170 | 36°17′ | 205 | 40°14′ | 273 | 38°10′ | 303 |
| 166 | 32 21 | 000 | 40 41 | 068 | 51 28 | 114 | 20 58 | 170 | 35 52 | 206 | 39 15 | 273 | 37 20 | 303 |
| 167 | 32 21 | 000 | 41 37 | 068 | 52 23 | 114 | 21 08 | 171 | 35 25 | 206 | 38 15 | 273 | 36 29 | 302 |
| 168 | 32 20 | 359 | 42 32 | 068 | 53 17 | 115 | 21 17 | 171 | 34 59 | 207 | 37 15 | 273 | 35 38 | 302 |
| 169 | 32 19 | 358 | 43 27 | 067 | 54 11 | 116 | 21 27 | 171 | 34 31 | 208 | 36 15 | 273 | 34 48 | 302 |
| 170 | 32°17′ | 358 | 44°23′ | 067 | 55°05′ | 116 | 21°35′ | 172 | 34°03′ | 208 | 35°16′ | 274 | 33°56′ | 301 |
| 171 | 32 15 | 357 | 45 18 | 067 | 55 59 | 117 | 21 43 | 172 | 33 34 | 209 | 34 16 | 274 | 33 05 | 301 |
| 172 | 32 12 | 357 | 46 13 | 066 | 56 52 | 118 | 21 51 | 173 | 33 05 | 210 | 33 16 | 274 | 32 14 | 301 |
| 173 | 32 08 | 356 | 47 07 | 066 | 57 45 | 119 | 21 58 | 173 | 32 35 | 210 | 32 16 | 274 | 31 22 | 301 |
| 174 | 32 04 | 356 | 48 02 | 066 | 58 37 | 119 | 22 05 | 174 | 32 05 | 211 | 31 17 | 274 | 30 31 | 300 |
| 175 | 31°59′ | 355 | 48°56′ | 065 | 59°29′ | 120 | 22°11′ | 174 | 31°34′ | 211 | 30°17′ | 274 | 29°39′ | 300 |
| 176 | 31 53 | 355 | 49 51 | 065 | 60 21 | 121 | 22 17 | 175 | 31 02 | 212 | 29 17 | 274 | 28 47 | 300 |
| 177 | 31 47 | 354 | 50 45 | 064 | 61 11 | 122 | 22 22 | 175 | 30 30 | 213 | 28 18 | 274 | 27 55 | 300 |
| 178 | 31 41 | 353 | 51 39 | 064 | 62 02 | 123 | 22 27 | 176 | 29 58 | 213 | 27 18 | 274 | 27 03 | 299 |
| 179 | 31 34 | 353 | 52 32 | 063 | 62 51 | 124 | 22 32 | 176 | 29 25 | 214 | 26 18 | 274 | 26 11 | 299 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | ANTARES | RIGIL KENT | ✦ACRUX | Suhail | ✦REGULUS | Dubhe |
| 180 | 53°26′063 | 17°58′120 | 18°01′161 | 22°35′177 | 28°51′214 | 61°32′288 | 31°26′352 |
| 181 | 54 19 062 | 18 50 120 | 18 20 161 | 22 39 177 | 28 17 215 | 60 35 287 | 31 18 352 |
| 182 | 55 12 062 | 19 42 120 | 18 40 161 | 22 41 178 | 27 43 215 | 59 38 287 | 31 09 351 |
| 183 | 56 04 061 | 20 34 120 | 18 58 162 | 22 44 178 | 27 08 216 | 58 41 286 | 31 00 351 |
| 184 | 56 56 060 | 21 25 120 | 19 17 162 | 22 45 179 | 26 33 216 | 57 43 286 | 30 50 350 |
| 185 | 57°48′060 | 22°17′121 | 19°35′163 | 22°47′179 | 25°58′217 | 56°45′286 | 30°40′350 |
| 186 | 58 40 059 | 23 08 121 | 19 52 163 | 22 47 180 | 25 22 217 | 55 48 285 | 30 29 349 |
| 187 | 59 31 058 | 23 59 121 | 20 10 164 | 22 48 180 | 24 45 218 | 54 50 285 | 30 17 349 |
| 188 | 60 22 057 | 24 50 122 | 20 26 164 | 22 47 181 | 24 09 218 | 53 52 285 | 30 06 348 |
| 189 | 61 12 056 | 25 41 122 | 20 43 164 | 22 46 181 | 23 32 218 | 52 54 284 | 29 53 348 |
| 190 | 62°01′055 | 26°32′122 | 20°59′165 | 22°45′182 | 22°54′219 | 51°56′284 | 29°40′347 |
| 191 | 62 50 054 | 27 22 123 | 21 14 165 | 22 43 182 | 22 16 219 | 50 58 284 | 29 27 347 |
| 192 | 63 39 053 | 28 13 123 | 21 29 166 | 22 41 182 | 21 38 220 | 50 00 284 | 29 13 346 |
| 193 | 64 26 052 | 29 03 123 | 21 44 166 | 22 38 183 | 21 00 220 | 49 02 284 | 28 58 346 |
| 194 | 65 13 051 | 29 53 124 | 21 58 167 | 22 35 183 | 20 22 220 | 48 04 283 | 28 44 345 |
| | ✦Alphecca | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 195 | 46°30′055 | 21°23′078 | 30°42′124 | 22°11′167 | 22°31′184 | 47°05′283 | 28°28′345 |
| 196 | 47 19 054 | 22 22 078 | 31 32 125 | 22 25 168 | 22 27 184 | 46 07 283 | 28 12 344 |
| 197 | 48 07 053 | 23 21 078 | 32 21 125 | 22 37 168 | 22 22 185 | 45 09 283 | 27 56 344 |
| 198 | 48 55 053 | 24 19 078 | 33 10 125 | 22 49 168 | 22 16 185 | 44 10 283 | 27 39 344 |
| 199 | 49 42 052 | 25 18 078 | 33 58 126 | 23 01 169 | 22 11 186 | 43 12 283 | 27 22 343 |
| 200 | 50°29′052 | 26°16′078 | 34°47′126 | 23°12′169 | 22°04′186 | 42°14′282 | 27°05′343 |
| 201 | 51 16 051 | 27 15 078 | 35 35 127 | 23 23 170 | 21 57 187 | 41 15 282 | 26 47 342 |
| 202 | 52 02 050 | 28 13 078 | 36 23 127 | 23 33 170 | 21 50 187 | 40 17 282 | 26 29 342 |
| 203 | 52 48 049 | 29 12 078 | 37 10 128 | 23 43 171 | 21 42 188 | 39 18 282 | 26 10 342 |
| 204 | 53 33 049 | 30 10 078 | 37 57 128 | 23 52 171 | 21 34 188 | 38 20 282 | 25 51 341 |
| 205 | 54°17′048 | 31°09′078 | 38°44′129 | 24°01′172 | 21°25′189 | 37°21′282 | 25°31′341 |
| 206 | 55 01 047 | 32 07 078 | 39 30 130 | 24 09 172 | 21 16 189 | 36 22 282 | 25 11 340 |
| 207 | 55 45 046 | 33 06 078 | 40 16 130 | 24 16 173 | 21 06 190 | 35 24 282 | 24 51 340 |
| 208 | 56 27 045 | 34 04 078 | 41 02 131 | 24 23 174 | 20 56 190 | 34 25 282 | 24 30 340 |
| 209 | 57 09 044 | 35 03 077 | 41 47 131 | 24 30 174 | 20 46 190 | 33 27 282 | 24 09 339 |
| | ✦VEGA | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 210 | 18°30′050 | 36°01′077 | 42°31′132 | 24°36′175 | 20°34′191 | 32°28′282 | 23°48′339 |
| 211 | 19 16 050 | 36 59 077 | 43 15 133 | 24 41 175 | 20 23 191 | 31 29 281 | 23 26 339 |
| 212 | 20 02 050 | 37 58 077 | 43 59 134 | 24 46 176 | 20 11 192 | 30 31 281 | 23 04 338 |
| 213 | 20 47 050 | 38 56 077 | 44 42 134 | 24 50 176 | 19 59 192 | 29 32 281 | 22 42 338 |
| 214 | 21 33 050 | 39 54 077 | 45 25 135 | 24 54 177 | 19 46 193 | 28 33 281 | 22 19 338 |
| 215 | 22°19′049 | 40°53′077 | 46°07′136 | 24°57′177 | 19°32′193 | 27°35′281 | 21°56′337 |
| 216 | 23 04 049 | 41 51 077 | 46 48 137 | 25 00 178 | 19 19 193 | 26 36 281 | 21 33 337 |
| 217 | 23 49 049 | 42 49 077 | 47 29 138 | 25 02 178 | 19 05 194 | 25 37 281 | 21 10 337 |
| 218 | 24 34 049 | 43 47 076 | 48 09 138 | 25 04 179 | 18 50 194 | 24 38 281 | 20 46 336 |
| 219 | 25 19 049 | 44 46 076 | 48 48 139 | 25 05 179 | 18 35 195 | 23 40 281 | 20 22 336 |
| 220 | 26°04′048 | 45°44′076 | 49°27′140 | 25°05′180 | 18°20′195 | 22°41′281 | 19°58′336 |
| 221 | 26 49 048 | 46 42 076 | 50 05 141 | 25 05 180 | 18 04 195 | 21 42 281 | 19 33 336 |
| 222 | 27 33 048 | 47 40 076 | 50 42 142 | 25 04 181 | 17 48 196 | 20 44 281 | 19 09 335 |
| 223 | 28 17 047 | 48 38 076 | 51 18 143 | 25 03 181 | 17 32 196 | 19 45 281 | 18 44 335 |
| 224 | 29 01 047 | 49 36 075 | 51 53 144 | 25 01 182 | 17 15 197 | 18 46 281 | 18 18 335 |
| | VEGA | ALTAIR | ✦Nunki | ANTARES | RIGIL KENT | ✦SPICA | ✦Alkaid |
| 225 | 29°45′047 | 17°27′082 | 25°21′122 | 52°28′146 | 24°59′183 | 62°08′237 | 42°17′344 |
| 226 | 30 29 047 | 18 27 082 | 26 12 122 | 53 01 147 | 24 56 183 | 61 17 238 | 42 00 343 |
| 227 | 31 12 046 | 19 26 082 | 27 03 122 | 53 34 148 | 24 52 184 | 60 26 239 | 41 43 343 |
| 228 | 31 55 046 | 20 25 082 | 27 53 123 | 54 05 149 | 24 48 184 | 59 35 240 | 41 25 342 |
| 229 | 32 38 045 | 21 25 082 | 28 44 123 | 54 35 150 | 24 44 185 | 58 43 241 | 41 06 341 |
| 230 | 33°20′045 | 22°24′082 | 29°34′123 | 55°04′152 | 24°38′185 | 57°51′241 | 40°46′340 |
| 231 | 34 03 045 | 23 23 082 | 30 24 124 | 55 32 153 | 24 33 186 | 56 58 242 | 40 26 340 |
| 232 | 34 45 044 | 24 22 082 | 31 13 124 | 55 58 154 | 24 27 186 | 56 05 243 | 40 04 339 |
| 233 | 35 26 044 | 25 22 082 | 32 03 125 | 56 23 156 | 24 20 187 | 55 12 244 | 39 42 338 |
| 234 | 36 08 043 | 26 21 082 | 32 52 125 | 56 47 157 | 24 12 187 | 54 18 244 | 39 20 338 |
| 235 | 36°48′043 | 27°20′082 | 33°41′125 | 57°10′159 | 24°05′188 | 53°24′245 | 38°57′337 |
| 236 | 37 29 042 | 28 19 082 | 34 29 126 | 57 30 160 | 23 56 188 | 52 29 246 | 38 33 336 |
| 237 | 38 09 042 | 29 19 082 | 35 18 126 | 57 50 162 | 23 47 189 | 51 35 246 | 38 08 336 |
| 238 | 38 49 041 | 30 18 082 | 36 06 127 | 58 08 163 | 23 38 189 | 50 40 247 | 37 43 335 |
| 239 | 39 28 041 | 31 17 082 | 36 54 127 | 58 24 165 | 23 28 190 | 49 45 247 | 37 18 334 |
| | VEGA | ✦ALTAIR | Nunki | ✦ANTARES | SPICA | ✦ARCTURUS | Alkaid |
| 240 | 40°07′040 | 32°17′082 | 37°41′128 | 58°38′167 | 48°49′248 | 60°36′303 | 36°51′334 |
| 241 | 40 46 040 | 33 16 082 | 38 28 128 | 58 51 168 | 47 54 248 | 59 45 302 | 36 24 333 |
| 242 | 41 24 039 | 34 15 082 | 39 15 129 | 59 02 170 | 46 58 249 | 58 54 301 | 35 57 332 |
| 243 | 42 01 039 | 35 14 082 | 40 01 130 | 59 12 172 | 46 02 249 | 58 03 300 | 35 29 332 |
| 244 | 42 38 038 | 36 14 082 | 40 47 130 | 59 19 174 | 45 06 250 | 57 11 300 | 35 01 331 |
| 245 | 43°15′037 | 37°13′082 | 41°32′131 | 59°25′175 | 44°10′250 | 56°19′299 | 34°32′331 |
| 246 | 43 51 037 | 38 12 082 | 42 17 132 | 59 29 177 | 43 14 250 | 55 26 298 | 34 02 330 |
| 247 | 44 26 036 | 39 11 082 | 43 02 132 | 59 31 179 | 42 17 251 | 54 34 298 | 33 33 330 |
| 248 | 45 01 035 | 40 11 082 | 43 46 133 | 59 31 181 | 41 20 251 | 53 40 297 | 33 02 329 |
| 249 | 45 35 034 | 41 10 082 | 44 29 134 | 59 30 182 | 40 24 252 | 52 47 297 | 32 31 329 |
| 250 | 46°08′034 | 42°09′082 | 45°12′134 | 59°27′184 | 39°27′252 | 51°54′296 | 32°00′328 |
| 251 | 46 41 033 | 43 08 082 | 45 55 135 | 59 21 186 | 38 30 252 | 51 00 296 | 31 29 328 |
| 252 | 47 13 032 | 44 07 081 | 46 37 136 | 59 14 188 | 37 33 252 | 50 06 295 | 30 57 327 |
| 253 | 47 44 031 | 45 07 081 | 47 18 137 | 59 05 189 | 36 36 253 | 49 12 295 | 30 24 327 |
| 254 | 48 14 030 | 46 06 081 | 47 59 138 | 58 55 191 | 35 39 253 | 48 17 294 | 29 52 327 |
| | ✦VEGA | ALTAIR | ✦Nunki | ANTARES | ✦SPICA | ARCTURUS | Alkaid |
| 255 | 48°44′029 | 47°05′081 | 48°38′139 | 58°43′193 | 34°41′253 | 47°23′294 | 29°18′326 |
| 256 | 49 13 028 | 48 04 081 | 49 18 140 | 58 28 194 | 33 44 254 | 46 28 294 | 28 45 326 |
| 257 | 49 41 027 | 49 03 081 | 49 56 141 | 58 13 196 | 32 46 254 | 45 33 293 | 28 11 325 |
| 258 | 50 08 026 | 50 02 081 | 50 34 142 | 57 55 198 | 31 49 254 | 44 38 293 | 27 37 325 |
| 259 | 50 34 025 | 51 01 081 | 51 10 143 | 57 37 199 | 30 51 254 | 43 43 293 | 27 03 325 |
| 260 | 50°59′024 | 52°00′081 | 51°46′144 | 57°16′201 | 29°54′255 | 42°48′292 | 26°28′324 |
| 261 | 51 23 023 | 52 59 080 | 52 21 145 | 56 54 202 | 28 56 255 | 41 52 292 | 25 53 324 |
| 262 | 51 46 022 | 53 58 080 | 52 55 146 | 56 31 204 | 27 58 255 | 40 57 292 | 25 18 324 |
| 263 | 52 08 021 | 54 57 080 | 53 28 147 | 56 06 205 | 27 00 255 | 40 01 292 | 24 42 323 |
| 264 | 52 29 020 | 55 56 080 | 54 00 148 | 55 40 207 | 26 02 255 | 39 05 291 | 24 06 323 |
| 265 | 52°49′019 | 56°55′080 | 54°31′150 | 55°13′208 | 25°04′256 | 38°10′291 | 23°30′323 |
| 266 | 53 07 018 | 57 54 080 | 55 01 151 | 54 44 209 | 24 06 256 | 37 14 291 | 22 54 323 |
| 267 | 53 25 016 | 58 53 079 | 55 29 152 | 54 14 210 | 23 08 256 | 36 18 291 | 22 18 322 |
| 268 | 53 41 015 | 59 52 079 | 55 57 154 | 53 43 212 | 22 10 256 | 35 22 291 | 21 41 322 |
| 269 | 53 56 014 | 60 51 079 | 56 23 155 | 53 11 213 | 21 12 256 | 34 26 290 | 21 04 322 |

LAT 4°N

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | VEGA | ✦DENEB | FOMALHAUT | ✦Peacock | Shaula | ANTARES | ✦ARCTURUS |
| 270 | 54°10′013 | 35°38′034 | 11°14′121 | 22°22′159 | 48°28′188 | 52°38′214 | 33°30′290 |
| 271 | 54 22 011 | 36 11 034 | 12 06 121 | 22 43 160 | 48 20 189 | 52 04 215 | 32 34 290 |
| 272 | 54 33 010 | 36 44 033 | 12 57 122 | 23 04 160 | 48 10 190 | 51 29 216 | 31 37 290 |
| 273 | 54 43 009 | 37 16 033 | 13 48 122 | 23 24 161 | 47 59 191 | 50 53 217 | 30 41 290 |
| 274 | 54 51 007 | 37 48 032 | 14 39 122 | 23 44 161 | 47 47 192 | 50 16 218 | 29 45 290 |
| 275 | 54°58′006 | 38°20′031 | 15°29′122 | 24°03′162 | 47°34′193 | 49°39′219 | 28°48′290 |
| 276 | 55 04 005 | 38 51 031 | 16 20 122 | 24 22 162 | 47 20 194 | 49 00 220 | 27 52 289 |
| 277 | 55 08 003 | 39 21 030 | 17 10 123 | 24 40 163 | 47 04 196 | 48 21 221 | 26 56 289 |
| 278 | 55 10 002 | 39 51 029 | 18 01 123 | 24 58 163 | 46 47 197 | 47 41 222 | 25 59 289 |
| 279 | 55 12 001 | 40 20 029 | 18 51 123 | 25 15 164 | 46 30 198 | 47 01 223 | 25 03 289 |
| 280 | 55°12′359 | 40°48′028 | 19°41′123 | 25°32′164 | 46°11′199 | 46°20′224 | 24°06′289 |
| 281 | 55 10 358 | 41 16 027 | 20 31 124 | 25 48 165 | 45 51 200 | 45 38 225 | 23 10 289 |
| 282 | 55 07 356 | 41 44 027 | 21 21 124 | 26 04 165 | 45 30 201 | 44 55 226 | 22 13 289 |
| 283 | 55 03 355 | 42 10 026 | 22 10 124 | 26 19 166 | 45 08 202 | 44 12 226 | 21 16 289 |
| 284 | 54 57 354 | 42 36 025 | 23 00 124 | 26 33 166 | 44 46 203 | 43 29 227 | 20 20 289 |
| | DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | ✦VEGA |
| 285 | 43°01′024 | 12°59′061 | 23°49′125 | 26°47′167 | 42°45′228 | 67°31′294 | 54°50′352 |
| 286 | 43 26 024 | 13 51 061 | 24 38 125 | 27 01 167 | 42 00 228 | 66 36 293 | 54 41 351 |
| 287 | 43 49 023 | 14 44 061 | 25 27 125 | 27 13 168 | 41 16 229 | 65 41 292 | 54 31 350 |
| 288 | 44 12 022 | 15 36 061 | 26 16 126 | 27 26 168 | 40 30 230 | 64 45 291 | 54 20 348 |
| 289 | 44 34 021 | 16 28 061 | 27 04 126 | 27 37 169 | 39 44 230 | 63 49 291 | 54 07 347 |
| 290 | 44°55′020 | 17°20′061 | 27°52′127 | 27°48′170 | 38°58′231 | 62°53′290 | 53°53′346 |
| 291 | 45 16 019 | 18 12 061 | 28 40 127 | 27 59 170 | 38 11 231 | 61 57 289 | 53 38 345 |
| 292 | 45 35 019 | 19 05 060 | 29 28 127 | 28 09 171 | 37 24 232 | 61 00 289 | 53 22 343 |
| 293 | 45 54 018 | 19 57 060 | 30 15 128 | 28 18 171 | 36 37 233 | 60 03 288 | 53 04 342 |
| 294 | 46 12 017 | 20 49 060 | 31 02 128 | 28 26 172 | 35 50 233 | 59 06 288 | 52 45 341 |
| 295 | 46°29′016 | 21°41′060 | 31°49′129 | 28°34′173 | 35°02′234 | 58°09′287 | 52°25′340 |
| 296 | 46 44 015 | 22 32 060 | 32 36 129 | 28 42 173 | 34 13 234 | 57 12 287 | 52 04 339 |
| 297 | 46 59 014 | 23 24 060 | 33 22 130 | 28 48 174 | 33 25 234 | 56 15 287 | 51 42 338 |
| 298 | 47 13 013 | 24 16 060 | 34 08 130 | 28 54 174 | 32 36 235 | 55 17 286 | 51 18 337 |
| 299 | 47 26 012 | 25 07 060 | 34 54 131 | 29 00 175 | 31 47 235 | 54 20 286 | 50 54 336 |
| | ✦DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | VEGA |
| 300 | 47°38′011 | 25°59′059 | 35°39′131 | 29°05′176 | 30°57′236 | 53°22′286 | 50°29′334 |
| 301 | 47 49 010 | 26 50 059 | 36 24 132 | 29 09 176 | 30 08 236 | 52 25 285 | 50 03 333 |
| 302 | 47 59 009 | 27 42 059 | 37 08 132 | 29 12 177 | 29 18 237 | 51 27 285 | 49 35 332 |
| 303 | 48 08 008 | 28 33 059 | 37 53 133 | 29 15 178 | 28 28 237 | 50 29 285 | 49 07 332 |
| 304 | 48 15 007 | 29 24 059 | 38 36 133 | 29 17 178 | 27 38 237 | 49 31 285 | 48 38 331 |
| 305 | 48°22′006 | 30°15′058 | 39°19′134 | 29°19′179 | 26°47′238 | 48°33′284 | 48°09′330 |
| 306 | 48 28 005 | 31 06 058 | 40 02 135 | 29 20 179 | 25 57 238 | 47 35 284 | 47 38 329 |
| 307 | 48 32 004 | 31 57 058 | 40 44 135 | 29 20 180 | 25 06 238 | 46 37 284 | 47 07 328 |
| 308 | 48 35 003 | 32 47 058 | 41 26 136 | 29 19 181 | 24 15 239 | 45 39 284 | 46 34 327 |
| 309 | 48 38 002 | 33 38 057 | 42 07 137 | 29 18 181 | 23 24 239 | 44 41 284 | 46 02 326 |
| 310 | 48°39′001 | 34°28′057 | 42°48′138 | 29°16′182 | 22°33′239 | 43°43′284 | 45°28′326 |
| 311 | 48 39 359 | 35 18 057 | 43 28 138 | 29 14 183 | 21 41 239 | 42 45 283 | 44 54 325 |
| 312 | 48 38 358 | 36 08 056 | 44 08 139 | 29 11 183 | 20 49 240 | 41 47 283 | 44 19 324 |
| 313 | 48 35 357 | 36 58 056 | 44 47 140 | 29 07 184 | 19 58 240 | 40 48 283 | 43 44 323 |
| 314 | 48 32 356 | 37 47 056 | 45 25 141 | 29 03 185 | 19 06 240 | 39 50 283 | 43 08 323 |
| | ✦Alpheratz | ✦FOMALHAUT | Peacock | Nunki | ✦Rasalhague | VEGA | DENEB |
| 315 | 38°36′055 | 46°02′142 | 28°58′185 | 47°28′223 | 38°52′283 | 42°31′322 | 48°28′355 |
| 316 | 39 26 055 | 46 39 143 | 28 52 186 | 46 47 224 | 37 53 283 | 41 54 321 | 48 22 354 |
| 317 | 40 14 054 | 47 15 143 | 28 46 186 | 46 05 225 | 36 55 283 | 41 16 321 | 48 16 353 |
| 318 | 41 03 054 | 47 50 144 | 28 39 187 | 45 23 225 | 35 57 283 | 40 38 320 | 48 08 352 |
| 319 | 41 51 054 | 48 25 145 | 28 31 188 | 44 40 226 | 34 58 283 | 40 00 320 | 47 59 351 |
| 320 | 42°39′053 | 48°58′146 | 28°23′188 | 43°56′227 | 34°00′282 | 39°21′319 | 47°50′350 |
| 321 | 43 27 053 | 49 31 147 | 28 14 189 | 43 13 228 | 33 01 282 | 38 41 318 | 47 39 349 |
| 322 | 44 14 052 | 50 03 148 | 28 05 189 | 42 28 228 | 32 03 282 | 38 01 318 | 47 27 348 |
| 323 | 45 01 052 | 50 34 150 | 27 55 190 | 41 43 229 | 31 04 282 | 37 21 317 | 47 14 347 |
| 324 | 45 48 051 | 51 03 151 | 27 44 191 | 40 58 230 | 30 06 282 | 36 40 317 | 47 00 346 |
| 325 | 46°34′050 | 51°32′152 | 27°33′191 | 40°12′230 | 29°07′282 | 35°59′317 | 46°45′345 |
| 326 | 47 20 050 | 52 00 153 | 27 21 192 | 39 26 231 | 28 09 282 | 35 18 316 | 46 29 344 |
| 327 | 48 06 049 | 52 26 154 | 27 08 192 | 38 39 231 | 27 10 282 | 34 36 316 | 46 13 343 |
| 328 | 48 51 048 | 52 52 156 | 26 55 193 | 37 52 232 | 26 12 282 | 33 54 315 | 45 55 342 |
| 329 | 49 35 048 | 53 16 157 | 26 42 193 | 37 05 232 | 25 13 282 | 33 12 315 | 45 36 341 |
| | ✦Alpheratz | Diphda | ✦FOMALHAUT | Peacock | ✦ALTAIR | VEGA | DENEB |
| 330 | 50°19′047 | 43°55′120 | 53°39′158 | 26°27′194 | 57°47′280 | 32°29′314 | 45°17′341 |
| 331 | 51 03 046 | 44 46 120 | 54 00 159 | 26 13 195 | 56 48 280 | 31 47 314 | 44 56 340 |
| 332 | 51 46 045 | 45 38 121 | 54 21 161 | 25 57 195 | 55 49 280 | 31 03 314 | 44 35 339 |
| 333 | 52 28 045 | 46 29 121 | 54 40 162 | 25 41 196 | 54 50 280 | 30 20 313 | 44 13 338 |
| 334 | 53 10 044 | 47 20 122 | 54 57 164 | 25 25 196 | 53 51 280 | 29 36 313 | 43 50 337 |
| 335 | 53°51′043 | 48°11′123 | 55°13′165 | 25°08′197 | 52°52′280 | 28°53′313 | 43°27′336 |
| 336 | 54 31 042 | 49 01 123 | 55 28 167 | 24 51 197 | 51 53 279 | 28 09 312 | 43 02 336 |
| 337 | 55 11 041 | 49 51 124 | 55 41 168 | 24 33 198 | 50 54 279 | 27 24 312 | 42 37 335 |
| 338 | 55 50 040 | 50 40 125 | 55 53 170 | 24 14 198 | 49 55 279 | 26 40 312 | 42 11 334 |
| 339 | 56 28 039 | 51 29 126 | 56 03 171 | 23 55 199 | 48 56 279 | 25 55 312 | 41 45 333 |
| 340 | 57°05′038 | 52°18′126 | 56°11′173 | 23°36′199 | 47°56′279 | 25°10′311 | 41°18′333 |
