

| LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | | | | | | | | |
|-----|-----------|-----------|-----------|-----------|-----------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 0 | POLLUX | 23°08'059 | *CAPELLA | 46°55'090 | Hamal | 31°55'145 | Alpheratz | 39°13'177 | *DENE | 51°17'239 | VEGA | 39°45'269 | *Alioth | 46°03'349 | 180 | *DENE | 38°26'043 | VEGA | 36°31'073 | *ARCTURUS | 27°12'143 | REGULUS | 20°39'209 | POLLUX | 32°03'249 | *CAPELLA | 43°24'290 | Alpheratz | 19°14'358 | | | | |
| 2 | 23 26 061 | 47 16 092 | 32 07 147 | 39 14 180 | 50 59 241 | 39 24 271 | 46 00 350 | 182 | 38 40 045 | 36 51 075 | 27 25 145 | 20 29 211 | 31 44 251 | 43 04 292 | 19 14 001 | 38 55 046 | 37 11 077 | 27 36 148 | 20 18 213 | 31 24 253 | 42 45 294 | 31 04 255 | 42 26 295 | 19 15 005 | 42 07 297 | 19 16 005 | | | | | | | |
| 4 | 23 44 063 | 47 37 094 | 32 28 151 | 39 12 184 | 50 22 245 | 38 42 275 | 45 54 354 | 186 | 39 10 048 | 37 31 079 | 27 47 150 | 20 06 215 | 31 04 255 | 42 26 295 | 19 15 005 | 39 26 050 | 37 52 081 | 27 57 152 | 19 54 217 | 30 44 257 | 42 07 297 | 19 16 005 | 42 07 297 | 19 16 005 | | | | | | | | | |
| 6 | 24 03 065 | 47 58 096 | 32 38 154 | 39 11 186 | 50 02 247 | 38 22 277 | 45 52 355 | 188 | 39 10 048 | 37 31 079 | 27 47 150 | 20 06 215 | 31 04 255 | 42 26 295 | 19 15 005 | 39 26 050 | 37 52 081 | 27 57 152 | 19 54 217 | 30 44 257 | 42 07 297 | 19 16 005 | 42 07 297 | 19 16 005 | | | | | | | | | |
| 8 | 24 22 067 | 48 18 098 | 32 38 154 | 39 11 186 | 50 02 247 | 38 22 277 | 45 52 355 | 188 | 39 10 048 | 37 31 079 | 27 47 150 | 20 06 215 | 31 04 255 | 42 26 295 | 19 15 005 | 39 26 050 | 37 52 081 | 27 57 152 | 19 54 217 | 30 44 257 | 42 07 297 | 19 16 005 | 42 07 297 | 19 16 005 | | | | | | | | | |
| 10 | 24 41 069 | 48 39 100 | 32 47 156 | 39 08 189 | 49 43 249 | 38 01 278 | 45 50 357 | 190 | 39 04 257 | 37 23 149 | 27 36 148 | 20 18 213 | 31 24 253 | 42 45 294 | 19 14 001 | 25 01 071 | 48 59 102 | 32 55 158 | 39 04 191 | 49 23 251 | 37 40 300 | 35 20 280 | 45 49 002 | 36 39 286 | 45 51 003 | 19 34 016 | | | | | | | |
| 12 | 25 01 069 | 49 00 104 | 33 02 160 | 39 00 193 | 49 04 254 | 37 20 282 | 45 49 002 | 194 | 40 16 055 | 38 54 086 | 28 24 158 | 19 14 223 | 29 42 263 | 41 13 303 | 19 25 011 | 25 21 072 | 49 20 106 | 33 09 162 | 38 55 195 | 48 44 256 | 37 00 284 | 45 50 002 | 36 39 286 | 45 51 003 | 19 34 016 | | | | | | | | |
| 14 | 25 21 074 | 49 20 104 | 33 02 160 | 39 00 193 | 49 04 254 | 37 20 282 | 45 49 002 | 194 | 40 16 055 | 38 54 086 | 28 24 158 | 19 14 223 | 29 42 263 | 41 13 303 | 19 25 011 | 25 21 072 | 49 20 106 | 33 09 162 | 38 55 195 | 48 44 256 | 37 00 284 | 45 50 002 | 36 39 286 | 45 51 003 | 19 34 016 | | | | | | | | |
| 16 | 25 41 072 | 49 40 106 | 33 15 164 | 38 49 198 | 48 23 258 | 37 39 286 | 45 51 003 | 198 | 40 51 059 | 39 35 090 | 28 38 163 | 18 44 228 | 29 01 267 | 40 39 306 | 19 34 016 | 26 21 078 | 50 19 110 | 33 20 167 | 38 42 262 | 47 42 262 | 36 00 290 | 45 52 005 | 200 | 41 09 061 | 39 56 092 | 28 43 165 | 18 28 230 | 28 30 269 | 40 22 308 | 19 06 028 | | | |
| 18 | 26 01 076 | 50 00 108 | 33 15 164 | 38 49 198 | 48 23 258 | 37 39 286 | 45 51 003 | 198 | 40 51 059 | 39 35 090 | 28 38 163 | 18 44 228 | 29 01 267 | 40 39 306 | 19 34 016 | 26 21 078 | 50 19 110 | 33 20 167 | 38 42 262 | 47 42 262 | 36 00 290 | 45 52 005 | 202 | 41 27 063 | 40 17 094 | 28 49 167 | 18 12 232 | 28 19 271 | 40 06 310 | 19 46 028 | | | |
| 20 | 26 21 078 | 50 19 110 | 33 20 167 | 38 42 262 | 47 42 262 | 36 00 290 | 45 52 005 | 200 | 41 09 061 | 39 56 092 | 28 43 165 | 18 28 230 | 28 30 269 | 40 22 308 | 19 06 028 | 26 42 080 | 50 39 112 | 33 25 169 | 38 35 202 | 47 22 264 | 35 40 292 | 45 57 008 | 204 | 41 46 065 | 40 38 096 | 28 53 169 | 17 56 234 | 27 58 273 | 39 50 312 | 19 52 300 | | | |
| 22 | 26 42 080 | 50 39 112 | 33 25 169 | 38 35 202 | 47 42 262 | 36 00 290 | 45 52 005 | 202 | 41 27 063 | 40 17 094 | 28 49 167 | 18 12 232 | 28 19 271 | 40 06 310 | 19 46 028 | 27 02 084 | 51 17 117 | 33 31 173 | 38 18 206 | 47 01 266 | 35 21 294 | 46 00 010 | 206 | 42 05 066 | 40 58 098 | 28 57 171 | 17 38 236 | 27 38 275 | 39 35 315 | 19 00 022 | | | |
| 24 | 27 02 082 | 50 58 114 | 33 28 171 | 38 20 204 | 47 22 264 | 35 40 292 | 45 57 008 | 204 | 41 46 065 | 40 38 096 | 28 53 169 | 17 56 234 | 27 58 273 | 39 50 312 | 19 52 300 | 27 44 086 | 51 35 119 | 33 33 175 | 38 08 209 | 46 40 268 | 35 02 296 | 46 04 011 | 208 | 42 24 068 | 41 19 100 | 28 59 173 | 17 21 238 | 27 17 277 | 39 20 315 | 20 08 024 | | | |
| 26 | 27 23 084 | 51 17 117 | 33 31 173 | 38 18 206 | 47 01 266 | 35 21 294 | 46 00 010 | 206 | 42 05 066 | 40 58 098 | 28 57 171 | 17 38 236 | 27 38 275 | 39 35 315 | 19 00 022 | 46 09 013 | 28 04 088 | 33 30 182 | 33 29 189 | 36 5 212 | 44 35 279 | 33 15 307 | 32 59 308 | 214 | 20 36 029 | 43 23 074 | 42 20 107 | 29 03 180 | 16 27 244 | 26 15 182 | 38 38 321 | | |
| 28 | 27 44 086 | 51 35 119 | 33 33 175 | 38 08 209 | 46 40 268 | 35 02 296 | 46 04 011 | 208 | 42 24 068 | 41 19 100 | 28 59 173 | 17 21 238 | 27 17 277 | 39 20 315 | 20 08 024 | 46 32 020 | 29 07 094 | 29 28 096 | 53 01 130 | 33 29 189 | 37 10 220 | 44 35 279 | 33 15 307 | 32 59 308 | 216 | 20 46 031 | 43 43 076 | 42 40 109 | 29 03 182 | 16 08 245 | 25 55 284 | 38 25 322 | |
| 30 | *Alioth | 46°09'013 | POLLUX | 28°04'088 | *CAPELLA | 33°34'121 | Hamal | 33°34'178 | Alpheratz | 37°58'211 | *DENE | 46°19'270 | VEGA | 34°44'297 | 210 | Alpheratz | 23°07'026 | *DENE | 42°43'070 | VEGA | 41°39'102 | *ARCTURUS | 29°01'175 | REGULUS | 29°03'240 | POLLUX | 26°56'278 | *CAPELLA | 38°06'317 | | | | |
| 32 | 46 14 015 | 28 25 090 | 52 11 123 | 33 35 180 | 37 47 213 | 45 58 272 | 34 25 299 | 212 | 20 26 027 | 43 03 072 | 42 00 104 | 29 03 178 | 16 45 242 | 26 36 380 | 38 52 319 | 34 46 191 | 28 46 092 | 43 23 074 | 42 20 107 | 29 03 180 | 16 27 244 | 26 15 182 | 38 38 321 | 36 | 46 25 018 | 29 07 094 | 29 28 096 | 53 01 130 | 33 31 186 | 37 10 220 | 44 35 279 | 33 15 307 | 32 59 308 |
| 34 | 46 19 016 | 28 46 092 | 52 28 125 | 33 34 182 | 37 35 215 | 45 38 274 | 34 25 299 | 214 | 20 36 029 | 43 23 074 | 42 20 107 | 29 03 180 | 16 27 244 | 26 15 182 | 38 38 321 | 36 | 46 25 018 | 29 07 094 | 29 28 096 | 53 01 130 | 33 31 186 | 37 10 220 | 44 35 279 | 33 15 307 | 32 59 308 | | | | | | | | |
| 36 | 46 25 018 | 29 07 094 | 29 28 096 | 53 01 130 | 33 31 186 | 37 10 220 | 44 35 279 | 216 | 20 46 031 | 43 43 076 | 42 40 109 | 29 03 182 | 16 08 245 | 25 55 284 | 38 25 322 | 38 | 46 32 020 | 29 28 096 | 53 01 130 | 33 31 186 | 37 10 220 | 44 35 279 | 33 15 307 | 32 59 308 | | | | | | | | | |
| 38 | 46 32 020 | 29 28 096 | 53 01 130 | 33 31 186 | 37 10 220 | 44 35 279 | 33 32 305 | 218 | 20 57 033 | 44 03 078 | 42 59 111 | 29 02 184 | 15 49 248 | 25 35 286 | 38 13 324 | 40 | 46 39 021 | 29 48 098 | 53 17 137 | 33 25 191 | 36 42 224 | 44 15 289 | 32 32 312 | 222 | 21 09 035 | 44 24 081 | 43 38 115 | 28 57 188 | 15 09 252 | 24 55 290 | 37 49 328 | | |
| 40 | 46 39 021 | 29 48 098 | 53 17 132 | 33 29 189 | 36 5 212 | 44 35 279 | 33 15 307 | 222 | 21 21 037 | 44 44 081 | 43 38 115 | 28 57 188 | 15 09 252 | 24 55 290 | 37 49 328 | 42 | 46 47 026 | 30 09 100 | 53 32 134 | 33 25 191 | 36 42 224 | 44 15 289 | 32 32 312 | 224 | 21 34 039 | 45 05 083 | 43 56 117 | 28 54 191 | 14 49 254 | 24 36 292 | 37 38 329 | | |
| 42 | 46 47 026 | 30 09 100 | 53 32 134 | 33 25 191 | 36 42 224 | 44 15 289 | 32 59 308 | 224 | 21 34 039 | 45 05 083 | 43 56 117 | 28 54 191 | 14 49 254 | 24 36 292 | 37 38 329 | 44 | 46 55 024 | 30 29 102 | 53 46 137 | 33 21 193 | 36 27 226 | 43 55 283 | 32 43 310 | 226 | 21 47 040 | 45 26 085 | 44 15 119 | 28 49 193 | 14 29 256 | 24 17 284 | 37 28 331 | | |
| 44 | 46 55 024 | 30 29 102 | 53 46 137 | 33 21 193 | 36 27 226 | 43 55 283 | 32 43 310 | 226 | 21 47 040 | 45 26 085 | 44 15 119 | 28 49 193 | 14 29 256 | 24 17 284 | 37 28 331 | 46 | 47 04 026 | 30 50 104 | 54 00 139 | 33 16 195 | 36 12 238 | 43 34 285 | 32 32 312 | 228 | 22 01 042 | 45 47 087 | 44 33 121 | 28 45 195 | 14 09 258 | 23 58 296 | 37 18 333 | | |
| 46 | 47 04 026 | 31 10 106 | 54 14 141 | 33 10 197 | 35 56 230 | 43 34 285 | 32 12 314 | 230 | 22 15 044 | 46 07 089 | 44 50 123 | 28 39 197 | 13 49 260 | 23 59 326 | 37 09 334 | 48 | 47 24 029 | 31 30 108 | 54 26 144 | 33 03 200 | 35 40 292 | 42 55 289 | 31 5 316 | 232 | 22 30 046 | 46 07 089 | 45 08 126 | 28 32 199 | 13 28 262 | 23 21 300 | 37 00 336 | | |
| 50 | 47 24 029 | 31 30 108 | 54 26 144 | 33 03 200 | 35 40 292 | 42 55 289 | 31 5 316 | 232 | 22 30 046 | 46 07 089 | 45 08 126 | 28 32 199 | 13 28 262 | 23 21 300 | 37 00 336 | 52 | 47 34 031 | 31 50 110 | 54 38 146 | 32 56 202 | 35 23 235 | 42 35 291 | 31 43 318 | 234 | 22 45 048 | 46 49 093 | 45 24 128 | 28 25 201 | 13 07 264 | 23 03 301 | 36 52 380 | | |
| 54 | 47 34 031 | 31 50 110 | 54 38 146 | 32 56 202 | 35 23 235 | 42 35 291 | 31 43 318 | 236 | 23 01 050 | 47 10 095 | 45 41 130 | 28 17 203 | 12 47 266 | 22 45 303 | 36 45 340 | 56 | 47 57 034 | 32 28 114 | 55 00 151 | 32 30 208 | 34 49 239 | 41 57 294 | 41 3 323 | 238 | 23 17 052 | 47 31 097 | 45 56 132 | 28 08 206 | 12 26 268 | 22 28 305 | 36 38 341 | | |
| 58 | 48 09 036 | 32 47 116 | 55 00 151 | 32 30 208 | 34 31 241 | 41 3 323 | 31 06 321 | 240 | 23 33 053 | 47 51 099 | 46 12 101 | 28 40 084 | 12 47 266 | 22 45 303 | 36 45 340 | 60 | 48 24 038 | 11 15 086 | 33 06 120 | 55 19 156 | 34 12 243 | 41 1 300 | 30 39 327 | 242 | 24 08 057 | 48 32 103 | 46 40 139 | 27 38 212 | 62 08 276 | 21 39 311 | 36 20 347 | | |
| 62 | 48 34 039 | 11 35 087 | 33 06 120 | 55 19 156 | 34 12 243 | 41 1 300 | 30 39 327 | 242 | 24 25 059 | 48 52 105 | 46 54 141 | 27 27 214 | 61 47 278 | 21 23 313 | 36 16 348 | 64 | 48 48 041 | 12 17 091 | 33 59 122 | 55 34 163 | 33 15 249 | 40 43 302 | 30 17 330 | 246 | 24 25 059 | 48 52 105 | 46 54 141 | 27 27 214 | 61 47 278 | 21 23 313 | 36 16 348 | | |
| 64 | 48 48 041 | 12 17 091 | 33 06 120 | 55 34 163 | 33 15 249 | 40 43 302</ | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| 0 | | | | | | | | | 180 | | | | | | | | |
| 2 | | | | | | | | | 182 | | | | | | | | |
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| 120 | | | | | | | | | 300 | | | | | | | | |
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| 138 | | | | | | | | | 318 | | | | | | | | |
| 140 | | | | | | | | | 320 | | | | | | | | |
| 142 | | | | | | | | | 322 | | | | | | | | |
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| 168 | | | | | | | | | 348 | | | | | | | | |
| 170 | | | | | | | | | 350 | | | | | | | | |
| 172 | | | | | | | | | 352 | | | | | | | | |
| 174 | | | | | | | | | 354 | | | | | | | | |
| 176 | | | | | | | | | 356 | | | | | | | | |
| 178 | | | | | | | | | 358 | | | | | | | | |

| LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------|----------|
| 0 | POLLUX 24°09' 060 | *CAPELLA 46°53' 092 | Hamal 30°16' 146 | Alpheratz 37°13' 177 | *DENEb 50°12' 236 | VEGA 39°40' 267 | *Alioth 48°01' 348 | | |
| 2 | 24 24 062 | 47 10 094 | 30 26 148 | 37 14 180 | 49 58 239 | 39 24 269 | 47 58 350 | | |
| 4 | 24 24 064 | 47 27 096 | 30 34 150 | 37 14 180 | 49 44 241 | 39 07 271 | 47 55 352 | | |
| 6 | 24 24 066 | 47 43 098 | 30 42 152 | 37 13 184 | 49 29 243 | 38 50 273 | 47 53 355 | | |
| 8 | 25 09 068 | 48 00 100 | 30 50 154 | 37 11 186 | 49 14 245 | 38 34 275 | 47 51 353 | | |
| 10 | 25°24' 069 | 48°16' 102 | 30°57' 156 | 37°06' 180 | 48°50' 247 | 38°17' 277 | 47°50' 357 | | |
| 12 | 25 40 071 | 48 32 104 | 31 03 158 | 37 06 190 | 48 43 249 | 38 00 279 | 47 50 359 | | |
| 14 | 25 56 073 | 48 48 106 | 31 09 161 | 37 03 193 | 48 27 251 | 37 44 281 | 47 49 000 | | |
| 16 | 26 12 075 | 49 04 108 | 31 15 163 | 36 59 195 | 48 11 253 | 37 28 283 | 47 50 002 | | |
| 18 | 26 28 077 | 49 20 110 | 31 19 165 | 36 54 197 | 47 55 255 | 37 11 285 | 47 51 004 | | |
| 20 | 26°45' 079 | 49°36' 112 | 31°23' 167 | 36°49' 201 | 47°39' 258 | 36°53' 287 | 47°52' 005 | | |
| 22 | 27 01 081 | 49 51 115 | 31 27 169 | 36 43 201 | 47 23 260 | 36 39 289 | 47 54 007 | | |
| 24 | 27 17 083 | 50 06 117 | 31 30 171 | 36 37 204 | 47 06 262 | 36 24 290 | 47 56 009 | | |
| 26 | 27 34 085 | 50 21 119 | 31 32 173 | 36 30 206 | 46 50 264 | 36 08 292 | 47 59 010 | | |
| 28 | 27 51 087 | 50 35 121 | 31 33 176 | 36 23 208 | 46 33 266 | 35 53 294 | 48 02 012 | | |
| 30 | *Alioth 48°05' 014 | POLLUX 28°08' 089 | *CAPELLA 50°49' 123 | Hamal 31°34' 178 | Alpheratz 36°15' 210 | *DENEb 46°16' 268 | VEGA 35°38' 296 | | |
| 32 | 48 10 015 | 28 24 091 | 51 03 125 | 31 35 180 | 36 06 212 | 46 00 270 | 35 23 298 | | |
| 34 | 48 14 017 | 28 41 093 | 51 17 127 | 31 35 182 | 35 57 214 | 45 43 272 | 35 08 300 | | |
| 36 | 48 18 019 | 28 58 095 | 51 30 130 | 31 34 184 | 35 47 217 | 45 26 274 | 34 54 302 | | |
| 38 | 48 25 020 | 29 14 097 | 51 42 132 | 31 32 186 | 35 37 219 | 45 10 276 | 34 40 304 | | |
| 40 | 48°31' 022 | 29°31' 099 | 51°55' 134 | 31°30' 188 | 35°26' 221 | 44°53' 277 | 34°26' 306 | | |
| 42 | 48 37 024 | 29 47 101 | 52 06 136 | 31 27 191 | 35 15 223 | 44 37 279 | 34 13 307 | | |
| 44 | 48 44 025 | 29 04 103 | 52 18 139 | 31 24 193 | 35 03 225 | 44 20 281 | 34 00 309 | | |
| 46 | 48 50 027 | 30 20 105 | 52 28 141 | 31 20 195 | 34 51 227 | 44 04 283 | 33 47 311 | | |
| 48 | 49 00 029 | 30 36 107 | 52 39 143 | 31 15 197 | 34 39 229 | 43 48 285 | 33 34 313 | | |
| 50 | 49°08' 030 | 30°52' 109 | 52°48' 145 | 31°10' 199 | 34°26' 231 | 43°32' 287 | 33°22' 315 | | |
| 52 | 49 16 032 | 31 07 111 | 52 58 148 | 31 04 201 | 34 13 233 | 43 10 289 | 33 11 317 | | |
| 54 | 49 26 034 | 31 23 113 | 53 06 150 | 30 58 203 | 33 59 236 | 43 00 291 | 32 59 319 | | |
| 56 | 49 35 036 | 31 38 115 | 53 14 152 | 30 51 206 | 33 45 238 | 42 45 293 | 32 49 320 | | |
| 58 | 49 45 037 | 31 53 117 | 53 22 155 | 30 44 208 | 33 31 240 | 42 29 295 | 32 38 322 | | |
| 60 | *Alioth 49°55' 039 | POLLUX 32°08' 119 | *CAPELLA 53°29' 157 | Hamal 30°36' 210 | Alpheratz 33°16' 242 | *DENEb 42°14' 297 | VEGA 32°28' 324 | | |
| 62 | 50 06 041 | 32 22 121 | 53 35 159 | 30 27 212 | 33 02 244 | 41 59 298 | 32 19 326 | | |
| 64 | 50 17 042 | 32 36 123 | 53 41 162 | 30 18 214 | 32 47 246 | 41 45 300 | 32 09 328 | | |
| 66 | 50 29 044 | 32 50 125 | 53 45 164 | 30 08 216 | 32 31 248 | 41 31 302 | 32 01 330 | | |
| 68 | 50 40 046 | 33 03 128 | 53 50 166 | 29 58 218 | 32 16 250 | 41 17 304 | 31 52 331 | | |
| 70 | 50°53' 048 | 33°17' 130 | 53°53' 169 | 29°46' 220 | 32°00' 252 | 41°03' 306 | 31°45' 333 | | |
| 72 | 51 05 049 | 33 29 132 | 53 56 171 | 29 38 222 | 31 44 254 | 40 49 308 | 31 37 335 | | |
| 74 | 51 18 051 | 33 41 134 | 53 59 173 | 29 25 225 | 31 28 256 | 40 36 309 | 31 31 337 | | |
| 76 | 51 31 053 | 33 53 136 | 54 00 176 | 29 13 227 | 31 11 258 | 40 24 311 | 31 24 339 | | |
| 78 | 51 45 055 | 34 05 138 | 54 01 178 | 29 01 229 | 30 55 260 | 40 11 313 | 31 18 341 | | |
| 80 | 51°58' 057 | 34°15' 140 | 54°01' 180 | 28°48' 231 | 30°38' 262 | 39°58' 315 | 31°13' 342 | | |
| 82 | 52 13 058 | 34 26 142 | 54 01 183 | 28 35 233 | 30 22 264 | 39 48 317 | 31 08 344 | | |
| 84 | 52 27 060 | 34 36 145 | 54 00 185 | 28 21 235 | 30 05 266 | 39 36 319 | 31 04 346 | | |
| 86 | 52 42 062 | 34 45 147 | 53 58 188 | 28 07 237 | 29 49 268 | 39 25 320 | 31 00 348 | | |
| 88 | 52 56 064 | 34 54 149 | 53 55 190 | 27 53 239 | 29 32 270 | 39 15 322 | 30 57 350 | | |
| 90 | *ARCTURUS 14°06' 054 | REGULUS 15°27' 116 | POLLUX 35°03' 151 | *CAPELLA 53°52' 192 | Alpheratz 29°15' 272 | *DENEb 39°05' 324 | VEGA 30°54' 351 | | |
| 92 | 14 14 056 | 15 42 118 | 35 10 153 | 53 48 195 | 28 59 274 | 38 55 326 | 30 52 353 | | |
| 94 | 14 54 058 | 15 56 120 | 35 18 155 | 53 44 197 | 28 42 276 | 38 46 328 | 30 50 355 | | |
| 96 | 15 08 060 | 16 11 122 | 35 24 157 | 53 39 199 | 28 25 278 | 38 37 329 | 30 49 357 | | |
| 98 | 15 23 062 | 16 25 124 | 35 30 160 | 53 33 202 | 28 09 280 | 38 29 331 | 30 48 359 | | |
| 100 | 15°37' 064 | 16°38' 126 | 35°36' 162 | 53°26' 204 | 27°52' 282 | 38°21' 333 | 30°48' 001 | | |
| 102 | 15 53 065 | 16 52 128 | 35 41 164 | 53 19 206 | 27 36 284 | 38 14 335 | 30 49 002 | | |
| 104 | 16 08 067 | 17 05 130 | 35 45 166 | 53 12 209 | 27 20 286 | 38 07 336 | 30 50 004 | | |
| 106 | 16 23 069 | 17 17 132 | 35 49 168 | 53 03 211 | 27 04 288 | 38 01 338 | 30 51 006 | | |
| 108 | 16 39 071 | 17 29 134 | 35 52 170 | 52 54 213 | 26 48 290 | 37 55 340 | 30 53 008 | | |
| 110 | 16°55' 073 | 17°41' 136 | 35°54' 173 | 52°45' 215 | 26°33' 292 | 37°49' 342 | 30°56' 010 | | |
| 112 | 17 11 075 | 17 53 138 | 35 56 175 | 52 35 218 | 26 17 294 | 37 44 344 | 30 59 011 | | |
| 114 | 17 27 077 | 18 03 140 | 35 57 177 | 52 25 220 | 26 02 296 | 37 40 346 | 31 02 013 | | |
| 116 | 17 44 079 | 18 14 142 | 35 58 179 | 52 14 222 | 25 47 297 | 37 36 347 | 31 06 015 | | |
| 118 | 18 00 081 | 18 24 144 | 35 58 181 | 52 02 224 | 25 32 299 | 37 32 349 | 31 11 017 | | |
| 120 | VEGA 31°16' 019 | *ARCTURUS 18°17' 083 | REGULUS 18°33' 148 | POLLUX 35°57' 184 | *CAPELLA 51°50' 227 | Alpheratz 25°18' 301 | *DENEb 37°29' 351 | | |
| 122 | 31 22 020 | 18 33 085 | 18 42 146 | 35 56 186 | 51 38 229 | 25 10 303 | 37 27 352 | | |
| 124 | 31 28 022 | 18 50 087 | 18 51 151 | 35 54 188 | 51 25 231 | 24 50 305 | 37 25 354 | | |
| 126 | 31 34 024 | 19 07 089 | 18 59 153 | 35 51 190 | 51 12 233 | 24 36 307 | 37 23 356 | | |
| 128 | 31 41 026 | 19 23 091 | 19 06 155 | 35 48 192 | 50 58 235 | 24 23 309 | 37 23 358 | | |
| 130 | 31°49' 028 | 19°40' 093 | 19°13' 157 | 35°44' 194 | 50°44' 238 | 24°10' 311 | 37°22' 359 | | |
| 132 | 31 57 030 | 19 57 095 | 19 19 159 | 35 40 197 | 50 30 240 | 23 58 313 | 37 22 001 | | |
| 134 | 32 05 031 | 20 13 097 | 19 25 161 | 35 34 199 | 50 15 242 | 23 46 314 | 37 23 003 | | |
| 136 | 32 14 033 | 20 30 099 | 19 30 163 | 35 29 201 | 50 01 244 | 23 34 316 | 37 24 005 | | |
| 138 | 32 24 035 | 20 46 101 | 19 35 165 | 35 22 203 | 49 45 246 | 23 23 318 | 37 26 007 | | |
| 140 | 32°34' 037 | 21°03' 103 | 19°30' 167 | 35°16' 205 | 49°30' 248 | 23°12' 320 | 37°28' 008 | | |
| 142 | 32 44 039 | 21 19 105 | 19 42 169 | 35 08 207 | 49 14 250 | 23 01 322 | 37 31 010 | | |
| 144 | 32 55 041 | 21 35 107 | 19 45 171 | 35 00 210 | 48 59 252 | 22 51 324 | 37 34 012 | | |
| 146 | 33 06 042 | 21 51 109 | 19 48 173 | 34 52 212 | 48 42 255 | 22 42 326 | 37 37 014 | | |
| 148 | 33 17 044 | 22 06 111 | 19 49 175 | 34 43 214 | 48 26 257 | 22 32 328 | 37 42 015 | | |
| 150 | *DENEb 37°46' 017 | VEGA 33°29' 046 | *ARCTURUS 22°22' 113 | REGULUS 19°50' 177 | POLLUX 34°33' 216 | *CAPELLA 48°10' 259 | Alpheratz 22°24' 330 | | |
| 152 | 37 51 019 | 33 41 048 | 22 32 115 | 19 51 180 | 34 23 218 | 47 54 261 | 22 16 331 | | |
| 154 | 37 57 021 | 33 54 050 | 22 52 117 | 19 51 182 | 34 12 220 | 47 37 263 | 22 08 333 | | |
| 156 | 38 03 023 | 34 07 052 | 23 07 119 | 19 50 184 | 34 01 222 | 47 20 265 | 22 01 335 | | |
| 158 | 38 10 024 | 34 20 054 | 23 21 121 | 19 48 186 | 33 50 225 | 47 04 267 | 21 54 337 | | |
| 160 | 38°17' 026 | 34°34' 055 | 23°35' 123 | 19°46' 188 | 33°38' 227 | 46°47' 269 | 21°48' 339 | | |
| 162 | 38 25 028 | 34 48 057 | 23 49 125 | 19 44 190 | 33 26 229 | 46 30 271 | 21 42 341 | | |
| 164 | 38 33 030 | 35 02 059 | 24 03 127 | 19 41 192 | 33 13 231 | 46 14 273 | 21 37 343 | | |
| 166 | 38 41 031 | 35 16 061 | 24 16 129 | 19 37 194 | 33 00 233 | 45 57 275 | 21 32 345 | | |
| 168 | 38 50 033 | 35 31 063 | 24 29 131 | 19 32 196 | 32 46 235 | 45 40 277 | 21 28 346 | | |
| 170 | 38°59' 035 | 35°46' 065 | 24°41' 134 | 19°27' 198 | 32°32' 237 | 45°24' 279 | 21°24' 348 | | |
| 172 | 39 09 037 | 36 01 067 | 24 53 136 | 19 22 200 | 32 18 239 | 45 07 281 | 21 21 350 | | |
| 174 | 39 19 039 | 36 17 069 | 25 04 138 | 19 16 202 | 32 04 241 | 44 51 282 | 21 19 352 | | |
| 176 | 39 30 040 | 36 32 071 | 25 15 140 | 19 09 204 | 31 49 243 | 44 35 284 | 21 17 354 | | |
| 178 | 39 41 042 | 36 48 073 | 25 26 142 | 19 02 207 | 31 34 245 | 44 19 286 | 21 15 356 | | |

| LHA Υ | Hc Zn | Hc Zn | Hc Z |
|----------|----------|----------|---------|
|----------|----------|----------|---------|