| 341 | 57 41 036 | 53 05 127 | 56 18 174 | 23 16 200 | 46 57 279 | 24 25 311 | 40 50 332 |
| 342 | 58 16 035 | 53 53 128 | 56 23 176 | 22 56 200 | 45 58 279 | 23 40 311 | 40 21 331 |
| 343 | 58 50 034 | 54 40 129 | 56 27 177 | 22 35 201 | 44 59 279 | 22 55 311 | 39 52 331 |
| 344 | 59 23 033 | 55 26 130 | 56 29 179 | 22 14 201 | 44 00 279 | 22 10 311 | 39 22 330 |
| | Alpheratz | ✦Hamal | Acamar | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 345 | 59°54′031 | 40°36′062 | 19°48′135 | 21°00′158 | 56°29′180 | 43°01′278 | 38°52′329 |
| 346 | 60 25 030 | 41 28 062 | 20 29 136 | 21 22 159 | 56 28 182 | 42 01 278 | 38 21 329 |
| 347 | 60 54 028 | 42 21 061 | 21 11 136 | 21 44 159 | 56 25 184 | 41 02 278 | 37 50 328 |
| 348 | 61 22 027 | 43 14 061 | 21 52 137 | 22 05 160 | 56 20 185 | 40 03 278 | 37 18 327 |
| 349 | 61 48 025 | 44 06 061 | 22 33 137 | 22 26 160 | 56 14 187 | 39 04 278 | 36 46 327 |
| 350 | 62°13′024 | 44°58′060 | 23°14′137 | 22°46′160 | 56°05′188 | 38°04′278 | 36°13′326 |
| 351 | 62 36 022 | 45 50 060 | 23 55 138 | 23 06 161 | 55 56 190 | 37 05 278 | 35 39 326 |
| 352 | 62 57 020 | 46 41 059 | 24 35 138 | 23 25 161 | 55 45 191 | 36 06 278 | 35 06 325 |
| 353 | 63 17 018 | 47 33 059 | 25 15 138 | 23 44 162 | 55 33 193 | 35 07 278 | 34 31 325 |
| 354 | 63 35 017 | 48 24 058 | 25 54 139 | 24 02 162 | 55 19 194 | 34 07 278 | 33 57 324 |
| 355 | 63°51′015 | 49°15′058 | 26°33′139 | 24°20′163 | 55°03′196 | 33°08′278 | 33°21′324 |
| 356 | 64 05 013 | 50 05 057 | 27 12 140 | 24 37 163 | 54 46 197 | 32 09 278 | 32 46 323 |
| 357 | 64 18 011 | 50 55 057 | 27 51 140 | 24 54 164 | 54 28 199 | 31 10 278 | 32 10 323 |
| 358 | 64 28 009 | 51 45 056 | 28 29 141 | 25 10 164 | 54 08 200 | 30 10 278 | 31 34 323 |
| 359 | 64 36 007 | 52 35 055 | 29 06 141 | 25 26 165 | 53 47 201 | 29 11 278 | 30 57 322 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Alpheratz | | ✦Mirfak | | ALDEBARAN | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 63°42′ | 005 | 26°09′ | 034 | 20°43′ | 073 | 26°40′ | 165 | 54°20′ | 203 | 28°03′ | 279 | 29°33′ | 322 |
| 1 | 63 46 | 003 | 26 43 | 034 | 21 41 | 073 | 26 54 | 166 | 53 55 | 205 | 27 04 | 278 | 28 56 | 322 |
| 2 | 63 48 | 001 | 27 16 | 033 | 22 38 | 073 | 27 09 | 166 | 53 30 | 206 | 26 05 | 278 | 28 19 | 321 |
| 3 | 63 48 | 359 | 27 49 | 033 | 23 36 | 073 | 27 23 | 167 | 53 03 | 207 | 25 05 | 278 | 27 41 | 321 |
| 4 | 63 45 | 357 | 28 21 | 033 | 24 33 | 073 | 27 36 | 168 | 52 35 | 208 | 24 06 | 278 | 27 04 | 321 |
| 5 | 63°41′ | 355 | 28°53′ | 032 | 25°30′ | 073 | 27°48′ | 168 | 52°06′ | 209 | 23°07′ | 278 | 26°25′ | 320 |
| 6 | 63 34 | 353 | 29 25 | 032 | 26 28 | 073 | 28 00 | 169 | 51 36 | 211 | 22 08 | 278 | 25 47 | 320 |
| 7 | 63 26 | 351 | 29 56 | 031 | 27 25 | 073 | 28 12 | 169 | 51 05 | 212 | 21 08 | 278 | 25 08 | 320 |
| 8 | 63 15 | 349 | 30 27 | 031 | 28 22 | 073 | 28 23 | 170 | 50 33 | 213 | 20 09 | 278 | 24 30 | 319 |
| 9 | 63 03 | 347 | 30 58 | 030 | 29 19 | 073 | 28 33 | 170 | 50 00 | 214 | 19 10 | 278 | 23 50 | 319 |
| 10 | 62°49′ | 345 | 31°28′ | 030 | 30°17′ | 073 | 28°43′ | 171 | 49°27′ | 215 | 18°11′ | 278 | 23°11′ | 319 |
| 11 | 62 33 | 343 | 31 58 | 029 | 31 14 | 072 | 28 52 | 172 | 48 52 | 216 | 17 11 | 278 | 22 32 | 319 |
| 12 | 62 15 | 342 | 32 27 | 029 | 32 11 | 072 | 29 00 | 172 | 48 16 | 217 | 16 12 | 278 | 21 52 | 318 |
| 13 | 61 55 | 340 | 32 56 | 028 | 33 08 | 072 | 29 08 | 173 | 47 40 | 218 | 15 13 | 278 | 21 12 | 318 |
| 14 | 61 34 | 338 | 33 24 | 028 | 34 05 | 072 | 29 15 | 173 | 47 03 | 219 | 14 13 | 278 | 20 32 | 318 |
| | CAPELLA | | ALDEBARAN | | ✦RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦Alpheratz | |
| 15 | 19°37′ | 042 | 35°02′ | 072 | 25°20′ | 101 | 29°22′ | 174 | 46°25′ | 220 | 41°09′ | 281 | 61°11′ | 337 |
| 16 | 20 17 | 042 | 35 59 | 072 | 26 19 | 101 | 29 28 | 175 | 45 47 | 220 | 40 10 | 281 | 60 46 | 335 |
| 17 | 20 57 | 041 | 36 56 | 071 | 27 18 | 101 | 29 33 | 175 | 45 07 | 221 | 39 11 | 280 | 60 20 | 334 |
| 18 | 21 36 | 041 | 37 52 | 071 | 28 17 | 101 | 29 37 | 176 | 44 28 | 222 | 38 12 | 280 | 59 53 | 332 |
| 19 | 22 15 | 041 | 38 49 | 071 | 29 15 | 101 | 29 41 | 176 | 43 47 | 223 | 37 13 | 280 | 59 24 | 331 |
| 20 | 22°55′ | 041 | 39°46′ | 071 | 30°14′ | 101 | 29°45′ | 177 | 43°06′ | 224 | 36°14′ | 280 | 58°54′ | 329 |
| 21 | 23 33 | 040 | 40 42 | 071 | 31 13 | 101 | 29 47 | 178 | 42 25 | 224 | 35 15 | 280 | 58 23 | 328 |
| 22 | 24 12 | 040 | 41 39 | 070 | 32 12 | 102 | 29 50 | 178 | 41 42 | 225 | 34 16 | 280 | 57 50 | 327 |
| 23 | 24 50 | 040 | 42 35 | 070 | 33 10 | 102 | 29 51 | 179 | 41 00 | 226 | 33 17 | 280 | 57 16 | 325 |
| 24 | 25 28 | 039 | 43 32 | 070 | 34 09 | 102 | 29 52 | 180 | 40 17 | 226 | 32 18 | 280 | 56 42 | 324 |
| 25 | 26°06′ | 039 | 44°28′ | 070 | 35°07′ | 102 | 29°52′ | 180 | 39°33′ | 227 | 31°19′ | 280 | 56°06′ | 323 |
| 26 | 26 44 | 039 | 45 24 | 069 | 36 06 | 102 | 29 51 | 181 | 38 49 | 228 | 30 20 | 280 | 55 30 | 322 |
| 27 | 27 21 | 038 | 46 20 | 069 | 37 05 | 103 | 29 50 | 181 | 38 05 | 228 | 29 21 | 280 | 54 52 | 321 |
| 28 | 27 58 | 038 | 47 16 | 069 | 38 03 | 103 | 29 48 | 182 | 37 20 | 229 | 28 22 | 280 | 54 14 | 320 |
| 29 | 28 35 | 038 | 48 12 | 068 | 39 01 | 103 | 29 45 | 183 | 36 35 | 229 | 27 23 | 280 | 53 35 | 319 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 39°41′ | 018 | 29°11′ | 037 | 49°07′ | 068 | 40°00′ | 103 | 29°42′ | 183 | 35°49′ | 230 | 52°55′ | 318 |
| 31 | 39 58 | 017 | 29 48 | 037 | 50 03 | 068 | 40 58 | 104 | 29 38 | 184 | 35 04 | 230 | 52 14 | 317 |
| 32 | 40 16 | 016 | 30 23 | 036 | 50 58 | 067 | 41 56 | 104 | 29 34 | 185 | 34 17 | 231 | 51 33 | 316 |
| 33 | 40 32 | 016 | 30 59 | 036 | 51 53 | 067 | 42 54 | 104 | 29 29 | 185 | 33 31 | 231 | 50 51 | 315 |
| 34 | 40 48 | 015 | 31 34 | 036 | 52 48 | 066 | 43 52 | 104 | 29 23 | 186 | 32 44 | 232 | 50 09 | 314 |
| 35 | 41°03′ | 014 | 32°08′ | 035 | 53°43′ | 066 | 44°50′ | 105 | 29°17′ | 186 | 31°57′ | 232 | 49°25′ | 314 |
| 36 | 41 17 | 013 | 32 43 | 035 | 54 37 | 065 | 45 48 | 105 | 29 10 | 187 | 31 09 | 233 | 48 42 | 313 |
| 37 | 41 30 | 012 | 33 17 | 034 | 55 32 | 065 | 46 46 | 105 | 29 02 | 188 | 30 22 | 233 | 47 58 | 312 |
| 38 | 41 42 | 012 | 33 50 | 034 | 56 26 | 064 | 47 44 | 106 | 28 54 | 188 | 29 34 | 233 | 47 13 | 311 |
| 39 | 41 54 | 011 | 34 23 | 033 | 57 19 | 063 | 48 42 | 106 | 28 45 | 189 | 28 45 | 234 | 46 28 | 311 |
| 40 | 42°05′ | 010 | 34°56′ | 033 | 58°13′ | 063 | 49°39′ | 106 | 28°35′ | 189 | 27°57′ | 234 | 45°42′ | 310 |
| 41 | 42 15 | 009 | 35 28 | 032 | 59 06 | 062 | 50 37 | 107 | 28 25 | 190 | 27 08 | 234 | 44 56 | 310 |
| 42 | 42 24 | 008 | 35 59 | 032 | 59 59 | 061 | 51 34 | 107 | 28 14 | 191 | 26 20 | 235 | 44 10 | 309 |
| 43 | 42 32 | 007 | 36 30 | 031 | 60 51 | 061 | 52 31 | 108 | 28 03 | 191 | 25 30 | 235 | 43 23 | 309 |
| 44 | 42 39 | 007 | 37 01 | 030 | 61 43 | 060 | 53 28 | 108 | 27 51 | 192 | 24 41 | 235 | 42 36 | 308 |
| | CAPELLA | | ✦PROCYON | | SIRIUS | | CANOPUS | | ✦ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 37°31′ | 030 | 20°06′ | 086 | 30°51′ | 112 | 19°47′ | 150 | 27°39′ | 192 | 50°38′ | 237 | 41°49′ | 307 |
| 46 | 38 00 | 029 | 21 05 | 086 | 31 46 | 112 | 20 16 | 150 | 27 26 | 193 | 49 48 | 237 | 41 01 | 307 |
| 47 | 38 29 | 029 | 22 05 | 086 | 32 42 | 112 | 20 46 | 151 | 27 12 | 193 | 48 57 | 238 | 40 13 | 307 |
| 48 | 38 57 | 028 | 23 05 | 086 | 33 37 | 112 | 21 15 | 151 | 26 58 | 194 | 48 06 | 239 | 39 25 | 306 |
| 49 | 39 25 | 027 | 24 05 | 086 | 34 33 | 113 | 21 44 | 151 | 26 43 | 195 | 47 15 | 239 | 38 36 | 306 |
| 50 | 39°52′ | 026 | 25°04′ | 086 | 35°28′ | 113 | 22°12′ | 152 | 26°28′ | 195 | 46°23′ | 240 | 37°48′ | 305 |
| 51 | 40 19 | 026 | 26 04 | 086 | 36 23 | 113 | 22 40 | 152 | 26 12 | 196 | 45 31 | 241 | 36 59 | 305 |
| 52 | 40 44 | 025 | 27 04 | 086 | 37 18 | 114 | 23 08 | 153 | 25 55 | 196 | 44 39 | 241 | 36 09 | 305 |
| 53 | 41 09 | 024 | 28 04 | 086 | 38 13 | 114 | 23 35 | 153 | 25 39 | 197 | 43 46 | 242 | 35 20 | 304 |
| 54 | 41 34 | 024 | 29 03 | 086 | 39 07 | 114 | 24 02 | 154 | 25 21 | 197 | 42 54 | 242 | 34 30 | 304 |
| 55 | 41°57′ | 023 | 30°03′ | 086 | 40°02′ | 115 | 24°29′ | 154 | 25°03′ | 198 | 42°01′ | 243 | 33°40′ | 304 |
| 56 | 42 20 | 022 | 31 03 | 086 | 40 56 | 115 | 24 55 | 155 | 24 45 | 198 | 41 07 | 243 | 32 50 | 303 |
| 57 | 42 42 | 021 | 32 03 | 086 | 41 50 | 116 | 25 20 | 155 | 24 26 | 199 | 40 14 | 243 | 32 00 | 303 |
| 58 | 43 04 | 020 | 33 02 | 086 | 42 44 | 116 | 25 45 | 155 | 24 07 | 199 | 39 20 | 244 | 31 10 | 303 |
| 59 | 43 24 | 020 | 34 02 | 086 | 43 37 | 117 | 26 10 | 156 | 23 47 | 200 | 38 26 | 244 | 30 19 | 302 |
| | ✦CAPELLA | | PROCYON | | ✦SIRIUS | | CANOPUS | | ACHERNAR | | ✦Diphda | | Alpheratz | |
| 60 | 43°44′ | 019 | 35°02′ | 086 | 44°31′ | 117 | 26°34′ | 156 | 23°26′ | 200 | 37°32′ | 245 | 29°28′ | 302 |
| 61 | 44 03 | 018 | 36 02 | 086 | 45 24 | 118 | 26 58 | 157 | 23 06 | 200 | 36 38 | 245 | 28 38 | 302 |
| 62 | 44 21 | 017 | 37 01 | 086 | 46 17 | 118 | 27 21 | 158 | 22 45 | 201 | 35 43 | 245 | 27 47 | 302 |
| 63 | 44 38 | 016 | 38 01 | 086 | 47 10 | 119 | 27 44 | 158 | 22 23 | 201 | 34 49 | 246 | 26 56 | 301 |
| 64 | 44 54 | 015 | 39 01 | 086 | 48 02 | 119 | 28 06 | 159 | 22 01 | 202 | 33 54 | 246 | 26 04 | 301 |
| 65 | 45°09′ | 014 | 40°01′ | 086 | 48°54′ | 120 | 28°27′ | 159 | 21°38′ | 202 | 32°59′ | 246 | 25°13′ | 301 |
| 66 | 45 23 | 013 | 41 00 | 086 | 49 46 | 121 | 28 48 | 160 | 21 16 | 203 | 32 04 | 247 | 24 22 | 301 |
| 67 | 45 37 | 012 | 42 00 | 086 | 50 37 | 121 | 29 09 | 160 | 20 52 | 203 | 31 09 | 247 | 23 30 | 301 |
| 68 | 45 49 | 011 | 43 00 | 086 | 51 28 | 122 | 29 29 | 161 | 20 29 | 203 | 30 14 | 247 | 22 39 | 300 |
| 69 | 46 01 | 011 | 44 00 | 086 | 52 19 | 123 | 29 48 | 161 | 20 05 | 204 | 29 19 | 248 | 21 47 | 300 |
| 70 | 46°11′ | 010 | 44°59′ | 086 | 53°09′ | 123 | 30°07′ | 162 | 19°40′ | 204 | 28°23′ | 248 | 20°55′ | 300 |
| 71 | 46 21 | 009 | 45 59 | 086 | 53 59 | 124 | 30 25 | 163 | 19 15 | 205 | 27 28 | 248 | 20 03 | 300 |
| 72 | 46 29 | 008 | 46 59 | 086 | 54 48 | 125 | 30 43 | 163 | 18 50 | 205 | 26 32 | 248 | 19 11 | 300 |
| 73 | 46 36 | 007 | 47 59 | 086 | 55 37 | 126 | 31 00 | 164 | 18 25 | 205 | 25 37 | 249 | 18 19 | 300 |
| 74 | 46 43 | 006 | 48 58 | 086 | 56 25 | 127 | 31 16 | 165 | 17 59 | 206 | 24 41 | 249 | 17 27 | 300 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 46°48′ | 005 | 43°08′ | 054 | 49°58′ | 086 | 57°13′ | 128 | 31°31′ | 165 | 38°40′ | 210 | 43°43′ | 300 |
| 76 | 46 52 | 004 | 43 56 | 053 | 50 58 | 085 | 58 00 | 129 | 31 46 | 166 | 38 10 | 210 | 42 52 | 300 |
| 77 | 46 56 | 003 | 44 44 | 052 | 51 57 | 085 | 58 46 | 130 | 32 01 | 166 | 37 40 | 211 | 42 00 | 299 |
| 78 | 46 58 | 002 | 45 31 | 052 | 52 57 | 085 | 59 32 | 131 | 32 14 | 167 | 37 09 | 212 | 41 07 | 299 |
| 79 | 46 59 | 001 | 46 18 | 051 | 53 57 | 085 | 60 16 | 132 | 32 27 | 168 | 36 37 | 212 | 40 15 | 299 |
| 80 | 46°59′ | 000 | 47°05′ | 051 | 54°57′ | 085 | 61°00′ | 134 | 32°40′ | 168 | 36°05′ | 213 | 39°22′ | 298 |
| 81 | 46 58 | 359 | 47 51 | 050 | 55 56 | 085 | 61 43 | 135 | 32 51 | 169 | 35 32 | 214 | 38 29 | 298 |
| 82 | 46 56 | 357 | 48 37 | 049 | 56 56 | 085 | 62 25 | 136 | 33 02 | 170 | 34 58 | 214 | 37 36 | 298 |
| 83 | 46 53 | 356 | 49 22 | 049 | 57 56 | 085 | 63 06 | 138 | 33 12 | 171 | 34 24 | 215 | 36 43 | 297 |
| 84 | 46 48 | 355 | 50 07 | 048 | 58 55 | 085 | 63 45 | 139 | 33 22 | 171 | 33 49 | 216 | 35 50 | 297 |
| 85 | 46°43′ | 354 | 50°51′ | 047 | 59°55′ | 085 | 64°24′ | 141 | 33°31′ | 172 | 33°14′ | 216 | 34°57′ | 297 |
| 86 | 46 37 | 353 | 51 35 | 046 | 60 55 | 085 | 65 01 | 143 | 33 39 | 173 | 32 39 | 217 | 34 03 | 297 |
| 87 | 46 30 | 352 | 52 18 | 046 | 61 54 | 085 | 65 36 | 145 | 33 46 | 173 | 32 03 | 217 | 33 09 | 296 |
| 88 | 46 21 | 351 | 53 00 | 045 | 62 54 | 085 | 66 10 | 146 | 33 53 | 174 | 31 26 | 218 | 32 16 | 296 |
| 89 | 46 12 | 351 | 53 42 | 044 | 63 54 | 084 | 66 43 | 148 | 33 58 | 175 | 30 49 | 218 | 31 22 | 296 |

LAT 3°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 54°23′ | 043 | 27°40′ | 078 | 27°09′ | 143 | 34°03′ | 176 | 30°12′ | 219 | 65°32′ | 305 | 46°01′ | 350 |
| 91 | 55 03 | 042 | 28 38 | 078 | 27 44 | 144 | 34 08 | 176 | 29 34 | 219 | 64 42 | 304 | 45 50 | 349 |
| 92 | 55 43 | 041 | 29 37 | 078 | 28 19 | 144 | 34 11 | 177 | 28 56 | 220 | 63 52 | 303 | 45 38 | 348 |
| 93 | 56 22 | 040 | 30 35 | 078 | 28 54 | 145 | 34 14 | 178 | 28 17 | 220 | 63 01 | 302 | 45 24 | 347 |
| 94 | 56 59 | 039 | 31 34 | 078 | 29 29 | 145 | 34 16 | 178 | 27 38 | 221 | 62 10 | 301 | 45 10 | 346 |
| 95 | 57°36′ | 037 | 32°33′ | 078 | 30°03′ | 146 | 34°17′ | 179 | 26°59′ | 221 | 61°18′ | 300 | 44°55′ | 345 |
| 96 | 58 12 | 036 | 33 31 | 078 | 30 36 | 146 | 34 18 | 180 | 26 19 | 222 | 60 26 | 299 | 44 39 | 344 |
| 97 | 58 47 | 035 | 34 30 | 078 | 31 09 | 147 | 34 17 | 181 | 25 39 | 222 | 59 34 | 298 | 44 22 | 343 |
| 98 | 59 21 | 034 | 35 28 | 078 | 31 42 | 147 | 34 16 | 181 | 24 59 | 222 | 58 41 | 298 | 44 04 | 342 |
| 99 | 59 53 | 032 | 36 27 | 077 | 32 14 | 148 | 34 14 | 182 | 24 19 | 223 | 57 48 | 297 | 43 45 | 341 |
| 100 | 60°25′ | 031 | 37°25′ | 077 | 32°45′ | 149 | 34°12′ | 183 | 23°38′ | 223 | 56°54′ | 296 | 43°26′ | 340 |
| 101 | 60 55 | 029 | 38 24 | 077 | 33 16 | 149 | 34 08 | 184 | 22 57 | 224 | 56 00 | 296 | 43 05 | 340 |
| 102 | 61 23 | 028 | 39 22 | 077 | 33 46 | 150 | 34 04 | 184 | 22 15 | 224 | 55 06 | 295 | 42 44 | 339 |
| 103 | 61 50 | 026 | 40 20 | 077 | 34 16 | 150 | 33 59 | 185 | 21 33 | 224 | 54 11 | 295 | 42 22 | 338 |
| 104 | 62 16 | 025 | 41 19 | 077 | 34 45 | 151 | 33 54 | 186 | 20 51 | 225 | 53 17 | 294 | 41 59 | 337 |
| 105 | 62°40′ | 023 | 42°17′ | 077 | 35°14′ | 152 | 33°47′ | 186 | 61°39′ | 247 | 52°22′ | 294 | 41°35′ | 336 |
| 106 | 63 03 | 021 | 43 15 | 076 | 35 42 | 152 | 33 40 | 187 | 60 43 | 247 | 51 27 | 293 | 41 11 | 336 |
| 107 | 63 23 | 019 | 44 14 | 076 | 36 09 | 153 | 33 32 | 188 | 59 48 | 248 | 50 32 | 293 | 40 46 | 335 |
| 108 | 63 42 | 017 | 45 12 | 076 | 36 36 | 154 | 33 24 | 189 | 58 52 | 249 | 49 36 | 292 | 40 20 | 334 |
| 109 | 63 59 | 016 | 46 10 | 076 | 37 02 | 155 | 33 14 | 189 | 57 56 | 249 | 48 41 | 292 | 39 54 | 334 |
| 110 | 64°14′ | 014 | 47°08′ | 076 | 37°28′ | 155 | 33°04′ | 190 | 57°00′ | 250 | 47°45′ | 291 | 39°27′ | 333 |
| 111 | 64 27 | 012 | 48 06 | 076 | 37 52 | 156 | 32 54 | 191 | 56 04 | 251 | 46 49 | 291 | 38 59 | 332 |
| 112 | 64 38 | 010 | 49 04 | 075 | 38 16 | 157 | 32 42 | 191 | 55 07 | 251 | 45 53 | 291 | 38 31 | 332 |
| 113 | 64 47 | 008 | 50 02 | 075 | 38 39 | 158 | 32 30 | 192 | 54 10 | 252 | 44 57 | 291 | 38 02 | 331 |
| 114 | 64 54 | 005 | 51 00 | 075 | 39 02 | 158 | 32 17 | 193 | 53 13 | 252 | 44 01 | 290 | 37 33 | 330 |
| 115 | 64°58′ | 003 | 51°58′ | 074 | 39°23′ | 159 | 32°04′ | 193 | 52°16′ | 253 | 43°05′ | 290 | 37°03′ | 330 |
| 116 | 65 01 | 001 | 52 55 | 074 | 39 44 | 160 | 31 49 | 194 | 51 19 | 253 | 42 09 | 290 | 36 32 | 329 |
| 117 | 65 01 | 359 | 53 53 | 074 | 40 04 | 161 | 31 34 | 195 | 50 22 | 253 | 41 12 | 289 | 36 01 | 329 |
| 118 | 64 59 | 357 | 54 51 | 074 | 40 23 | 162 | 31 19 | 195 | 49 24 | 254 | 40 16 | 289 | 35 30 | 328 |
| 119 | 64 55 | 355 | 55 48 | 073 | 40 42 | 163 | 31 03 | 196 | 48 27 | 254 | 39 19 | 289 | 34 58 | 327 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 120 | 21°58′ | 022 | 32°10′ | 075 | 40°59′ | 164 | 30°46′ | 197 | 63°06′ | 222 | 58°53′ | 279 | 34°25′ | 327 |
| 121 | 22 20 | 021 | 33 08 | 075 | 41 16 | 164 | 30 28 | 197 | 62 25 | 224 | 57 54 | 279 | 33 52 | 326 |
| 122 | 22 42 | 021 | 34 06 | 075 | 41 31 | 165 | 30 10 | 198 | 61 43 | 225 | 56 55 | 279 | 33 19 | 326 |
| 123 | 23 03 | 021 | 35 03 | 074 | 41 46 | 166 | 29 52 | 198 | 61 00 | 226 | 55 56 | 279 | 32 45 | 325 |
| 124 | 23 24 | 020 | 36 01 | 074 | 42 00 | 167 | 29 33 | 199 | 60 17 | 228 | 54 56 | 279 | 32 11 | 325 |
| 125 | 23°45′ | 020 | 36°59′ | 074 | 42°13′ | 168 | 29°13′ | 200 | 59°32′ | 229 | 53°57′ | 278 | 31°36′ | 324 |
| 126 | 24 05 | 020 | 37 56 | 074 | 42 25 | 169 | 28 52 | 200 | 58 46 | 230 | 52 58 | 278 | 31 01 | 324 |
| 127 | 24 25 | 019 | 38 54 | 074 | 42 36 | 170 | 28 31 | 201 | 58 00 | 231 | 51 58 | 278 | 30 26 | 324 |
| 128 | 24 45 | 019 | 39 51 | 074 | 42 46 | 171 | 28 10 | 201 | 57 13 | 232 | 50 59 | 278 | 29 50 | 323 |
| 129 | 25 04 | 018 | 40 49 | 073 | 42 54 | 172 | 27 48 | 202 | 56 26 | 233 | 50 00 | 278 | 29 14 | 323 |
| 130 | 25°23′ | 018 | 41°46′ | 073 | 43°02′ | 173 | 27°25′ | 202 | 55°37′ | 234 | 49°00′ | 278 | 28°38′ | 322 |
| 131 | 25 41 | 018 | 42 44 | 073 | 43 09 | 174 | 27 02 | 203 | 54 49 | 235 | 48 01 | 278 | 28 01 | 322 |
| 132 | 25 59 | 017 | 43 41 | 073 | 43 15 | 175 | 26 39 | 203 | 53 59 | 236 | 47 02 | 278 | 27 24 | 322 |
| 133 | 26 17 | 017 | 44 38 | 073 | 43 20 | 176 | 26 15 | 204 | 53 10 | 237 | 46 02 | 278 | 26 47 | 321 |
| 134 | 26 34 | 016 | 45 35 | 072 | 43 24 | 177 | 25 50 | 204 | 52 19 | 237 | 45 03 | 277 | 26 09 | 321 |
| 135 | 26°51′ | 016 | 22°18′ | 103 | 13°21′ | 159 | 25°25′ | 205 | 51°29′ | 238 | 44°04′ | 277 | 25°31′ | 321 |
| 136 | 27 07 | 016 | 23 16 | 104 | 13 43 | 159 | 25 00 | 205 | 50 38 | 239 | 43 04 | 277 | 24 53 | 320 |
| 137 | 27 23 | 015 | 24 14 | 104 | 14 04 | 159 | 24 34 | 206 | 49 46 | 239 | 42 05 | 277 | 24 15 | 320 |
| 138 | 27 38 | 015 | 25 12 | 104 | 14 25 | 159 | 24 07 | 206 | 48 55 | 240 | 41 05 | 277 | 23 36 | 320 |
| 139 | 27 53 | 014 | 26 11 | 104 | 14 46 | 160 | 23 41 | 207 | 48 02 | 241 | 40 06 | 277 | 22 57 | 319 |
| 140 | 28°08′ | 014 | 27°09′ | 104 | 15°07′ | 160 | 23°13′ | 207 | 47°10′ | 241 | 39°06′ | 277 | 22°18′ | 319 |
| 141 | 28 22 | 013 | 28 07 | 104 | 15 27 | 160 | 22 46 | 208 | 46 17 | 242 | 38 07 | 277 | 21 39 | 319 |
| 142 | 28 36 | 013 | 29 05 | 105 | 15 47 | 161 | 22 18 | 208 | 45 24 | 242 | 37 07 | 277 | 21 00 | 319 |
| 143 | 28 49 | 012 | 30 03 | 105 | 16 07 | 161 | 21 49 | 208 | 44 31 | 243 | 36 08 | 277 | 20 20 | 319 |
| 144 | 29 01 | 012 | 31 01 | 105 | 16 26 | 161 | 21 21 | 209 | 43 38 | 243 | 35 08 | 277 | 19 40 | 318 |
| 145 | 29°13′ | 011 | 31°58′ | 105 | 16°45′ | 162 | 20°52′ | 209 | 42°44′ | 244 | 34°09′ | 277 | 19°00′ | 318 |
| 146 | 29 25 | 011 | 32 56 | 105 | 17 04 | 162 | 20 22 | 210 | 41 50 | 244 | 33 10 | 277 | 18 20 | 318 |
| 147 | 29 36 | 010 | 33 54 | 106 | 17 22 | 162 | 19 52 | 210 | 40 56 | 245 | 32 10 | 277 | 17 40 | 318 |
| 148 | 29 46 | 010 | 34 51 | 106 | 17 40 | 163 | 19 22 | 210 | 40 02 | 245 | 31 11 | 277 | 17 00 | 318 |
| 149 | 29 56 | 009 | 35 49 | 106 | 17 58 | 163 | 18 52 | 211 | 39 08 | 246 | 30 11 | 277 | 16 19 | 317 |
| 150 | 30°06′ | 009 | 25°23′ | 070 | 36°47′ | 106 | 18°15′ | 163 | 38°13′ | 246 | 55°07′ | 275 | 49°34′ | 312 |
| 151 | 30 15 | 008 | 26 20 | 070 | 37 44 | 107 | 18 32 | 164 | 37 18 | 246 | 54 07 | 275 | 48 48 | 311 |
| 152 | 30 23 | 008 | 27 16 | 070 | 38 41 | 107 | 18 48 | 164 | 36 23 | 247 | 53 07 | 275 | 48 03 | 310 |
| 153 | 30 31 | 007 | 28 12 | 070 | 39 39 | 107 | 19 04 | 165 | 35 28 | 247 | 52 07 | 275 | 47 17 | 309 |
| 154 | 30 38 | 007 | 29 09 | 070 | 40 36 | 108 | 19 20 | 165 | 34 33 | 247 | 51 08 | 275 | 46 30 | 309 |
| 155 | 30°45′ | 006 | 30°05′ | 070 | 41°33′ | 108 | 19°36′ | 165 | 33°38′ | 248 | 50°08′ | 274 | 45°43′ | 308 |
| 156 | 30 51 | 006 | 31 01 | 069 | 42 30 | 108 | 19 50 | 166 | 32 42 | 248 | 49 08 | 274 | 44 56 | 308 |
| 157 | 30 57 | 005 | 31 57 | 069 | 43 27 | 109 | 20 05 | 166 | 31 47 | 248 | 48 08 | 274 | 44 09 | 307 |
| 158 | 31 02 | 005 | 32 53 | 069 | 44 23 | 109 | 20 19 | 167 | 30 51 | 248 | 47 09 | 274 | 43 21 | 307 |
| 159 | 31 06 | 004 | 33 49 | 069 | 45 20 | 109 | 20 33 | 167 | 29 55 | 249 | 46 09 | 274 | 42 32 | 306 |
| 160 | 31°10′ | 003 | 34°45′ | 069 | 46°16′ | 110 | 20°46′ | 167 | 28°59′ | 249 | 45°09′ | 274 | 41°44′ | 306 |
| 161 | 31 13 | 003 | 35 41 | 069 | 47 13 | 110 | 20 59 | 168 | 28 03 | 249 | 44 09 | 274 | 40 55 | 305 |
| 162 | 31 16 | 002 | 36 36 | 068 | 48 09 | 111 | 21 11 | 168 | 27 07 | 249 | 43 10 | 274 | 40 06 | 305 |
| 163 | 31 18 | 002 | 37 32 | 068 | 49 05 | 111 | 21 23 | 169 | 26 11 | 250 | 42 10 | 274 | 39 17 | 304 |
| 164 | 31 20 | 001 | 38 28 | 068 | 50 01 | 112 | 21 35 | 169 | 25 15 | 250 | 41 10 | 274 | 38 27 | 304 |
| 165 | 31°21′ | 001 | 39°23′ | 068 | 50°56′ | 112 | 21°46′ | 170 | 37°12′ | 205 | 40°10′ | 274 | 37°37′ | 304 |
| 166 | 31 21 | 000 | 40 18 | 067 | 51 52 | 113 | 21 57 | 170 | 36 46 | 206 | 39 11 | 274 | 36 47 | 303 |
| 167 | 31 21 | 000 | 41 14 | 067 | 52 47 | 113 | 22 07 | 170 | 36 19 | 207 | 38 11 | 274 | 35 57 | 303 |
| 168 | 31 20 | 359 | 42 09 | 067 | 53 42 | 114 | 22 17 | 171 | 35 52 | 207 | 37 11 | 274 | 35 06 | 303 |
| 169 | 31 19 | 358 | 43 04 | 066 | 54 37 | 114 | 22 26 | 171 | 35 24 | 208 | 36 11 | 274 | 34 16 | 302 |
| 170 | 31°17′ | 358 | 43°59′ | 066 | 55°31′ | 115 | 22°35′ | 172 | 34°56′ | 209 | 35°12′ | 274 | 33°25′ | 302 |
| 171 | 31 15 | 357 | 44 53 | 066 | 56 25 | 116 | 22 43 | 172 | 34 27 | 209 | 34 12 | 274 | 32 34 | 302 |
| 172 | 31 12 | 357 | 45 48 | 065 | 57 19 | 116 | 22 51 | 173 | 33 57 | 210 | 33 12 | 274 | 31 43 | 301 |
| 173 | 31 08 | 356 | 46 42 | 065 | 58 13 | 117 | 22 58 | 173 | 33 27 | 211 | 32 12 | 274 | 30 52 | 301 |
| 174 | 31 04 | 356 | 47 37 | 065 | 59 06 | 118 | 23 05 | 174 | 32 56 | 211 | 31 13 | 274 | 30 00 | 301 |
| 175 | 30°59′ | 355 | 48°31′ | 064 | 59°59′ | 119 | 23°11′ | 174 | 32°25′ | 212 | 30°13′ | 274 | 29°09′ | 301 |
| 176 | 30 54 | 355 | 49 25 | 064 | 60 51 | 120 | 23 17 | 175 | 31 53 | 212 | 29 13 | 274 | 28 17 | 300 |
| 177 | 30 48 | 354 | 50 18 | 063 | 61 43 | 121 | 23 22 | 175 | 31 21 | 213 | 28 13 | 274 | 27 25 | 300 |
| 178 | 30 41 | 354 | 51 12 | 063 | 62 34 | 122 | 23 27 | 176 | 30 48 | 213 | 27 14 | 274 | 26 34 | 300 |
| 179 | 30 34 | 353 | 52 05 | 062 | 63 25 | 123 | 23 31 | 176 | 30 15 | 214 | 26 14 | 274 | 25 42 | 300 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | | ANTARES | | RIGIL KENT | | ✦ACRUX | | Suhail | | ✦REGULUS | | Dubhe | |
| 180 | 52°58′ | 062 | 18°27′ | 119 | 18°57′ | 161 | 23°35′ | 177 | 29°41′ | 215 | 61°13′ | 289 | 30°27′ | 352 |
| 181 | 53 50 | 061 | 19 19 | 119 | 19 17 | 161 | 23 38 | 177 | 29 07 | 215 | 60 17 | 289 | 30 19 | 352 |
| 182 | 54 43 | 060 | 20 12 | 120 | 19 36 | 161 | 23 41 | 178 | 28 32 | 216 | 59 20 | 288 | 30 10 | 351 |
| 183 | 55 35 | 060 | 21 04 | 120 | 19 55 | 162 | 23 44 | 178 | 27 57 | 216 | 58 23 | 288 | 30 01 | 351 |
| 184 | 56 26 | 059 | 21 55 | 120 | 20 14 | 162 | 23 45 | 179 | 27 21 | 217 | 57 26 | 287 | 29 51 | 350 |
| 185 | 57°17′ | 058 | 22°47′ | 120 | 20°32′ | 163 | 23°47′ | 179 | 26°46′ | 217 | 56°29′ | 287 | 29°41′ | 350 |
| 186 | 58 08 | 058 | 23 39 | 121 | 20 50 | 163 | 23 47 | 180 | 26 09 | 217 | 55 31 | 287 | 29 30 | 349 |
| 187 | 58 59 | 057 | 24 30 | 121 | 21 07 | 163 | 23 48 | 180 | 25 33 | 218 | 54 34 | 286 | 29 19 | 349 |
| 188 | 59 48 | 056 | 25 22 | 121 | 21 24 | 164 | 23 47 | 181 | 24 56 | 218 | 53 36 | 286 | 29 07 | 348 |
| 189 | 60 38 | 055 | 26 13 | 122 | 21 40 | 164 | 23 46 | 181 | 24 18 | 219 | 52 39 | 286 | 28 54 | 348 |
| 190 | 61°27′ | 054 | 27°04′ | 122 | 21°56′ | 165 | 23°45′ | 182 | 23°41′ | 219 | 51°41′ | 285 | 28°42′ | 347 |
| 191 | 62 15 | 053 | 27 54 | 122 | 22 12 | 165 | 23 43 | 182 | 23 03 | 220 | 50 43 | 285 | 28 28 | 347 |
| 192 | 63 02 | 052 | 28 45 | 123 | 22 27 | 166 | 23 41 | 182 | 22 25 | 220 | 49 45 | 285 | 28 14 | 346 |
| 193 | 63 49 | 051 | 29 35 | 123 | 22 42 | 166 | 23 38 | 183 | 21 46 | 220 | 48 47 | 285 | 28 00 | 346 |
| 194 | 64 35 | 049 | 30 26 | 123 | 22 56 | 167 | 23 35 | 183 | 21 07 | 221 | 47 49 | 284 | 27 45 | 346 |
| | ✦Alphecca | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 195 | 45°55′ | 054 | 21°11′ | 078 | 31°16′ | 124 | 23°10′ | 167 | 23°31′ | 184 | 46°51′ | 284 | 27°30′ | 345 |
| 196 | 46 43 | 053 | 22 09 | 078 | 32 05 | 124 | 23 23 | 167 | 23 26 | 184 | 45 53 | 284 | 27 15 | 345 |
| 197 | 47 31 | 053 | 23 08 | 078 | 32 55 | 124 | 23 36 | 168 | 23 22 | 185 | 44 55 | 284 | 26 58 | 344 |
| 198 | 48 18 | 052 | 24 06 | 078 | 33 44 | 125 | 23 48 | 168 | 23 16 | 185 | 43 57 | 284 | 26 42 | 344 |
| 199 | 49 05 | 051 | 25 05 | 078 | 34 33 | 125 | 24 00 | 169 | 23 10 | 186 | 42 58 | 283 | 26 25 | 343 |
| 200 | 49°52′ | 051 | 26°03′ | 077 | 35°22′ | 126 | 24°11′ | 169 | 23°04′ | 186 | 42°00′ | 283 | 26°07′ | 343 |
| 201 | 50 38 | 050 | 27 02 | 077 | 36 10 | 126 | 24 22 | 170 | 22 57 | 187 | 41 02 | 283 | 25 50 | 342 |
| 202 | 51 23 | 049 | 28 00 | 077 | 36 59 | 127 | 24 32 | 170 | 22 50 | 187 | 40 03 | 283 | 25 31 | 342 |
| 203 | 52 08 | 048 | 28 59 | 077 | 37 47 | 127 | 24 42 | 171 | 22 42 | 188 | 39 05 | 283 | 25 13 | 342 |
| 204 | 52 53 | 048 | 29 57 | 077 | 38 34 | 128 | 24 51 | 171 | 22 33 | 188 | 38 07 | 283 | 24 54 | 341 |
| 205 | 53°37′ | 047 | 30°56′ | 077 | 39°21′ | 128 | 25°00′ | 172 | 22°25′ | 189 | 37°08′ | 283 | 24°34′ | 341 |
| 206 | 54 20 | 046 | 31 54 | 077 | 40 08 | 129 | 25 08 | 172 | 22 15 | 189 | 36 10 | 283 | 24 15 | 341 |
| 207 | 55 03 | 045 | 32 53 | 077 | 40 54 | 129 | 25 16 | 173 | 22 05 | 190 | 35 11 | 282 | 23 54 | 340 |
| 208 | 55 44 | 044 | 33 51 | 077 | 41 40 | 130 | 25 23 | 173 | 21 55 | 190 | 34 13 | 282 | 23 34 | 340 |
| 209 | 56 26 | 043 | 34 49 | 077 | 42 26 | 131 | 25 30 | 174 | 21 45 | 191 | 33 14 | 282 | 23 13 | 339 |
| | ✦VEGA | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 210 | 17°51′ | 050 | 35°48′ | 077 | 43°11′ | 131 | 25°36′ | 175 | 21°33′ | 191 | 32°16′ | 282 | 22°52′ | 339 |
| 211 | 18 37 | 050 | 36 46 | 077 | 43 56 | 132 | 25 41 | 175 | 21 22 | 191 | 31 17 | 282 | 22 30 | 339 |
| 212 | 19 23 | 050 | 37 44 | 076 | 44 40 | 133 | 25 46 | 176 | 21 10 | 192 | 30 18 | 282 | 22 09 | 338 |
| 213 | 20 09 | 050 | 38 42 | 076 | 45 24 | 134 | 25 50 | 176 | 20 57 | 192 | 29 20 | 282 | 21 46 | 338 |
| 214 | 20 54 | 049 | 39 41 | 076 | 46 07 | 134 | 25 54 | 177 | 20 44 | 193 | 28 21 | 282 | 21 24 | 338 |
| 215 | 21°39′ | 049 | 40°39′ | 076 | 46°50′ | 135 | 25°57′ | 177 | 20°31′ | 193 | 27°23′ | 282 | 21°01′ | 338 |
| 216 | 22 25 | 049 | 41 37 | 076 | 47 32 | 136 | 26 00 | 178 | 20 17 | 194 | 26 24 | 282 | 20 38 | 337 |
| 217 | 23 10 | 049 | 42 35 | 076 | 48 13 | 137 | 26 02 | 178 | 20 03 | 194 | 25 25 | 282 | 20 15 | 337 |
| 218 | 23 55 | 048 | 43 33 | 076 | 48 54 | 138 | 26 04 | 179 | 19 48 | 194 | 24 27 | 282 | 19 51 | 337 |
| 219 | 24 39 | 048 | 44 31 | 075 | 49 34 | 139 | 26 05 | 179 | 19 33 | 195 | 23 28 | 282 | 19 27 | 336 |
| 220 | 25°24′ | 048 | 45°29′ | 075 | 50°13′ | 140 | 26°05′ | 180 | 19°18′ | 195 | 22°29′ | 282 | 19°03′ | 336 |
| 221 | 26 08 | 048 | 46 27 | 075 | 50 51 | 140 | 26 05 | 180 | 19 02 | 195 | 21 30 | 282 | 18 39 | 336 |
| 222 | 26 53 | 047 | 47 25 | 075 | 51 29 | 142 | 26 04 | 181 | 18 46 | 196 | 20 32 | 282 | 18 14 | 336 |
| 223 | 27 37 | 047 | 48 22 | 074 | 52 06 | 143 | 26 03 | 181 | 18 29 | 196 | 19 33 | 282 | 17 49 | 335 |
| 224 | 28 20 | 047 | 49 20 | 074 | 52 42 | 144 | 26 01 | 182 | 18 12 | 197 | 18 34 | 282 | 17 24 | 335 |
| | VEGA | | ALTAIR | | ✦Nunki | | ANTARES | | RIGIL KENT | | ✦SPICA | | ✦Alkaid | |
| 225 | 29°04′ | 046 | 17°19′ | 082 | 25°53′ | 121 | 53°17′ | 145 | 25°59′ | 183 | 62°40′ | 238 | 41°19′ | 344 |
| 226 | 29 47 | 046 | 18 18 | 082 | 26 44 | 122 | 53 51 | 146 | 25 56 | 183 | 61 49 | 239 | 41 03 | 344 |
| 227 | 30 30 | 046 | 19 17 | 082 | 27 35 | 122 | 54 24 | 147 | 25 52 | 184 | 60 57 | 240 | 40 46 | 343 |
| 228 | 31 13 | 045 | 20 17 | 082 | 28 26 | 122 | 54 56 | 148 | 25 48 | 184 | 60 05 | 241 | 40 28 | 342 |
| 229 | 31 56 | 045 | 21 16 | 082 | 29 16 | 123 | 55 27 | 150 | 25 43 | 185 | 59 12 | 242 | 40 09 | 341 |
| 230 | 32°38′ | 045 | 22°15′ | 082 | 30°07′ | 123 | 55°57′ | 151 | 25°38′ | 185 | 58°19′ | 243 | 39°49′ | 341 |
| 231 | 33 20 | 044 | 23 14 | 082 | 30 57 | 123 | 56 25 | 152 | 25 32 | 186 | 57 26 | 244 | 39 29 | 340 |
| 232 | 34 01 | 044 | 24 14 | 082 | 31 47 | 124 | 56 52 | 154 | 25 26 | 186 | 56 32 | 244 | 39 08 | 339 |
| 233 | 34 43 | 043 | 25 13 | 082 | 32 37 | 124 | 57 18 | 155 | 25 19 | 187 | 55 38 | 245 | 38 47 | 339 |
| 234 | 35 24 | 043 | 26 12 | 082 | 33 26 | 124 | 57 42 | 157 | 25 12 | 187 | 54 43 | 246 | 38 24 | 338 |
| 235 | 36°04′ | 042 | 27°12′ | 082 | 34°15′ | 125 | 58°05′ | 158 | 25°04′ | 188 | 53°48′ | 246 | 38°01′ | 337 |
| 236 | 36 45 | 042 | 28 11 | 081 | 35 04 | 125 | 58 27 | 160 | 24 56 | 188 | 52 53 | 247 | 37 38 | 336 |
| 237 | 37 24 | 041 | 29 10 | 081 | 35 53 | 126 | 58 47 | 161 | 24 47 | 189 | 51 58 | 247 | 37 14 | 336 |
| 238 | 38 04 | 041 | 30 09 | 081 | 36 42 | 126 | 59 05 | 163 | 24 37 | 189 | 51 03 | 248 | 36 49 | 335 |
| 239 | 38 43 | 040 | 31 09 | 081 | 37 30 | 127 | 59 22 | 165 | 24 27 | 190 | 50 07 | 248 | 36 23 | 335 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ✦ARCTURUS | | Alkaid | |
| 240 | 39°21′ | 040 | 32°08′ | 081 | 38°18′ | 127 | 59°37′ | 166 | 49°11′ | 249 | 60°02′ | 304 | 35°57′ | 334 |
| 241 | 40 00 | 039 | 33 07 | 081 | 39 05 | 128 | 59 50 | 168 | 48 15 | 249 | 59 13 | 303 | 35 31 | 333 |
| 242 | 40 37 | 039 | 34 06 | 081 | 39 52 | 128 | 60 01 | 170 | 47 19 | 250 | 58 22 | 303 | 35 04 | 333 |
| 243 | 41 14 | 038 | 35 05 | 081 | 40 39 | 129 | 60 11 | 172 | 46 23 | 250 | 57 32 | 302 | 34 36 | 332 |
| 244 | 41 51 | 037 | 36 05 | 081 | 41 25 | 130 | 60 19 | 173 | 45 26 | 251 | 56 41 | 301 | 34 08 | 332 |
| 245 | 42°27′ | 037 | 37°04′ | 081 | 42°11′ | 130 | 60°25′ | 175 | 44°30′ | 251 | 55°49′ | 300 | 33°39′ | 331 |
| 246 | 43 02 | 036 | 38 03 | 081 | 42 57 | 131 | 60 29 | 177 | 43 33 | 251 | 54 57 | 300 | 33 10 | 331 |
| 247 | 43 37 | 035 | 39 02 | 081 | 43 42 | 132 | 60 31 | 179 | 42 36 | 252 | 54 05 | 299 | 32 41 | 330 |
| 248 | 44 11 | 034 | 40 01 | 081 | 44 27 | 132 | 60 31 | 181 | 41 39 | 252 | 53 12 | 298 | 32 11 | 330 |
| 249 | 44 45 | 034 | 41 01 | 081 | 45 11 | 133 | 60 30 | 182 | 40 42 | 252 | 52 20 | 298 | 31 40 | 329 |
| 250 | 45°18′ | 033 | 42°00′ | 081 | 45°54′ | 134 | 60°26′ | 184 | 39°45′ | 253 | 51°27′ | 297 | 31°09′ | 329 |
| 251 | 45 50 | 032 | 42 59 | 081 | 46 37 | 134 | 60 21 | 186 | 38 48 | 253 | 50 33 | 297 | 30 38 | 328 |
| 252 | 46 22 | 031 | 43 58 | 080 | 47 20 | 135 | 60 14 | 188 | 37 51 | 253 | 49 40 | 296 | 30 06 | 328 |
| 253 | 46 52 | 030 | 44 57 | 080 | 48 02 | 136 | 60 05 | 190 | 36 53 | 254 | 48 46 | 296 | 29 34 | 327 |
| 254 | 47 22 | 030 | 45 56 | 080 | 48 43 | 137 | 59 54 | 191 | 35 56 | 254 | 47 52 | 295 | 29 01 | 327 |
| | ✦VEGA | | ALTAIR | | ✦Nunki | | ANTARES | | ✦SPICA | | ARCTURUS | | Alkaid | |
| 255 | 47°52′ | 029 | 46°55′ | 080 | 49°23′ | 138 | 59°41′ | 193 | 34°58′ | 254 | 46°58′ | 295 | 28°28′ | 327 |
| 256 | 48 20 | 028 | 47 54 | 080 | 50 03 | 139 | 59 27 | 195 | 34 01 | 254 | 46 03 | 295 | 27 55 | 326 |
| 257 | 48 47 | 027 | 48 53 | 080 | 50 42 | 140 | 59 10 | 196 | 33 03 | 254 | 45 09 | 294 | 27 22 | 326 |
| 258 | 49 14 | 026 | 49 52 | 080 | 51 20 | 141 | 58 53 | 198 | 32 05 | 255 | 44 14 | 294 | 26 48 | 325 |
| 259 | 49 40 | 025 | 50 51 | 080 | 51 58 | 142 | 58 33 | 200 | 31 07 | 255 | 43 19 | 294 | 26 14 | 325 |
| 260 | 50°04′ | 024 | 51°50′ | 079 | 52°34′ | 143 | 58°12′ | 201 | 30°09′ | 255 | 42°24′ | 293 | 25°39′ | 325 |
| 261 | 50 28 | 023 | 52 49 | 079 | 53 10 | 144 | 57 50 | 203 | 29 11 | 255 | 41 29 | 293 | 25 04 | 324 |
| 262 | 50 51 | 022 | 53 48 | 079 | 53 45 | 145 | 57 26 | 204 | 28 13 | 256 | 40 34 | 293 | 24 29 | 324 |
| 263 | 51 12 | 021 | 54 46 | 079 | 54 18 | 146 | 57 00 | 206 | 27 15 | 256 | 39 39 | 292 | 23 54 | 324 |
| 264 | 51 33 | 019 | 55 45 | 079 | 54 51 | 148 | 56 34 | 207 | 26 17 | 256 | 38 43 | 292 | 23 18 | 323 |
| 265 | 51°52′ | 018 | 56°44′ | 078 | 55°23′ | 149 | 56°05′ | 209 | 25°19′ | 256 | 37°48′ | 292 | 22°43′ | 323 |
| 266 | 52 10 | 017 | 57 43 | 078 | 55 53 | 150 | 55 36 | 210 | 24 21 | 256 | 36 52 | 292 | 22 06 | 323 |
| 267 | 52 27 | 016 | 58 41 | 078 | 56 22 | 152 | 55 06 | 211 | 23 23 | 256 | 35 56 | 291 | 21 30 | 323 |
| 268 | 52 43 | 015 | 59 40 | 077 | 56 50 | 153 | 54 34 | 212 | 22 25 | 257 | 35 01 | 291 | 20 54 | 322 |
| 269 | 52 58 | 014 | 60 38 | 077 | 57 17 | 154 | 54 01 | 214 | 21 26 | 257 | 34 05 | 291 | 20 17 | 322 |

LAT 3°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEGA | | ✦DENEB | | FOMALHAUT | | ✦Peacock | | Shaula | | ANTARES | | ✦ARCTURUS | |
| 270 | 53°11′ | 012 | 34°48′ | 034 | 11°45′ | 121 | 23°18′ | 159 | 49°28′ | 188 | 53°28′ | 215 | 33°09′ | 291 |
| 271 | 53 23 | 011 | 35 21 | 033 | 12 37 | 121 | 23 40 | 159 | 49 19 | 189 | 52 53 | 216 | 32 13 | 291 |
| 272 | 53 34 | 010 | 35 54 | 033 | 13 28 | 121 | 24 00 | 160 | 49 09 | 190 | 52 17 | 217 | 31 17 | 291 |
| 273 | 53 43 | 008 | 36 26 | 032 | 14 19 | 122 | 24 21 | 160 | 48 58 | 191 | 51 41 | 218 | 30 20 | 290 |
| 274 | 53 52 | 007 | 36 57 | 032 | 15 10 | 122 | 24 41 | 161 | 48 46 | 192 | 51 03 | 219 | 29 24 | 290 |
| 275 | 53°58′ | 006 | 37°28′ | 031 | 16°01′ | 122 | 25°00′ | 161 | 48°32′ | 194 | 50°25′ | 220 | 28°28′ | 290 |
| 276 | 54 04 | 005 | 37 59 | 030 | 16 52 | 122 | 25 19 | 162 | 48 18 | 195 | 49 46 | 221 | 27 32 | 290 |
| 277 | 54 08 | 003 | 38 29 | 030 | 17 43 | 122 | 25 37 | 162 | 48 02 | 196 | 49 06 | 222 | 26 35 | 290 |
| 278 | 54 10 | 002 | 38 58 | 029 | 18 33 | 123 | 25 55 | 163 | 47 45 | 197 | 48 26 | 223 | 25 39 | 290 |
| 279 | 54 12 | 001 | 39 27 | 028 | 19 24 | 123 | 26 13 | 163 | 47 27 | 198 | 47 44 | 224 | 24 43 | 290 |
| 280 | 54°12′ | 359 | 39°55′ | 028 | 20°14′ | 123 | 26°29′ | 164 | 47°08′ | 199 | 47°03′ | 225 | 23°46′ | 290 |
| 281 | 54 10 | 358 | 40 23 | 027 | 21 04 | 123 | 26 46 | 164 | 46 48 | 200 | 46 20 | 225 | 22 50 | 289 |
| 282 | 54 07 | 357 | 40 50 | 026 | 21 54 | 124 | 27 02 | 165 | 46 26 | 201 | 45 37 | 226 | 21 53 | 289 |
| 283 | 54 03 | 355 | 41 16 | 026 | 22 44 | 124 | 27 17 | 166 | 46 04 | 202 | 44 54 | 227 | 20 57 | 289 |
| 284 | 53 57 | 354 | 41 42 | 025 | 23 34 | 124 | 27 31 | 166 | 45 41 | 203 | 44 10 | 228 | 20 00 | 289 |
| | DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | ✦VEGA | |
| 285 | 42°06′ | 024 | 12°30′ | 061 | 24°23′ | 124 | 27°46′ | 167 | 43°25′ | 228 | 67°06′ | 296 | 53°50′ | 353 |
| 286 | 42 31 | 023 | 13 22 | 061 | 25 12 | 125 | 27 59 | 167 | 42 40 | 229 | 66 12 | 295 | 53 42 | 351 |
| 287 | 42 54 | 023 | 14 14 | 061 | 26 02 | 125 | 28 12 | 168 | 41 55 | 230 | 65 17 | 294 | 53 32 | 350 |
| 288 | 43 16 | 022 | 15 07 | 061 | 26 51 | 125 | 28 24 | 168 | 41 09 | 230 | 64 22 | 293 | 53 21 | 349 |
| 289 | 43 38 | 021 | 15 59 | 060 | 27 39 | 126 | 28 36 | 169 | 40 22 | 231 | 63 27 | 292 | 53 09 | 347 |
| 290 | 43°59′ | 020 | 16°51′ | 060 | 28°28′ | 126 | 28°47′ | 170 | 39°36′ | 231 | 62°31′ | 292 | 52°55′ | 346 |
| 291 | 44 19 | 019 | 17 43 | 060 | 29 16 | 127 | 28 58 | 170 | 38 49 | 232 | 61 36 | 291 | 52 40 | 345 |