| LHA Υ | Hc Zn | Zn Hc | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|----------|------------|------------|------------|------------|------------|------------|------------|----------|----------|
| 0 | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENEK | VEGA | *ARCTURUS | | |
| 1 | 54°47' 011 | 24°39' 060 | 46°51' 093 | 36°13' 177 | 49°39' 235 | 39°37' 266 | 13°13' 327 | | |
| 2 | 54 50 013 | 24 52 062 | 47 05 095 | 36 14 180 | 49 26 238 | 39 22 268 | 13 06 329 | | |
| 4 | 54 53 015 | 25 05 064 | 47 20 097 | 36 14 182 | 49 24 240 | 39 08 270 | 12 58 331 | | |
| 6 | 54 57 016 | 25 18 066 | 47 34 099 | 36 13 184 | 49 01 242 | 38 53 272 | 12 51 333 | | |
| 8 | 55 01 018 | 25 32 068 | 47 49 101 | 36 12 186 | 48 48 244 | 38 38 274 | 12 45 335 | | |
| 10 | 55°06' 019 | 25°45' 070 | 48°03' 103 | 36°10' 188 | 48°35' 246 | 38°24' 276 | 12°39' 337 | | |
| 12 | 55 11 021 | 25 59 072 | 48 17 105 | 36 07 190 | 48 21 248 | 38 09 278 | 12 33 339 | | |
| 14 | 55 17 023 | 26 13 074 | 48 31 107 | 36 04 193 | 48 08 250 | 37 55 280 | 12 28 340 | | |
| 16 | 55 23 024 | 26 27 076 | 48 45 109 | 36 01 195 | 47 54 252 | 37 40 282 | 12 23 342 | | |
| 18 | 55 29 026 | 26 41 078 | 48 59 111 | 35 57 197 | 47 40 254 | 37 26 284 | 12 19 344 | | |
| 20 | 55°35' 028 | 26°56' 080 | 49°12' 114 | 35°53' 199 | 47°26' 256 | 37°12' 286 | 12°15' 346 | | |
| 22 | 55 42 029 | 27 10 082 | 49 25 116 | 35 48 201 | 47 11 259 | 36 58 288 | 12 12 348 | | |
| 24 | 55 50 031 | 27 25 084 | 49 39 118 | 35 42 203 | 46 57 261 | 36 44 290 | 12 10 350 | | |
| 26 | 55 58 033 | 27 39 086 | 49 51 120 | 35 36 205 | 46 43 263 | 36 31 292 | 12 07 352 | | |
| 28 | 56 06 035 | 27 54 088 | 50 04 122 | 35 29 208 | 46 28 265 | 36 17 294 | 12 05 354 | | |
| 30 | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENEK | VEGA | *ARCTURUS | | |
| 31 | 56°14' 036 | 28°08' 090 | 46°13' 124 | 35°22' 210 | 46°13' 267 | 36°04' 295 | 12°04' 356 | | |
| 32 | 56 23 038 | 28 23 092 | 46 28 126 | 35 15 212 | 45 59 269 | 35 51 297 | 12 03 358 | | |
| 34 | 56 32 040 | 28 38 094 | 46 43 128 | 35 07 214 | 45 44 271 | 35 38 299 | 12 02 360 | | |
| 36 | 56 42 041 | 28 52 096 | 46 58 130 | 34 59 216 | 45 30 273 | 35 25 301 | 12 02 362 | | |
| 38 | 56 51 043 | 29 07 098 | 51 02 133 | 34 50 218 | 45 15 275 | 35 13 303 | 12 04 364 | | |
| 40 | 57°02' 045 | 29°21' 100 | 51°12' 135 | 34°41' 220 | 45°00' 276 | 35°01' 305 | 12°05' 066 | | |
| 42 | 57 12 046 | 29 36 102 | 51 23 137 | 34 31 222 | 44 46 278 | 34 49 307 | 12 07 068 | | |
| 44 | 57 23 048 | 29 50 104 | 51 32 139 | 34 21 225 | 44 31 280 | 34 37 309 | 12 09 069 | | |
| 46 | 57 34 050 | 30 04 106 | 51 42 142 | 34 10 227 | 44 17 282 | 34 26 311 | 12 12 011 | | |
| 48 | 57 45 052 | 30 18 108 | 51 50 144 | 34 00 229 | 44 03 284 | 34 15 313 | 12 15 013 | | |
| 50 | 57°57' 053 | 30°32' 110 | 51°59' 146 | 33°48' 231 | 43°49' 286 | 34°04' 314 | 12°18' 015 | | |
| 52 | 58 09 055 | 30 46 112 | 52 07 148 | 33 37 233 | 43 35 288 | 33 54 316 | 12 23 017 | | |
| 54 | 58 21 057 | 30 59 114 | 52 14 151 | 33 25 235 | 43 21 290 | 33 44 318 | 12 27 019 | | |
| 56 | 58 33 059 | 31 12 116 | 52 21 153 | 33 13 237 | 43 07 292 | 33 35 320 | 12 32 021 | | |
| 58 | 58 46 060 | 31 25 118 | 52 28 155 | 33 01 239 | 42 54 294 | 33 25 322 | 12 38 023 | | |
| 60 | *ARCTURUS | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENEK | VEGA | | |
| 61 | 12°44' 025 | 58°59' 062 | 31°38' 120 | 52°33' 157 | 32°48' 241 | 42°41' 296 | 33°17' 324 | | |
| 62 | 12 50 027 | 59 12 064 | 31 51 122 | 52 35 160 | 32 35 243 | 42 28 298 | 33 08 326 | | |
| 64 | 12 57 029 | 59 25 066 | 32 03 124 | 52 24 162 | 32 22 245 | 42 15 299 | 33 00 327 | | |
| 66 | 13 04 031 | 59 38 068 | 32 15 126 | 52 12 164 | 32 08 247 | 42 02 301 | 32 52 329 | | |
| 68 | 13 12 033 | 59 52 070 | 32 27 128 | 52 01 167 | 31 55 249 | 41 50 303 | 32 45 331 | | |
| 70 | 13°20' 035 | 60°06' 071 | 32°38' 130 | 52°55' 169 | 31°41' 251 | 41°38' 305 | 32°38' 333 | | |
| 72 | 13 28 037 | 60 20 073 | 32 50 132 | 52 37 171 | 31 27 253 | 41 26 307 | 32 32 335 | | |
| 74 | 13 37 039 | 60 34 075 | 33 00 134 | 52 25 173 | 31 13 255 | 41 14 309 | 32 26 337 | | |
| 76 | 13 47 040 | 60 48 077 | 33 10 137 | 52 10 176 | 30 59 258 | 41 03 311 | 32 20 338 | | |
| 78 | 13 56 042 | 61 02 079 | 33 20 139 | 52 01 178 | 30 44 260 | 40 52 312 | 32 15 340 | | |
| 80 | 14°06' 044 | 61°17' 081 | 33°29' 141 | 52°01' 180 | 30°30' 262 | 40°41' 314 | 32°10' 342 | | |
| 82 | 14 17 046 | 61 31 083 | 33 38 143 | 51 51 183 | 30 15 264 | 40 31 316 | 32 06 344 | | |
| 84 | 14 27 048 | 61 46 085 | 33 47 145 | 51 40 185 | 30 01 266 | 40 21 318 | 32 02 346 | | |
| 86 | 14 38 050 | 62 00 087 | 33 55 147 | 51 30 187 | 29 46 268 | 40 11 320 | 31 59 348 | | |
| 88 | 14 50 052 | 62 15 089 | 34 03 149 | 51 20 190 | 29 32 270 | 40 02 322 | 31 56 350 | | |
| 90 | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENEK | VEGA | | |
| 91 | 15°02' 054 | 55°00' 116 | 32°53' 151 | 52°53' 192 | 29°17' 272 | 39°53' 323 | 31°54' 351 | | |
| 92 | 15 13 056 | 55 13 118 | 33 14 153 | 52 50 194 | 29 02 273 | 39 45 325 | 31 52 353 | | |
| 94 | 15 26 058 | 55 26 120 | 33 27 156 | 52 46 197 | 28 48 275 | 39 37 327 | 31 50 355 | | |
| 96 | 15 38 060 | 55 39 122 | 33 40 158 | 52 42 199 | 28 33 277 | 39 29 329 | 31 49 357 | | |
| 98 | 15 51 062 | 55 51 124 | 33 54 160 | 52 37 201 | 28 19 279 | 39 22 331 | 31 48 359 | | |
| 100 | 16°04' 064 | 56°03' 126 | 34°39' 162 | 52°31' 203 | 28°04' 281 | 39°15' 333 | 31°48' 001 | | |
| 102 | 16 17 066 | 56 15 128 | 34 43 164 | 52 25 206 | 27 50 283 | 39 08 334 | 31 49 002 | | |
| 104 | 16 31 068 | 56 26 130 | 34 47 166 | 52 19 208 | 27 36 285 | 39 02 336 | 31 50 004 | | |
| 106 | 16 44 070 | 56 37 132 | 34 50 168 | 52 12 210 | 27 22 287 | 38 56 338 | 31 51 006 | | |
| 108 | 16 58 072 | 56 48 134 | 34 53 171 | 52 04 212 | 27 08 289 | 38 41 340 | 31 53 008 | | |
| 110 | 17°12' 074 | 56°58' 136 | 34°55' 173 | 51°56' 215 | 26°54' 291 | 38°46' 342 | 31°55' 010 | | |
| 112 | 17 26 076 | 57 10 138 | 34 58 175 | 51 47 217 | 26 41 293 | 38 42 343 | 31 58 012 | | |
| 114 | 17 40 078 | 57 17 140 | 34 57 177 | 51 38 219 | 26 27 295 | 38 38 345 | 31 51 013 | | |
| 116 | 17 55 079 | 57 26 142 | 34 58 179 | 51 29 221 | 26 14 297 | 38 34 347 | 32 04 015 | | |
| 118 | 18 09 081 | 57 35 145 | 34 58 181 | 51 19 224 | 26 01 299 | 38 31 349 | 32 08 017 | | |
| 120 | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENEK | | |
| 121 | 32°13' 019 | 18°24' 083 | 17°43' 147 | 34°57' 184 | 51°09' 226 | 25°49' 301 | 38°29' 351 | | |
| 122 | 32 18 021 | 18 38 085 | 17 51 149 | 34 56 186 | 50 58 228 | 25 36 303 | 38 26 352 | | |
| 124 | 32 23 023 | 18 53 087 | 17 59 151 | 34 54 188 | 50 47 230 | 25 24 305 | 38 25 354 | | |
| 126 | 32 29 024 | 19 07 089 | 18 06 153 | 34 52 190 | 50 36 232 | 25 12 307 | 38 23 356 | | |
| 128 | 32 35 026 | 19 22 091 | 18 12 155 | 34 49 192 | 50 24 234 | 25 01 308 | 38 23 358 | | |
| 130 | 32°42' 028 | 19°37' 093 | 18°18' 157 | 34°46' 194 | 50°12' 237 | 24°49' 310 | 38°22' 359 | | |
| 132 | 32 49 030 | 19 51 095 | 18 24 159 | 34 42 196 | 49 59 239 | 24 38 312 | 38 22 001 | | |
| 134 | 32 57 032 | 20 06 097 | 18 29 161 | 34 38 199 | 49 47 241 | 24 28 314 | 38 23 003 | | |
| 136 | 33 04 034 | 20 20 099 | 18 33 163 | 34 33 201 | 49 34 243 | 24 17 316 | 38 24 005 | | |
| 138 | 33 13 035 | 20 35 101 | 18 37 165 | 34 27 203 | 49 21 245 | 24 07 318 | 38 25 007 | | |
| 140 | 33°21' 037 | 20°49' 103 | 18°41' 167 | 34°21' 205 | 49°07' 247 | 23°58' 320 | 38°27' 008 | | |
| 142 | 33 30 039 | 21 03 105 | 18 44 169 | 34 15 207 | 48 54 249 | 23 49 322 | 38 30 010 | | |
| 144 | 33 40 041 | 21 17 107 | 18 46 171 | 34 08 209 | 48 40 251 | 23 40 324 | 38 32 012 | | |
| 146 | 33 50 043 | 21 31 109 | 18 48 173 | 34 01 211 | 48 26 253 | 23 31 326 | 38 36 014 | | |
| 148 | 34 00 045 | 21 45 111 | 18 49 175 | 33 53 214 | 48 12 256 | 23 23 327 | 38 39 016 | | |
| 150 | *DENEK | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | | |
| 151 | 38°44' 017 | 34°10' 047 | 21°58' 113 | 18°50' 177 | 33°44' 216 | 47°58' 258 | 23°16' 329 | | |
| 152 | 38 48 019 | 34 21 049 | 22 12 115 | 18 51 180 | 33 36 218 | 47 43 260 | 23 08 331 | | |
| 154 | 38 53 021 | 34 32 050 | 22 25 117 | 18 51 182 | 33 26 220 | 47 29 262 | 23 01 333 | | |
| 156 | 38 59 023 | 34 44 052 | 22 37 120 | 18 50 184 | 33 17 222 | 47 14 264 | 22 55 335 | | |
| 158 | 39 05 025 | 34 55 054 | 22 50 122 | 18 49 186 | 33 07 224 | 47 00 266 | 22 49 337 | | |
| 160 | 39°11' 026 | 35°07' 056 | 23°02' 124 | 18°47' 188 | 32°57' 226 | 46°45' 268 | 22°44' 339 | | |
| 162 | 39 18 028 | 35 20 058 | 23 14 126 | 18 45 190 | 32 46 228 | 46 31 270 | 22 39 341 | | |
| 164 | 39 25 030 | 35 32 060 | 23 26 128 | 18 42 192 | 32 35 230 | 46 16 272 | 22 34 343 | | |
| 166 | 39 32 032 | 35 45 062 | 23 38 130 | 18 39 194 | 32 23 232 | 46 01 274 | 22 30 345 | | |
| 168 | 39 40 034 | 35 58 064 | 23 49 132 | 18 35 196 | 32 12 235 | 45 47 276 | 22 26 346 | | |
| 170 | 39°48' 036 | 36°11' 066 | 23°59' 134 | 18°31' 198 | 31°59' 237 | 45°32' 278 | 22°23' 348 | | |
| 172 | 39 57 037 | 36 25 067 | 24 10 136 | 18 26 200 | 31 47 239 | 45 18 280 | 22 20 350 | | |
| 174 | 40 06 039 | 36 38 069 | 24 20 138 | 18 20 202 | 31 35 241 | 45 03 282 | 22 18 352 | | |
| 176 | 40 16 | | | | | | | | |

| LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | | | | | | | | |
|-----|--------|-----|--------|--------|----------|-----------|--------|------|-----------|-----|--------|--------|--------|--------|--------|-----------|---------|--------|----------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|-----|
| 0 | 55°46' | 012 | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENEb | VEGA | *ARCTURUS | | 180 | 41°18' | 045 | *DENEb | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | | | | | | | | | |
| 2 | 55 48 | 013 | 25°09' | 061 | 46°47' | 094 | 35°13' | 177 | 48°04' | 235 | 39°32' | 265 | 14°04' | 327 | 41°27' | 047 | 37°47' | 078 | 24°06' | 147 | 17°03' | 210 | 30°20' | 248 | 44°26' | 288 | 23°14' | 358 | |