| 292 | 44 38 | 018 | 18 35 | 060 | 30 04 | 127 | 29 08 | 171 | 38 01 | 233 | 60 40 | 291 | 52 24 | 344 |
| 293 | 44 57 | 017 | 19 27 | 060 | 30 52 | 127 | 29 17 | 171 | 37 13 | 233 | 59 44 | 290 | 52 07 | 343 |
| 294 | 45 14 | 016 | 20 19 | 060 | 31 39 | 128 | 29 26 | 172 | 36 25 | 234 | 58 47 | 289 | 51 48 | 341 |
| 295 | 45°31′ | 016 | 21°10′ | 060 | 32°27′ | 128 | 29°34′ | 173 | 35°37′ | 234 | 57°51′ | 289 | 51°29′ | 340 |
| 296 | 45 46 | 015 | 22 02 | 060 | 33 14 | 129 | 29 41 | 173 | 34 48 | 235 | 56 54 | 289 | 51 08 | 339 |
| 297 | 46 01 | 014 | 22 54 | 059 | 34 00 | 129 | 29 48 | 174 | 33 59 | 235 | 55 57 | 288 | 50 46 | 338 |
| 298 | 46 15 | 013 | 23 45 | 059 | 34 47 | 130 | 29 54 | 174 | 33 10 | 235 | 55 00 | 288 | 50 23 | 337 |
| 299 | 46 27 | 012 | 24 37 | 059 | 35 33 | 130 | 30 00 | 175 | 32 21 | 236 | 54 03 | 287 | 49 59 | 336 |
| 300 | 46°39′ | 011 | 25°28′ | 059 | 36°18′ | 131 | 30°04′ | 176 | 31°31′ | 236 | 53°06′ | 287 | 49°35′ | 335 |
| 301 | 46 50 | 010 | 26 19 | 059 | 37 04 | 131 | 30 09 | 176 | 30 41 | 237 | 52 08 | 287 | 49 09 | 334 |
| 302 | 47 00 | 009 | 27 11 | 059 | 37 49 | 132 | 30 12 | 177 | 29 51 | 237 | 51 11 | 286 | 48 42 | 333 |
| 303 | 47 08 | 008 | 28 02 | 058 | 38 33 | 132 | 30 15 | 178 | 29 01 | 237 | 50 13 | 286 | 48 14 | 332 |
| 304 | 47 16 | 007 | 28 53 | 058 | 39 17 | 133 | 30 17 | 178 | 28 10 | 238 | 49 16 | 286 | 47 46 | 331 |
| 305 | 47°22′ | 006 | 29°43′ | 058 | 40°01′ | 133 | 30°19′ | 179 | 27°19′ | 238 | 48°18′ | 286 | 47°17′ | 330 |
| 306 | 47 28 | 005 | 30 34 | 058 | 40 44 | 134 | 30 20 | 179 | 26 28 | 238 | 47 20 | 285 | 46 46 | 329 |
| 307 | 47 32 | 004 | 31 25 | 057 | 41 27 | 135 | 30 20 | 180 | 25 37 | 239 | 46 22 | 285 | 46 16 | 329 |
| 308 | 47 35 | 003 | 32 15 | 057 | 42 09 | 135 | 30 19 | 181 | 24 46 | 239 | 45 24 | 285 | 45 44 | 328 |
| 309 | 47 38 | 002 | 33 05 | 057 | 42 51 | 136 | 30 18 | 181 | 23 55 | 239 | 44 27 | 285 | 45 12 | 327 |
| 310 | 47°39′ | 001 | 33°55′ | 056 | 43°32′ | 137 | 30°16′ | 182 | 23°03′ | 240 | 43°29′ | 284 | 44°38′ | 326 |
| 311 | 47 39 | 000 | 34 45 | 056 | 44 13 | 138 | 30 14 | 183 | 22 11 | 240 | 42 30 | 284 | 44 05 | 325 |
| 312 | 47 38 | 358 | 35 34 | 056 | 44 53 | 138 | 30 11 | 183 | 21 20 | 240 | 41 32 | 284 | 43 30 | 325 |
| 313 | 47 36 | 357 | 36 24 | 055 | 45 32 | 139 | 30 07 | 184 | 20 28 | 240 | 40 34 | 284 | 42 55 | 324 |
| 314 | 47 32 | 356 | 37 13 | 055 | 46 11 | 140 | 30 03 | 185 | 19 36 | 240 | 39 36 | 284 | 42 20 | 323 |
| | ✦Alpheratz | | ✦FOMALHAUT | | Peacock | | Nunki | | ✦Rasalhague | | VEGA | | DENEB | |
| 315 | 38°02′ | 055 | 46°49′ | 141 | 29°57′ | 185 | 48°12′ | 224 | 38°38′ | 284 | 41°44′ | 323 | 47°28′ | 355 |
| 316 | 38 51 | 054 | 47 26 | 142 | 29 52 | 186 | 47 30 | 225 | 37 40 | 284 | 41 07 | 322 | 47 23 | 354 |
| 317 | 39 39 | 054 | 48 03 | 143 | 29 45 | 186 | 46 48 | 225 | 36 41 | 283 | 40 30 | 321 | 47 16 | 353 |
| 318 | 40 27 | 053 | 48 39 | 144 | 29 38 | 187 | 46 05 | 226 | 35 43 | 283 | 39 52 | 321 | 47 09 | 352 |
| 319 | 41 15 | 053 | 49 14 | 145 | 29 31 | 188 | 45 21 | 227 | 34 45 | 283 | 39 14 | 320 | 47 00 | 351 |
| 320 | 42°03′ | 052 | 49°48′ | 146 | 29°22′ | 188 | 44°37′ | 228 | 33°46′ | 283 | 38°35′ | 320 | 46°50′ | 350 |
| 321 | 42 50 | 052 | 50 21 | 147 | 29 13 | 189 | 43 53 | 228 | 32 48 | 283 | 37 56 | 319 | 46 40 | 349 |
| 322 | 43 37 | 051 | 50 54 | 148 | 29 04 | 189 | 43 08 | 229 | 31 50 | 283 | 37 17 | 318 | 46 28 | 348 |
| 323 | 44 24 | 051 | 51 25 | 149 | 28 54 | 190 | 42 22 | 230 | 30 51 | 283 | 36 37 | 318 | 46 15 | 347 |
| 324 | 45 10 | 050 | 51 56 | 150 | 28 43 | 191 | 41 36 | 230 | 29 53 | 283 | 35 56 | 317 | 46 02 | 346 |
| 325 | 45°56′ | 050 | 52°25′ | 151 | 28°31′ | 191 | 40°50′ | 231 | 28°54′ | 283 | 35°16′ | 317 | 45°47′ | 345 |
| 326 | 46 41 | 049 | 52 53 | 152 | 28 19 | 192 | 40 04 | 231 | 27 56 | 283 | 34 35 | 317 | 45 32 | 344 |
| 327 | 47 26 | 048 | 53 20 | 154 | 28 07 | 192 | 39 16 | 232 | 26 57 | 283 | 33 53 | 316 | 45 15 | 344 |
| 328 | 48 11 | 048 | 53 46 | 155 | 27 54 | 193 | 38 29 | 233 | 25 59 | 283 | 33 12 | 316 | 44 58 | 343 |
| 329 | 48 55 | 047 | 54 11 | 156 | 27 40 | 194 | 37 41 | 233 | 25 00 | 282 | 32 30 | 315 | 44 39 | 342 |
| | ✦Alpheratz | | Diphda | | ✦FOMALHAUT | | Peacock | | ✦ALTAIR | | VEGA | | DENEB | |
| 330 | 49°38′ | 046 | 44°24′ | 119 | 54°34′ | 158 | 27°26′ | 194 | 57°35′ | 282 | 31°47′ | 315 | 44°20′ | 341 |
| 331 | 50 21 | 045 | 45 16 | 119 | 54 56 | 159 | 27 11 | 195 | 56 36 | 282 | 31 05 | 315 | 44 00 | 340 |
| 332 | 51 03 | 045 | 46 08 | 120 | 55 17 | 160 | 26 55 | 195 | 55 38 | 281 | 30 22 | 314 | 43 39 | 339 |
| 333 | 51 45 | 044 | 47 00 | 120 | 55 37 | 162 | 26 39 | 196 | 54 39 | 281 | 29 39 | 314 | 43 18 | 338 |
| 334 | 52 26 | 043 | 47 52 | 121 | 55 55 | 163 | 26 23 | 196 | 53 40 | 281 | 28 55 | 313 | 42 55 | 338 |
| 335 | 53°07′ | 042 | 48°43′ | 122 | 56°11′ | 165 | 26°06′ | 197 | 52°41′ | 281 | 28°12′ | 313 | 42°32′ | 337 |
| 336 | 53 46 | 041 | 49 34 | 122 | 56 26 | 166 | 25 48 | 197 | 51 42 | 281 | 27 28 | 313 | 42 08 | 336 |
| 337 | 54 25 | 040 | 50 24 | 123 | 56 40 | 168 | 25 30 | 198 | 50 43 | 280 | 26 44 | 313 | 41 43 | 335 |
| 338 | 55 03 | 039 | 51 14 | 124 | 56 52 | 169 | 25 11 | 198 | 49 45 | 280 | 26 00 | 312 | 41 17 | 334 |
| 339 | 55 41 | 038 | 52 04 | 125 | 57 02 | 171 | 24 52 | 199 | 48 46 | 280 | 25 15 | 312 | 40 51 | 334 |
| 340 | 56°17′ | 037 | 52°53′ | 125 | 57°10′ | 172 | 24°33′ | 199 | 47°47′ | 280 | 24°31′ | 312 | 40°24′ | 333 |
| 341 | 56 52 | 036 | 53 41 | 126 | 57 18 | 174 | 24 13 | 200 | 46 48 | 280 | 23 46 | 311 | 39 57 | 332 |
| 342 | 57 27 | 034 | 54 29 | 127 | 57 23 | 176 | 23 52 | 200 | 45 48 | 280 | 23 01 | 311 | 39 29 | 332 |
| 343 | 58 00 | 033 | 55 17 | 128 | 57 27 | 177 | 23 31 | 201 | 44 49 | 280 | 22 16 | 311 | 39 00 | 331 |
| 344 | 58 32 | 032 | 56 04 | 129 | 57 29 | 179 | 23 10 | 201 | 43 50 | 279 | 21 30 | 311 | 38 30 | 330 |
| | Alpheratz | | ✦Hamal | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 345 | 59°03′ | 030 | 40°07′ | 061 | 20°30′ | 135 | 21°56′ | 158 | 57°29′ | 181 | 42°51′ | 279 | 38°01′ | 330 |
| 346 | 59 33 | 029 | 41 00 | 061 | 21 12 | 136 | 22 18 | 159 | 57 27 | 182 | 41 52 | 279 | 37 30 | 329 |
| 347 | 60 01 | 028 | 41 52 | 061 | 21 54 | 136 | 22 40 | 159 | 57 24 | 184 | 40 53 | 279 | 36 59 | 328 |
| 348 | 60 28 | 026 | 42 44 | 060 | 22 36 | 136 | 23 01 | 159 | 57 20 | 185 | 39 54 | 279 | 36 27 | 328 |
| 349 | 60 54 | 024 | 43 36 | 060 | 23 17 | 137 | 23 22 | 160 | 57 13 | 187 | 38 55 | 279 | 35 55 | 327 |
| 350 | 61°18′ | 023 | 44°28′ | 059 | 23°58′ | 137 | 23°42′ | 160 | 57°05′ | 189 | 37°55′ | 279 | 35°23′ | 327 |
| 351 | 61 40 | 021 | 45 19 | 059 | 24 39 | 137 | 24 02 | 161 | 56 55 | 190 | 36 56 | 279 | 34 50 | 326 |
| 352 | 62 01 | 020 | 46 10 | 058 | 25 19 | 138 | 24 22 | 161 | 56 44 | 192 | 35 57 | 279 | 34 16 | 326 |
| 353 | 62 20 | 018 | 47 01 | 058 | 25 59 | 138 | 24 41 | 162 | 56 31 | 193 | 34 58 | 279 | 33 42 | 325 |
| 354 | 62 38 | 016 | 47 52 | 057 | 26 39 | 139 | 24 59 | 162 | 56 17 | 195 | 33 59 | 279 | 33 08 | 325 |
| 355 | 62°53′ | 014 | 48°42′ | 057 | 27°19′ | 139 | 25°17′ | 163 | 56°01′ | 196 | 32°59′ | 279 | 32°33′ | 324 |
| 356 | 63 07 | 012 | 49 32 | 056 | 27 58 | 139 | 25 35 | 163 | 55 43 | 198 | 32 00 | 279 | 31 58 | 324 |
| 357 | 63 19 | 010 | 50 22 | 056 | 28 37 | 140 | 25 52 | 164 | 55 25 | 199 | 31 01 | 279 | 31 22 | 323 |
| 358 | 63 29 | 009 | 51 11 | 055 | 29 15 | 140 | 26 08 | 164 | 55 04 | 200 | 30 02 | 279 | 30 46 | 323 |
| 359 | 63 36 | 007 | 52 00 | 054 | 29 53 | 141 | 26 24 | 165 | 54 43 | 202 | 29 02 | 279 | 30 10 | 323 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Alpheratz | | ✦Mirfak | | ALDEBARAN | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 62°43′ | 004 | 25°20′ | 034 | 20°26′ | 073 | 27°38′ | 165 | 55°15′ | 204 | 27°54′ | 279 | 28°46′ | 322 |
| 1 | 62 46 | 003 | 25 53 | 033 | 21 23 | 073 | 27 53 | 166 | 54 50 | 205 | 26 55 | 279 | 28 09 | 322 |
| 2 | 62 48 | 001 | 26 26 | 033 | 22 21 | 073 | 28 07 | 166 | 54 24 | 206 | 25 56 | 279 | 27 32 | 322 |
| 3 | 62 48 | 359 | 26 58 | 033 | 23 18 | 073 | 28 21 | 167 | 53 56 | 208 | 24 56 | 279 | 26 55 | 321 |
| 4 | 62 45 | 357 | 27 31 | 032 | 24 15 | 073 | 28 34 | 167 | 53 28 | 209 | 23 57 | 279 | 26 17 | 321 |
| 5 | 62°41′ | 355 | 28°02′ | 032 | 25°13′ | 073 | 28°47′ | 168 | 52°59′ | 210 | 22°58′ | 279 | 25°39′ | 321 |
| 6 | 62 35 | 353 | 28 34 | 031 | 26 10 | 073 | 28 59 | 169 | 52 28 | 211 | 21 59 | 279 | 25 01 | 320 |
| 7 | 62 27 | 351 | 29 05 | 031 | 27 07 | 072 | 29 11 | 169 | 51 56 | 212 | 20 59 | 279 | 24 23 | 320 |
| 8 | 62 16 | 349 | 29 36 | 031 | 28 04 | 072 | 29 22 | 170 | 51 24 | 214 | 20 00 | 279 | 23 44 | 320 |
| 9 | 62 04 | 348 | 30 06 | 030 | 29 01 | 072 | 29 32 | 170 | 50 50 | 215 | 19 01 | 279 | 23 05 | 319 |
| 10 | 61°51′ | 346 | 30°36′ | 030 | 29°58′ | 072 | 29°42′ | 171 | 50°16′ | 216 | 18°02′ | 279 | 22°26′ | 319 |
| 11 | 61 35 | 344 | 31 05 | 029 | 30 55 | 072 | 29 51 | 172 | 49 40 | 217 | 17 02 | 279 | 21 46 | 319 |
| 12 | 61 18 | 342 | 31 34 | 029 | 31 52 | 072 | 30 00 | 172 | 49 04 | 218 | 16 03 | 279 | 21 07 | 319 |
| 13 | 60 58 | 341 | 32 03 | 028 | 32 49 | 072 | 30 07 | 173 | 48 27 | 218 | 15 04 | 279 | 20 27 | 318 |
| 14 | 60 38 | 339 | 32 31 | 028 | 33 46 | 071 | 30 15 | 173 | 47 49 | 219 | 14 04 | 279 | 19 47 | 318 |
| | CAPELLA | | ALDEBARAN | | ✦RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦Alpheratz | |
| 15 | 18°53′ | 042 | 34°43′ | 071 | 25°31′ | 100 | 30°21′ | 174 | 47°11′ | 220 | 40°58′ | 281 | 60°15′ | 337 |
| 16 | 19 32 | 041 | 35 40 | 071 | 26 30 | 100 | 30 27 | 175 | 46 32 | 221 | 39 59 | 281 | 59 52 | 336 |
| 17 | 20 12 | 041 | 36 36 | 071 | 27 29 | 100 | 30 33 | 175 | 45 52 | 222 | 39 00 | 281 | 59 26 | 334 |
| 18 | 20 51 | 041 | 37 33 | 071 | 28 28 | 100 | 30 37 | 176 | 45 12 | 223 | 38 01 | 281 | 59 00 | 333 |
| 19 | 21 30 | 041 | 38 29 | 070 | 29 27 | 101 | 30 41 | 176 | 44 31 | 223 | 37 02 | 281 | 58 31 | 331 |
| 20 | 22°09′ | 040 | 39°26′ | 070 | 30°26′ | 101 | 30°45′ | 177 | 43°49′ | 224 | 36°03′ | 281 | 58°02′ | 330 |
| 21 | 22 47 | 040 | 40 22 | 070 | 31 24 | 101 | 30 47 | 178 | 43 07 | 225 | 35 05 | 281 | 57 32 | 329 |
| 22 | 23 26 | 040 | 41 18 | 070 | 32 23 | 101 | 30 49 | 178 | 42 25 | 226 | 34 06 | 281 | 57 00 | 327 |
| 23 | 24 04 | 039 | 42 14 | 069 | 33 22 | 101 | 30 51 | 179 | 41 42 | 226 | 33 07 | 281 | 56 27 | 326 |
| 24 | 24 42 | 039 | 43 11 | 069 | 34 21 | 101 | 30 52 | 180 | 40 58 | 227 | 32 08 | 281 | 55 53 | 325 |
| 25 | 25°20′ | 039 | 44°06′ | 069 | 35°20′ | 101 | 30°52′ | 180 | 40°14′ | 228 | 31°09′ | 280 | 55°18′ | 324 |
| 26 | 25 57 | 038 | 45 02 | 068 | 36 19 | 102 | 30 51 | 181 | 39 30 | 228 | 30 10 | 280 | 54 42 | 323 |
| 27 | 26 34 | 038 | 45 58 | 068 | 37 17 | 102 | 30 50 | 182 | 38 45 | 229 | 29 11 | 280 | 54 05 | 322 |
| 28 | 27 11 | 038 | 46 53 | 068 | 38 16 | 102 | 30 48 | 182 | 38 00 | 229 | 28 12 | 280 | 53 28 | 321 |
| 29 | 27 47 | 037 | 47 49 | 067 | 39 15 | 102 | 30 45 | 183 | 37 14 | 230 | 27 13 | 280 | 52 49 | 320 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 38°43′ | 018 | 28°24′ | 037 | 48°44′ | 067 | 40°13′ | 102 | 30°42′ | 183 | 36°28′ | 230 | 52°10′ | 319 |
| 31 | 39 01 | 017 | 28 59 | 037 | 49 39 | 066 | 41 12 | 103 | 30 38 | 184 | 35 42 | 231 | 51 30 | 318 |
| 32 | 39 18 | 016 | 29 35 | 036 | 50 34 | 066 | 42 10 | 103 | 30 34 | 185 | 34 55 | 231 | 50 49 | 317 |
| 33 | 39 34 | 015 | 30 10 | 036 | 51 29 | 066 | 43 09 | 103 | 30 29 | 185 | 34 08 | 232 | 50 08 | 316 |
| 34 | 39 50 | 015 | 30 45 | 035 | 52 23 | 065 | 44 07 | 103 | 30 23 | 186 | 33 21 | 232 | 49 26 | 315 |
| 35 | 40°04′ | 014 | 31°19′ | 035 | 53°18′ | 065 | 45°05′ | 104 | 30°16′ | 187 | 32°33′ | 233 | 48°44′ | 314 |
| 36 | 40 18 | 013 | 31 53 | 034 | 54 12 | 064 | 46 03 | 104 | 30 09 | 187 | 31 46 | 233 | 48 01 | 314 |
| 37 | 40 31 | 012 | 32 27 | 034 | 55 05 | 063 | 47 02 | 104 | 30 01 | 188 | 30 58 | 233 | 47 17 | 313 |
| 38 | 40 44 | 011 | 33 00 | 033 | 55 59 | 063 | 48 00 | 105 | 29 53 | 188 | 30 09 | 234 | 46 33 | 312 |
| 39 | 40 55 | 011 | 33 33 | 033 | 56 52 | 062 | 48 58 | 105 | 29 44 | 189 | 29 21 | 234 | 45 48 | 312 |
| 40 | 41°06′ | 010 | 34°05′ | 032 | 57°45′ | 061 | 49°56′ | 105 | 29°34′ | 190 | 28°32′ | 235 | 45°03′ | 311 |
| 41 | 41 15 | 009 | 34 37 | 032 | 58 37 | 061 | 50 53 | 106 | 29 24 | 190 | 27 43 | 235 | 44 18 | 310 |
| 42 | 41 24 | 008 | 35 08 | 031 | 59 29 | 060 | 51 51 | 106 | 29 13 | 191 | 26 54 | 235 | 43 32 | 310 |
| 43 | 41 32 | 007 | 35 39 | 031 | 60 21 | 059 | 52 49 | 106 | 29 02 | 191 | 26 05 | 236 | 42 46 | 309 |
| 44 | 41 39 | 006 | 36 09 | 030 | 61 12 | 058 | 53 46 | 107 | 28 50 | 192 | 25 15 | 236 | 41 59 | 309 |
| | CAPELLA | | ✦PROCYON | | SIRIUS | | CANOPUS | | ✦ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 36°39′ | 029 | 20°01′ | 085 | 31°12′ | 111 | 20°38′ | 150 | 28°37′ | 192 | 51°11′ | 238 | 41°12′ | 308 |
| 46 | 37 08 | 029 | 21 00 | 085 | 32 08 | 111 | 21 08 | 150 | 28 24 | 193 | 50 20 | 238 | 40 25 | 308 |
| 47 | 37 36 | 028 | 22 00 | 085 | 33 04 | 112 | 21 38 | 150 | 28 10 | 194 | 49 29 | 239 | 39 37 | 307 |
| 48 | 38 04 | 027 | 23 00 | 085 | 34 00 | 112 | 22 08 | 151 | 27 56 | 194 | 48 37 | 240 | 38 49 | 307 |
| 49 | 38 32 | 027 | 24 00 | 085 | 34 55 | 112 | 22 37 | 151 | 27 41 | 195 | 47 45 | 240 | 38 01 | 306 |
| 50 | 38°58′ | 026 | 25°00′ | 085 | 35°51′ | 112 | 23°05′ | 152 | 27°26′ | 195 | 46°53′ | 241 | 37°13′ | 306 |
| 51 | 39 24 | 025 | 25 59 | 085 | 36 46 | 113 | 23 33 | 152 | 27 10 | 196 | 46 00 | 241 | 36 24 | 306 |
| 52 | 39 50 | 025 | 26 59 | 085 | 37 42 | 113 | 24 01 | 153 | 26 53 | 196 | 45 08 | 242 | 35 35 | 305 |
| 53 | 40 15 | 024 | 27 59 | 085 | 38 37 | 113 | 24 29 | 153 | 26 36 | 197 | 44 15 | 242 | 34 46 | 305 |
| 54 | 40 39 | 023 | 28 59 | 085 | 39 32 | 114 | 24 56 | 153 | 26 18 | 197 | 43 21 | 243 | 33 56 | 304 |
| 55 | 41°02′ | 022 | 29°58′ | 085 | 40°26′ | 114 | 25°23′ | 154 | 26°00′ | 198 | 42°28′ | 243 | 33°07′ | 304 |
| 56 | 41 24 | 022 | 30 58 | 085 | 41 21 | 115 | 25 49 | 154 | 25 42 | 198 | 41 34 | 244 | 32 17 | 304 |
| 57 | 41 46 | 021 | 31 58 | 085 | 42 16 | 115 | 26 15 | 155 | 25 23 | 199 | 40 40 | 244 | 31 27 | 303 |
| 58 | 42 07 | 020 | 32 58 | 085 | 43 10 | 115 | 26 40 | 155 | 25 03 | 199 | 39 46 | 245 | 30 37 | 303 |
| 59 | 42 27 | 019 | 33 57 | 085 | 44 04 | 116 | 27 05 | 156 | 24 43 | 200 | 38 52 | 245 | 29 47 | 303 |
| | ✦CAPELLA | | PROCYON | | ✦SIRIUS | | CANOPUS | | ACHERNAR | | ✦Diphda | | Alpheratz | |
| 60 | 42°47′ | 018 | 34°57′ | 085 | 44°58′ | 116 | 27°29′ | 156 | 24°23′ | 200 | 37°57′ | 245 | 28°56′ | 303 |
| 61 | 43 05 | 018 | 35 57 | 085 | 45 52 | 117 | 27 53 | 157 | 24 02 | 201 | 37 03 | 246 | 28 06 | 302 |
| 62 | 43 23 | 017 | 36 56 | 085 | 46 45 | 117 | 28 16 | 157 | 23 41 | 201 | 36 08 | 246 | 27 15 | 302 |
| 63 | 43 40 | 016 | 37 56 | 085 | 47 38 | 118 | 28 39 | 158 | 23 19 | 202 | 35 13 | 246 | 26 24 | 302 |
| 64 | 43 56 | 015 | 38 56 | 085 | 48 31 | 118 | 29 02 | 158 | 22 57 | 202 | 34 18 | 247 | 25 33 | 302 |
| 65 | 44°11′ | 014 | 39°56′ | 085 | 49°24′ | 119 | 29°23′ | 159 | 22°34′ | 202 | 33°23′ | 247 | 24°42′ | 301 |
| 66 | 44 25 | 013 | 40 55 | 085 | 50 16 | 120 | 29 45 | 160 | 22 11 | 203 | 32 28 | 247 | 23 51 | 301 |
| 67 | 44 38 | 012 | 41 55 | 085 | 51 08 | 120 | 30 05 | 160 | 21 47 | 203 | 31 33 | 248 | 22 59 | 301 |
| 68 | 44 50 | 011 | 42 55 | 085 | 52 00 | 121 | 30 25 | 161 | 21 24 | 204 | 30 37 | 248 | 22 08 | 301 |
| 69 | 45 02 | 010 | 43 55 | 085 | 52 51 | 122 | 30 45 | 161 | 20 59 | 204 | 29 41 | 248 | 21 16 | 301 |
| 70 | 45°12′ | 009 | 44°54′ | 085 | 53°42′ | 122 | 31°04′ | 162 | 20°35′ | 204 | 28°46′ | 248 | 20°25′ | 301 |
| 71 | 45 21 | 008 | 45 54 | 085 | 54 32 | 123 | 31 22 | 162 | 20 10 | 205 | 27 50 | 249 | 19 33 | 300 |
| 72 | 45 30 | 007 | 46 54 | 085 | 55 22 | 124 | 31 40 | 163 | 19 45 | 205 | 26 54 | 249 | 18 41 | 300 |
| 73 | 45 37 | 006 | 47 53 | 084 | 56 12 | 125 | 31 57 | 164 | 19 19 | 205 | 25 58 | 249 | 17 50 | 300 |
| 74 | 45 43 | 006 | 48 53 | 084 | 57 01 | 126 | 32 14 | 164 | 18 53 | 206 | 25 02 | 249 | 16 58 | 300 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 45°48′ | 005 | 42°32′ | 053 | 49°53′ | 084 | 57°49′ | 127 | 32°29′ | 165 | 39°32′ | 210 | 43°13′ | 301 |
| 76 | 45 53 | 004 | 43 20 | 052 | 50 52 | 084 | 58 37 | 128 | 32 45 | 166 | 39 02 | 211 | 42 21 | 301 |
| 77 | 45 56 | 003 | 44 07 | 052 | 51 52 | 084 | 59 24 | 129 | 32 59 | 166 | 38 31 | 211 | 41 30 | 300 |
| 78 | 45 58 | 002 | 44 54 | 051 | 52 52 | 084 | 60 11 | 130 | 33 13 | 167 | 38 00 | 212 | 40 38 | 300 |
| 79 | 45 59 | 001 | 45 40 | 051 | 53 51 | 084 | 60 56 | 131 | 33 26 | 168 | 37 27 | 213 | 39 46 | 299 |
| 80 | 45°59′ | 000 | 46°26′ | 050 | 54°51′ | 084 | 61°41′ | 132 | 33°39′ | 168 | 36°55′ | 213 | 38°53′ | 299 |
| 81 | 45 58 | 359 | 47 12 | 049 | 55 51 | 084 | 62 25 | 134 | 33 50 | 169 | 36 21 | 214 | 38 01 | 299 |
| 82 | 45 56 | 358 | 47 57 | 049 | 56 50 | 084 | 63 08 | 135 | 34 01 | 170 | 35 48 | 215 | 37 08 | 298 |
| 83 | 45 53 | 357 | 48 42 | 048 | 57 50 | 083 | 63 50 | 136 | 34 12 | 170 | 35 13 | 215 | 36 15 | 298 |
| 84 | 45 49 | 356 | 49 26 | 047 | 58 49 | 083 | 64 30 | 138 | 34 21 | 171 | 34 38 | 216 | 35 22 | 298 |
| 85 | 45°44′ | 355 | 50°10′ | 046 | 59°49′ | 083 | 65°10′ | 140 | 34°30′ | 172 | 34°03′ | 217 | 34°29′ | 297 |