| 4 | 55 51 | 015 | 25 20 | 063 | 46 59 | 096 | 35 14 | 180 | 48 54 | 237 | 39 20 | 267 | 13 57 | 329 | 41 36 | 049 | 37 59 | 080 | 24 12 | 149 | 16 56 | 212 | 30 08 | 250 | 44 14 | 290 | 23 14 | 002 | |
| 6 | 55 55 | 017 | 25 42 | 066 | 47 24 | 100 | 35 13 | 184 | 48 32 | 241 | 38 55 | 271 | 13 45 | 333 | 41 46 | 051 | 38 12 | 082 | 24 19 | 151 | 16 49 | 214 | 29 56 | 252 | 44 03 | 292 | 23 14 | 003 | |
| 8 | 55 58 | 018 | 25 54 | 068 | 47 36 | 102 | 35 12 | 186 | 48 21 | 243 | 38 42 | 273 | 13 39 | 335 | 41 56 | 053 | 38 24 | 084 | 24 25 | 153 | 16 42 | 216 | 29 44 | 254 | 43 51 | 294 | 23 15 | 005 | |
| 10 | 56°03' | 020 | 26°06' | 070 | 47°40' | 104 | 35°10' | 188 | 48°10' | 245 | 38°30' | 275 | 13°34' | 337 | 190 | 42°06' | 055 | 38°37' | 086 | 24°30' | 155 | 16°34' | 219 | 29°32' | 256 | 43°40' | 296 | 23°17' | 007 |
| 12 | 56 07 | 022 | 26 17 | 072 | 47 51 | 106 | 35 08 | 190 | 47 59 | 247 | 38 17 | 277 | 13 29 | 338 | 192 | 42 16 | 056 | 38 49 | 088 | 24 35 | 157 | 16 26 | 221 | 29 20 | 258 | 43 29 | 298 | 23 18 | 009 |
| 14 | 56 12 | 023 | 26 29 | 074 | 48 13 | 108 | 35 06 | 192 | 47 47 | 249 | 38 05 | 279 | 13 25 | 340 | 194 | 42 27 | 058 | 39 02 | 090 | 24 40 | 159 | 16 18 | 223 | 29 07 | 260 | 43 18 | 300 | 23 21 | 011 |
| 16 | 56 17 | 025 | 26 42 | 076 | 48 25 | 110 | 35 03 | 194 | 47 35 | 251 | 37 53 | 281 | 13 21 | 342 | 196 | 42 38 | 060 | 39 14 | 092 | 24 44 | 161 | 16 09 | 225 | 28 55 | 263 | 43 07 | 302 | 23 23 | 013 |
| 18 | 56 22 | 027 | 26 54 | 078 | 48 36 | 112 | 35 00 | 197 | 47 23 | 253 | 37 40 | 283 | 13 17 | 344 | 198 | 42 49 | 062 | 39 27 | 094 | 24 48 | 163 | 16 00 | 227 | 28 43 | 265 | 42 56 | 303 | 23 26 | 015 |
| 20 | 56°28' | 029 | 27°06' | 080 | 48°48' | 115 | 34°56' | 199 | 47°11' | 255 | 37°28' | 285 | 13°14' | 346 | 200 | 43°00' | 064 | 39°39' | 096 | 24°52' | 165 | 15°51' | 229 | 28°30' | 267 | 42°46' | 305 | 23°30' | 017 |
| 22 | 56 34 | 030 | 27 19 | 082 | 48 59 | 117 | 34 52 | 201 | 46 59 | 257 | 37 16 | 287 | 13 11 | 348 | 202 | 43 11 | 066 | 39 52 | 098 | 24 55 | 167 | 15 42 | 231 | 28 17 | 268 | 42 36 | 307 | 23 33 | 019 |
| 24 | 56 41 | 032 | 27 31 | 084 | 49 10 | 119 | 34 47 | 203 | 46 47 | 259 | 37 04 | 289 | 13 09 | 350 | 204 | 43 23 | 068 | 40 04 | 100 | 24 57 | 169 | 15 32 | 233 | 28 05 | 270 | 42 26 | 309 | 23 38 | 021 |
| 26 | 56 48 | 034 | 27 44 | 086 | 49 21 | 121 | 34 42 | 205 | 46 34 | 261 | 36 52 | 291 | 13 07 | 352 | 206 | 43 34 | 070 | 40 17 | 102 | 24 59 | 171 | 15 22 | 235 | 27 52 | 272 | 42 16 | 311 | 23 42 | 023 |
| 28 | 56 55 | 035 | 27 56 | 088 | 49 32 | 123 | 34 36 | 207 | 46 22 | 264 | 36 41 | 293 | 13 05 | 354 | 208 | 43 46 | 072 | 40 29 | 104 | 25 01 | 174 | 15 11 | 237 | 27 40 | 274 | 42 07 | 313 | 23 47 | 025 |
| 30 | 57°02' | 037 | 28°09' | 090 | 49°42' | 125 | 34°30' | 209 | 46°09' | 266 | 36°29' | 295 | 13°04' | 356 | 210 | 43°53' | 026 | 43°58' | 074 | 45°04' | 106 | 25°02' | 176 | 15°01' | 239 | 27°27' | 276 | 23°48' | 027 |
| 32 | 57 07 | 039 | 28 21 | 092 | 49 52 | 127 | 34 24 | 211 | 45 57 | 268 | 36 18 | 297 | 13 03 | 358 | 212 | 44 03 | 028 | 44 10 | 076 | 40 53 | 108 | 25 03 | 178 | 14 50 | 241 | 27 15 | 278 | 23 51 | 029 |
| 34 | 57 18 | 041 | 28 34 | 094 | 50 02 | 129 | 34 17 | 214 | 45 44 | 270 | 36 07 | 299 | 13 03 | 360 | 214 | 44 04 | 030 | 44 22 | 078 | 41 05 | 110 | 25 03 | 180 | 14 39 | 243 | 27 03 | 280 | 23 54 | 031 |
| 36 | 57 26 | 042 | 28 46 | 096 | 50 12 | 132 | 34 10 | 216 | 45 32 | 272 | 35 56 | 301 | 13 03 | 362 | 216 | 44 11 | 032 | 44 35 | 079 | 41 16 | 112 | 25 03 | 182 | 14 27 | 245 | 26 50 | 282 | 23 57 | 033 |
| 38 | 57 35 | 044 | 28 59 | 098 | 50 21 | 134 | 34 03 | 218 | 45 19 | 274 | 35 45 | 304 | 13 04 | 364 | 218 | 44 18 | 034 | 44 47 | 081 | 41 28 | 114 | 25 02 | 184 | 14 16 | 247 | 26 38 | 284 | 24 01 | 035 |
| 40 | 57°44' | 046 | 29°11' | 100 | 50°30' | 136 | 33°55' | 220 | 45°07' | 275 | 35°35' | 302 | 13°05' | 366 | 220 | 44°25' | 036 | 45°00' | 083 | 41°39' | 116 | 25°01' | 186 | 14°04' | 249 | 26°26' | 286 | 24 05 | 037 |
| 42 | 57 53 | 048 | 29 23 | 102 | 50 38 | 138 | 33 46 | 222 | 44 54 | 277 | 35 25 | 306 | 13 06 | 368 | 222 | 44 32 | 038 | 45 12 | 085 | 41 51 | 118 | 25 00 | 188 | 13 53 | 251 | 26 14 | 288 | 24 08 | 039 |
| 44 | 58 02 | 049 | 29 35 | 104 | 50 46 | 140 | 33 38 | 224 | 44 42 | 279 | 35 15 | 308 | 13 08 | 370 | 224 | 44 40 | 040 | 45 25 | 087 | 42 01 | 120 | 24 58 | 190 | 13 41 | 253 | 26 02 | 290 | 24 11 | 041 |
| 46 | 58 12 | 051 | 29 48 | 106 | 50 54 | 142 | 33 29 | 226 | 44 29 | 281 | 35 05 | 310 | 13 10 | 372 | 226 | 44 48 | 042 | 45 37 | 089 | 42 12 | 122 | 24 55 | 192 | 13 29 | 255 | 25 50 | 292 | 24 14 | 043 |
| 48 | 58 22 | 053 | 30 00 | 108 | 51 02 | 145 | 33 20 | 228 | 44 17 | 283 | 34 55 | 312 | 13 13 | 374 | 228 | 44 57 | 043 | 45 50 | 091 | 42 23 | 124 | 24 52 | 194 | 13 17 | 257 | 25 39 | 294 | 24 17 | 045 |
| 50 | 58°32' | 055 | 30°11' | 110 | 51°09' | 147 | 33°10' | 230 | 44°05' | 285 | 34°46' | 314 | 13°16' | 376 | 230 | 45°06' | 045 | 46°02' | 093 | 42°33' | 127 | 24°49' | 196 | 13°04' | 259 | 25°28' | 296 | 24 20 | 047 |
| 52 | 58 42 | 057 | 30 23 | 112 | 51 16 | 149 | 33 01 | 232 | 43 53 | 287 | 34 37 | 316 | 13 20 | 378 | 232 | 45 15 | 047 | 46 15 | 095 | 42 43 | 129 | 24 45 | 199 | 12 52 | 261 | 25 16 | 298 | 24 23 | 049 |
| 54 | 58 53 | 058 | 30 35 | 114 | 51 22 | 151 | 32 50 | 234 | 43 41 | 289 | 34 29 | 318 | 13 24 | 380 | 234 | 45 24 | 049 | 46 27 | 097 | 42 52 | 131 | 24 41 | 201 | 12 39 | 263 | 25 05 | 300 | 24 26 | 051 |
| 56 | 59 04 | 060 | 30 46 | 116 | 51 28 | 153 | 32 40 | 237 | 43 29 | 291 | 34 20 | 320 | 13 28 | 382 | 236 | 45 34 | 051 | 46 40 | 099 | 43 02 | 133 | 24 36 | 203 | 12 27 | 265 | 24 55 | 302 | 24 29 | 053 |
| 58 | 59 15 | 062 | 30 57 | 118 | 51 33 | 156 | 32 30 | 239 | 43 18 | 293 | 34 12 | 321 | 13 33 | 384 | 238 | 45 44 | 053 | 46 52 | 101 | 43 11 | 135 | 24 31 | 205 | 12 15 | 267 | 24 44 | 304 | 24 32 | 055 |
| 60 | 13°43' | 025 | 59°26' | 064 | 31°08' | 122 | 51°42' | 158 | 32°08' | 243 | 43°06' | 295 | 34°05' | 323 | 240 | 25°54' | 055 | 47°04' | 103 | 43°20' | 137 | 24°26' | 207 | 15°04' | 260 | 24°34' | 306 | 24°02' | 342 |
| 62 | 13 43 | 027 | 59 37 | 066 | 31 19 | 122 | 51 42 | 160 | 32 08 | 243 | 42 55 | 297 | 33 57 | 325 | 242 | 26 04 | 057 | 47 16 | 105 | 43 28 | 139 | 24 20 | 209 | 14 52 | 262 | 24 24 | 308 | 24 05 | 344 |
| 64 | 13 49 | 029 | 59 49 | 067 | 31 29 | 125 | 51 46 | 162 | 31 56 | 245 | 42 44 | 299 | 33 50 | 327 | 244 | 26 15 | 059 | 47 28 | 107 | 43 36 | 141 | 24 14 | 211 | 14 41 | 264 | 24 14 | 310 | 24 08 | 346 |
| 66 | 13 56 | 031 | 60 00 | 069 | 31 39 | 127 | 51 50 | 165 | 31 45 | 247 | 42 33 | 301 | 33 44 | 329 | 246 | 26 26 | 061 | 47 40 | 109 | 43 44 | 143 | 24 07 | 213 | 14 30 | 266 | 24 04 | 312 | 24 11 | 348 |
| 68 | 14 02 | 033 | 60 12 | 071 | 31 49 | 129 | 51 53 | 167 | 31 33 | 249 | 42 22 | 302 | 33 38 | 331 | 248 | 26 37 | 063 | 47 52 | 111 | 43 51 | 145 | 24 00 | 215 | 14 19 | 268 | 23 55 | 313 | 24 14 | 349 |
| 70 | 14°09' | 035 | 60°24' | 073 | 31°59' | 131 | 51°56' | 169 | 31°22' | 251 | 42°12' | 304 | 33°32' | 333 | 250 | 26°48' | 065 | 48°04' | 114 | 43°58' | 148 | 23°53' | 217 | 14°04' | 270 | 23°46' | 315 | 24 17 | 351 |
| 72 | 14 16 | 037 | 60 36 | 075 | 32 08 | 133 | 51 58 | 171 | 31 10 | 253 | 42 01 | 306 | 33 26 | 335 | 252 | 26 59 | 067 | 48 15 | 116 | 44 04 | 150 | 23 45 | 219 | 13 51 | 272 | 23 38 | 317 | 24 20 | 353 |
| 74 | 14 24 | 039 | 60 48 | 077 | 32 17 | 135 | 51 59 | 174 | 30 58 | 255 | 41 50 | 308 | 33 21 | 336 | 254 | 27 11 | 069 | 48 26 | 118 | 44 10 | 152 | 23 37 | 221 | 13 41 | 274 | 23 29 | 319 | 24 23 | 355 |
| 76 | 14 32 | 041 | 61 00 | 079 | 32 26 | 137 | 52 01 | 176 | 30 45 | 257 | 41 42 | 310 | 33 16 | 338 | 256 | 27 23 | 071 | 48 37 | 120 | 44 16 | 154 | 23 28 | 223 | 13 30 | 276 | 23 21 | 321 | 24 26 | 357 |
| 78 | 14 40 | 043 | 61 13 | 081 | 32 35 | 139 | 52 01 | 178 | 30 33 | 259 | 41 32 | 312 | 33 11 | 340 | 258 | 27 34 | 072 | 48 48 | 122 | 44 21 | 157 | 23 20 | 225 | 13 19 | 278 | 23 13 | 323 | 24 29 | 359 |
| 80 | 14°49' | 045 | 61°25' | 083 | 32°43' | 141 | 52°01' | 180 | 30°21' | 261 | 41°23' | 314 | 33°07' | 342 | 260 | 27°46' | 074 | 48°58' | 124 | 44°26' | 159 | 23°10' | 227 | 13 08 | 280 | 23°06' | 325 | 24 32 | 361 |
| 82 | 14 58 | 046 | 61 38 | 085 | 32 50 | 143 | 52 01 | 183 | 30 08 | 263 | 41 14 | 316 | 33 00 | 344 | 262 | 27 59 | 076 | 49 09 | 126 | 44 30 | 161 | 23 01 | 230 | 12 56 | 282 | 22 59 | 327 | 24 35 | 363 |
| 84 | 15 07 | 048 | 61 50 | 087 | 32 58 | 145 | 52 00 | 185 | 29 56 | 265 | 41 05 | 317 | 33 00 | 346 | 264 | 28 11 | 078 | 49 19 | 129 | 44 34 | 163 | 22 51 | 232 | 12 45 | 284 | 22 52 | 329 | 24 38 | 365 |
| 86 | 15 17 | 050 | 62 03 | 088 | 33 05 | 147 | 51 59 | 187 | 29 43 | 267 | 40 57 | 319 | 32 57 | 348 | 266 | 28 23 | 080 | 49 28 | 131 | 44 38 | 165 | 22 41 | 234 | 12 34 | 286 | 22 46 | 331 | 24 41 | 367 |
| 88 | 15 27 | 052 | 62 15 | 090 | 33 11 | 150 | 51 57 | 189 | 29 31 | 269 | 40 49 | 321 | 32 55 | 349 | | | | | | | | | | | | | | | |

| LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|----------|-------------------------|-----------------------|------------------------|-------------------------|-------------------------|----------------------|-------------------------|----------|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|-------------------------|
| 0 | Dubhe 56°44' 012 | POLLUX 25°38' 061 | *CAPELLA 46°24' 095 | Alpheratz 34°13' 177 | *DENEb 48°29' 234 | VEGA 39°27' 265 | *ARCTURUS 14°54' 327 | | 180 | *DENEb 42°00' 046 | VEGA 37°49' 077 | *ARCTURUS 23°10' 145 | REGULUS 16°16' 208 | POLLUX 30°07' 246 | *CAPELLA 44°55' 285 | Alpheratz 24°14' 358 |
| 2 | 56 47 014 | 25 47 063 | 46 52 097 | 34 14 180 | 48 20 236 | 39 17 267 | 14 48 329 | | 182 | 42 08 048 | 37 59 079 | 23 16 147 | 16 11 210 | 29 57 248 | 44 45 287 | 24 14 000 |
| 4 | 56 49 015 | 25 56 065 | 47 03 099 | 34 14 182 | 48 12 238 | 39 06 269 | 14 43 331 | | 184 | 42 15 050 | 38 10 081 | 23 21 149 | 16 05 212 | 29 48 250 | 44 35 289 | 24 14 002 |