| 86 | 45 37 | 354 | 50 53 | 045 | 60 48 | 083 | 65 48 | 141 | 34 38 | 173 | 33 27 | 217 | 33 36 | 297 |
| 87 | 45 30 | 353 | 51 35 | 045 | 61 48 | 083 | 66 25 | 143 | 34 46 | 173 | 32 50 | 218 | 32 42 | 297 |
| 88 | 45 22 | 352 | 52 17 | 044 | 62 47 | 083 | 67 00 | 145 | 34 52 | 174 | 32 13 | 218 | 31 49 | 297 |
| 89 | 45 13 | 351 | 52 58 | 043 | 63 47 | 082 | 67 33 | 147 | 34 58 | 175 | 31 36 | 219 | 30 55 | 296 |

LAT 2°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 53°39′ | 042 | 27°27′ | 078 | 27°57′ | 143 | 35°03′ | 175 | 30°58′ | 219 | 64°57′ | 307 | 45°02′ | 350 |
| 91 | 54 18 | 041 | 28 26 | 078 | 28 32 | 143 | 35 07 | 176 | 30 20 | 220 | 64 08 | 306 | 44 51 | 349 |
| 92 | 54 57 | 040 | 29 24 | 077 | 29 08 | 144 | 35 11 | 177 | 29 42 | 220 | 63 19 | 304 | 44 39 | 348 |
| 93 | 55 35 | 039 | 30 23 | 077 | 29 43 | 144 | 35 14 | 178 | 29 03 | 221 | 62 29 | 303 | 44 26 | 347 |
| 94 | 56 12 | 038 | 31 21 | 077 | 30 18 | 145 | 35 16 | 178 | 28 24 | 221 | 61 39 | 302 | 44 12 | 346 |
| 95 | 56°48′ | 036 | 32°20′ | 077 | 30°52′ | 145 | 35°17′ | 179 | 27°44′ | 222 | 60°48′ | 301 | 43°57′ | 345 |
| 96 | 57 24 | 035 | 33 18 | 077 | 31 26 | 146 | 35 18 | 180 | 27 04 | 222 | 59 56 | 301 | 43 41 | 344 |
| 97 | 57 58 | 034 | 34 17 | 077 | 31 59 | 147 | 35 17 | 181 | 26 24 | 222 | 59 05 | 300 | 43 24 | 343 |
| 98 | 58 31 | 033 | 35 15 | 077 | 32 32 | 147 | 35 16 | 181 | 25 43 | 223 | 58 12 | 299 | 43 07 | 342 |
| 99 | 59 02 | 031 | 36 13 | 077 | 33 04 | 148 | 35 14 | 182 | 25 02 | 223 | 57 20 | 298 | 42 48 | 342 |
| 100 | 59°33′ | 030 | 37°12′ | 077 | 33°36′ | 148 | 35°12′ | 183 | 24°21′ | 224 | 56°27′ | 298 | 42°29′ | 341 |
| 101 | 60 02 | 028 | 38 10 | 076 | 34 07 | 149 | 35 08 | 184 | 23 40 | 224 | 55 33 | 297 | 42 09 | 340 |
| 102 | 60 30 | 027 | 39 08 | 076 | 34 38 | 149 | 35 04 | 184 | 22 58 | 224 | 54 40 | 296 | 41 48 | 339 |
| 103 | 60 56 | 025 | 40 07 | 076 | 35 08 | 150 | 34 59 | 185 | 22 16 | 225 | 53 46 | 296 | 41 26 | 338 |
| 104 | 61 21 | 024 | 41 05 | 076 | 35 38 | 151 | 34 53 | 186 | 21 34 | 225 | 52 52 | 295 | 41 04 | 338 |
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ✦ALDEBARAN | | CAPELLA | |
| 105 | 61°45′ | 022 | 42°03′ | 076 | 36°07′ | 151 | 34°47′ | 187 | 62°02′ | 248 | 51°57′ | 295 | 40°40′ | 337 |
| 106 | 62 06 | 020 | 43 01 | 076 | 36 35 | 152 | 34 40 | 187 | 61 06 | 249 | 51 03 | 294 | 40 16 | 336 |
| 107 | 62 26 | 019 | 43 59 | 075 | 37 03 | 153 | 34 32 | 188 | 60 10 | 250 | 50 08 | 294 | 39 52 | 335 |
| 108 | 62 45 | 017 | 44 57 | 075 | 37 30 | 154 | 34 23 | 189 | 59 13 | 250 | 49 13 | 293 | 39 26 | 335 |
| 109 | 63 01 | 015 | 45 55 | 075 | 37 56 | 154 | 34 14 | 189 | 58 17 | 251 | 48 18 | 293 | 39 00 | 334 |
| 110 | 63°16′ | 013 | 46°53′ | 075 | 38°22′ | 155 | 34°03′ | 190 | 57°20′ | 251 | 47°23′ | 293 | 38°34′ | 333 |
| 111 | 63 28 | 011 | 47 51 | 074 | 38 47 | 156 | 33 52 | 191 | 56 23 | 252 | 46 27 | 292 | 38 06 | 333 |
| 112 | 63 39 | 009 | 48 48 | 074 | 39 11 | 157 | 33 41 | 192 | 55 26 | 252 | 45 32 | 292 | 37 38 | 332 |
| 113 | 63 48 | 007 | 49 46 | 074 | 39 35 | 157 | 33 29 | 192 | 54 29 | 253 | 44 36 | 291 | 37 10 | 331 |
| 114 | 63 54 | 005 | 50 44 | 074 | 39 58 | 158 | 33 16 | 193 | 53 31 | 253 | 43 40 | 291 | 36 41 | 331 |
| 115 | 63°59′ | 003 | 51°41′ | 073 | 40°19′ | 159 | 33°02′ | 194 | 52°34′ | 254 | 42°44′ | 291 | 36°11′ | 330 |
| 116 | 64 01 | 001 | 52 38 | 073 | 40 41 | 160 | 32 47 | 194 | 51 36 | 254 | 41 48 | 291 | 35 41 | 329 |
| 117 | 64 01 | 359 | 53 36 | 073 | 41 01 | 161 | 32 32 | 195 | 50 38 | 255 | 40 52 | 290 | 35 10 | 329 |
| 118 | 63 59 | 357 | 54 33 | 072 | 41 20 | 161 | 32 17 | 196 | 49 41 | 255 | 39 55 | 290 | 34 39 | 328 |
| 119 | 63 55 | 355 | 55 30 | 072 | 41 39 | 162 | 32 00 | 196 | 48 43 | 255 | 38 59 | 290 | 34 07 | 328 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 120 | 21°03′ | 022 | 31°54′ | 074 | 41°57′ | 163 | 31°43′ | 197 | 63°50′ | 224 | 58°42′ | 281 | 33°35′ | 327 |
| 121 | 21 24 | 021 | 32 52 | 074 | 42 13 | 164 | 31 26 | 197 | 63 08 | 225 | 57 44 | 281 | 33 02 | 327 |
| 122 | 21 46 | 021 | 33 49 | 074 | 42 29 | 165 | 31 08 | 198 | 62 25 | 226 | 56 45 | 280 | 32 29 | 326 |
| 123 | 22 07 | 021 | 34 47 | 074 | 42 44 | 166 | 30 49 | 199 | 61 41 | 228 | 55 46 | 280 | 31 56 | 326 |
| 124 | 22 28 | 020 | 35 45 | 074 | 42 58 | 167 | 30 29 | 199 | 60 57 | 229 | 54 47 | 280 | 31 22 | 325 |
| 125 | 22°49′ | 020 | 36°42′ | 073 | 43°11′ | 168 | 30°09′ | 200 | 60°11′ | 230 | 53°48′ | 280 | 30°47′ | 325 |
| 126 | 23 09 | 019 | 37 39 | 073 | 43 24 | 169 | 29 49 | 200 | 59 24 | 231 | 52 48 | 280 | 30 13 | 324 |
| 127 | 23 29 | 019 | 38 37 | 073 | 43 35 | 170 | 29 28 | 201 | 58 37 | 232 | 51 49 | 279 | 29 38 | 324 |
| 128 | 23 48 | 019 | 39 34 | 073 | 43 45 | 171 | 29 06 | 201 | 57 50 | 233 | 50 50 | 279 | 29 02 | 324 |
| 129 | 24 07 | 018 | 40 31 | 073 | 43 54 | 172 | 28 44 | 202 | 57 01 | 234 | 49 51 | 279 | 28 26 | 323 |
| 130 | 24°26′ | 018 | 41°29′ | 072 | 44°02′ | 173 | 28°21′ | 203 | 56°12′ | 235 | 48°52′ | 279 | 27°50′ | 323 |
| 131 | 24 44 | 018 | 42 26 | 072 | 44 09 | 174 | 27 58 | 203 | 55 23 | 236 | 47 52 | 279 | 27 14 | 322 |
| 132 | 25 02 | 017 | 43 23 | 072 | 44 15 | 175 | 27 34 | 204 | 54 33 | 237 | 46 53 | 279 | 26 37 | 322 |
| 133 | 25 19 | 017 | 44 20 | 072 | 44 20 | 176 | 27 09 | 204 | 53 42 | 238 | 45 54 | 279 | 26 00 | 322 |
| 134 | 25 37 | 016 | 45 17 | 071 | 44 24 | 177 | 26 45 | 205 | 52 51 | 238 | 44 55 | 278 | 25 22 | 321 |
| | Dubhe | | ✦SPICA | | ACRUX | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 25°53′ | 016 | 22°32′ | 103 | 14°17′ | 159 | 26°19′ | 205 | 52°00′ | 239 | 43°55′ | 278 | 24°45′ | 321 |
| 136 | 26 09 | 015 | 23 30 | 103 | 14 39 | 159 | 25 54 | 206 | 51 08 | 240 | 42 56 | 278 | 24 07 | 321 |
| 137 | 26 25 | 015 | 24 28 | 103 | 15 00 | 159 | 25 28 | 206 | 50 16 | 240 | 41 57 | 278 | 23 29 | 320 |
| 138 | 26 40 | 015 | 25 27 | 103 | 15 21 | 159 | 25 01 | 207 | 49 24 | 241 | 40 57 | 278 | 22 50 | 320 |
| 139 | 26 55 | 014 | 26 25 | 104 | 15 42 | 160 | 24 34 | 207 | 48 31 | 242 | 39 58 | 278 | 22 12 | 320 |
| 140 | 27°10′ | 014 | 27°23′ | 104 | 16°03′ | 160 | 24°07′ | 207 | 47°39′ | 242 | 38°59′ | 278 | 21°33′ | 319 |
| 141 | 27 24 | 013 | 28 21 | 104 | 16 23 | 160 | 23 39 | 208 | 46 45 | 243 | 37 59 | 278 | 20 54 | 319 |
| 142 | 27 37 | 013 | 29 20 | 104 | 16 44 | 161 | 23 11 | 208 | 45 52 | 243 | 37 00 | 278 | 20 14 | 319 |
| 143 | 27 50 | 012 | 30 18 | 104 | 17 03 | 161 | 22 42 | 209 | 44 58 | 244 | 36 00 | 278 | 19 35 | 319 |
| 144 | 28 02 | 012 | 31 16 | 104 | 17 23 | 161 | 22 13 | 209 | 44 04 | 244 | 35 01 | 278 | 18 55 | 319 |
| 145 | 28°14′ | 011 | 32°14′ | 105 | 17°42′ | 162 | 21°44′ | 209 | 43°10′ | 245 | 34°01′ | 278 | 18°16′ | 318 |
| 146 | 28 26 | 011 | 33 12 | 105 | 18 01 | 162 | 21 14 | 210 | 42 16 | 245 | 33 02 | 278 | 17 36 | 318 |
| 147 | 28 37 | 010 | 34 10 | 105 | 18 19 | 162 | 20 44 | 210 | 41 22 | 245 | 32 03 | 277 | 16 55 | 318 |
| 148 | 28 47 | 010 | 35 08 | 105 | 18 37 | 163 | 20 14 | 211 | 40 27 | 246 | 31 03 | 277 | 16 15 | 318 |
| 149 | 28 57 | 009 | 36 05 | 106 | 18 55 | 163 | 19 43 | 211 | 39 32 | 246 | 30 04 | 277 | 15 35 | 318 |
| | ✦Dubhe | | ARCTURUS | | ✦SPICA | | ACRUX | | ✦SIRIUS | | PROCYON | | POLLUX | |
| 150 | 29°06′ | 009 | 25°03′ | 070 | 37°03′ | 106 | 19°12′ | 163 | 38°37′ | 247 | 55°01′ | 276 | 48°53′ | 312 |
| 151 | 29 15 | 008 | 25 59 | 070 | 38 01 | 106 | 19 29 | 164 | 37 42 | 247 | 54 01 | 276 | 48 09 | 312 |
| 152 | 29 24 | 008 | 26 55 | 070 | 38 58 | 106 | 19 46 | 164 | 36 47 | 247 | 53 02 | 276 | 47 24 | 311 |
| 153 | 29 31 | 007 | 27 52 | 069 | 39 56 | 107 | 20 02 | 164 | 35 51 | 248 | 52 02 | 276 | 46 38 | 310 |
| 154 | 29 39 | 007 | 28 48 | 069 | 40 53 | 107 | 20 18 | 165 | 34 56 | 248 | 51 02 | 276 | 45 52 | 310 |
| 155 | 29°45′ | 006 | 29°44′ | 069 | 41°51′ | 107 | 20°34′ | 165 | 34°00′ | 248 | 50°03′ | 276 | 45°06′ | 309 |
| 156 | 29 51 | 006 | 30 40 | 069 | 42 48 | 107 | 20 49 | 166 | 33 04 | 248 | 49 03 | 276 | 44 19 | 308 |
| 157 | 29 57 | 005 | 31 36 | 069 | 43 45 | 108 | 21 03 | 166 | 32 09 | 249 | 48 03 | 276 | 43 32 | 308 |
| 158 | 30 02 | 005 | 32 31 | 069 | 44 42 | 108 | 21 18 | 166 | 31 13 | 249 | 47 04 | 275 | 42 45 | 307 |
| 159 | 30 06 | 004 | 33 27 | 068 | 45 39 | 108 | 21 31 | 167 | 30 17 | 249 | 46 04 | 275 | 41 57 | 307 |
| 160 | 30°10′ | 003 | 34°23′ | 068 | 46°36′ | 109 | 21°45′ | 167 | 29°21′ | 249 | 45°04′ | 275 | 41°09′ | 306 |
| 161 | 30 13 | 003 | 35 18 | 068 | 47 33 | 109 | 21 58 | 168 | 28 24 | 250 | 44 04 | 275 | 40 20 | 306 |
| 162 | 30 16 | 002 | 36 14 | 068 | 48 29 | 110 | 22 10 | 168 | 27 28 | 250 | 43 05 | 275 | 39 31 | 305 |
| 163 | 30 18 | 002 | 37 09 | 067 | 49 26 | 110 | 22 22 | 169 | 26 32 | 250 | 42 05 | 275 | 38 42 | 305 |
| 164 | 30 20 | 001 | 38 05 | 067 | 50 22 | 110 | 22 34 | 169 | 25 35 | 250 | 41 05 | 275 | 37 53 | 305 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 30°21′ | 001 | 39°00′ | 067 | 51°18′ | 111 | 22°45′ | 169 | 38°06′ | 205 | 40°06′ | 275 | 37°04′ | 304 |
| 166 | 30 21 | 000 | 39 55 | 067 | 52 14 | 111 | 22 56 | 170 | 37 40 | 206 | 39 06 | 275 | 36 14 | 304 |
| 167 | 30 21 | 000 | 40 50 | 066 | 53 10 | 112 | 23 06 | 170 | 37 13 | 207 | 38 06 | 275 | 35 24 | 303 |
| 168 | 30 20 | 359 | 41 45 | 066 | 54 06 | 112 | 23 16 | 171 | 36 45 | 208 | 37 06 | 275 | 34 34 | 303 |
| 169 | 30 19 | 358 | 42 40 | 066 | 55 01 | 113 | 23 25 | 171 | 36 17 | 208 | 36 07 | 275 | 33 44 | 303 |
| 170 | 30°17′ | 358 | 43°34′ | 065 | 55°56′ | 114 | 23°34′ | 172 | 35°48′ | 209 | 35°07′ | 275 | 32°53′ | 302 |
| 171 | 30 15 | 357 | 44 28 | 065 | 56 51 | 114 | 23 42 | 172 | 35 19 | 210 | 34 07 | 275 | 32 02 | 302 |
| 172 | 30 12 | 357 | 45 23 | 065 | 57 45 | 115 | 23 50 | 173 | 34 49 | 210 | 33 07 | 275 | 31 12 | 302 |
| 173 | 30 08 | 356 | 46 17 | 064 | 58 39 | 116 | 23 58 | 173 | 34 19 | 211 | 32 08 | 275 | 30 21 | 302 |
| 174 | 30 04 | 356 | 47 11 | 064 | 59 33 | 116 | 24 04 | 174 | 33 47 | 212 | 31 08 | 275 | 29 29 | 301 |
| 175 | 29°59′ | 355 | 48°04′ | 063 | 60°27′ | 117 | 24°11′ | 174 | 33°16′ | 212 | 30°08′ | 275 | 28°38′ | 301 |
| 176 | 29 54 | 355 | 48 58 | 063 | 61 20 | 118 | 24 17 | 175 | 32 44 | 213 | 29 08 | 275 | 27 47 | 301 |
| 177 | 29 48 | 354 | 49 51 | 062 | 62 13 | 119 | 24 22 | 175 | 32 11 | 213 | 28 09 | 275 | 26 55 | 301 |
| 178 | 29 42 | 354 | 50 44 | 062 | 63 05 | 120 | 24 27 | 176 | 31 38 | 214 | 27 09 | 275 | 26 03 | 300 |
| 179 | 29 35 | 353 | 51 36 | 061 | 63 56 | 121 | 24 31 | 176 | 31 04 | 214 | 26 09 | 275 | 25 12 | 300 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | ANTARES | RIGIL KENT | ✦ACRUX | Suhail | ✦REGULUS | Dubhe |
| 180 | 52°29′061 | 18°56′119 | 19°54′160 | 24°35′177 | 30°30′215 | 60°52′291 | 29°27′353 |
| 181 | 53 21 060 | 19 49 119 | 20 14 161 | 24 38 177 | 29 56 215 | 59 56 291 | 29 19 352 |
| 182 | 54 13 059 | 20 41 119 | 20 33 161 | 24 41 178 | 29 21 216 | 59 00 290 | 29 11 351 |
| 183 | 55 04 059 | 21 33 120 | 20 52 162 | 24 44 178 | 28 45 216 | 58 04 289 | 29 01 351 |
| 184 | 55 55 058 | 22 25 120 | 21 11 162 | 24 45 179 | 28 10 217 | 57 07 289 | 28 52 350 |
| 185 | 56°45′057 | 23°17′120 | 21°29′162 | 24°47′179 | 27°33′217 | 56°10′289 | 28°42′350 |
| 186 | 57 36 056 | 24 09 120 | 21 47 163 | 24 47 180 | 26 57 218 | 55 13 288 | 28 31 349 |
| 187 | 58 25 055 | 25 01 121 | 22 05 163 | 24 48 180 | 26 20 218 | 54 16 288 | 28 20 349 |
| 188 | 59 14 054 | 25 52 121 | 22 22 164 | 24 47 181 | 25 43 219 | 53 19 287 | 28 08 348 |
| 189 | 60 03 054 | 26 44 121 | 22 38 164 | 24 46 181 | 25 05 219 | 52 22 287 | 27 56 348 |
| 190 | 60°51′052 | 27°35′121 | 22°54′165 | 24°45′182 | 24°27′219 | 51°24′287 | 27°43′348 |
| 191 | 61 38 051 | 28 26 122 | 23 10 165 | 24 43 182 | 23 49 220 | 50 27 286 | 27 30 347 |
| 192 | 62 24 050 | 29 17 122 | 23 25 165 | 24 41 183 | 23 11 220 | 49 29 286 | 27 16 347 |
| 193 | 63 10 049 | 30 08 122 | 23 40 166 | 24 38 183 | 22 32 221 | 48 32 286 | 27 02 346 |
| 194 | 63 55 048 | 30 58 123 | 23 54 166 | 24 35 183 | 21 53 221 | 47 34 285 | 26 47 346 |
| | ✦Alphecca | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 195 | 45°19′053 | 20°58′077 | 31°49′123 | 24°08′167 | 24°31′184 | 46°36′285 | 26°32′345 |
| 196 | 46 07 052 | 21 56 077 | 32 39 124 | 24 22 167 | 24 26 184 | 45 38 285 | 26 17 345 |
| 197 | 46 54 052 | 22 55 077 | 33 29 124 | 24 35 168 | 24 21 185 | 44 40 285 | 26 01 344 |
| 198 | 47 41 051 | 23 53 077 | 34 18 124 | 24 47 168 | 24 16 185 | 43 42 285 | 25 44 344 |
| 199 | 48 27 050 | 24 52 077 | 35 08 125 | 24 59 169 | 24 10 186 | 42 44 284 | 25 27 343 |
| 200 | 49°13′050 | 25°50′077 | 35°57′125 | 25°10′169 | 24°03′186 | 41°46′284 | 25°10′343 |
| 201 | 49 59 049 | 26 49 077 | 36 46 126 | 25 21 170 | 23 57 187 | 40 48 284 | 24 52 343 |
| 202 | 50 44 048 | 27 47 077 | 37 34 126 | 25 32 170 | 23 49 187 | 39 50 284 | 24 34 342 |
| 203 | 51 28 047 | 28 45 077 | 38 23 127 | 25 41 171 | 23 41 188 | 38 51 284 | 24 16 342 |
| 204 | 52 12 047 | 29 44 077 | 39 11 127 | 25 51 171 | 23 33 188 | 37 53 284 | 23 57 341 |
| 205 | 52°55′046 | 30°42′077 | 39°58′128 | 25°59′172 | 23°24′189 | 36°55′283 | 23°38′341 |
| 206 | 53 38 045 | 31 40 076 | 40 45 128 | 26 08 172 | 23 14 189 | 35 56 283 | 23 18 341 |
| 207 | 54 20 044 | 32 39 076 | 41 32 129 | 26 15 173 | 23 05 190 | 34 58 283 | 22 58 340 |
| 208 | 55 01 043 | 33 37 076 | 42 19 129 | 26 23 173 | 22 54 190 | 34 00 283 | 22 38 340 |
| 209 | 55 41 042 | 34 35 076 | 43 05 130 | 26 29 174 | 22 44 191 | 33 01 283 | 22 17 340 |
| | ✦VEGA | Rasalhague | ANTARES | ✦RIGIL KENT | ACRUX | ✦REGULUS | Dubhe |
| 210 | 17°13′050 | 35°33′076 | 43°51′131 | 26°35′174 | 22°32′191 | 32°03′283 | 21°56′339 |
| 211 | 17 58 050 | 36 32 076 | 44 36 131 | 26 41 175 | 22 21 191 | 31 04 283 | 21 34 339 |
| 212 | 18 44 049 | 37 30 076 | 45 21 132 | 26 46 176 | 22 08 192 | 30 06 283 | 21 13 339 |
| 213 | 19 29 049 | 38 28 076 | 46 05 133 | 26 50 176 | 21 56 192 | 29 07 282 | 20 51 338 |
| 214 | 20 15 049 | 39 26 075 | 46 49 134 | 26 54 177 | 21 43 193 | 28 09 282 | 20 28 338 |
| 215 | 21°00′049 | 40°24′075 | 47°32′134 | 26°57′177 | 21°29′193 | 27°10′282 | 20°06′338 |
| 216 | 21 45 049 | 41 22 075 | 48 14 135 | 27 00 178 | 21 15 194 | 26 11 282 | 19 43 337 |
| 217 | 22 30 048 | 42 20 075 | 48 56 136 | 27 02 178 | 21 01 194 | 25 13 282 | 19 19 337 |
| 218 | 23 15 048 | 43 17 075 | 49 38 137 | 27 04 179 | 20 46 194 | 24 14 282 | 18 56 337 |
| 219 | 23 59 048 | 44 15 074 | 50 18 138 | 27 05 179 | 20 31 195 | 23 16 282 | 18 32 336 |
| 220 | 24°44′048 | 45°13′074 | 50°58′139 | 27°05′180 | 20°16′195 | 22°17′282 | 18°08′336 |
| 221 | 25 28 047 | 46 11 074 | 51 38 140 | 27 05 180 | 20 00 196 | 21 18 282 | 17 44 336 |
| 222 | 26 12 047 | 47 08 074 | 52 16 141 | 27 04 181 | 19 44 196 | 20 20 282 | 17 19 336 |
| 223 | 26 56 047 | 48 06 073 | 52 53 142 | 27 03 182 | 19 27 196 | 19 21 282 | 16 54 335 |
| 224 | 27 39 046 | 49 03 073 | 53 30 143 | 27 01 182 | 19 10 197 | 18 22 282 | 16 29 335 |
| | VEGA | ✦ALTAIR | Nunki | ANTARES | ✦RIGIL KENT | SPICA | ✦ARCTURUS |
| 225 | 28°22′046 | 17°10′081 | 26°23′121 | 54°06′144 | 26°59′183 | 63°11′240 | 69°53′329 |
| 226 | 29 06 046 | 18 09 081 | 27 15 121 | 54 41 145 | 26 56 183 | 62 19 241 | 69 21 327 |
| 227 | 29 48 045 | 19 08 081 | 28 06 121 | 55 14 146 | 26 52 184 | 61 26 242 | 68 47 324 |
| 228 | 30 31 045 | 20 08 081 | 28 57 122 | 55 47 148 | 26 48 184 | 60 33 243 | 68 11 322 |
| 229 | 31 13 045 | 21 07 081 | 29 48 122 | 56 19 149 | 26 43 185 | 59 40 243 | 67 34 321 |
| 230 | 31°55′044 | 22°06′081 | 30°39′122 | 56°49′150 | 26°38′185 | 58°46′244 | 66°55′319 |
| 231 | 32 37 044 | 23 05 081 | 31 29 123 | 57 18 152 | 26 32 186 | 57 52 245 | 66 15 317 |
| 232 | 33 18 043 | 24 05 081 | 32 20 123 | 57 46 153 | 26 26 186 | 56 57 246 | 65 33 316 |
| 233 | 33 59 043 | 25 04 081 | 33 10 123 | 58 12 155 | 26 19 187 | 56 02 246 | 64 51 314 |
| 234 | 34 40 042 | 26 03 081 | 34 00 124 | 58 37 156 | 26 11 187 | 55 07 247 | 64 07 313 |
| 235 | 35°20′042 | 27°02′081 | 34°49′124 | 59°01′158 | 26°03′188 | 54°12′248 | 63°23′311 |
| 236 | 36 00 041 | 28 02 081 | 35 39 125 | 59 23 159 | 25 55 188 | 53 16 248 | 62 37 310 |
| 237 | 36 39 041 | 29 01 081 | 36 28 125 | 59 43 161 | 25 46 189 | 52 21 249 | 61 51 309 |
| 238 | 37 18 040 | 30 00 081 | 37 17 126 | 60 02 163 | 25 36 189 | 51 25 249 | 61 04 308 |
| 239 | 37 57 040 | 30 59 081 | 38 05 126 | 60 20 164 | 25 26 190 | 50 29 250 | 60 16 307 |
| | VEGA | ✦ALTAIR | Nunki | ✦ANTARES | SPICA | ✦ARCTURUS | Alkaid |
| 240 | 38°35′039 | 31°58′081 | 38°54′127 | 60°35′166 | 49°32′250 | 59°28′306 | 35°03′334 |
| 241 | 39 13 039 | 32 58 081 | 39 42 127 | 60 49 168 | 48 36 250 | 58 39 305 | 34 37 334 |
| 242 | 39 50 038 | 33 57 081 | 40 29 128 | 61 00 170 | 47 39 251 | 57 49 304 | 34 10 333 |
| 243 | 40 27 037 | 34 56 081 | 41 16 128 | 61 10 171 | 46 43 251 | 56 59 303 | 33 43 333 |
| 244 | 41 03 037 | 35 55 080 | 42 03 129 | 61 19 173 | 45 46 252 | 56 09 302 | 33 15 332 |
| 245 | 41°39′036 | 36°54′080 | 42°50′130 | 61°25′175 | 44°49′252 | 55°18′302 | 32°47′331 |
| 246 | 42 14 035 | 37 53 080 | 43 36 130 | 61 29 177 | 43 52 252 | 54 27 301 | 32 18 331 |
| 247 | 42 48 035 | 38 52 080 | 44 21 131 | 61 31 179 | 42 55 253 | 53 35 300 | 31 48 330 |
| 248 | 43 22 034 | 39 51 080 | 45 07 131 | 61 31 181 | 41 57 253 | 52 43 300 | 31 19 330 |