| 6 | 56 52 017 | 26 06 067 | 47 13 101 | 34 13 184 | 48 03 240 | 38 56 271 | 14 38 333 | | 186 | 42 23 052 | 38 20 083 | 23 26 151 | 16 00 214 | 29 38 252 | 44 25 291 | 24 14 003 |
| 8 | 56 55 019 | 26 16 069 | 47 23 103 | 34 12 186 | 47 54 242 | 38 45 273 | 14 33 334 | | 188 | 42 32 053 | 38 30 085 | 23 31 153 | 15 54 216 | 29 28 254 | 44 15 293 | 24 14 005 |
| 10 | 56°55' 021 | 26°25' 071 | 47°33' 105 | 34°11' 188 | 47°44' 244 | 38°35' 275 | 14°29' 336 | | 190 | 42°40' 055 | 38°41' 087 | 23°36' 155 | 15°47' 218 | 29°18' 256 | 44°06' 295 | 24°16' 007 |
| 12 | 57 03 022 | 26 35 073 | 47 43 107 | 34 09 190 | 47 35 246 | 38 25 277 | 14 25 338 | | 192 | 42 49 057 | 38 51 089 | 23 40 157 | 15 41 220 | 29 07 258 | 43 56 297 | 24 18 009 |
| 14 | 57 07 024 | 26 45 075 | 47 53 109 | 34 07 192 | 47 25 248 | 38 14 279 | 14 21 340 | | 194 | 42 58 059 | 39 02 091 | 23 44 159 | 15 34 222 | 28 57 260 | 43 47 299 | 24 20 011 |
| 16 | 57 11 026 | 26 56 077 | 48 03 111 | 34 05 194 | 47 15 250 | 38 04 280 | 14 18 342 | | 196 | 43 07 061 | 39 12 093 | 23 48 161 | 15 27 224 | 28 47 262 | 43 38 300 | 24 22 013 |
| 18 | 57 16 027 | 27 06 079 | 48 13 114 | 34 02 196 | 47 05 252 | 37 54 282 | 14 15 344 | | 198 | 43 16 063 | 39 23 095 | 23 51 163 | 15 19 226 | 28 36 264 | 43 29 303 | 24 24 015 |
| 20 | 57°21' 029 | 27°16' 081 | 48°22' 116 | 33°59' 199 | 46°55' 254 | 37°43' 284 | 14°12' 346 | | 200 | 43°26' 065 | 39°33' 097 | 23°54' 165 | 15°11' 228 | 28°26' 266 | 43°20' 305 | 24°27' 017 |
| 22 | 57 26 031 | 27 26 083 | 48 32 118 | 33 55 201 | 46 45 256 | 37 33 286 | 14 10 348 | | 202 | 43 35 067 | 39 43 099 | 23 56 167 | 15 03 230 | 28 16 268 | 43 12 306 | 24 30 019 |
| 24 | 57 32 033 | 27 37 085 | 48 41 120 | 33 52 203 | 46 35 258 | 37 23 288 | 14 08 350 | | 204 | 43 45 069 | 39 54 101 | 23 58 169 | 14 55 233 | 28 05 270 | 43 03 308 | 24 34 021 |
| 26 | 57 37 035 | 27 47 087 | 48 50 122 | 33 47 205 | 46 25 260 | 37 14 290 | 14 06 352 | | 206 | 43 55 071 | 40 04 103 | 24 00 172 | 14 47 235 | 27 45 272 | 42 55 310 | 24 38 023 |
| 28 | 57 43 036 | 27 58 089 | 48 59 124 | 33 43 207 | 46 14 262 | 37 04 292 | 14 05 354 | | 208 | 44 05 073 | 40 14 105 | 24 01 174 | 14 38 237 | 27 44 274 | 42 47 312 | 24 42 025 |
| 30 | Dubhe 57°50' 038 | POLLUX 28°19 093 | *CAPELLA 49°07' 126 | Alpheratz 33°38' 209 | *DENEb 46°04' 265 | VEGA 36°54' 294 | *ARCTURUS 14°04' 356 | | 210 | Alpheratz 42°46' 026 | *DENEb 44°15' 075 | VEGA 40°24' 107 | *ARCTURUS 24°02' 176 | REGULUS 14°29' 239 | POLLUX 27°34' 276 | *CAPELLA 42°40' 314 |
| 32 | 57 56 040 | 28 19 093 | 49 16 128 | 33 33 211 | 45 54 267 | 36 45 296 | 14 03 358 | | 212 | 24 51 028 | 44 25 077 | 40 34 109 | 24 03 178 | 14 20 241 | 27 23 278 | 42 32 316 |
| 34 | 58 03 042 | 28 29 095 | 49 24 130 | 33 27 213 | 45 43 269 | 36 35 298 | 14 03 000 | | 214 | 24 56 030 | 44 35 078 | 40 44 111 | 24 03 180 | 14 11 243 | 27 13 280 | 42 25 318 |
| 36 | 58 10 043 | 28 39 097 | 49 31 132 | 33 21 215 | 45 33 271 | 36 26 300 | 14 03 002 | | 216 | 25 02 032 | 44 45 080 | 40 54 113 | 24 03 182 | 14 02 245 | 27 03 282 | 42 18 320 |
| 38 | 58 18 045 | 28 50 099 | 49 39 135 | 33 15 217 | 45 22 273 | 36 17 302 | 14 04 004 | | 218 | 25 07 034 | 44 55 082 | 41 03 115 | 24 02 184 | 13 52 247 | 26 53 284 | 42 12 322 |
| 40 | 58°25' 047 | 29°00' 101 | 49°46' 137 | 33°09' 219 | 45°12' 274 | 36°08' 304 | 14°05' 006 | | 220 | 25°13' 036 | 45°06' 084 | 41°13' 117 | 24°02' 186 | 13°43' 249 | 26°43' 286 | 42°05' 323 |
| 42 | 58 33 049 | 29 10 103 | 49 53 139 | 33 02 222 | 45 01 276 | 36 00 306 | 14 06 008 | | 222 | 25 20 038 | 45 16 086 | 41 22 119 | 24 00 188 | 13 33 251 | 26 33 288 | 41 59 325 |
| 44 | 58 41 051 | 29 21 105 | 50 00 141 | 32 55 224 | 44 51 278 | 35 51 308 | 14 07 010 | | 224 | 25 26 040 | 45 27 088 | 41 31 121 | 23 59 190 | 13 23 253 | 26 23 290 | 41 53 327 |
| 46 | 58 49 052 | 29 31 107 | 50 07 143 | 32 47 226 | 44 41 280 | 35 43 310 | 14 09 011 | | 226 | 25 33 042 | 45 37 090 | 41 40 123 | 23 57 192 | 13 13 255 | 26 13 292 | 41 48 329 |
| 48 | 58 57 054 | 29 41 109 | 50 13 145 | 32 40 228 | 44 31 282 | 35 35 311 | 14 12 013 | | 228 | 25 40 044 | 45 48 092 | 41 48 125 | 23 54 194 | 13 03 257 | 26 03 294 | 41 43 331 |
| 50 | 59°06' 056 | 29°50' 111 | 50°18' 147 | 32°32' 230 | 44°20' 284 | 35°28' 313 | 14°14' 015 | | 230 | 25°48' 046 | 45°58' 094 | 41°57' 127 | 23°51' 196 | 12°53' 259 | 25°54' 296 | 41°38' 333 |
| 52 | 59 15 058 | 30 00 113 | 50 24 150 | 32 24 232 | 44 10 286 | 35 20 315 | 14 17 017 | | 232 | 25 55 048 | 46 09 096 | 42 05 129 | 23 48 198 | 12 42 261 | 25 44 298 | 41 33 335 |
| 54 | 59 24 060 | 30 10 115 | 50 29 152 | 32 15 234 | 44 00 288 | 35 13 317 | 14 20 019 | | 234 | 26 03 050 | 46 19 098 | 42 13 131 | 23 45 200 | 12 32 263 | 25 35 300 | 41 29 336 |
| 56 | 59 33 062 | 30 19 117 | 50 34 154 | 32 07 236 | 43 50 290 | 35 06 319 | 14 24 021 | | 236 | 26 11 051 | 46 29 100 | 42 21 134 | 23 41 203 | 12 22 265 | 25 26 301 | 41 25 338 |
| 58 | 59 42 063 | 30 28 119 | 50 38 156 | 31 58 238 | 43 41 292 | 34 59 321 | 14 28 023 | | 238 | 26 19 053 | 46 40 102 | 42 28 136 | 23 37 205 | 12 11 267 | 25 17 303 | 41 21 340 |
| 60 | *ARCTURUS 14°32' 025 | Dubhe 59°51' 065 | POLLUX 30°37' 121 | *CAPELLA 50°46' 158 | Alpheratz 31°40' 240 | *DENEb 43°31' 294 | VEGA 34°53' 323 | | 240 | *ARCTURUS 26°28' 055 | *DENEb 46°05' 104 | VEGA 42°35' 138 | *ARCTURUS 23°32' 207 | Dubhe 62°38' 263 | POLLUX 25°09 307 | *CAPELLA 41°17' 342 |
| 62 | 14 37 027 | 60 01 067 | 30 46 123 | 50 46 161 | 31 40 242 | 43 22 296 | 34 47 325 | | 242 | 26 37 057 | 47 00 106 | 42 42 140 | 23 27 209 | 62 28 265 | 25 00 305 | 41 14 344 |
| 64 | 14 42 029 | 60 11 069 | 30 55 125 | 50 49 163 | 31 31 244 | 43 12 298 | 34 41 327 | | 244 | 26 46 059 | 47 10 109 | 42 49 142 | 23 22 211 | 62 17 267 | 24 52 309 | 41 12 346 |
| 66 | 14 47 031 | 60 21 071 | 31 03 127 | 50 52 165 | 31 21 246 | 43 03 300 | 34 35 329 | | 246 | 26 55 061 | 47 20 111 | 42 55 144 | 23 17 213 | 62 07 269 | 24 44 311 | 41 09 347 |
| 68 | 14 53 033 | 60 31 073 | 31 12 129 | 50 55 167 | 31 11 248 | 42 54 302 | 34 30 330 | | 248 | 27 04 063 | 47 29 113 | 43 01 146 | 23 11 215 | 61 56 271 | 24 36 313 | 41 07 349 |
| 70 | 14°58' 035 | 60°41' 075 | 31°20' 131 | 50°57' 169 | 31°02' 250 | 42°45' 304 | 34°25' 332 | | 250 | 27°13' 065 | 47°39' 115 | 43°07' 148 | 23°05' 217 | 61°46' 273 | 24°29' 315 | 41°05' 351 |
| 72 | 15 05 037 | 60 51 077 | 31 27 133 | 50 58 172 | 30 52 252 | 42 37 305 | 34 20 334 | | 252 | 27 23 067 | 47 48 117 | 43 12 150 | 22 58 219 | 61 35 275 | 24 22 317 | 41 04 353 |
| 74 | 15 11 039 | 61 01 079 | 31 35 135 | 51 00 174 | 30 42 254 | 42 28 307 | 34 16 336 | | 254 | 27 33 069 | 47 58 119 | 43 17 153 | 22 52 221 | 61 25 277 | 24 15 319 | 41 03 355 |
| 76 | 15 18 041 | 61 11 081 | 31 42 137 | 51 01 176 | 30 32 256 | 42 20 309 | 34 12 338 | | 256 | 27 42 071 | 48 07 121 | 43 22 155 | 22 45 223 | 61 15 279 | 24 08 321 | 41 02 357 |
| 78 | 15 25 043 | 61 22 082 | 31 49 139 | 51 01 178 | 30 21 258 | 42 12 311 | 34 08 340 | | 258 | 27 52 073 | 48 15 123 | 43 26 157 | 22 37 225 | 61 04 281 | 24 01 323 | 41 01 358 |
| 80 | 15°32' 045 | 61°32' 084 | 31°56' 142 | 51°01' 180 | 30°11' 260 | 42°04' 313 | 34°04' 342 | | 260 | 28°02' 075 | 48°24' 125 | 43°30' 159 | 22°30' 227 | 60°54' 283 | 23°55' 325 | 41°01' 000 |
| 82 | 15 39 047 | 61 42 086 | 32 02 144 | 51 01 183 | 30 01 262 | 41 57 315 | 34 01 344 | | 262 | 28 13 077 | 48 33 127 | 43 34 161 | 22 22 229 | 60 44 285 | 23 49 327 | 41 02 002 |
| 84 | 15 47 049 | 61 53 088 | 32 08 146 | 51 00 185 | 29 50 264 | 41 49 317 | 33 59 346 | | 264 | 28 23 079 | 48 41 129 | 43 37 163 | 22 14 231 | 60 34 287 | 23 44 329 | 41 02 004 |
| 86 | 15 55 051 | 62 03 090 | 32 14 148 | 50 59 187 | 29 40 266 | 41 42 319 | 33 56 347 | | 266 | 28 33 081 | 48 49 132 | 43 39 165 | 22 06 233 | 60 24 288 | 23 38 331 | 41 03 006 |
| 88 | 16 03 053 | 62 14 092 | 32 19 150 | 50 58 189 | 29 30 268 | 41 36 321 | 33 54 349 | | 268 | 28 43 083 | 48 56 134 | 43 42 168 | 21 57 235 | 60 14 290 | 23 33 332 | 41 04 008 |
| 90 | *ARCTURUS 16°12' 054 | REGULUS 59°07' 117 | POLLUX 32°24' 152 | *CAPELLA 50°56' 191 | Alpheratz 29°19' 270 | *DENEb 43°19' 322 | VEGA 33°52' 351 | | 270 | *CAPELLA 41°06' 010 | Alpheratz 28°54' 085 | *DENEb 49°04' 136 | VEGA 43°44' 170 | *ARCTURUS 23°48' 237 | Dubhe 60°04' 292 | POLLUX 23°29' 334 |
| 92 | 16 20 056 | 14 17 119 | 32 29 154 | 50 54 194 | 29 09 272 | 41 23 324 | 33 51 353 | | 272 | 41 08 011 | 29 04 087 | 49 11 138 | 43 46 172 | 21 40 239 | 59 55 294 | 23 24 336 |
| 94 | 16 29 058 | 14 26 121 | 32 34 156 | 50 51 196 | 28 58 274 | 41 17 326 | 33 50 355 | | 274 | 41 10 013 | 29 15 089 | 49 18 140 | 43 47 174 | 21 30 241 | 59 45 296 | 23 20 338 |
| 96 | 16 38 060 | 14 35 123 | 32 38 158 | 50 48 198 | 28 48 276 | 41 11 328 | 33 49 357 | | 276 | 41 13 015 | 29 25 091 | 49 24 142 | 43 48 176 | 21 21 243 | 59 36 298 | 23 17 340 |
| 98 | 16 47 062 | 14 43 125 | 32 41 160 | 50 45 200 | 28 37 278 | 41 06 330 | 33 48 359 | | 278 | 41 15 017 | 29 36 093 | 49 31 144 | 43 48 178 | 21 12 245 | 59 27 300 | 23 13 342 |
| 100 | 16°57' 064 | 14°52' 127 | 32°45' 162 | 50°41' 202 | 28°27' 280 | 41°01' 332 | 33°48' 001 | | 280 | 41°19' 019 | 29°46' 095 | 49°37' 147 | 43°48' 181 | 21°02' 247 | 59°18' 302 | 23°10' 344 |
| 102 | 17 06 066 | 15 00 129 | 32 48 165 | 50 37 205 | 28 17 282 | 40 56 334 | 33 49 002 | | 282 | 41 22 021 | 29 56 097 | 49 42 149 | 43 48 183 | 20 52 249 | 59 09 303 | 23 07 346 |
| 104 | 17 16 068 | 15 08 131 | 32 50 16 | | | | | | | | | | | | | |

| LHA Υ | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn | Hc Zn |
|----------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----------|----------|
| 0 | Dubhe 57°43' 012 | POLLUX 26°07' 061 | *CAPELLA 46°36' 096 | Alpheratz 33°13' 177 | *DENEb 47°53' 233 | VEGA 39°21' 264 | *ARCTURUS 15°44' 326 | | |
| 2 | 57 45 014 | 26 14 063 | 46 44 098 | 33 14 180 | 47 46 235 | 39 13 266 | 15 39 320 | | |
| 4 | 57 47 016 | 26 22 065 | 46 53 100 | 33 14 182 | 47 39 237 | 39 04 268 | 15 35 330 | | |