| 249 | 43 55 033 | 40 51 080 | 45 51 132 | 61 30 183 | 41 00 253 | 51 51 299 | 30 48 329 |
| 250 | 44°27′032 | 41°50′080 | 46°35′133 | 61°26′184 | 40°03′253 | 50°58′298 | 30°18′329 |
| 251 | 44 59 032 | 42 49 080 | 47 19 134 | 61 21 186 | 39 05 254 | 50 06 298 | 29 47 329 |
| 252 | 45 30 031 | 43 48 080 | 48 02 135 | 61 13 188 | 38 08 254 | 49 12 297 | 29 15 328 |
| 253 | 46 01 030 | 44 46 079 | 48 45 135 | 61 04 190 | 37 10 254 | 48 19 297 | 28 43 328 |
| 254 | 46 30 029 | 45 45 079 | 49 26 136 | 60 52 192 | 36 12 254 | 47 26 296 | 28 11 327 |
| | ✦VEGA | ALTAIR | ✦Nunki | ANTARES | ✦SPICA | ARCTURUS | Alkaid |
| 255 | 46°59′028 | 46°44′079 | 50°07′137 | 60°39′194 | 35°14′255 | 46°32′296 | 27°38′327 |
| 256 | 47 27 027 | 47 43 079 | 50 48 138 | 60 24 195 | 34 16 255 | 45 38 296 | 27 05 326 |
| 257 | 47 54 026 | 48 42 079 | 51 28 139 | 60 08 197 | 33 19 255 | 44 44 295 | 26 32 326 |
| 258 | 48 20 025 | 49 41 079 | 52 07 140 | 59 49 199 | 32 21 255 | 43 49 295 | 25 58 326 |
| 259 | 48 45 024 | 50 40 078 | 52 45 141 | 59 29 200 | 31 23 256 | 42 55 294 | 25 24 325 |
| 260 | 49°09′023 | 51°38′078 | 53°22′142 | 59°08′202 | 30°24′256 | 42°00′294 | 24°50′325 |
| 261 | 49 32 022 | 52 37 078 | 53 58 143 | 58 45 203 | 29 26 256 | 41 05 294 | 24 16 325 |
| 262 | 49 55 021 | 53 35 078 | 54 34 144 | 58 20 205 | 28 28 256 | 40 10 293 | 23 41 324 |
| 263 | 50 16 020 | 54 34 077 | 55 08 146 | 57 54 206 | 27 30 256 | 39 15 293 | 23 06 324 |
| 264 | 50 36 019 | 55 33 077 | 55 42 147 | 57 27 208 | 26 32 256 | 38 20 293 | 22 30 324 |
| 265 | 50°55′018 | 56°31′077 | 56°14′148 | 56°58′209 | 25°33′257 | 37°25′293 | 21°54′323 |
| 266 | 51 13 017 | 57 29 076 | 56 45 149 | 56 28 211 | 24 35 257 | 36 29 292 | 21 19 323 |
| 267 | 51 30 016 | 58 28 076 | 57 15 151 | 55 57 212 | 23 37 257 | 35 34 292 | 20 42 323 |
| 268 | 51 45 014 | 59 26 076 | 57 43 152 | 55 25 213 | 22 38 257 | 34 38 292 | 20 06 323 |
| 269 | 51 59 013 | 60 24 075 | 58 11 154 | 54 51 214 | 21 40 257 | 33 43 292 | 19 30 322 |

| LHA ♈ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|---|---|---|---|---|---|---|---|
| | VEGA | ✦DENEB | FOMALHAUT | ✦Peacock | Shaula | ANTARES | ✦ARCTURUS |
| 270 | 52°12′012 | 33°58′033 | 12°16′121 | 24°14′159 | 50°27′188 | 54°17′216 | 32°47′292 |
| 271 | 52 24 011 | 34 31 033 | 13 08 121 | 24 36 159 | 50 18 189 | 53 41 217 | 31 51 291 |
| 272 | 52 35 010 | 35 03 032 | 13 59 121 | 24 57 160 | 50 08 190 | 53 05 218 | 30 55 291 |
| 273 | 52 44 008 | 35 35 032 | 14 50 121 | 25 17 160 | 49 57 192 | 52 28 219 | 29 59 291 |
| 274 | 52 52 007 | 36 06 031 | 15 42 121 | 25 37 161 | 49 44 193 | 51 49 220 | 29 03 291 |
| 275 | 52°59′006 | 36°37′031 | 16°33′122 | 25°57′161 | 49°31′194 | 51°11′221 | 28°07′291 |
| 276 | 53 04 004 | 37 07 030 | 17 24 122 | 26 16 162 | 49 16 195 | 50 31 222 | 27 11 290 |
| 277 | 53 08 003 | 37 37 029 | 18 15 122 | 26 34 162 | 49 00 196 | 49 50 223 | 26 15 290 |
| 278 | 53 10 002 | 38 06 029 | 19 05 122 | 26 53 163 | 48 42 197 | 49 09 224 | 25 19 290 |
| 279 | 53 12 001 | 38 34 028 | 19 56 122 | 27 10 163 | 48 24 198 | 48 27 225 | 24 22 290 |
| 280 | 53°12′359 | 39°02′027 | 20°46′123 | 27°27′164 | 48°04′200 | 47°45′225 | 23°26′290 |
| 281 | 53 10 358 | 39 29 027 | 21 37 123 | 27 44 164 | 47 44 201 | 47 02 226 | 22 30 290 |
| 282 | 53 07 357 | 39 56 026 | 22 27 123 | 27 59 165 | 47 22 202 | 46 18 227 | 21 33 290 |
| 283 | 53 03 355 | 40 22 025 | 23 17 123 | 28 15 165 | 46 59 203 | 45 34 228 | 20 37 290 |
| 284 | 52 57 354 | 40 47 024 | 24 07 124 | 28 30 166 | 46 36 204 | 44 50 228 | 19 40 290 |
| | DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | ✦VEGA |
| 285 | 41°12′024 | 12°00′061 | 24°57′124 | 28°44′167 | 44°05′229 | 66°39′298 | 52°51′353 |
| 286 | 41 35 023 | 12 53 060 | 25 46 124 | 28 58 167 | 43 19 230 | 65 46 297 | 52 42 352 |
| 287 | 41 58 022 | 13 45 060 | 26 36 125 | 29 11 168 | 42 33 230 | 64 52 296 | 52 33 350 |
| 288 | 42 21 021 | 14 37 060 | 27 25 125 | 29 23 168 | 41 47 231 | 63 58 295 | 52 22 349 |
| 289 | 42 42 021 | 15 29 060 | 28 14 125 | 29 35 169 | 41 00 232 | 63 03 294 | 52 10 348 |
| 290 | 43°03′020 | 16°21′060 | 29°03′126 | 29°46′169 | 40°13′232 | 62°08′294 | 51°57′347 |
| 291 | 43 22 019 | 17 13 060 | 29 52 126 | 29 57 170 | 39 25 233 | 61 13 293 | 51 42 345 |
| 292 | 43 41 018 | 18 05 060 | 30 40 126 | 30 07 171 | 38 37 233 | 60 18 292 | 51 26 344 |
| 293 | 43 59 017 | 18 57 060 | 31 28 127 | 30 16 171 | 37 49 234 | 59 22 292 | 51 09 343 |
| 294 | 44 17 016 | 19 48 060 | 32 16 127 | 30 25 172 | 37 01 234 | 58 26 291 | 50 51 342 |
| 295 | 44°33′015 | 20°40′059 | 33°04′128 | 30°33′173 | 36°12′235 | 57°30′290 | 50°32′341 |
| 296 | 44 48 014 | 21 32 059 | 33 51 128 | 30 41 173 | 35 23 235 | 56 34 290 | 50 12 340 |
| 297 | 45 03 013 | 22 23 059 | 34 38 129 | 30 48 174 | 34 34 236 | 55 38 290 | 49 50 339 |
| 298 | 45 16 013 | 23 15 059 | 35 25 129 | 30 54 174 | 33 44 236 | 54 41 289 | 49 28 338 |
| 299 | 45 29 012 | 24 06 059 | 36 11 130 | 30 59 175 | 32 54 236 | 53 44 289 | 49 05 336 |
| | ✦DENEB | Alpheratz | ✦FOMALHAUT | Peacock | ✦ANTARES | Rasalhague | VEGA |
| 300 | 45°40′011 | 24°57′059 | 36°57′130 | 31°04′176 | 32°04′237 | 52°47′288 | 48°40′335 |
| 301 | 45 51 010 | 25 48 058 | 37 43 131 | 31 09 176 | 31 14 237 | 51 50 288 | 48 15 334 |
| 302 | 46 00 009 | 26 39 058 | 38 28 131 | 31 12 177 | 30 23 237 | 50 53 288 | 47 48 334 |
| 303 | 46 09 008 | 27 30 058 | 39 13 132 | 31 15 178 | 29 33 238 | 49 56 287 | 47 21 333 |
| 304 | 46 16 007 | 28 21 058 | 39 58 132 | 31 17 178 | 28 42 238 | 48 59 287 | 46 53 332 |
| 305 | 46°23′006 | 29°11′057 | 40°42′133 | 31°19′179 | 27°51′238 | 48°01′287 | 46°24′331 |
| 306 | 46 28 005 | 30 02 057 | 41 26 133 | 31 20 179 | 27 00 239 | 47 04 286 | 45 55 330 |
| 307 | 46 32 004 | 30 52 057 | 42 09 134 | 31 20 180 | 26 08 239 | 46 06 286 | 45 24 329 |
| 308 | 46 35 003 | 31 42 056 | 42 52 135 | 31 19 181 | 25 17 239 | 45 09 286 | 44 53 328 |
| 309 | 46 38 002 | 32 32 056 | 43 34 136 | 31 18 181 | 24 25 240 | 44 11 286 | 44 21 327 |
| 310 | 46°39′001 | 33°22′056 | 44°16′136 | 31°16′182 | 23°33′240 | 43°13′285 | 43°48′327 |
| 311 | 46 39 000 | 34 11 056 | 44 57 137 | 31 14 183 | 22 41 240 | 42 15 285 | 43 15 326 |
| 312 | 46 38 358 | 35 00 055 | 45 38 138 | 31 11 183 | 21 49 240 | 41 17 285 | 42 41 325 |
| 313 | 46 36 357 | 35 49 055 | 46 18 139 | 31 07 184 | 20 57 241 | 40 19 285 | 42 07 324 |
| 314 | 46 32 356 | 36 38 054 | 46 57 139 | 31 02 185 | 20 05 241 | 39 21 285 | 41 32 324 |
| | ✦Alpheratz | ✦FOMALHAUT | Peacock | Nunki | ✦Rasalhague | VEGA | DENEB |
| 315 | 37°27′054 | 47°36′140 | 30°57′185 | 48°55′224 | 38°23′284 | 40°56′323 | 46°28′355 |
| 316 | 38 15 054 | 48 13 141 | 30 51 186 | 48 12 225 | 37 25 284 | 40 20 322 | 46 23 354 |
| 317 | 39 03 053 | 48 51 142 | 30 45 187 | 47 29 226 | 36 27 284 | 39 43 322 | 46 17 353 |
| 318 | 39 51 053 | 49 27 143 | 30 38 187 | 46 46 227 | 35 29 284 | 39 05 321 | 46 09 352 |
| 319 | 40 39 052 | 50 03 144 | 30 30 188 | 46 02 228 | 34 31 284 | 38 28 321 | 46 01 351 |
| 320 | 41°26′052 | 50°38′145 | 30°22′188 | 45°17′228 | 33°33′284 | 37°49′320 | 45°51′350 |
| 321 | 42 13 051 | 51 11 146 | 30 13 189 | 44 32 229 | 32 34 284 | 37 11 320 | 45 41 349 |
| 322 | 42 59 051 | 51 44 147 | 30 03 190 | 43 47 230 | 31 36 284 | 36 32 319 | 45 29 348 |
| 323 | 43 45 050 | 52 16 148 | 29 53 190 | 43 01 230 | 30 38 283 | 35 52 318 | 45 17 348 |
| 324 | 44 31 049 | 52 47 149 | 29 42 191 | 42 15 231 | 29 39 283 | 35 12 318 | 45 03 347 |
| 325 | 45°17′049 | 53°17′151 | 29°30′191 | 41°28′232 | 28°41′283 | 34°32′317 | 44°49′346 |
| 326 | 46 02 048 | 53 46 152 | 29 18 192 | 40 41 232 | 27 43 283 | 33 51 317 | 44 34 345 |
| 327 | 46 46 048 | 54 14 153 | 29 05 193 | 39 53 233 | 26 44 283 | 33 10 317 | 44 18 344 |
| 328 | 47 30 047 | 54 40 154 | 28 52 193 | 39 05 233 | 25 46 283 | 32 28 316 | 44 00 343 |
| 329 | 48 13 046 | 55 06 156 | 28 38 194 | 38 17 234 | 24 47 283 | 31 47 316 | 43 42 342 |
| | ✦Alpheratz | Diphda | ✦FOMALHAUT | Peacock | ✦ALTAIR | VEGA | DENEB |
| 330 | 48°56′045 | 44°52′118 | 55°30′157 | 28°24′194 | 57°22′283 | 31°05′315 | 43°23′341 |
| 331 | 49 39 045 | 45 45 118 | 55 52 158 | 28 09 195 | 56 23 283 | 30 22 315 | 43 04 340 |
| 332 | 50 20 044 | 46 38 119 | 56 14 160 | 27 53 195 | 55 25 283 | 29 40 315 | 42 43 340 |
| 333 | 51 02 043 | 47 30 120 | 56 34 161 | 27 37 196 | 54 27 283 | 28 57 314 | 42 22 339 |
| 334 | 51 42 042 | 48 22 120 | 56 52 163 | 27 20 196 | 53 28 282 | 28 14 314 | 42 00 338 |
| 335 | 52°22′041 | 49°14′121 | 57°09′164 | 27°03′197 | 52°29′282 | 27°31′314 | 41°37′337 |
| 336 | 53 01 040 | 50 05 121 | 57 24 166 | 26 45 197 | 51 31 282 | 26 47 313 | 41 13 336 |
| 337 | 53 39 039 | 50 56 122 | 57 38 167 | 26 27 198 | 50 32 282 | 26 03 313 | 40 48 336 |
| 338 | 54 16 038 | 51 47 123 | 57 50 169 | 26 08 198 | 49 33 281 | 25 19 313 | 40 23 335 |
| 339 | 54 53 037 | 52 37 123 | 58 01 171 | 25 49 199 | 48 34 281 | 24 35 312 | 39 57 334 |
| 340 | 55°28′036 | 53°27′124 | 58°10′172 | 25°29′199 | 47°35′281 | 23°51′312 | 39°31′333 |
| 341 | 56 03 035 | 54 16 125 | 58 17 174 | 25 09 200 | 46 37 281 | 23 06 312 | 39 04 333 |
| 342 | 56 37 033 | 55 05 126 | 58 23 176 | 24 48 200 | 45 38 281 | 22 21 312 | 38 36 332 |
| 343 | 57 09 032 | 55 53 127 | 58 26 177 | 24 27 201 | 44 39 281 | 21 36 311 | 38 07 331 |
| 344 | 57 41 031 | 56 41 128 | 58 29 179 | 24 06 201 | 43 40 280 | 20 51 311 | 37 38 331 |
| | Alpheratz | ✦Hamal | Acamar | ✦ACHERNAR | FOMALHAUT | ✦ALTAIR | DENEB |
| 345 | 58°11′030 | 39°38′061 | 21°13′135 | 22°52′158 | 58°29′181 | 42°41′280 | 37°09′330 |
| 346 | 58 40 028 | 40 30 060 | 21 55 135 | 23 14 158 | 58 27 182 | 41 42 280 | 36 38 329 |
| 347 | 59 08 027 | 41 22 060 | 22 37 136 | 23 36 159 | 58 24 184 | 40 43 280 | 36 08 329 |
| 348 | 59 34 025 | 42 14 059 | 23 19 136 | 23 57 159 | 58 19 186 | 39 44 280 | 35 36 328 |
| 349 | 59 59 024 | 43 06 059 | 24 01 136 | 24 18 160 | 58 13 187 | 38 45 280 | 35 05 328 |
| 350 | 60°22′022 | 43°57′059 | 24°42′137 | 24°39′160 | 58°04′189 | 37°46′280 | 34°32′327 |
| 351 | 60 44 021 | 44 48 058 | 25 23 137 | 24 59 161 | 57 55 190 | 36 47 280 | 34 00 327 |
| 352 | 61 04 019 | 45 39 058 | 26 04 137 | 25 19 161 | 57 43 192 | 35 47 280 | 33 26 326 |
| 353 | 61 23 017 | 46 29 057 | 26 44 138 | 25 38 162 | 57 30 194 | 34 48 279 | 32 53 326 |
| 354 | 61 40 015 | 47 19 056 | 27 24 138 | 25 56 162 | 57 15 195 | 33 49 279 | 32 19 325 |
| 355 | 61°55′014 | 48°09′056 | 28°04′139 | 26°15′163 | 56°58′197 | 32°50′279 | 31°44′325 |
| 356 | 62 08 012 | 48 59 055 | 28 43 139 | 26 32 163 | 56 41 198 | 31 51 279 | 31 09 324 |
| 357 | 62 20 010 | 49 48 055 | 29 22 140 | 26 49 164 | 56 21 200 | 30 52 279 | 30 34 324 |
| 358 | 62 29 008 | 50 36 054 | 30 01 140 | 27 06 164 | 56 00 201 | 29 52 279 | 29 58 323 |
| 359 | 62 37 006 | 51 25 053 | 30 39 141 | 27 22 165 | 55 38 202 | 28 53 279 | 29 22 323 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Alpheratz | | ✦Mirfak | | ALDEBARAN | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 0 | 61°43′ | 004 | 24°30′ | 034 | 20°08′ | 073 | 28°36′ | 165 | 56°09′ | 204 | 27°44′ | 280 | 27°58′ | 323 |
| 1 | 61 46 | 002 | 25 03 | 033 | 21 06 | 073 | 28 51 | 166 | 55 44 | 206 | 26 45 | 279 | 27 22 | 322 |
| 2 | 61 48 | 001 | 25 35 | 033 | 22 03 | 073 | 29 05 | 166 | 55 17 | 207 | 25 46 | 279 | 26 45 | 322 |
| 3 | 61 48 | 359 | 26 08 | 032 | 23 00 | 072 | 29 19 | 167 | 54 49 | 208 | 24 47 | 279 | 26 08 | 322 |
| 4 | 61 45 | 357 | 26 40 | 032 | 23 57 | 072 | 29 33 | 167 | 54 20 | 210 | 23 48 | 279 | 25 30 | 321 |
| 5 | 61°41′ | 355 | 27°11′ | 032 | 24°54′ | 072 | 29°46′ | 168 | 53°50′ | 211 | 22°48′ | 279 | 24°53′ | 321 |
| 6 | 61 35 | 353 | 27 43 | 031 | 25 52 | 072 | 29 58 | 168 | 53 19 | 212 | 21 49 | 279 | 24 15 | 321 |
| 7 | 61 27 | 351 | 28 14 | 031 | 26 49 | 072 | 30 10 | 169 | 52 47 | 213 | 20 50 | 279 | 23 37 | 320 |
| 8 | 61 17 | 350 | 28 44 | 030 | 27 46 | 072 | 30 21 | 170 | 52 13 | 214 | 19 51 | 279 | 22 58 | 320 |
| 9 | 61 06 | 348 | 29 14 | 030 | 28 43 | 072 | 30 31 | 170 | 51 39 | 215 | 18 52 | 279 | 22 19 | 320 |
| 10 | 60°52′ | 346 | 29°44′ | 029 | 29°40′ | 071 | 30°41′ | 171 | 51°04′ | 216 | 17°52′ | 279 | 21°40′ | 319 |
| 11 | 60 37 | 344 | 30 13 | 029 | 30 36 | 071 | 30 50 | 171 | 50 28 | 217 | 16 53 | 279 | 21 01 | 319 |
| 12 | 60 20 | 343 | 30 42 | 028 | 31 33 | 071 | 30 59 | 172 | 49 51 | 218 | 15 54 | 279 | 20 22 | 319 |
| 13 | 60 02 | 341 | 31 10 | 028 | 32 30 | 071 | 31 07 | 173 | 49 14 | 219 | 14 55 | 279 | 19 42 | 319 |
| 14 | 59 42 | 340 | 31 38 | 027 | 33 27 | 071 | 31 14 | 173 | 48 36 | 220 | 13 55 | 279 | 19 02 | 318 |
| | CAPELLA | | ALDEBARAN | | ✦RIGEL | | ACHERNAR | | ✦FOMALHAUT | | Enif | | ✦Alpheratz | |
| 15 | 18°07′ | 041 | 34°23′ | 071 | 25°41′ | 100 | 31°21′ | 174 | 47°57′ | 221 | 40°45′ | 282 | 59°20′ | 338 |
| 16 | 18 47 | 041 | 35 20 | 070 | 26 40 | 100 | 31 27 | 175 | 47 17 | 222 | 39 47 | 282 | 58 57 | 336 |
| 17 | 19 26 | 041 | 36 16 | 070 | 27 39 | 100 | 31 32 | 175 | 46 37 | 223 | 38 48 | 282 | 58 32 | 335 |
| 18 | 20 05 | 041 | 37 12 | 070 | 28 38 | 100 | 31 37 | 176 | 45 56 | 223 | 37 49 | 282 | 58 06 | 334 |
| 19 | 20 44 | 040 | 38 09 | 070 | 29 37 | 100 | 31 41 | 176 | 45 14 | 224 | 36 51 | 282 | 57 39 | 332 |
| 20 | 21°23′ | 040 | 39°05′ | 069 | 30°36′ | 100 | 31°45′ | 177 | 44°32′ | 225 | 35°52′ | 282 | 57°10′ | 331 |
| 21 | 22 01 | 040 | 40 01 | 069 | 31 35 | 100 | 31 47 | 178 | 43 50 | 226 | 34 53 | 281 | 56 40 | 329 |
| 22 | 22 40 | 039 | 40 57 | 069 | 32 34 | 100 | 31 49 | 178 | 43 06 | 226 | 33 54 | 281 | 56 09 | 328 |
| 23 | 23 18 | 039 | 41 53 | 068 | 33 33 | 101 | 31 51 | 179 | 42 23 | 227 | 32 55 | 281 | 55 37 | 327 |
| 24 | 23 55 | 039 | 42 49 | 068 | 34 32 | 101 | 31 52 | 180 | 41 39 | 228 | 31 57 | 281 | 55 04 | 326 |
| 25 | 24°33′ | 038 | 43°44′ | 068 | 35°31′ | 101 | 31°52′ | 180 | 40°54′ | 228 | 30°58′ | 281 | 54°29′ | 325 |
| 26 | 25 10 | 038 | 44 40 | 067 | 36 30 | 101 | 31 51 | 181 | 40 09 | 229 | 29 59 | 281 | 53 54 | 324 |
| 27 | 25 47 | 038 | 45 35 | 067 | 37 29 | 101 | 31 50 | 182 | 39 24 | 229 | 29 00 | 281 | 53 18 | 322 |
| 28 | 26 23 | 037 | 46 30 | 067 | 38 28 | 101 | 31 48 | 182 | 38 38 | 230 | 28 01 | 281 | 52 41 | 321 |
| 29 | 27 00 | 037 | 47 25 | 066 | 39 27 | 101 | 31 45 | 183 | 37 52 | 230 | 27 02 | 281 | 52 03 | 320 |
| | Mirfak | | CAPELLA | | ✦ALDEBARAN | | RIGEL | | ✦ACHERNAR | | FOMALHAUT | | ✦Alpheratz | |
| 30 | 37°46′ | 017 | 27°36′ | 037 | 48°20′ | 066 | 40°26′ | 102 | 31°42′ | 183 | 37°06′ | 231 | 51°25′ | 320 |
| 31 | 38 04 | 017 | 28 11 | 036 | 49 15 | 065 | 41 24 | 102 | 31 38 | 184 | 36 19 | 231 | 50 45 | 319 |
| 32 | 38 20 | 016 | 28 46 | 036 | 50 09 | 065 | 42 23 | 102 | 31 34 | 185 | 35 32 | 232 | 50 05 | 318 |
| 33 | 38 36 | 015 | 29 21 | 035 | 51 03 | 064 | 43 22 | 102 | 31 28 | 185 | 34 45 | 232 | 49 25 | 317 |
| 34 | 38 52 | 014 | 29 56 | 035 | 51 57 | 064 | 44 20 | 102 | 31 22 | 186 | 33 57 | 233 | 48 43 | 316 |
| 35 | 39°06′ | 014 | 30°30′ | 034 | 52°51′ | 063 | 45°19′ | 103 | 31°16′ | 187 | 33°10′ | 233 | 48°01′ | 315 |
| 36 | 39 20 | 013 | 31 04 | 034 | 53 45 | 063 | 46 17 | 103 | 31 09 | 187 | 32 21 | 234 | 47 19 | 314 |
| 37 | 39 33 | 012 | 31 37 | 033 | 54 38 | 062 | 47 16 | 103 | 31 01 | 188 | 31 33 | 234 | 46 36 | 314 |
| 38 | 39 45 | 011 | 32 10 | 033 | 55 31 | 061 | 48 14 | 103 | 30 52 | 188 | 30 45 | 234 | 45 52 | 313 |
| 39 | 39 56 | 010 | 32 42 | 032 | 56 23 | 061 | 49 12 | 104 | 30 43 | 189 | 29 56 | 235 | 45 08 | 312 |
| 40 | 40°06′ | 010 | 33°14′ | 032 | 57°15′ | 060 | 50°11′ | 104 | 30°34′ | 190 | 29°07′ | 235 | 44°24′ | 312 |
| 41 | 40 16 | 009 | 33 46 | 031 | 58 07 | 059 | 51 09 | 104 | 30 23 | 190 | 28 17 | 235 | 43 39 | 311 |
| 42 | 40 25 | 008 | 34 16 | 031 | 58 58 | 058 | 52 07 | 105 | 30 12 | 191 | 27 28 | 236 | 42 53 | 311 |
| 43 | 40 33 | 007 | 34 47 | 030 | 59 49 | 058 | 53 05 | 105 | 30 01 | 191 | 26 38 | 236 | 42 07 | 310 |
| 44 | 40 40 | 006 | 35 17 | 030 | 60 40 | 057 | 54 03 | 105 | 29 49 | 192 | 25 49 | 236 | 41 21 | 309 |
| | CAPELLA | | ✦PROCYON | | SIRIUS | | CANOPUS | | ✦ACHERNAR | | Diphda | | ✦Alpheratz | |
| 45 | 35°46′ | 029 | 19°56′ | 085 | 31°34′ | 110 | 21°30′ | 150 | 29°36′ | 193 | 51°42′ | 239 | 40°35′ | 309 |
| 46 | 36 15 | 028 | 20 55 | 085 | 32 30 | 111 | 22 00 | 150 | 29 22 | 193 | 50 51 | 239 | 39 48 | 308 |
| 47 | 36 43 | 028 | 21 55 | 085 | 33 26 | 111 | 22 30 | 150 | 29 09 | 194 | 49 59 | 240 | 39 01 | 308 |
| 48 | 37 11 | 027 | 22 55 | 085 | 34 22 | 111 | 23 00 | 151 | 28 54 | 194 | 49 07 | 241 | 38 13 | 307 |
| 49 | 37 38 | 026 | 23 55 | 085 | 35 18 | 111 | 23 29 | 151 | 28 39 | 195 | 48 14 | 241 | 37 25 | 307 |
| 50 | 38°04′ | 026 | 24°54′ | 085 | 36°13′ | 112 | 23°58′ | 151 | 28°23′ | 195 | 47°22′ | 242 | 36°37′ | 307 |
| 51 | 38 30 | 025 | 25 54 | 085 | 37 09 | 112 | 24 26 | 152 | 28 07 | 196 | 46 29 | 242 | 35 49 | 306 |
| 52 | 38 55 | 024 | 26 54 | 085 | 38 05 | 112 | 24 55 | 152 | 27 51 | 196 | 45 35 | 243 | 35 00 | 306 |
| 53 | 39 20 | 024 | 27 53 | 085 | 39 00 | 113 | 25 22 | 153 | 27 33 | 197 | 44 42 | 243 | 34 11 | 305 |
| 54 | 39 43 | 023 | 28 53 | 085 | 39 55 | 113 | 25 49 | 153 | 27 16 | 197 | 43 48 | 244 | 33 22 | 305 |
| 55 | 40°06′ | 022 | 29°53′ | 085 | 40°51′ | 113 | 26°16′ | 154 | 26°57′ | 198 | 42°54′ | 244 | 32°33′ | 305 |