| 6 | 57 49 017 | 26 29 067 | 47 01 102 | 33 13 184 | 47 32 239 | 38 56 270 | 15 31 332 | | |
| 8 | 57 52 019 | 26 37 069 | 47 09 104 | 33 13 186 | 47 25 241 | 38 48 272 | 15 27 334 | | |
| 10 | 57°55' 021 | 26°45' 071 | 47°17' 106 | 33°12' 188 | 47°18' 243 | 38°39' 274 | 15°24' 336 | | |
| 12 | 57 58 023 | 26 53 073 | 47 25 108 | 33 10 190 | 47 10 245 | 38 31 276 | 15 21 338 | | |
| 14 | 58 01 025 | 27 01 075 | 47 33 110 | 33 09 192 | 47 02 247 | 38 23 278 | 15 18 340 | | |
| 16 | 58 05 026 | 27 09 077 | 47 41 112 | 33 07 194 | 46 55 249 | 38 15 280 | 15 15 342 | | |
| 18 | 58 09 028 | 27 17 079 | 47 48 115 | 33 05 196 | 46 47 251 | 38 06 282 | 15 12 344 | | |
| 20 | 58°13' 030 | 27°24' 081 | 47°56' 117 | 33°02' 198 | 46°39' 253 | 37°58' 284 | 15°10' 346 | | |
| 22 | 58 17 032 | 27 32 083 | 48 03 119 | 32 59 200 | 46 31 255 | 37 50 286 | 15 08 348 | | |
| 24 | 58 22 034 | 27 42 085 | 48 11 121 | 32 56 202 | 46 23 257 | 37 42 288 | 15 07 350 | | |
| 26 | 58 27 035 | 27 51 087 | 48 18 123 | 32 53 205 | 46 14 259 | 37 34 290 | 15 06 352 | | |
| 28 | 58 32 037 | 27 59 089 | 48 25 125 | 32 49 207 | 46 06 261 | 37 26 292 | 15 04 354 | | |
| 30 | Dubhe 58°37' 039 | POLLUX 28°07' 091 | *CAPELLA 48°31' 127 | Alpheratz 32°45' 209 | *DENEb 45°58' 263 | VEGA 37°18' 293 | *ARCTURUS 15°04' 356 | | |
| 32 | 58 42 041 | 28 16 093 | 48 38 129 | 32 41 211 | 45 49 265 | 37 11 295 | 15 03 358 | | |
| 34 | 58 48 043 | 28 24 095 | 48 44 131 | 32 37 213 | 45 41 267 | 37 03 297 | 15 03 000 | | |
| 36 | 58 53 045 | 28 32 097 | 48 51 133 | 32 32 215 | 45 33 269 | 36 56 299 | 15 03 002 | | |
| 38 | 58 59 046 | 28 41 099 | 48 57 135 | 32 27 217 | 45 24 271 | 36 49 301 | 15 04 004 | | |
| 40 | 59°06' 048 | 28°49' 101 | 49°02' 137 | 32°22' 219 | 45°16' 273 | 36°42' 303 | 15°04' 006 | | |
| 42 | 59 12 050 | 28 57 103 | 49 08 140 | 32 17 221 | 45 08 275 | 36 35 305 | 15 05 008 | | |
| 44 | 59 18 052 | 29 05 105 | 49 15 142 | 32 11 223 | 44 59 277 | 36 28 307 | 15 07 010 | | |
| 46 | 59 25 054 | 29 13 107 | 49 23 144 | 32 05 225 | 44 51 279 | 36 21 309 | 15 08 012 | | |
| 48 | 59 32 056 | 29 21 109 | 49 30 146 | 31 59 227 | 44 43 281 | 36 15 311 | 15 10 014 | | |
| 50 | 59°39' 057 | 29°29' 111 | 49°38' 148 | 31°53' 229 | 44°35' 283 | 36°09' 313 | 15°12' 015 | | |
| 52 | 59 46 059 | 29 37 113 | 49 45 150 | 31 46 231 | 44 27 285 | 36 03 315 | 15 14 017 | | |
| 54 | 59 53 061 | 29 44 115 | 49 52 152 | 31 40 233 | 44 19 287 | 35 57 317 | 15 17 019 | | |
| 56 | 60 01 063 | 29 52 117 | 49 59 155 | 31 33 235 | 44 11 289 | 35 51 319 | 15 20 021 | | |
| 58 | 60 08 065 | 29 59 119 | 49 43 157 | 31 26 238 | 44 03 291 | 35 46 321 | 15 23 023 | | |
| 60 | *ARCTURUS 15°27' 025 | REGULUS 11°37' 089 | POLLUX 30°06' 123 | *CAPELLA 49°46' 159 | Alpheratz 31°19' 240 | *DENEb 43°55' 293 | VEGA 35°40' 322 | | |
| 62 | 15 30 027 | 11 47 089 | 30 13 124 | 49 49 161 | 31 12 242 | 43 47 295 | 35 35 324 | | |
| 64 | 15 34 029 | 11 56 091 | 30 20 126 | 49 52 163 | 31 04 244 | 43 40 297 | 35 31 326 | | |
| 66 | 15 38 031 | 12 04 093 | 30 27 128 | 49 54 165 | 30 57 246 | 43 32 299 | 35 26 328 | | |
| 68 | 15 43 033 | 12 12 095 | 30 34 130 | 49 56 167 | 30 49 248 | 43 25 301 | 35 22 330 | | |
| 70 | 15°48' 035 | 12°21' 097 | 30°40' 132 | 49°58' 170 | 30°41' 250 | 43°18' 303 | 35°18' 332 | | |
| 72 | 15 52 037 | 12 29 099 | 30 46 134 | 49 59 172 | 30 33 252 | 43 11 305 | 35 14 334 | | |
| 74 | 15 58 039 | 12 37 101 | 30 52 136 | 50 00 174 | 30 25 254 | 43 04 307 | 35 10 336 | | |
| 76 | 16 03 041 | 12 45 103 | 30 58 138 | 50 01 176 | 30 17 256 | 42 58 309 | 35 07 338 | | |
| 78 | 16 09 043 | 12 53 105 | 31 03 140 | 50 01 178 | 30 09 258 | 42 51 310 | 35 04 340 | | |
| 80 | 16°14' 045 | 13°02' 107 | 31°09' 142 | 50°01' 180 | 30°01' 262 | 42°45' 312 | 35°01' 342 | | |
| 82 | 16 20 047 | 13 09 109 | 31 14 144 | 50 01 183 | 29 53 264 | 42 39 314 | 34 59 344 | | |
| 84 | 16 27 049 | 13 17 111 | 31 18 146 | 50 01 185 | 29 46 266 | 42 33 316 | 34 57 346 | | |
| 86 | 16 33 051 | 13 25 113 | 31 23 148 | 50 00 187 | 29 39 268 | 42 27 318 | 34 55 348 | | |
| 88 | 16 40 053 | 13 33 115 | 31 27 150 | 49 59 189 | 29 28 268 | 42 22 320 | 34 53 349 | | |
| 90 | *ARCTURUS 15°46' 055 | REGULUS 13°40' 117 | POLLUX 31°31' 152 | *CAPELLA 49°57' 191 | Alpheratz 29°19' 270 | *DENEb 42°16' 322 | VEGA 34°51' 351 | | |
| 92 | 16 53 057 | 13 48 119 | 31 35 154 | 49 55 193 | 29 11 272 | 42 11 324 | 34 50 353 | | |
| 94 | 17 00 059 | 13 55 121 | 31 39 156 | 49 53 196 | 29 02 274 | 42 07 326 | 34 49 355 | | |
| 96 | 17 08 061 | 14 02 123 | 31 42 158 | 49 51 198 | 28 54 276 | 42 02 328 | 34 48 357 | | |
| 98 | 17 15 063 | 14 09 125 | 31 45 161 | 49 48 200 | 28 46 278 | 41 58 329 | 34 47 359 | | |
| 100 | 17°22' 065 | 14°16' 127 | 31°47' 163 | 49°45' 202 | 28°37' 280 | 41°53' 331 | 34°48' 001 | | |
| 102 | 17 30 067 | 14 22 129 | 31 50 165 | 49 42 204 | 28 29 282 | 41 50 333 | 34 49 002 | | |
| 104 | 17 38 069 | 14 29 131 | 31 52 167 | 49 38 206 | 28 21 284 | 41 46 335 | 34 49 004 | | |
| 106 | 17 46 071 | 14 35 133 | 31 54 169 | 49 35 208 | 28 13 286 | 41 43 337 | 34 50 006 | | |
| 108 | 17 54 073 | 14 41 135 | 31 55 171 | 49 30 211 | 28 05 288 | 41 39 339 | 34 51 008 | | |
| 110 | 18°02' 075 | 14°47' 137 | 31°56' 173 | 49°26' 213 | 27°57' 290 | 41°36' 341 | 34°52' 010 | | |
| 112 | 18 10 076 | 14 53 139 | 31 57 175 | 49 21 215 | 27 49 292 | 41 34 343 | 34 54 012 | | |
| 114 | 18 18 078 | 14 58 141 | 31 58 177 | 49 16 217 | 27 42 294 | 41 31 344 | 34 56 014 | | |
| 116 | 18 26 080 | 15 03 143 | 31 59 179 | 49 11 219 | 27 34 296 | 41 29 346 | 34 58 016 | | |
| 118 | 18 34 082 | 15 08 145 | 31 58 181 | 49 06 221 | 27 26 298 | 41 28 348 | 35 00 018 | | |
| 120 | VEGA 35°03' 020 | *ARCTURUS 18°43' 084 | REGULUS 15°13' 147 | POLLUX 31°58' 183 | *CAPELLA 49°00' 223 | Alpheratz 27°19' 299 | *DENEb 41°26' 350 | | |
| 122 | 35 06 021 | 18 51 086 | 15 17 149 | 31 57 186 | 48 54 225 | 27 12 301 | 41 25 352 | | |
| 124 | 35 09 023 | 18 58 088 | 15 21 151 | 31 56 188 | 48 48 227 | 27 05 303 | 41 24 354 | | |
| 126 | 35 12 025 | 19 08 090 | 15 25 153 | 31 55 190 | 48 42 230 | 26 58 305 | 41 23 356 | | |
| 128 | 35 16 027 | 19 16 092 | 15 29 155 | 31 53 192 | 48 36 232 | 26 51 307 | 41 22 358 | | |
| 130 | 35°20' 029 | 19°24' 094 | 15°32' 157 | 31°51' 194 | 48°29' 234 | 26°45' 309 | 41°22' 359 | | |
| 132 | 35 24 031 | 19 33 096 | 15 35 159 | 31 49 196 | 48 22 236 | 26 38 311 | 41 22 001 | | |
| 134 | 35 29 033 | 19 41 098 | 15 38 161 | 31 47 198 | 48 15 238 | 26 32 313 | 41 23 003 | | |
| 136 | 35 33 035 | 19 49 100 | 15 41 163 | 31 44 200 | 48 08 240 | 26 26 315 | 41 23 005 | | |
| 138 | 35 38 037 | 19 58 102 | 15 43 165 | 31 41 202 | 48 01 242 | 26 20 317 | 41 24 007 | | |
| 140 | 35°43' 039 | 20°06' 104 | 15°45' 167 | 31°38' 204 | 47°53' 244 | 26°15' 319 | 41°25' 009 | | |
| 142 | 35 49 041 | 20 14 106 | 15 47 169 | 31 36 206 | 47 46 246 | 26 09 321 | 41 27 011 | | |
| 144 | 35 54 042 | 20 22 108 | 15 48 171 | 31 30 208 | 47 38 248 | 26 04 323 | 41 28 013 | | |
| 146 | 36 00 044 | 20 30 110 | 15 49 173 | 31 26 210 | 47 30 250 | 25 59 325 | 41 30 014 | | |
| 148 | 36 06 046 | 20 37 112 | 15 50 175 | 31 22 212 | 47 22 252 | 25 54 327 | 41 32 016 | | |
| 150 | *DENEb 41°35' 018 | VEGA 36°12' 048 | *ARCTURUS 20°45' 114 | REGULUS 15°50' 178 | POLLUX 31°17' 215 | *CAPELLA 47°14' 254 | Alpheratz 25°50' 329 | | |
| 152 | 41 38 020 | 36 18 050 | 20 53 117 | 15 51 180 | 31 12 217 | 47 06 256 | 25 46 331 | | |
| 154 | 41 41 022 | 36 25 052 | 21 00 119 | 15 51 182 | 31 07 219 | 46 58 258 | 25 42 333 | | |
| 156 | 41 44 024 | 36 32 054 | 21 07 121 | 15 50 184 | 31 02 221 | 46 50 260 | 25 38 335 | | |
| 158 | 41 47 026 | 36 38 056 | 21 15 123 | 15 50 186 | 30 56 223 | 46 41 263 | 25 34 336 | | |
| 160 | 41°51' 028 | 36°45' 058 | 21°21' 125 | 15°49' 188 | 30°50' 225 | 46°33' 265 | 25°31' 338 | | |
| 162 | 41 55 029 | 36 53 060 | 21 28 127 | 15 47 190 | 30 44 227 | 46 25 267 | 25 28 340 | | |
| 164 | 41 59 031 | 37 00 062 | 21 35 129 | 15 46 192 | 30 38 229 | 46 16 269 | 25 26 342 | | |
| 166 | 42 04 033 | 37 07 064 | 21 41 131 | 15 44 194 | 30 32 231 | 46 08 271 | 25 23 344 | | |
| 168 | 42 09 035 | 37 15 066 | 21 48 133 | 15 42 196 | 30 25 233 | 46 00 273 | 25 21 346 | | |
| 170 | 42°14' 037 | 37°23' 068 | 21°54' 135 | 15°39' 198 | 30°18' 235 | 45°51' 274 | 25°19' 348 | | |
| 172 | 42 19 039 | 37 30 070 | 22 00 137 | 15 37 200 | 30 11 237 | 45 43 276 | 25 18 350 | | |
| 174 | 42 24 041 | 37 37 072 | 22 05 139 | 15 36 202 | 30 04 239 | 45 35 278 | 25 16 352 | | |
| 176 | 42 30 043 | 37 46 074 | 22 11 141 | 15 30 204 | 29 57 241 | 45 26 280 | 25 15 354 | | |
| 178 | 42 35 045 | 37 54 075 | 22 16 143 | 15 27 206 | 29 50 243 | 45 18 282 | 25 14 356 | | |

| LHA Υ | Hc Zn | Hc Zn |
|----------|----------|----------|
|----------|----------|----------|

| LHA Υ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | LHA Υ | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn |
|----------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-----------|------------|----|
| 0 | 58°42' 012 | 26°35' 062 | *CAPELLA | 46°29' 097 | Alpheratz | *DENE | VEGA | *ARCTURUS | 180 | 43°22' 047 | 38°15' 078 | 21°31' 145 | 14°30' 208 | 29°17' 245 | *CAPELLA | 45°24' 283 | Alpheratz | 26°14' 358 | |
| 2 | 58 43 014 | 26 41 064 | 46 35 099 | 32 14 180 | 47 11 234 | 39 08 265 | 16 30 328 | 182 | 43 27 049 | 38 21 080 | 21 35 147 | 14 27 210 | 29 11 247 | 45 18 285 | 26 14 400 | | | | |
| 4 | 58 45 016 | 26 46 066 | 46 41 101 | 32 14 182 | 47 06 236 | 39 02 267 | 16 27 330 | 184 | 43 32 051 | 38 28 082 | 21 38 149 | 14 24 212 | 29 05 249 | 45 12 287 | 26 14 002 | | | | |
| 6 | 58 47 018 | 26 52 068 | 46 48 103 | 32 13 184 | 47 01 238 | 38 55 269 | 16 24 332 | 186 | 43 37 053 | 38 34 084 | 21 41 151 | 14 20 214 | 28 59 251 | 45 06 289 | 26 14 003 | | | | |
| 8 | 58 49 020 | 26 58 070 | 46 54 105 | 32 13 186 | 46 56 240 | 38 49 271 | 16 21 334 | 188 | 43 42 055 | 38 40 086 | 21 44 153 | 14 17 216 | 28 53 253 | 45 00 291 | 26 15 005 | | | | |
| 10 | 58°51' 022 | 27°04' 072 | 47°00' 107 | 32°12' 188 | 46°50' 242 | 38°43' 273 | 16°19' 336 | 190 | 43°47' 057 | 38°46' 088 | 21°47' 155 | 14°13' 218 | 28°47' 255 | 44°55' 293 | 26°15' 007 | | | | |
| 12 | 58 53 023 | 27 10 074 | 47 06 109 | 32 11 190 | 46 44 244 | 38 37 275 | 16 16 338 | 192 | 43 52 059 | 38 53 090 | 21 50 157 | 14 09 220 | 28 41 257 | 44 49 295 | 26 16 009 | | | | |
| 14 | 58 56 025 | 27 16 076 | 47 11 111 | 32 10 192 | 46 39 246 | 38 30 277 | 16 14 340 | 194 | 43 58 061 | 38 59 092 | 21 52 159 | 14 05 222 | 28 35 259 | 44 43 297 | 26 17 011 | | | | |
| 16 | 58 59 027 | 27 22 078 | 47 17 113 | 32 09 194 | 46 33 248 | 38 24 279 | 16 12 342 | 196 | 44 03 063 | 39 05 094 | 21 54 161 | 14 01 224 | 28 29 261 | 44 38 299 | 26 19 013 | | | | |
| 18 | 59 02 029 | 27 28 080 | 47 23 116 | 32 07 196 | 46 27 250 | 38 18 281 | 16 10 344 | 198 | 44 09 065 | 39 11 096 | 21 56 163 | 13 56 226 | 28 23 263 | 44 32 301 | 26 20 015 | | | | |
| 20 | 59°05' 031 | 27°34' 082 | 47°29' 118 | 32°05' 198 | 46°21' 252 | 38°12' 283 | 16°09' 346 | 200 | 44°15' 067 | 39°18' 098 | 21°58' 166 | 13°52' 228 | 28°16' 265 | 44°27' 303 | 26°22' 017 | | | | |
| 22 | 59 08 033 | 27 41 084 | 47 34 120 | 32 03 200 | 46 15 254 | 38 06 285 | 16 07 348 | 202 | 44 21 069 | 39 24 100 | 21 59 168 | 13 47 230 | 28 10 267 | 44 22 305 | 26 24 019 | | | | |
| 24 | 59 11 035 | 27 47 086 | 47 40 122 | 32 01 202 | 46 09 256 | 38 00 287 | 16 06 350 | 204 | 44 27 071 | 39 30 102 | 22 00 170 | 13 42 232 | 28 04 269 | 44 17 307 | 26 26 021 | | | | |
| 26 | 59 15 036 | 27 53 088 | 47 45 124 | 31 58 204 | 46 03 258 | 37 54 289 | 16 05 352 | 206 | 44 32 073 | 39 36 104 | 22 01 172 | 13 37 234 | 27 58 271 | 44 12 309 | 26 28 023 | | | | |
| 28 | 59 19 038 | 27 59 090 | 47 50 126 | 31 56 206 | 45 57 260 | 37 48 291 | 16 04 354 | 208 | 44 38 075 | 39 42 106 | 22 02 174 | 13 32 236 | 27 51 273 | 44 07 311 | 26 31 025 | | | | |
| 30 | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENE | VEGA | *ARCTURUS | 210 | Alpheratz | *DENE | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | | | |
| 32 | 59°23' 040 | 28°06' 092 | 47°55' 128 | 31°53' 208 | 45°50' 262 | 37°42' 293 | 16°04' 356 | 210 | 26°34' 027 | 44°45' 076 | 39°48' 108 | 22°03' 176 | 13°26' 238 | 27°45' 275 | 44°02' 313 | | | | |
| 34 | 59 27 042 | 28 12 094 | 48 00 130 | 31 50 210 | 45 44 264 | 37 36 295 | 16 03 358 | 212 | 26 37 029 | 44 51 078 | 39 54 110 | 22 03 178 | 13 21 240 | 27 39 277 | 43 58 315 | | | | |
| 36 | 59 31 044 | 28 18 096 | 48 05 132 | 31 46 212 | 45 38 266 | 37 31 297 | 16 03 000 | 214 | 26 40 031 | 44 57 080 | 40 00 112 | 22 03 180 | 13 16 242 | 27 33 279 | 43 53 316 | | | | |
| 38 | 59 36 046 | 28 25 098 | 48 09 134 | 31 43 215 | 45 32 268 | 37 25 299 | 16 03 002 | 216 | 26 43 033 | 45 03 082 | 40 06 114 | 22 03 182 | 13 10 244 | 27 27 281 | 43 49 318 | | | | |
| 40 | 59 40 048 | 28 31 100 | 48 14 136 | 31 39 217 | 45 25 270 | 37 19 301 | 16 04 004 | 218 | 26 46 035 | 45 09 084 | 40 11 116 | 22 03 184 | 13 04 246 | 27 20 283 | 43 45 320 | | | | |
| 42 | 59°45' 049 | 28°37' 102 | 48°18' 138 | 31°35' 219 | 45°19' 272 | 37°14' 303 | 16°04' 006 | 220 | 26°50' 037 | 45°16' 086 | 40°17' 118 | 22°02' 186 | 12°58' 248 | 27°14' 285 | 43°41' 322 | | | | |
| 44 | 59 50 051 | 28 43 104 | 48 22 140 | 31 31 221 | 45 13 274 | 37 09 305 | 16 05 008 | 222 | 26 54 039 | 45 22 088 | 40 22 120 | 22 01 188 | 12 53 250 | 27 08 287 | 43 37 324 | | | | |
| 46 | 59 55 053 | 28 49 106 | 48 26 142 | 31 27 223 | 45 07 276 | 37 04 306 | 16 06 010 | 224 | 26 58 041 | 45 28 090 | 40 28 122 | 22 00 190 | 12 47 252 | 27 02 289 | 43 34 326 | | | | |
| 48 | 60 00 055 | 28 55 108 | 48 30 145 | 31 23 225 | 45 00 278 | 36 59 308 | 16 07 012 | 226 | 27 02 042 | 45 34 092 | 40 33 125 | 21 59 192 | 12 41 254 | 26 56 291 | 43 30 328 | | | | |
| 50 | 60 05 057 | 29 01 110 | 48 33 147 | 31 18 227 | 44 54 280 | 36 54 310 | 16 08 014 | 228 | 27 06 044 | 45 41 094 | 40 38 127 | 21 58 194 | 12 35 256 | 26 50 293 | 43 27 330 | | | | |
| 52 | 60°10' 059 | 29°07' 112 | 48°37' 149 | 31°14' 229 | 44°48' 282 | 36°49' 312 | 16°10' 016 | 230 | 27°11' 046 | 45°47' 096 | 40°43' 129 | 21°56' 196 | 12°28' 258 | 26°45' 295 | 43°24' 332 | | | | |
| 54 | 60 16 061 | 29 13 114 | 48 40 151 | 31 09 231 | 44 42 284 | 36 45 314 | 16 12 018 | 232 | 27 16 048 | 45 53 098 | 40 48 131 | 21 54 198 | 12 22 260 | 26 39 297 | 43 21 334 | | | | |
| 56 | 60 21 063 | 29 18 116 | 48 43 153 | 31 04 233 | 44 36 286 | 36 40 316 | 16 14 019 | 234 | 27 20 050 | 45 59 100 | 40 53 133 | 21 52 200 | 12 16 262 | 26 34 299 | 43 18 336 | | | | |
| 58 | 60 27 065 | 29 24 118 | 48 45 155 | 30 59 235 | 44 30 288 | 36 36 318 | 16 16 021 | 236 | 27 25 052 | 46 06 102 | 40 57 135 | 21 50 202 | 12 10 264 | 26 28 301 | 43 16 338 | | | | |
| 60 | 60 33 067 | 29 30 120 | 48 48 157 | 30 54 237 | 44 24 290 | 36 32 320 | 16 18 023 | 238 | 27 30 054 | 46 12 104 | 41 02 137 | 21 48 204 | 12 04 266 | 26 23 303 | 43 13 339 | | | | |
| 62 | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENE | VEGA | Alpheratz | *DENE | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | | | | | |
| 64 | 16°21' 025 | 11°42' 087 | 29°35' 122 | 48°50' 159 | 30°48' 239 | 44°18' 292 | 36°28' 322 | 240 | 27°35' 056 | 46°18' 106 | 41°06' 139 | 21°45' 206 | 11°57' 268 | 26°17' 305 | 43°11' 341 | | | | |
| 66 | 16 26 027 | 11 48 089 | 29 40 124 | 48 52 161 | 30 43 241 | 44 12 294 | 36 24 324 | 242 | 27 41 058 | 46 24 109 | 41 10 141 | 21 42 208 | 11 51 270 | 26 12 307 | 43 09 343 | | | | |
| 68 | 16 32 029 | 11 55 091 | 29 45 126 | 48 54 163 | 30 37 243 | 44 07 296 | 36 21 326 | 244 | 27 46 060 | 46 30 111 | 41 14 143 | 21 39 210 | 11 45 272 | 26 07 308 | 43 08 345 | | | | |
| 70 | 16 37 031 | 12 01 093 | 29 50 128 | 48 56 166 | 30 32 245 | 44 01 298 | 36 17 328 | 246 | 27 52 062 | 46 35 113 | 41 17 145 | 21 36 212 | 11 39 274 | 26 03 310 | 43 06 347 | | | | |
| 72 | 16 43 033 | 12 07 095 | 29 55 130 | 48 57 168 | 30 26 247 | 43 56 300 | 36 14 330 | 248 | 27 57 064 | 46 41 115 | 41 21 147 | 21 32 214 | 11 32 276 | 25 58 312 | 43 05 349 | | | | |
| 74 | 16°37' 035 | 12°13' 097 | 30°00' 132 | 48°59' 170 | 30°20' 249 | 43°50' 302 | 36°11' 332 | 250 | 28°03' 066 | 46°47' 117 | 41°24' 149 | 21°29' 216 | 11°26' 278 | 25°53' 314 | 43°04' 351 | | | | |
| 76 | 16 43 037 | 12 20 099 | 30 05 134 | 49 00 172 | 30 14 251 | 43 45 304 | 36 08 334 | 252 | 28 09 068 | 46 52 119 | 41 27 151 | 21 25 218 | 11 20 280 | 25 49 316 | 43 03 353 | | | | |
| 78 | 16 49 041 | 12 26 101 | 30 09 136 | 49 00 174 | 30 08 253 | 43 40 306 | 36 05 336 | 254 | 28 15 070 | 46 58 121 | 41 30 153 | 21 21 221 | 11 14 282 | 25 45 318 | 43 02 355 | | | | |
| 80 | 16 54 043 | 12 32 103 | 30 13 138 | 49 01 176 | 30 02 255 | 43 35 308 | 36 03 337 | 256 | 28 20 072 | 47 03 123 | 41 33 156 | 21 17 223 | 11 08 284 | 25 40 320 | 43 02 357 | | | | |
| 82 | 16 59 045 | 12 38 105 | 30 17 140 | 49 01 178 | 29 56 257 | 43 30 310 | 36 00 339 | 258 | 28 26 074 | 47 08 125 | 41 35 158 | 21 12 225 | 11 01 286 | 25 37 322 | 43 01 358 | | | | |
| 84 | 16°57' 045 | 12°44' 107 | 30°21' 142 | 49°01' 180 | 29°50' 259 | 43°25' 312 | 35°58' 341 | 260 | 28°33' 076 | 47°13' 127 | 41°38' 160 | 21°08' 227 | 10°55' 288 | 25°33' 324 | 43°01' 002 | | | | |
| 86 | 17 01 047 | 12 50 109 | 30 25 144 | 49 01 183 | 29 44 261 | 43 20 314 | 35 56 343 | 262 | 28 39 078 | 47 18 129 | 41 40 162 | 21 03 229 | 10 50 290 | 25 29 326 | 43 02 002 | | | | |
| 88 | 17 06 049 | 12 56 111 | 30 29 146 | 49 01 185 | 29 37 263 | 43 16 316 | 35 55 345 | 264 | 28 45 080 | 47 23 131 | 41 42 164 | 20 58 231 | 10 44 292 | 25 26 328 | 43 02 004 | | | | |
| 90 | 17 11 051 | 13 02 113 | 30 32 148 | 49 00 187 | 29 31 265 | 43 12 317 | 35 53 347 | 266 | 28 51 082 | 47 28 133 | 41 43 166 | 20 53 233 | 10 38 294 | 25 23 330 | 43 02 006 | | | | |
| 92 | 17 16 053 | 13 08 115 | 30 35 150 | 48 59 189 | 29 25 267 | 43 07 319 | 35 52 349 | 268 | 28 57 084 | 47 32 135 | 41 45 168 | 20 48 235 | 10 32 296 | 25 20 332 | 43 03 008 | | | | |
| 94 | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENE | VEGA | *CAPELLA | Alpheratz | *DENE | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | | | | |
| 96 | 17°21' 055 | 13°13' 117 | 30°38' 153 | 29°19' 269 | 43°03' 321 | 35°51' 351 | 35 51 351 | 270 | 43°04' 010 | 29°03' 086 | 47°37' 137 | 41°46' 170 | 20°43' 237 | 60°46' 289 | 25°17' 334 | | | | |
| 98 | 17 26 057 | 13 19 119 | 30 41 155 | 48 57 193 | 29 12 271 | 43 00 323 | 35 50 353 | 272 | 43 05 012 | 29 10 088 | 47 41 139 | 41 47 172 | 20 38 239 | 60 40 291 | 25 14 336 | | | | |
| 100 | 17 31 059 | 13 24 121 | 30 44 157 | 48 55 195 | 29 06 273 | 42 56 325 | 35 49 355 | 274 | 43 07 014 | 29 16 090 | 47 45 141 | 41 48 174 | 20 32 241 | 60 35 293 | 25 12 338 | | | | |
| 102 | 17 37 061 | 13 30 123 | 30 46 159 | 48 54 197 | 29 00 275 | 42 52 327 | 35 49 357 | 276 | 43 08 016 | 29 22 092 | 47 49 144 | 41 48 176 | 20 27 243 | 60 29 295 | 25 09 340 | | | | |
| 104 | 17 42 063 | 13 35 125 | 30 48 161 | 48 52 199 | 28 54 277 | 42 49 329 | 35 48 359 | 278 | 43 10 017 | 29 29 094 | 47 52 146 | 41 48 178 | 20 21 245 | 60 23 297 | 25 07 342 | | | | |
| 106 | 17°48' 065 | 13°40' 127 | 30°50' 163 | 48°49' 202 | 28°47' 279 | 42°46' 331 | 35°48' 001 | 280 | 43°12' 019 | 29°35' 096 | 47°56' 148 | 41°48' 181 | 20°16' 247 | 60°18' 299 | 25°05' 344 | | | | |
| 108 | 17 54 067 | 13 45 129 | 30 52 165 | 48 47 204 | 28 41 281 | 42 43 333 | 35 49 002 | 282 | 43 14 021 | 29 41 098 | 47 59 150 | 41 48 183 | 20 10 249 | 60 12 300 | 25 04 346 | | | | |
| 110 | 18 00 069 | 13 50 131 | 30 53 167 | 48 44 206 | 28 35 283 | 42 40 335 | 35 49 004 | 284 | 43 17 023 | 29 47 100 | 48 02 152 | 41 48 185 | | | | | | | |

| LHA Υ | Hc Zn | Zn | Hc Zn | Zn | Hc Zn | Zn | Hc Zn | Zn | Hc Zn | Zn | Hc Zn | Zn | Hc Zn | Zn |
|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----|----------|-----|----------|-----|
| 0 | 59°40' | 013 | Dubhe | POLLUX | *CAPELLA | Alpheratz | *DENEβ | VEGA | *ARCTURUS | | | | | |