| 56 | 40 29 | 021 | 30 53 | 085 | 41 46 | 114 | 26 43 | 154 | 26 39 | 198 | 42 00 | 245 | 31 44 | 304 |
| 57 | 40 50 | 021 | 31 52 | 085 | 42 40 | 114 | 27 09 | 155 | 26 20 | 199 | 41 06 | 245 | 30 54 | 304 |
| 58 | 41 11 | 020 | 32 52 | 084 | 43 35 | 114 | 27 34 | 155 | 26 00 | 199 | 40 12 | 245 | 30 04 | 304 |
| 59 | 41 31 | 019 | 33 52 | 084 | 44 30 | 115 | 27 59 | 156 | 25 40 | 200 | 39 17 | 246 | 29 14 | 303 |
| | ✦CAPELLA | | PROCYON | | ✦SIRIUS | | CANOPUS | | ACHERNAR | | ✦Diphda | | Alpheratz | |
| 60 | 41°50′ | 018 | 34°52′ | 084 | 45°24′ | 115 | 28°24′ | 156 | 25°19′ | 200 | 38°22′ | 246 | 28°24′ | 303 |
| 61 | 42 08 | 017 | 35 51 | 084 | 46 18 | 116 | 28 48 | 157 | 24 58 | 201 | 37 27 | 246 | 27 33 | 303 |
| 62 | 42 26 | 016 | 36 51 | 084 | 47 12 | 116 | 29 12 | 157 | 24 36 | 201 | 36 32 | 247 | 26 43 | 303 |
| 63 | 42 42 | 016 | 37 51 | 084 | 48 06 | 117 | 29 35 | 158 | 24 15 | 202 | 35 37 | 247 | 25 52 | 302 |
| 64 | 42 58 | 015 | 38 50 | 084 | 48 59 | 117 | 29 57 | 158 | 23 52 | 202 | 34 42 | 247 | 25 01 | 302 |
| 65 | 43°13′ | 014 | 39°50′ | 084 | 49°52′ | 118 | 30°19′ | 159 | 23°29′ | 203 | 33°46′ | 248 | 24°11′ | 302 |
| 66 | 43 27 | 013 | 40 50 | 084 | 50 45 | 118 | 30 41 | 159 | 23 06 | 203 | 32 51 | 248 | 23 19 | 302 |
| 67 | 43 40 | 012 | 41 49 | 084 | 51 38 | 119 | 31 02 | 160 | 22 43 | 203 | 31 55 | 248 | 22 28 | 301 |
| 68 | 43 52 | 011 | 42 49 | 084 | 52 30 | 120 | 31 22 | 160 | 22 19 | 204 | 30 59 | 248 | 21 37 | 301 |
| 69 | 44 03 | 010 | 43 49 | 084 | 53 22 | 120 | 31 42 | 161 | 21 54 | 204 | 30 04 | 249 | 20 46 | 301 |
| 70 | 44°13′ | 009 | 44°48′ | 084 | 54°13′ | 121 | 32°01′ | 162 | 21°29′ | 205 | 29°08′ | 249 | 19°54′ | 301 |
| 71 | 44 22 | 008 | 45 48 | 084 | 55 05 | 122 | 32 19 | 162 | 21 04 | 205 | 28 12 | 249 | 19 03 | 301 |
| 72 | 44 30 | 007 | 46 47 | 084 | 55 55 | 123 | 32 37 | 163 | 20 39 | 205 | 27 16 | 249 | 18 11 | 301 |
| 73 | 44 37 | 006 | 47 47 | 083 | 56 46 | 124 | 32 55 | 164 | 20 13 | 206 | 26 20 | 249 | 17 19 | 300 |
| 74 | 44 43 | 005 | 48 47 | 083 | 57 35 | 124 | 33 11 | 164 | 19 47 | 206 | 25 23 | 250 | 16 28 | 300 |
| | CAPELLA | | ✦POLLUX | | PROCYON | | SIRIUS | | ✦CANOPUS | | Acamar | | ✦Hamal | |
| 75 | 44°49′ | 004 | 41°56′ | 052 | 49°46′ | 083 | 58°24′ | 125 | 33°27′ | 165 | 40°24′ | 210 | 42°42′ | 302 |
| 76 | 44 53 | 003 | 42 43 | 052 | 50 46 | 083 | 59 13 | 126 | 33 43 | 166 | 39 54 | 211 | 41 51 | 301 |
| 77 | 44 56 | 002 | 43 30 | 051 | 51 45 | 083 | 60 01 | 127 | 33 57 | 166 | 39 22 | 212 | 40 59 | 301 |
| 78 | 44 58 | 002 | 44 16 | 050 | 52 45 | 083 | 60 48 | 128 | 34 11 | 167 | 38 50 | 213 | 40 08 | 301 |
| 79 | 44 59 | 001 | 45 02 | 050 | 53 44 | 083 | 61 35 | 130 | 34 25 | 168 | 38 18 | 213 | 39 16 | 300 |
| 80 | 44°59′ | 000 | 45°48′ | 049 | 54°44′ | 082 | 62°21′ | 131 | 34°37′ | 168 | 37°45′ | 214 | 38°24′ | 300 |
| 81 | 44 58 | 359 | 46 33 | 048 | 55 43 | 082 | 63 06 | 132 | 34 49 | 169 | 37 11 | 215 | 37 32 | 299 |
| 82 | 44 56 | 358 | 47 17 | 048 | 56 43 | 082 | 63 50 | 134 | 35 00 | 170 | 36 37 | 215 | 36 39 | 299 |
| 83 | 44 53 | 357 | 48 01 | 047 | 57 42 | 082 | 64 33 | 135 | 35 11 | 170 | 36 02 | 216 | 35 47 | 299 |
| 84 | 44 49 | 356 | 48 45 | 046 | 58 41 | 082 | 65 15 | 137 | 35 21 | 171 | 35 27 | 216 | 34 54 | 298 |
| 85 | 44°44′ | 355 | 49°28′ | 045 | 59°41′ | 081 | 65°55′ | 138 | 35°29′ | 172 | 34°51′ | 217 | 34°01′ | 298 |
| 86 | 44 38 | 354 | 50 10 | 045 | 60 40 | 081 | 66 35 | 140 | 35 38 | 172 | 34 14 | 218 | 33 08 | 298 |
| 87 | 44 31 | 353 | 50 52 | 044 | 61 39 | 081 | 67 12 | 142 | 35 45 | 173 | 33 38 | 218 | 32 15 | 297 |
| 88 | 44 23 | 352 | 51 33 | 043 | 62 39 | 081 | 67 49 | 144 | 35 52 | 174 | 33 01 | 219 | 31 22 | 297 |
| 89 | 44 13 | 351 | 52 14 | 042 | 63 38 | 080 | 68 23 | 146 | 35 58 | 175 | 32 23 | 219 | 30 28 | 297 |

LAT 1°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | Acamar | | ✦ALDEBARAN | | CAPELLA | |
| 90 | 52°54′ | 041 | 27°14′ | 077 | 28°44′ | 143 | 36°03′ | 175 | 31°45′ | 220 | 64°20′ | 308 | 44°03′ | 350 |
| 91 | 53 33 | 040 | 28 12 | 077 | 29 21 | 143 | 36 07 | 176 | 31 06 | 220 | 63 33 | 307 | 43 52 | 349 |
| 92 | 54 11 | 039 | 29 11 | 077 | 29 56 | 144 | 36 11 | 177 | 30 28 | 221 | 62 44 | 306 | 43 40 | 348 |
| 93 | 54 48 | 038 | 30 09 | 077 | 30 32 | 144 | 36 14 | 178 | 29 48 | 221 | 61 55 | 305 | 43 28 | 347 |
| 94 | 55 24 | 037 | 31 08 | 077 | 31 07 | 145 | 36 16 | 178 | 29 09 | 221 | 61 06 | 304 | 43 14 | 346 |
| 95 | 56°00′ | 036 | 32°06′ | 077 | 31°41′ | 145 | 36°17′ | 179 | 28°29′ | 222 | 60°16′ | 303 | 42°59′ | 345 |
| 96 | 56 34 | 034 | 33 04 | 076 | 32 15 | 146 | 36 18 | 180 | 27 49 | 222 | 59 25 | 302 | 42 43 | 344 |
| 97 | 57 08 | 033 | 34 03 | 076 | 32 49 | 146 | 36 17 | 181 | 27 08 | 223 | 58 34 | 301 | 42 27 | 344 |
| 98 | 57 40 | 032 | 35 01 | 076 | 33 22 | 147 | 36 16 | 181 | 26 27 | 223 | 57 43 | 300 | 42 09 | 343 |
| 99 | 58 11 | 030 | 35 59 | 076 | 33 55 | 147 | 36 14 | 182 | 25 46 | 223 | 56 51 | 300 | 41 51 | 342 |
| 100 | 58°41′ | 029 | 36°57′ | 076 | 34°27′ | 148 | 36°12′ | 183 | 25°05′ | 224 | 55°58′ | 299 | 41°32′ | 341 |
| 101 | 59 09 | 028 | 37 56 | 076 | 34 59 | 149 | 36 08 | 184 | 24 23 | 224 | 55 06 | 298 | 41 12 | 340 |
| 102 | 59 36 | 026 | 38 54 | 076 | 35 30 | 149 | 36 04 | 184 | 23 41 | 225 | 54 13 | 298 | 40 52 | 339 |
| 103 | 60 02 | 025 | 39 52 | 075 | 36 00 | 150 | 35 59 | 185 | 22 59 | 225 | 53 19 | 297 | 40 30 | 339 |
| 104 | 60 26 | 023 | 40 50 | 075 | 36 30 | 150 | 35 53 | 186 | 22 17 | 225 | 52 26 | 296 | 40 08 | 338 |
| | POLLUX | | ✦REGULUS | | Suhail | | ✦CANOPUS | | RIGEL | | ✦ALDEBARAN | | CAPELLA | |
| 105 | 60°49′ | 021 | 41°48′ | 075 | 36°59′ | 151 | 35°47′ | 187 | 62°23′ | 250 | 51°32′ | 296 | 39°45′ | 337 |
| 106 | 61 10 | 020 | 42 46 | 075 | 37 28 | 152 | 35 39 | 187 | 61 26 | 251 | 50 38 | 295 | 39 21 | 336 |
| 107 | 61 30 | 018 | 43 43 | 074 | 37 56 | 152 | 35 31 | 188 | 60 30 | 251 | 49 43 | 295 | 38 57 | 336 |
| 108 | 61 47 | 016 | 44 41 | 074 | 38 24 | 153 | 35 22 | 189 | 59 33 | 252 | 48 49 | 294 | 38 32 | 335 |
| 109 | 62 03 | 014 | 45 39 | 074 | 38 50 | 154 | 35 13 | 190 | 58 36 | 252 | 47 54 | 294 | 38 06 | 334 |
| 110 | 62°17′ | 013 | 46°36′ | 074 | 39°16′ | 155 | 35°02′ | 190 | 57°38′ | 253 | 46°59′ | 294 | 37°40′ | 334 |
| 111 | 62 29 | 011 | 47 34 | 073 | 39 42 | 155 | 34 51 | 191 | 56 41 | 253 | 46 04 | 293 | 37 13 | 333 |
| 112 | 62 40 | 009 | 48 31 | 073 | 40 06 | 156 | 34 40 | 192 | 55 43 | 254 | 45 09 | 293 | 36 45 | 332 |
| 113 | 62 48 | 007 | 49 29 | 073 | 40 30 | 157 | 34 27 | 192 | 54 46 | 254 | 44 13 | 292 | 36 17 | 332 |
| 114 | 62 54 | 005 | 50 26 | 072 | 40 53 | 158 | 34 14 | 193 | 53 48 | 255 | 43 18 | 292 | 35 48 | 331 |
| 115 | 62°59′ | 003 | 51°23′ | 072 | 41°15′ | 159 | 34°00′ | 194 | 52°50′ | 255 | 42°22′ | 292 | 35°19′ | 330 |
| 116 | 63 01 | 001 | 52 20 | 072 | 41 37 | 159 | 33 46 | 194 | 51 52 | 255 | 41 26 | 291 | 34 49 | 330 |
| 117 | 63 01 | 359 | 53 17 | 071 | 41 57 | 160 | 33 30 | 195 | 50 54 | 256 | 40 30 | 291 | 34 19 | 329 |
| 118 | 62 59 | 357 | 54 14 | 071 | 42 17 | 161 | 33 15 | 196 | 49 56 | 256 | 39 34 | 291 | 33 48 | 329 |
| 119 | 62 56 | 355 | 55 10 | 070 | 42 36 | 162 | 32 58 | 196 | 48 57 | 256 | 38 38 | 291 | 33 16 | 328 |
| | Dubhe | | ✦Denebola | | Suhail | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 120 | 20°07′ | 021 | 31°37′ | 074 | 42°54′ | 163 | 32°41′ | 197 | 64°33′ | 225 | 58°30′ | 283 | 32°44′ | 328 |
| 121 | 20 28 | 021 | 32 35 | 073 | 43 11 | 164 | 32 23 | 198 | 63 50 | 226 | 57 32 | 282 | 32 12 | 327 |
| 122 | 20 50 | 021 | 33 32 | 073 | 43 27 | 165 | 32 05 | 198 | 63 06 | 228 | 56 33 | 282 | 31 39 | 327 |
| 123 | 21 11 | 020 | 34 30 | 073 | 43 43 | 166 | 31 46 | 199 | 62 21 | 229 | 55 34 | 282 | 31 06 | 326 |
| 124 | 21 32 | 020 | 35 27 | 073 | 43 57 | 167 | 31 26 | 199 | 61 35 | 230 | 54 35 | 281 | 30 32 | 326 |
| 125 | 21°52′ | 020 | 36°25′ | 073 | 44°10′ | 168 | 31°06′ | 200 | 60°49′ | 232 | 53°37′ | 281 | 29°58′ | 325 |
| 126 | 22 12 | 019 | 37 22 | 072 | 44 22 | 169 | 30 45 | 201 | 60 01 | 233 | 52 38 | 281 | 29 24 | 325 |
| 127 | 22 32 | 019 | 38 19 | 072 | 44 34 | 170 | 30 24 | 201 | 59 13 | 234 | 51 39 | 281 | 28 49 | 324 |
| 128 | 22 51 | 019 | 39 16 | 072 | 44 44 | 171 | 30 02 | 202 | 58 25 | 235 | 50 40 | 280 | 28 14 | 324 |
| 129 | 23 10 | 018 | 40 13 | 072 | 44 53 | 172 | 29 39 | 202 | 57 36 | 236 | 49 41 | 280 | 27 38 | 323 |
| 130 | 23°29′ | 018 | 41°10′ | 072 | 45°01′ | 173 | 29°16′ | 203 | 56°46′ | 236 | 48°42′ | 280 | 27°02′ | 323 |
| 131 | 23 47 | 017 | 42 07 | 071 | 45 09 | 174 | 28 53 | 203 | 55 56 | 237 | 47 43 | 280 | 26 26 | 323 |
| 132 | 24 05 | 017 | 43 04 | 071 | 45 15 | 175 | 28 29 | 204 | 55 05 | 238 | 46 44 | 280 | 25 49 | 322 |
| 133 | 24 22 | 017 | 44 00 | 071 | 45 20 | 176 | 28 04 | 204 | 54 14 | 239 | 45 44 | 280 | 25 13 | 322 |
| 134 | 24 39 | 016 | 44 57 | 070 | 45 24 | 177 | 27 39 | 205 | 53 22 | 240 | 44 45 | 279 | 24 35 | 322 |
| | Dubhe | | ✦SPICA | | ACRUX | | ✦CANOPUS | | SIRIUS | | BETELGEUSE | | ✦CAPELLA | |
| 135 | 24°55′ | 016 | 22°45′ | 103 | 15°13′ | 158 | 27°14′ | 205 | 52°30′ | 240 | 43°46′ | 279 | 23°58′ | 321 |
| 136 | 25 12 | 015 | 23 43 | 103 | 15 34 | 159 | 26 48 | 206 | 51 38 | 241 | 42 47 | 279 | 23 20 | 321 |
| 137 | 25 27 | 015 | 24 42 | 103 | 15 56 | 159 | 26 22 | 206 | 50 45 | 242 | 41 48 | 279 | 22 42 | 321 |
| 138 | 25 42 | 014 | 25 40 | 103 | 16 18 | 159 | 25 55 | 207 | 49 53 | 242 | 40 48 | 279 | 22 04 | 320 |
| 139 | 25 57 | 014 | 26 39 | 103 | 16 39 | 160 | 25 28 | 207 | 48 59 | 243 | 39 49 | 279 | 21 26 | 320 |
| 140 | 26°11′ | 014 | 27°37′ | 103 | 16°59′ | 160 | 25°00′ | 208 | 48°06′ | 243 | 38°50′ | 279 | 20°47′ | 320 |
| 141 | 26 25 | 013 | 28 36 | 103 | 17 20 | 160 | 24 32 | 208 | 47 12 | 244 | 37 51 | 279 | 20 08 | 319 |
| 142 | 26 38 | 013 | 29 34 | 104 | 17 40 | 160 | 24 04 | 208 | 46 18 | 244 | 36 51 | 279 | 19 29 | 319 |
| 143 | 26 51 | 012 | 30 32 | 104 | 18 00 | 161 | 23 35 | 209 | 45 24 | 245 | 35 52 | 278 | 18 50 | 319 |
| 144 | 27 04 | 012 | 31 31 | 104 | 18 20 | 161 | 23 06 | 209 | 44 30 | 245 | 34 53 | 278 | 18 10 | 319 |
| 145 | 27°16′ | 011 | 32°29′ | 104 | 18°39′ | 161 | 22°36′ | 210 | 43°36′ | 246 | 33°53′ | 278 | 17°31′ | 319 |
| 146 | 27 27 | 011 | 33 27 | 104 | 18 58 | 162 | 22 06 | 210 | 42 41 | 246 | 32 54 | 278 | 16 51 | 318 |
| 147 | 27 38 | 010 | 34 25 | 104 | 19 16 | 162 | 21 36 | 210 | 41 46 | 246 | 31 54 | 278 | 16 11 | 318 |
| 148 | 27 48 | 010 | 35 23 | 105 | 19 34 | 163 | 21 06 | 211 | 40 51 | 247 | 30 55 | 278 | 15 31 | 318 |
| 149 | 27 58 | 009 | 36 21 | 105 | 19 52 | 163 | 20 35 | 211 | 39 56 | 247 | 29 56 | 278 | 14 50 | 318 |
| | ✦Dubhe | | ARCTURUS | | ✦SPICA | | ACRUX | | ✦SIRIUS | | PROCYON | | POLLUX | |
| 150 | 28°07′ | 009 | 24°42′ | 069 | 37°19′ | 105 | 20°10′ | 163 | 39°01′ | 247 | 54°54′ | 278 | 48°13′ | 313 |
| 151 | 28 16 | 008 | 25 38 | 069 | 38 17 | 105 | 20 27 | 164 | 38 05 | 248 | 53 54 | 277 | 47 29 | 312 |
| 152 | 28 24 | 008 | 26 34 | 069 | 39 15 | 105 | 20 44 | 164 | 37 10 | 248 | 52 55 | 277 | 46 44 | 312 |
| 153 | 28 32 | 007 | 27 30 | 069 | 40 13 | 106 | 21 00 | 164 | 36 14 | 248 | 51 55 | 277 | 45 59 | 311 |
| 154 | 28 39 | 007 | 28 26 | 069 | 41 10 | 106 | 21 16 | 165 | 35 18 | 249 | 50 56 | 277 | 45 14 | 310 |
| 155 | 28°46′ | 006 | 29°22′ | 069 | 42°08′ | 106 | 21°32′ | 165 | 34°22′ | 249 | 49°56′ | 277 | 44°28′ | 310 |
| 156 | 28 52 | 006 | 30 18 | 068 | 43 06 | 106 | 21 47 | 166 | 33 26 | 249 | 48 56 | 277 | 43 42 | 309 |
| 157 | 28 57 | 005 | 31 14 | 068 | 44 03 | 107 | 22 02 | 166 | 32 30 | 249 | 47 57 | 277 | 42 55 | 309 |
| 158 | 29 02 | 004 | 32 09 | 068 | 45 00 | 107 | 22 16 | 166 | 31 34 | 250 | 46 57 | 277 | 42 08 | 308 |
| 159 | 29 06 | 004 | 33 05 | 068 | 45 58 | 107 | 22 30 | 167 | 30 38 | 250 | 45 58 | 276 | 41 20 | 308 |
| 160 | 29°10′ | 003 | 34°00′ | 068 | 46°55′ | 108 | 22°43′ | 167 | 29°41′ | 250 | 44°58′ | 276 | 40°33′ | 307 |
| 161 | 29 14 | 003 | 34 56 | 067 | 47 52 | 108 | 22 56 | 168 | 28 45 | 250 | 43 58 | 276 | 39 45 | 307 |
| 162 | 29 16 | 002 | 35 51 | 067 | 48 49 | 108 | 23 09 | 168 | 27 48 | 250 | 42 59 | 276 | 38 56 | 306 |
| 163 | 29 18 | 002 | 36 46 | 067 | 49 46 | 109 | 23 21 | 169 | 26 52 | 251 | 41 59 | 276 | 38 08 | 306 |
| 164 | 29 20 | 001 | 37 41 | 066 | 50 43 | 109 | 23 33 | 169 | 25 55 | 251 | 40 59 | 276 | 37 19 | 305 |
| | Dubhe | | ✦ARCTURUS | | SPICA | | ✦ACRUX | | Suhail | | PROCYON | | ✦POLLUX | |
| 165 | 29°21′ | 001 | 38°36′ | 066 | 51°39′ | 110 | 23°44′ | 169 | 39°00′ | 206 | 40°00′ | 276 | 36°30′ | 305 |
| 166 | 29 21 | 000 | 39 31 | 066 | 52 36 | 110 | 23 55 | 170 | 38 33 | 207 | 39 00 | 276 | 35 40 | 304 |
| 167 | 29 21 | 000 | 40 25 | 066 | 53 32 | 111 | 24 05 | 170 | 38 06 | 207 | 38 00 | 276 | 34 51 | 304 |
| 168 | 29 20 | 359 | 41 20 | 065 | 54 28 | 111 | 24 15 | 171 | 37 38 | 208 | 37 01 | 276 | 34 01 | 304 |
| 169 | 29 19 | 358 | 42 14 | 065 | 55 24 | 112 | 24 24 | 171 | 37 10 | 209 | 36 01 | 276 | 33 11 | 303 |
| 170 | 29°17′ | 358 | 43°09′ | 064 | 56°19′ | 112 | 24°33′ | 172 | 36°41′ | 209 | 35°01′ | 276 | 32°21′ | 303 |
| 171 | 29 15 | 357 | 44 03 | 064 | 57 15 | 113 | 24 42 | 172 | 36 11 | 210 | 34 02 | 276 | 31 30 | 303 |
| 172 | 29 12 | 357 | 44 56 | 064 | 58 10 | 113 | 24 50 | 173 | 35 41 | 211 | 33 02 | 276 | 30 40 | 302 |
| 173 | 29 08 | 356 | 45 50 | 063 | 59 05 | 114 | 24 57 | 173 | 35 10 | 211 | 32 02 | 275 | 29 49 | 302 |
| 174 | 29 04 | 356 | 46 43 | 063 | 59 59 | 115 | 25 04 | 174 | 34 39 | 212 | 31 03 | 275 | 28 58 | 302 |
| 175 | 28°59′ | 355 | 47°37′ | 062 | 60°54′ | 116 | 25°10′ | 174 | 34°07′ | 212 | 30°03′ | 275 | 28°07′ | 302 |
| 176 | 28 54 | 355 | 48 30 | 062 | 61 47 | 116 | 25 16 | 175 | 33 34 | 213 | 29 03 | 275 | 27 16 | 301 |
| 177 | 28 48 | 354 | 49 22 | 061 | 62 41 | 117 | 25 22 | 175 | 33 01 | 214 | 28 03 | 275 | 26 24 | 301 |
| 178 | 28 42 | 354 | 50 15 | 061 | 63 34 | 118 | 25 27 | 176 | 32 28 | 214 | 27 04 | 275 | 25 33 | 301 |
| 179 | 28 35 | 353 | 51 07 | 060 | 64 27 | 119 | 25 31 | 176 | 31 54 | 215 | 26 04 | 275 | 24 41 | 301 |

# LAT 1°N

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ✦ARCTURUS | | ANTARES | | RIGIL KENT | | ✦ACRUX | | Suhail | | ✦REGULUS | | Dubhe | |
| 180 | 51°59′ | 059 | 19°25′ | 119 | 20°50′ | 160 | 25°35′ | 177 | 31°19′ | 215 | 60°30′ | 293 | 28°28′ | 353 |
| 181 | 52 50 | 059 | 20 18 | 119 | 21 10 | 161 | 25 38 | 177 | 30 44 | 216 | 59 35 | 292 | 28 20 | 352 |
| 182 | 53 41 | 058 | 21 10 | 119 | 21 30 | 161 | 25 41 | 178 | 30 09 | 216 | 58 39 | 292 | 28 11 | 352 |
| 183 | 54 32 | 057 | 22 03 | 119 | 21 49 | 162 | 25 43 | 178 | 29 34 | 217 | 57 43 | 291 | 28 02 | 351 |
| 184 | 55 22 | 057 | 22 55 | 119 | 22 08 | 162 | 25 45 | 179 | 28 58 | 217 | 56 47 | 290 | 27 53 | 351 |
| 185 | 56°12′ | 056 | 23°47′ | 120 | 22°26′ | 162 | 25°47′ | 179 | 28°21′ | 218 | 55°50′ | 290 | 27°43′ | 350 |
| 186 | 57 02 | 055 | 24 39 | 120 | 22 44 | 163 | 25 47 | 180 | 27 44 | 218 | 54 54 | 289 | 27 32 | 350 |
| 187 | 57 51 | 054 | 25 31 | 120 | 23 02 | 163 | 25 48 | 180 | 27 07 | 218 | 53 57 | 289 | 27 21 | 349 |
| 188 | 58 39 | 053 | 26 23 | 120 | 23 19 | 164 | 25 47 | 181 | 26 30 | 219 | 53 01 | 289 | 27 09 | 349 |
| 189 | 59 27 | 052 | 27 15 | 121 | 23 36 | 164 | 25 46 | 181 | 25 52 | 219 | 52 04 | 288 | 26 57 | 348 |
| 190 | 60°14′ | 051 | 28°06′ | 121 | 23°52′ | 164 | 25°45′ | 182 | 25°14′ | 220 | 51°07′ | 288 | 26°44′ | 348 |
| 191 | 61 00 | 050 | 28 58 | 121 | 24 08 | 165 | 25 43 | 182 | 24 35 | 220 | 50 09 | 287 | 26 31 | 347 |
| 192 | 61 45 | 049 | 29 49 | 122 | 24 23 | 165 | 25 41 | 183 | 23 56 | 220 | 49 12 | 287 | 26 18 | 347 |
| 193 | 62 30 | 048 | 30 40 | 122 | 24 38 | 166 | 25 38 | 183 | 23 17 | 221 | 48 15 | 287 | 26 04 | 346 |
| 194 | 63 14 | 046 | 31 31 | 122 | 24 53 | 166 | 25 34 | 184 | 22 38 | 221 | 47 17 | 287 | 25 49 | 346 |
| | ✦Alphecca | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 195 | 44°42′ | 052 | 20°44′ | 077 | 32°21′ | 123 | 25°07′ | 167 | 25°31′ | 184 | 46°20′ | 286 | 25°34′ | 345 |
| 196 | 45 30 | 052 | 21 43 | 077 | 33 12 | 123 | 25 20 | 167 | 25 26 | 185 | 45 22 | 286 | 25 19 | 345 |
| 197 | 46 16 | 051 | 22 41 | 077 | 34 02 | 123 | 25 33 | 168 | 25 21 | 185 | 44 24 | 286 | 25 03 | 344 |
| 198 | 47 03 | 050 | 23 40 | 077 | 34 52 | 124 | 25 46 | 168 | 25 16 | 185 | 43 27 | 285 | 24 47 | 344 |
| 199 | 47 49 | 050 | 24 38 | 077 | 35 42 | 124 | 25 58 | 169 | 25 10 | 186 | 42 29 | 285 | 24 30 | 344 |
| 200 | 48°34′ | 049 | 25°36′ | 077 | 36°31′ | 125 | 26°09′ | 169 | 25°03′ | 186 | 41°31′ | 285 | 24°13′ | 343 |
| 201 | 49 19 | 048 | 26 35 | 076 | 37 20 | 125 | 26 20 | 170 | 24 56 | 187 | 40 33 | 285 | 23 55 | 343 |
| 202 | 50 03 | 047 | 27 33 | 076 | 38 09 | 126 | 26 31 | 170 | 24 49 | 187 | 39 35 | 285 | 23 37 | 342 |
| 203 | 50 47 | 047 | 28 31 | 076 | 38 58 | 126 | 26 41 | 171 | 24 41 | 188 | 38 37 | 284 | 23 19 | 342 |
| 204 | 51 30 | 046 | 29 30 | 076 | 39 46 | 126 | 26 50 | 171 | 24 32 | 188 | 37 39 | 284 | 23 00 | 342 |
| 205 | 52°13′ | 045 | 30°28′ | 076 | 40°35′ | 127 | 26°59′ | 172 | 24°23′ | 189 | 36°40′ | 284 | 22°41′ | 341 |
| 206 | 52 55 | 044 | 31 26 | 076 | 41 22 | 128 | 27 07 | 172 | 24 14 | 189 | 35 42 | 284 | 22 21 | 341 |
| 207 | 53 36 | 043 | 32 24 | 076 | 42 10 | 128 | 27 15 | 173 | 24 04 | 190 | 34 44 | 284 | 22 01 | 340 |
| 208 | 54 17 | 042 | 33 22 | 076 | 42 57 | 129 | 27 22 | 173 | 23 53 | 190 | 33 46 | 284 | 21 41 | 340 |
| 209 | 54 56 | 041 | 34 20 | 075 | 43 43 | 129 | 27 29 | 174 | 23 42 | 191 | 32 47 | 284 | 21 21 | 340 |
| | ✦VEGA | | Rasalhague | | ANTARES | | ✦RIGIL KENT | | ACRUX | | ✦REGULUS | | Dubhe | |
| 210 | 16°34′ | 050 | 35°18′ | 075 | 44°29′ | 130 | 27°35′ | 174 | 23°31′ | 191 | 31°49′ | 283 | 21°00′ | 339 |
| 211 | 17 19 | 049 | 36 16 | 075 | 45 15 | 131 | 27 41 | 175 | 23 19 | 192 | 30 51 | 283 | 20 38 | 339 |
| 212 | 18 05 | 049 | 37 14 | 075 | 46 01 | 131 | 27 46 | 175 | 23 07 | 192 | 29 52 | 283 | 20 17 | 339 |
| 213 | 18 50 | 049 | 38 12 | 075 | 46 45 | 132 | 27 50 | 176 | 22 54 | 192 | 28 54 | 283 | 19 55 | 338 |
| 214 | 19 35 | 049 | 39 10 | 075 | 47 30 | 133 | 27 54 | 177 | 22 41 | 193 | 27 55 | 283 | 19 33 | 338 |
| 215 | 20°20′ | 049 | 40°08′ | 074 | 48°13′ | 134 | 27°57′ | 177 | 22°28′ | 193 | 26°57′ | 283 | 19°10′ | 338 |
| 216 | 21 05 | 048 | 41 06 | 074 | 48 57 | 134 | 28 00 | 178 | 22 14 | 194 | 25 58 | 283 | 18 47 | 337 |
| 217 | 21 50 | 048 | 42 03 | 074 | 49 39 | 135 | 28 02 | 178 | 21 59 | 194 | 25 00 | 283 | 18 24 | 337 |
| 218 | 22 35 | 048 | 43 01 | 074 | 50 21 | 136 | 28 04 | 179 | 21 45 | 195 | 24 01 | 283 | 18 01 | 337 |
| 219 | 23 19 | 048 | 43 59 | 073 | 51 03 | 137 | 28 05 | 179 | 21 29 | 195 | 23 03 | 282 | 17 37 | 337 |
| 220 | 24°03′ | 047 | 44°56′ | 073 | 51°43′ | 138 | 28°05′ | 180 | 21°14′ | 195 | 22°04′ | 282 | 17°13′ | 336 |
| 221 | 24 47 | 047 | 45 53 | 073 | 52 23 | 139 | 28 05 | 180 | 20 58 | 196 | 21 06 | 282 | 16 49 | 336 |
| 222 | 25 31 | 047 | 46 51 | 073 | 53 02 | 140 | 28 04 | 181 | 20 41 | 196 | 20 07 | 282 | 16 25 | 336 |
| 223 | 26 14 | 046 | 47 48 | 072 | 53 40 | 141 | 28 03 | 182 | 20 24 | 196 | 19 08 | 282 | 16 00 | 336 |
| 224 | 26 58 | 046 | 48 45 | 072 | 54 18 | 142 | 28 01 | 182 | 20 07 | 197 | 18 10 | 282 | 15 35 | 335 |
| | VEGA | | ✦ALTAIR | | Nunki | | ANTARES | | ✦RIGIL KENT | | SPICA | | ✦ARCTURUS | |
| 225 | 27°41′ | 046 | 17°01′ | 081 | 26°54′ | 120 | 54°54′ | 143 | 27°59′ | 183 | 63°40′ | 242 | 69°01′ | 330 |
| 226 | 28 23 | 045 | 18 00 | 081 | 27 46 | 121 | 55 30 | 144 | 27 56 | 183 | 62 47 | 243 | 68 30 | 328 |
| 227 | 29 06 | 045 | 18 59 | 081 | 28 37 | 121 | 56 04 | 146 | 27 52 | 184 | 61 54 | 243 | 67 58 | 326 |
| 228 | 29 48 | 045 | 19 58 | 081 | 29 29 | 121 | 56 37 | 147 | 27 48 | 184 | 61 00 | 244 | 67 23 | 324 |
| 229 | 30 30 | 044 | 20 58 | 081 | 30 20 | 122 | 57 10 | 148 | 27 43 | 185 | 60 06 | 245 | 66 47 | 322 |
| 230 | 31°12′ | 044 | 21°57′ | 081 | 31°11′ | 122 | 57°41′ | 149 | 27°38′ | 185 | 59°11′ | 246 | 66°09′ | 320 |
| 231 | 31 53 | 043 | 22 56 | 081 | 32 02 | 122 | 58 11 | 151 | 27 32 | 186 | 58 16 | 246 | 65 30 | 319 |
| 232 | 32 34 | 043 | 23 55 | 081 | 32 52 | 123 | 58 39 | 152 | 27 25 | 186 | 57 21 | 247 | 64 50 | 317 |
| 233 | 33 15 | 042 | 24 54 | 081 | 33 43 | 123 | 59 06 | 154 | 27 18 | 187 | 56 26 | 248 | 64 09 | 316 |
| 234 | 33 55 | 042 | 25 54 | 081 | 34 33 | 123 | 59 32 | 155 | 27 11 | 187 | 55 30 | 248 | 63 26 | 314 |
| 235 | 34°35′ | 041 | 26°53′ | 080 | 35°23′ | 124 | 59°56′ | 157 | 27°03′ | 188 | 54°34′ | 249 | 62°42′ | 313 |
| 236 | 35 15 | 041 | 27 52 | 080 | 36 13 | 124 | 60 19 | 159 | 26 54 | 189 | 53 38 | 249 | 61 58 | 312 |
| 237 | 35 54 | 040 | 28 51 | 080 | 37 02 | 125 | 60 40 | 160 | 26 45 | 189 | 52 42 | 250 | 61 13 | 310 |
| 238 | 36 32 | 040 | 29 50 | 080 | 37 52 | 125 | 60 59 | 162 | 26 35 | 190 | 51 46 | 250 | 60 27 | 309 |
| 239 | 37 11 | 039 | 30 49 | 080 | 38 41 | 126 | 61 17 | 164 | 26 25 | 190 | 50 49 | 251 | 59 40 | 308 |
| | VEGA | | ✦ALTAIR | | Nunki | | ✦ANTARES | | SPICA | | ✦ARCTURUS | | Alkaid | |
| 240 | 37°49′ | 039 | 31°48′ | 080 | 39°29′ | 126 | 61°33′ | 166 | 49°52′ | 251 | 58°52′ | 307 | 34°09′ | 335 |
| 241 | 38 26 | 038 | 32 48 | 080 | 40 18 | 127 | 61 47 | 167 | 48 56 | 251 | 58 04 | 306 | 33 43 | 334 |
| 242 | 39 03 | 038 | 33 47 | 080 | 41 06 | 127 | 61 59 | 169 | 47 59 | 252 | 57 15 | 305 | 33 17 | 333 |
| 243 | 39 39 | 037 | 34 46 | 080 | 41 53 | 128 | 62 10 | 171 | 47 02 | 252 | 56 26 | 304 | 32 50 | 333 |
| 244 | 40 15 | 036 | 35 45 | 080 | 42 41 | 128 | 62 18 | 173 | 46 04 | 253 | 55 36 | 304 | 32 22 | 332 |
| 245 | 40°50′ | 036 | 36°44′ | 080 | 43°28′ | 129 | 62°24′ | 175 | 45°07′ | 253 | 54°46′ | 303 | 31°54′ | 332 |
| 246 | 41 25 | 035 | 37 43 | 079 | 44 14 | 129 | 62 29 | 177 | 44 10 | 253 | 53 56 | 302 | 31 25 | 331 |
| 247 | 41 59 | 034 | 38 42 | 079 | 45 00 | 130 | 62 31 | 179 | 43 12 | 253 | 53 05 | 301 | 30 56 | 331 |
| 248 | 42 32 | 033 | 39 41 | 079 | 45 46 | 131 | 62 31 | 181 | 42 15 | 254 | 52 13 | 301 | 30 27 | 330 |
| 249 | 43 05 | 033 | 40 40 | 079 | 46 31 | 131 | 62 30 | 183 | 41 17 | 254 | 51 21 | 300 | 29 57 | 330 |
| 250 | 43°37′ | 032 | 41°38′ | 079 | 47°16′ | 132 | 62°26′ | 185 | 40°19′ | 254 | 50°29′ | 300 | 29°26′ | 329 |
| 251 | 44 08 | 031 | 42 37 | 079 | 48 00 | 133 | 62 20 | 186 | 39 22 | 255 | 49 37 | 299 | 28 55 | 329 |
| 252 | 44 39 | 030 | 43 36 | 079 | 48 44 | 134 | 62 13 | 188 | 38 24 | 255 | 48 44 | 298 | 28 24 | 328 |
| 253 | 45 08 | 029 | 44 35 | 078 | 49 27 | 135 | 62 03 | 190 | 37 26 | 255 | 47 51 | 298 | 27 52 | 328 |
| 254 | 45 38 | 029 | 45 34 | 078 | 50 09 | 135 | 61 51 | 192 | 36 28 | 255 | 46 58 | 297 | 27 20 | 328 |
| | ✦VEGA | | ALTAIR | | ✦Nunki | | ANTARES | | ✦SPICA | | ARCTURUS | | Alkaid | |
| 255 | 46°06′ | 028 | 46°32′ | 078 | 50°51′ | 136 | 61°38′ | 194 | 35°30′ | 255 | 46°05′ | 297 | 26°48′ | 327 |
| 256 | 46 33 | 027 | 47 31 | 078 | 51 32 | 137 | 61 22 | 196 | 34 32 | 256 | 45 11 | 297 | 26 15 | 327 |
| 257 | 47 00 | 026 | 48 30 | 078 | 52 13 | 138 | 61 05 | 197 | 33 34 | 256 | 44 18 | 296 | 25 42 | 326 |
| 258 | 47 25 | 025 | 49 28 | 077 | 52 52 | 139 | 60 46 | 199 | 32 35 | 256 | 43 24 | 296 | 25 09 | 326 |
| 259 | 47 50 | 024 | 50 27 | 077 | 53 31 | 140 | 60 26 | 201 | 31 37 | 256 | 42 30 | 295 | 24 35 | 326 |
| 260 | 48°14′ | 023 | 51°25′ | 077 | 54°09′ | 141 | 60°03′ | 203 | 30°39′ | 256 | 41°35′ | 295 | 24°01′ | 325 |
| 261 | 48 37 | 022 | 52 24 | 077 | 54 46 | 142 | 59 40 | 204 | 29 41 | 256 | 40 41 | 295 | 23 27 | 325 |
| 262 | 48 59 | 021 | 53 22 | 076 | 55 22 | 144 | 59 14 | 206 | 28 42 | 257 | 39 46 | 294 | 22 52 | 325 |
| 263 | 49 19 | 020 | 54 20 | 076 | 55 57 | 145 | 58 48 | 207 | 27 44 | 257 | 38 51 | 294 | 22 17 | 324 |
| 264 | 49 39 | 019 | 55 18 | 076 | 56 32 | 146 | 58 20 | 209 | 26 46 | 257 | 37 56 | 294 | 21 42 | 324 |
| 265 | 49°58′ | 018 | 56°16′ | 075 | 57°05′ | 147 | 57°50′ | 210 | 25°47′ | 257 | 37°01′ | 293 | 21°06′ | 324 |
| 266 | 50 15 | 016 | 57 14 | 075 | 57 36 | 149 | 57 19 | 211 | 24 49 | 257 | 36 06 | 293 | 20 31 | 323 |
| 267 | 50 32 | 015 | 58 12 | 075 | 58 07 | 150 | 56 48 | 213 | 23 50 | 257 | 35 11 | 293 | 19 55 | 323 |
| 268 | 50 47 | 014 | 59 10 | 074 | 58 36 | 151 | 56 14 | 214 | 22 52 | 257 | 34 16 | 293 | 19 18 | 323 |
| 269 | 51 01 | 013 | 60 08 | 074 | 59 04 | 153 | 55 40 | 215 | 21 53 | 257 | 33 20 | 292 | 18 42 | 323 |

| LHA ♈ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | VEGA | | ✦DENEB | | FOMALHAUT | | ✦Peacock | | Shaula | | ANTARES | | ✦ARCTURUS | |
| 270 | 51°14′ | 012 | 33°08′ | 033 | 12°47′ | 121 | 25°10′ | 159 | 51°27′ | 188 | 55°05′ | 216 | 32°25′ | 292 |
| 271 | 51 25 | 011 | 33 40 | 033 | 13 38 | 121 | 25 32 | 159 | 51 18 | 189 | 54 29 | 218 | 31 29 | 292 |
| 272 | 51 36 | 009 | 34 12 | 032 | 14 30 | 121 | 25 53 | 160 | 51 07 | 191 | 53 52 | 219 | 30 33 | 292 |
| 273 | 51 45 | 008 | 34 44 | 031 | 15 21 | 121 | 26 14 | 160 | 50 56 | 192 | 53 14 | 220 | 29 38 | 291 |
| 274 | 51 52 | 007 | 35 15 | 031 | 16 13 | 121 | 26 34 | 161 | 50 43 | 193 | 52 35 | 221 | 28 42 | 291 |
| 275 | 51°59′ | 006 | 35°45′ | 030 | 17°04′ | 121 | 26°54′ | 161 | 50°29′ | 194 | 51°56′ | 222 | 27°46′ | 291 |
| 276 | 52 04 | 004 | 36 15 | 030 | 17 55 | 122 | 27 13 | 162 | 50 14 | 195 | 51 15 | 223 | 26 50 | 291 |
| 277 | 52 08 | 003 | 36 44 | 029 | 18 46 | 122 | 27 32 | 162 | 49 57 | 197 | 50 34 | 224 | 25 54 | 291 |
| 278 | 52 10 | 002 | 37 13 | 028 | 19 37 | 122 | 27 50 | 163 | 49 39 | 198 | 49 52 | 225 | 24 58 | 291 |
| 279 | 52 12 | 001 | 37 41 | 028 | 20 28 | 122 | 28 08 | 163 | 49 21 | 199 | 49 10 | 225 | 24 01 | 290 |
| 280 | 52°12′ | 359 | 38°09′ | 027 | 21°19′ | 122 | 28°25′ | 164 | 49°01′ | 200 | 48°27′ | 226 | 23°05′ | 290 |
| 281 | 52 10 | 358 | 38 36 | 026 | 22 09 | 123 | 28 41 | 164 | 48 40 | 201 | 47 43 | 227 | 22 09 | 290 |
| 282 | 52 07 | 357 | 39 02 | 026 | 23 00 | 123 | 28 57 | 165 | 48 18 | 202 | 46 59 | 228 | 21 13 | 290 |
| 283 | 52 03 | 355 | 39 28 | 025 | 23 50 | 123 | 29 13 | 165 | 47 55 | 203 | 46 14 | 228 | 20 16 | 290 |
| 284 | 51 58 | 354 | 39 52 | 024 | 24 40 | 123 | 29 28 | 166 | 47 31 | 204 | 45 29 | 229 | 19 20 | 290 |
| | DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | ✦VEGA | |
| 285 | 40°17′ | 023 | 11°31′ | 060 | 25°30′ | 124 | 29°42′ | 166 | 44°44′ | 230 | 66°10′ | 300 | 51°51′ | 353 |
| 286 | 40 40 | 023 | 12 23 | 060 | 26 20 | 124 | 29 56 | 167 | 43 58 | 230 | 65 18 | 299 | 51 43 | 352 |
| 287 | 41 03 | 022 | 13 15 | 060 | 27 10 | 124 | 30 09 | 168 | 43 11 | 231 | 64 25 | 298 | 51 34 | 350 |
| 288 | 41 25 | 021 | 14 07 | 060 | 27 59 | 125 | 30 22 | 168 | 42 24 | 232 | 63 31 | 297 | 51 23 | 349 |
| 289 | 41 46 | 020 | 14 59 | 060 | 28 49 | 125 | 30 34 | 169 | 41 37 | 232 | 62 38 | 296 | 51 11 | 348 |
| 290 | 42°06′ | 019 | 15°51′ | 060 | 29°38′ | 125 | 30°45′ | 169 | 40°49′ | 233 | 61°44′ | 295 | 50°58′ | 347 |
| 291 | 42 26 | 019 | 16 43 | 060 | 30 27 | 126 | 30 56 | 170 | 40 01 | 233 | 60 49 | 294 | 50 44 | 346 |
| 292 | 42 44 | 018 | 17 35 | 060 | 31 15 | 126 | 31 06 | 171 | 39 13 | 234 | 59 54 | 294 | 50 29 | 345 |
| 293 | 43 02 | 017 | 18 26 | 059 | 32 04 | 126 | 31 16 | 171 | 38 24 | 234 | 58 59 | 293 | 50 12 | 343 |
| 294 | 43 19 | 016 | 19 18 | 059 | 32 52 | 127 | 31 25 | 172 | 37 36 | 235 | 58 04 | 293 | 49 54 | 342 |
| 295 | 43°35′ | 015 | 20°09′ | 059 | 33°40′ | 127 | 31°33′ | 172 | 36°46′ | 235 | 57°09′ | 292 | 49°35′ | 341 |
| 296 | 43 50 | 014 | 21 01 | 059 | 34 28 | 128 | 31 40 | 173 | 35 57 | 236 | 56 13 | 291 | 49 15 | 340 |
| 297 | 44 04 | 013 | 21 52 | 059 | 35 15 | 128 | 31 47 | 174 | 35 07 | 236 | 55 17 | 291 | 48 54 | 339 |
| 298 | 44 18 | 012 | 22 43 | 059 | 36 02 | 128 | 31 54 | 174 | 34 17 | 237 | 54 21 | 290 | 48 32 | 338 |
| 299 | 44 30 | 011 | 23 35 | 058 | 36 49 | 129 | 31 59 | 175 | 33 27 | 237 | 53 24 | 290 | 48 09 | 337 |
| | ✦DENEB | | Alpheratz | | ✦FOMALHAUT | | Peacock | | ✦ANTARES | | Rasalhague | | VEGA | |
| 300 | 44°41′ | 010 | 24°26′ | 058 | 37°35′ | 129 | 32°04′ | 176 | 32°37′ | 237 | 52°28′ | 290 | 47°45′ | 336 |
| 301 | 44 52 | 009 | 25 16 | 058 | 38 22 | 130 | 32 08 | 176 | 31 46 | 238 | 51 31 | 289 | 47 21 | 335 |
| 302 | 45 01 | 008 | 26 07 | 058 | 39 07 | 130 | 32 12 | 177 | 30 55 | 238 | 50 35 | 289 | 46 55 | 334 |
| 303 | 45 09 | 007 | 26 58 | 057 | 39 53 | 131 | 32 15 | 178 | 30 05 | 238 | 49 38 | 288 | 46 28 | 333 |
| 304 | 45 17 | 007 | 27 48 | 057 | 40 38 | 132 | 32 17 | 178 | 29 13 | 239 | 48 41 | 288 | 46 00 | 332 |
| 305 | 45°23′ | 006 | 28°39′ | 057 | 41°23′ | 132 | 32°19′ | 179 | 28°22′ | 239 | 47°44′ | 288 | 45°32′ | 331 |
| 306 | 45 28 | 005 | 29 29 | 057 | 42 07 | 133 | 32 20 | 179 | 27 31 | 239 | 46 46 | 287 | 45 03 | 330 |
| 307 | 45 32 | 004 | 30 19 | 056 | 42 51 | 133 | 32 20 | 180 | 26 39 | 239 | 45 49 | 287 | 44 33 | 330 |
| 308 | 45 36 | 003 | 31 09 | 056 | 43 34 | 134 | 32 19 | 181 | 25 47 | 240 | 44 52 | 287 | 44 02 | 329 |
| 309 | 45 38 | 002 | 31 58 | 056 | 44 17 | 135 | 32 18 | 181 | 24 55 | 240 | 43 54 | 287 | 43 30 | 328 |
| 310 | 45°39′ | 001 | 32°48′ | 055 | 44°59′ | 136 | 32°16′ | 182 | 24°03′ | 240 | 42°57′ | 286 | 42°58′ | 327 |
| 311 | 45 39 | 000 | 33 37 | 055 | 45 41 | 136 | 32 14 | 183 | 23 11 | 240 | 41 59 | 286 | 42 25 | 326 |
| 312 | 45 38 | 359 | 34 26 | 055 | 46 22 | 137 | 32 11 | 183 | 22 19 | 241 | 41 01 | 286 | 41 52 | 326 |
| 313 | 45 36 | 358 | 35 15 | 054 | 47 02 | 138 | 32 07 | 184 | 21 27 | 241 | 40 04 | 286 | 41 18 | 325 |
| 314 | 45 33 | 357 | 36 03 | 054 | 47 42 | 139 | 32 02 | 185 | 20 34 | 241 | 39 06 | 285 | 40 43 | 324 |
| | ✦Alpheratz | | ✦FOMALHAUT | | Peacock | | Nunki | | ✦Rasalhague | | VEGA | | DENEB | |
| 315 | 36°51′ | 053 | 48°21′ | 140 | 31°57′ | 185 | 49°37′ | 225 | 38°08′ | 285 | 40°08′ | 324 | 45°28′ | 356 |
| 316 | 37 39 | 053 | 49 00 | 140 | 31 51 | 186 | 48 54 | 226 | 37 10 | 285 | 39 32 | 323 | 45 23 | 355 |
| 317 | 38 27 | 052 | 49 38 | 141 | 31 45 | 187 | 48 11 | 227 | 36 12 | 285 | 38 55 | 322 | 45 17 | 354 |
| 318 | 39 15 | 052 | 50 15 | 142 | 31 37 | 187 | 47 27 | 228 | 35 14 | 285 | 38 19 | 322 | 45 10 | 353 |
| 319 | 40 02 | 051 | 50 51 | 143 | 31 30 | 188 | 46 42 | 228 | 34 16 | 285 | 37 41 | 321 | 45 01 | 352 |
| 320 | 40°48′ | 051 | 51°27′ | 144 | 31°21′ | 188 | 45°57′ | 229 | 33°18′ | 284 | 37°03′ | 321 | 44°52′ | 351 |
| 321 | 41 35 | 050 | 52 01 | 145 | 31 12 | 189 | 45 11 | 230 | 32 20 | 284 | 36 25 | 320 | 44 42 | 350 |
| 322 | 42 21 | 050 | 52 35 | 146 | 31 02 | 190 | 44 25 | 230 | 31 22 | 284 | 35 46 | 319 | 44 31 | 349 |
| 323 | 43 07 | 049 | 53 07 | 148 | 30 52 | 190 | 43 39 | 231 | 30 23 | 284 | 35 07 | 319 | 44 18 | 348 |
| 324 | 43 52 | 049 | 53 39 | 149 | 30 41 | 191 | 42 52 | 232 | 29 25 | 284 | 34 27 | 318 | 44 05 | 347 |
| 325 | 44°37′ | 048 | 54°09′ | 150 | 30°29′ | 191 | 42°05′ | 232 | 28°27′ | 284 | 33°47′ | 318 | 43°51′ | 346 |
| 326 | 45 21 | 047 | 54 39 | 151 | 30 17 | 192 | 41 17 | 233 | 27 29 | 284 | 33 07 | 317 | 43 36 | 345 |
| 327 | 46 05 | 047 | 55 07 | 152 | 30 04 | 193 | 40 29 | 233 | 26 30 | 284 | 32 26 | 317 | 43 20 | 344 |
| 328 | 46 49 | 046 | 55 34 | 154 | 29 51 | 193 | 39 41 | 234 | 25 32 | 283 | 31 45 | 317 | 43 03 | 343 |
| 329 | 47 31 | 045 | 56 00 | 155 | 29 36 | 194 | 38 52 | 234 | 24 34 | 283 | 31 04 | 316 | 42 45 | 342 |
| | ✦Alpheratz | | Diphda | | ✦FOMALHAUT | | Peacock | | ✦ALTAIR | | VEGA | | DENEB | |
| 330 | 48°14′ | 045 | 45°20′ | 117 | 56°25′ | 157 | 29°22′ | 194 | 57°07′ | 285 | 30°22′ | 316 | 42°27′ | 341 |
| 331 | 48 56 | 044 | 46 13 | 118 | 56 48 | 158 | 29 07 | 195 | 56 09 | 285 | 29 40 | 315 | 42 07 | 341 |
| 332 | 49 37 | 043 | 47 06 | 118 | 57 10 | 159 | 28 51 | 195 | 55 11 | 284 | 28 58 | 315 | 41 47 | 340 |
| 333 | 50 17 | 042 | 47 59 | 119 | 57 30 | 161 | 28 35 | 196 | 54 13 | 284 | 28 15 | 315 | 41 26 | 339 |
| 334 | 50 57 | 041 | 48 52 | 119 | 57 49 | 162 | 28 18 | 197 | 53 14 | 284 | 27 32 | 314 | 41 04 | 338 |
| 335 | 51°36′ | 040 | 49°44′ | 120 | 58°07′ | 164 | 28°00′ | 197 | 52°16′ | 283 | 26°49′ | 314 | 40°41′ | 337 |
| 336 | 52 15 | 039 | 50 36 | 120 | 58 23 | 165 | 27 42 | 198 | 51 18 | 283 | 26 06 | 314 | 40 18 | 337 |
| 337 | 52 52 | 038 | 51 28 | 121 | 58 37 | 167 | 27 24 | 198 | 50 19 | 283 | 25 22 | 313 | 39 54 | 336 |
| 338 | 53 29 | 037 | 52 19 | 122 | 58 49 | 169 | 27 05 | 199 | 49 21 | 283 | 24 38 | 313 | 39 29 | 335 |
| 339 | 54 05 | 036 | 53 10 | 122 | 59 00 | 170 | 26 46 | 199 | 48 22 | 282 | 23 54 | 313 | 39 03 | 334 |
| 340 | 54°40′ | 035 | 54°00′ | 123 | 59°09′ | 172 | 26°26′ | 200 | 47°24′ | 282 | 23°10′ | 312 | 38°37′ | 334 |
| 341 | 55 14 | 034 | 54 50 | 124 | 59 17 | 174 | 26 05 | 200 | 46 25 | 282 | 22 26 | 312 | 38 10 | 333 |
| 342 | 55 46 | 033 | 55 40 | 125 | 59 23 | 175 | 25 45 | 201 | 45 26 | 282 | 21 41 | 312 | 37 43 | 332 |
| 343 | 56 18 | 031 | 56 29 | 126 | 59 26 | 177 | 25 23 | 201 | 44 27 | 282 | 20 56 | 312 | 37 15 | 332 |
| 344 | 56 49 | 030 | 57 17 | 127 | 59 29 | 179 | 25 01 | 202 | 43 29 | 281 | 20 12 | 311 | 36 46 | 331 |
| | Alpheratz | | ✦Hamal | | Acamar | | ✦ACHERNAR | | FOMALHAUT | | ✦ALTAIR | | DENEB | |
| 345 | 57°19′ | 029 | 39°08′ | 060 | 21°55′ | 135 | 23°47′ | 158 | 59°29′ | 181 | 42°30′ | 281 | 36°17′ | 330 |
| 346 | 57 47 | 027 | 40 00 | 060 | 22 38 | 135 | 24 10 | 158 | 59 27 | 182 | 41 31 | 281 | 35 47 | 330 |
| 347 | 58 14 | 026 | 40 52 | 059 | 23 20 | 135 | 24 32 | 159 | 59 24 | 184 | 40 32 | 281 | 35 16 | 329 |
| 348 | 58 39 | 025 | 41 43 | 059 | 24 02 | 136 | 24 53 | 159 | 59 19 | 186 | 39 33 | 281 | 34 45 | 329 |
| 349 | 59 04 | 023 | 42 34 | 058 | 24 44 | 136 | 25 14 | 160 | 59 12 | 187 | 38 34 | 281 | 34 14 | 328 |
| 350 | 59°26′ | 022 | 43°25′ | 058 | 25°25′ | 136 | 25°35′ | 160 | 59°04′ | 189 | 37°35′ | 281 | 33°42′ | 328 |
| 351 | 59 48 | 020 | 44 16 | 057 | 26 07 | 137 | 25 55 | 160 | 58 53 | 191 | 36 36 | 280 | 33 09 | 327 |
| 352 | 60 07 | 018 | 45 06 | 057 | 26 48 | 137 | 26 15 | 161 | 58 42 | 192 | 35 37 | 280 | 32 36 | 326 |
| 353 | 60 26 | 017 | 45 56 | 056 | 27 28 | 137 | 26 35 | 161 | 58 28 | 194 | 34 38 | 280 | 32 03 | 326 |
| 354 | 60 42 | 015 | 46 46 | 056 | 28 09 | 138 | 26 53 | 162 | 58 13 | 196 | 33 39 | 280 | 31 29 | 325 |
| 355 | 60°57′ | 013 | 47°35′ | 055 | 28°49′ | 138 | 27°12′ | 162 | 57°56′ | 197 | 32°40′ | 280 | 30°55′ | 325 |
| 356 | 61 09 | 012 | 48 24 | 054 | 29 28 | 139 | 27 30 | 163 | 57 37 | 199 | 31 41 | 280 | 30 20 | 325 |
| 357 | 61 21 | 010 | 49 13 | 054 | 30 08 | 139 | 27 47 | 163 | 57 18 | 200 | 30 42 | 280 | 29 45 | 324 |
| 358 | 61 30 | 008 | 50 01 | 053 | 30 47 | 140 | 28 04 | 164 | 56 56 | 202 | 29 43 | 280 | 29 10 | 324 |
| 359 | 61 37 | 006 | 50 48 | 052 | 31 26 | 140 | 28 20 | 165 | 56 34 | 203 | 28 44 | 280 | 28 34 | 323 |