| 2 | 59 41 015 | 27 07 062 | 46 25 100 | 31 14 180 | 46 36 233 | 39 02 264 | 17 21 328 | | | | | | | |
| 4 | 59 42 017 | 27 11 066 | 46 29 102 | 31 14 182 | 46 32 235 | 38 58 266 | 17 19 330 | | | | | | | |
| 6 | 59 44 019 | 27 15 068 | 46 33 104 | 31 13 184 | 46 29 237 | 38 54 268 | 17 17 332 | | | | | | | |
| 8 | 59 45 020 | 27 18 070 | 46 37 106 | 31 13 186 | 46 25 239 | 38 50 270 | 17 15 334 | | | | | | | |
| 10 | 59°46' | 022 | 27°22' | 072 | 46°41' | 108 | 31°13' | 188 | 46°22' | 241 | 38°46' | 272 | 17°14' | 336 |
| 12 | 59 48 024 | 27 26 074 | 46 45 110 | 31 12 190 | 46 18 243 | 38 41 274 | 17 12 338 | | | | | | | |
| 14 | 59 50 026 | 27 30 076 | 46 49 112 | 31 11 192 | 46 14 245 | 38 37 276 | 17 10 340 | | | | | | | |
| 16 | 59 52 028 | 27 35 078 | 46 53 114 | 31 10 194 | 46 10 247 | 38 33 278 | 17 09 342 | | | | | | | |
| 18 | 59 54 030 | 27 39 080 | 46 57 116 | 31 09 196 | 46 06 249 | 38 29 280 | 17 08 344 | | | | | | | |
| 20 | 59°56' | 032 | 27°43' | 082 | 47°00' | 119 | 31°08' | 198 | 46°02' | 251 | 38°25' | 282 | 17°07' | 346 |
| 22 | 59 58 034 | 27 47 084 | 47 04 121 | 31 07 200 | 45 58 253 | 38 21 284 | 17 06 348 | | | | | | | |
| 24 | 60 01 036 | 27 51 086 | 47 08 123 | 31 05 202 | 45 54 255 | 38 17 286 | 17 05 350 | | | | | | | |
| 26 | 60 03 038 | 27 55 088 | 47 11 125 | 31 03 204 | 45 50 257 | 38 13 288 | 17 04 352 | | | | | | | |
| 28 | 60 06 039 | 28 00 090 | 47 14 127 | 31 02 206 | 45 46 259 | 38 09 290 | 17 04 354 | | | | | | | |
| 30 | 60°08' | 041 | POLLUX | *CAPELLA | Alpheratz | *DENEβ | VEGA | *ARCTURUS | | | | | | |
| 32 | 60 11 043 | 28 08 092 | 47 21 131 | 30 58 210 | 45 38 263 | 38 01 294 | 17 03 358 | | | | | | | |
| 34 | 60 14 045 | 28 12 094 | 47 24 133 | 30 56 212 | 45 34 265 | 37 57 296 | 17 03 000 | | | | | | | |
| 36 | 60 17 047 | 28 16 096 | 47 27 135 | 30 53 214 | 45 30 267 | 37 53 298 | 17 03 002 | | | | | | | |
| 38 | 60 20 049 | 28 20 098 | 47 30 137 | 30 51 216 | 45 25 269 | 37 50 300 | 17 03 004 | | | | | | | |
| 40 | 60°23' | 051 | 28°24' | 102 | 47°33' | 139 | 30°48' | 218 | 45°21' | 271 | 37°46' | 302 | 17°04' | 006 |
| 42 | 60 27 053 | 28 28 104 | 47 36 141 | 30 46 220 | 45 17 273 | 37 43 304 | 17 04 008 | | | | | | | |
| 44 | 60 30 055 | 28 33 106 | 47 38 143 | 30 43 222 | 45 13 275 | 37 39 306 | 17 05 010 | | | | | | | |
| 46 | 60 34 057 | 28 37 108 | 47 41 145 | 30 40 224 | 45 09 277 | 37 36 308 | 17 06 012 | | | | | | | |
| 48 | 60 37 059 | 28 41 110 | 47 43 147 | 30 37 226 | 45 05 279 | 37 33 310 | 17 07 014 | | | | | | | |
| 50 | 60°41' | 060 | 28°44' | 112 | 47°45' | 149 | 30°34' | 228 | 45°00' | 281 | 37°29' | 312 | 17°08' | 016 |
| 52 | 60 44 062 | 28 48 114 | 47 47 151 | 30 31 230 | 44 56 283 | 37 26 314 | 17 09 018 | | | | | | | |
| 54 | 60 48 064 | 28 52 116 | 47 49 153 | 30 28 232 | 44 52 285 | 37 23 316 | 17 10 020 | | | | | | | |
| 56 | 60 52 066 | 28 56 118 | 47 51 155 | 30 24 235 | 44 48 287 | 37 20 318 | 17 12 022 | | | | | | | |
| 58 | 60 56 068 | 28 59 120 | 47 53 158 | 30 21 237 | 44 44 289 | 37 18 320 | 17 13 024 | | | | | | | |
| 60 | 17°15' | 026 | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENEβ | VEGA | | | | | |
| 62 | 17 17 027 | 11 49 087 | 29 07 122 | 47 56 160 | 30 17 239 | 44 40 293 | 37 12 322 | | | | | | | |
| 64 | 17 19 029 | 11 54 091 | 29 10 126 | 47 57 164 | 30 10 243 | 44 33 295 | 37 10 324 | | | | | | | |
| 66 | 17 21 031 | 11 58 093 | 29 13 128 | 47 58 166 | 30 06 245 | 44 29 297 | 37 08 326 | | | | | | | |
| 68 | 17 23 033 | 12 02 095 | 29 16 130 | 47 59 168 | 30 02 247 | 44 25 299 | 37 06 328 | | | | | | | |
| 70 | 17°26' | 035 | 12°06' | 097 | 29°20' | 132 | 48°00' | 170 | 29°58' | 249 | 44°20' | 301 | 37°03' | 331 |
| 72 | 17 28 037 | 12 10 099 | 29 23 135 | 48 00 172 | 29 55 251 | 44 18 303 | 37 02 333 | | | | | | | |
| 74 | 17 31 039 | 12 14 101 | 29 26 137 | 48 01 174 | 29 51 253 | 44 15 305 | 37 00 335 | | | | | | | |
| 76 | 17 33 041 | 12 18 103 | 29 28 139 | 48 01 176 | 29 47 255 | 44 11 307 | 36 58 337 | | | | | | | |
| 78 | 17 36 043 | 12 23 105 | 29 31 141 | 48 01 178 | 29 42 257 | 44 08 309 | 36 56 339 | | | | | | | |
| 80 | 17°39' | 045 | 12°27' | 107 | 29°34' | 143 | 48°01' | 180 | 29°38' | 259 | 44°05' | 311 | 36°55' | 341 |
| 82 | 17 42 047 | 12 31 109 | 29 36 145 | 48 01 182 | 29 34 261 | 44 02 313 | 36 54 343 | | | | | | | |
| 84 | 17 45 049 | 12 34 111 | 29 39 147 | 48 01 185 | 29 30 263 | 43 59 315 | 36 53 345 | | | | | | | |
| 86 | 17 48 051 | 12 38 113 | 29 41 149 | 48 01 187 | 29 26 265 | 43 56 317 | 36 52 347 | | | | | | | |
| 88 | 17 52 053 | 12 42 115 | 29 43 151 | 48 00 189 | 29 22 267 | 43 53 319 | 36 51 349 | | | | | | | |
| 90 | 17°55' | 055 | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENEβ | VEGA | | | | | |
| 92 | 17 59 057 | 12 50 119 | 29 47 155 | 47 58 193 | 29 13 271 | 43 48 323 | 36 49 353 | | | | | | | |
| 94 | 18 02 059 | 12 53 121 | 29 48 157 | 47 57 195 | 29 09 273 | 43 45 325 | 36 49 355 | | | | | | | |
| 96 | 18 06 061 | 12 57 123 | 29 50 159 | 47 56 197 | 29 05 275 | 43 43 327 | 36 49 357 | | | | | | | |
| 98 | 18 10 063 | 13 00 125 | 29 51 161 | 47 55 199 | 29 01 277 | 43 40 329 | 36 48 359 | | | | | | | |
| 100 | 18°13' | 065 | 13°04' | 127 | 29°53' | 163 | 47°54' | 201 | 28°57' | 279 | 43°38' | 330 | 36°48' | 001 |
| 102 | 18 17 067 | 13 07 129 | 29 54 165 | 47 52 203 | 28 53 281 | 43 36 332 | 36 48 002 | | | | | | | |
| 104 | 18 21 069 | 13 10 131 | 29 55 167 | 47 50 205 | 28 49 283 | 43 34 334 | 36 49 004 | | | | | | | |
| 106 | 18 25 071 | 13 13 133 | 29 56 169 | 47 48 207 | 28 44 285 | 43 33 336 | 36 49 006 | | | | | | | |
| 108 | 18 29 073 | 13 16 135 | 29 57 171 | 47 46 209 | 28 40 287 | 43 31 338 | 36 50 008 | | | | | | | |
| 110 | 18°33' | 075 | 13°10' | 137 | 29°57' | 173 | 47°44' | 211 | 28°36' | 289 | 43°30' | 340 | 36°50' | 010 |
| 112 | 18 37 077 | 13 22 139 | 29 58 175 | 47 42 214 | 28 32 291 | 43 28 342 | 36 51 012 | | | | | | | |
| 114 | 18 41 079 | 13 25 141 | 29 58 177 | 47 40 216 | 28 29 293 | 43 27 344 | 36 52 014 | | | | | | | |
| 116 | 18 45 081 | 13 27 143 | 29 58 179 | 47 37 218 | 28 25 295 | 43 26 346 | 36 53 016 | | | | | | | |
| 118 | 18 49 083 | 13 30 145 | 29 58 181 | 47 35 220 | 28 21 297 | 43 25 348 | 36 54 018 | | | | | | | |
| 120 | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | *DENEβ | | | | | | | |
| 122 | 36 57 020 | 18 54 085 | 13 32 147 | 29 58 183 | 47 32 222 | 28 17 299 | 43 24 350 | | | | | | | |
| 124 | 36 59 022 | 19 02 089 | 13 34 149 | 29 57 185 | 47 29 224 | 28 14 301 | 43 23 352 | | | | | | | |
| 126 | 37 01 024 | 19 06 091 | 13 36 151 | 29 56 187 | 47 26 226 | 28 10 303 | 43 23 354 | | | | | | | |
| 128 | 37 03 028 | 19 10 093 | 13 40 155 | 29 56 192 | 47 20 230 | 28 03 306 | 43 22 358 | | | | | | | |
| 130 | 37°05' | 030 | 19°15' | 095 | 13°42' | 157 | 29°55' | 194 | 47°17' | 232 | 28°03' | 308 | 43°22' | 359 |
| 132 | 37 07 032 | 19 19 097 | 13 43 159 | 29 54 196 | 47 13 234 | 27 57 310 | 43 22 001 | | | | | | | |
| 134 | 37 09 034 | 19 23 099 | 13 45 161 | 29 52 198 | 47 10 236 | 27 53 312 | 43 22 003 | | | | | | | |
| 136 | 37 11 036 | 19 27 101 | 13 46 163 | 29 51 200 | 47 06 238 | 27 50 314 | 43 23 005 | | | | | | | |
| 138 | 37 14 038 | 19 31 103 | 13 47 165 | 29 50 202 | 47 03 240 | 27 47 316 | 43 23 007 | | | | | | | |
| 140 | 37°16' | 040 | 19°35' | 105 | 13°48' | 167 | 29°48' | 204 | 46°50' | 242 | 27°45' | 318 | 43°24' | 009 |
| 142 | 37 19 042 | 19 39 107 | 13 49 169 | 29 46 206 | 46 55 244 | 27 42 320 | 43 24 011 | | | | | | | |
| 144 | 37 22 044 | 19 43 109 | 13 49 172 | 29 44 208 | 46 51 246 | 27 39 322 | 43 25 013 | | | | | | | |
| 146 | 37 25 046 | 19 47 111 | 13 50 174 | 29 42 210 | 46 48 248 | 27 37 324 | 43 26 015 | | | | | | | |
| 148 | 37 28 047 | 19 51 113 | 13 50 176 | 29 40 212 | 46 44 250 | 27 34 326 | 43 27 017 | | | | | | | |
| 150 | *DENEβ | VEGA | *ARCTURUS | REGULUS | POLLUX | *CAPELLA | Alpheratz | | | | | | | |
| 152 | 43 30 021 | 37 34 051 | 19 58 117 | 13 51 180 | 29 36 216 | 46 36 254 | 27 30 330 | | | | | | | |
| 154 | 43 32 023 | 37 38 053 | 20 02 119 | 13 51 182 | 29 33 218 | 46 32 256 | 27 28 332 | | | | | | | |
| 156 | 43 33 025 | 37 41 055 | 20 06 121 | 13 50 184 | 29 30 220 | 46 28 258 | 27 26 334 | | | | | | | |
| 158 | 43 35 027 | 37 45 057 | 20 09 123 | 13 50 186 | | | | | | | | | | |

| LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | LHA | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | Hc | Zn | | | | | | |
|-----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|------------|----|-----------|------------|------------|------------|------------|------------|-----------|------------|---------|------------|----------|--|-----------|--|-----------|
| 0 | | | | | | | | | | | | | 180 | | | | | | | | | | | | | | | | |
| 2 | Dubhe | | POLLUX | | *CAPELLA | | Alpheratz | | *DENEK | | VEGA | | *ARCTURUS | | *DENEK | | VEGA | | *ARCTURUS | | REGULUS | | POLLUX | | *CAPELLA | | Alpheratz | | |
| 4 | 60°39' 013 | | 27°31' 063 | | 46°12' 099 | | 30°14' 178 | | 46°01' 230 | | 38°58' 261 | | 18°13' 326 | | 180 | 44°43' 049 | 38°38' 080 | 19°53' 146 | 12°44' 208 | 28°25' 244 | | 45°50' 281 | | 28°14' 358 | | | | | |
| 6 | 60°40' 017 | | 27°35' 067 | | 46°16' 103 | | 30°14' 182 | | 45°58' 234 | | 38°54' 265 | | 18°11' 330 | | 182 | 44°44' 051 | 38°40' 082 | 19°54' 148 | 12°43' 210 | 28°23' 246 | | 45°48' 283 | | 28°14' 002 | | | | | |
| 8 | 60°40' 019 | | 27°36' 069 | | 46°18' 105 | | 30°14' 184 | | 45°56' 236 | | 38°52' 267 | | 18°10' 332 | | 186 | 44°48' 055 | 38°44' 086 | 19°56' 152 | 12°41' 214 | 28°19' 250 | | 45°44' 287 | | 28°14' 004 | | | | | |
| 10 | 60°42' 023 | | 27°40' 073 | | 46°22' 109 | | 30°13' 188 | | 45°52' 240 | | 38°47' 271 | | 18°08' 336 | | 188 | 44°49' 057 | 38°46' 088 | 19°57' 154 | 12°39' 216 | 28°17' 252 | | 45°42' 289 | | 28°14' 006 | | | | | |
| 12 | 60°43' 025 | | 27°42' 075 | | 46°24' 111 | | 30°13' 190 | | 45°50' 242 | | 38°45' 273 | | 18°08' 338 | | 190 | 44°51' 059 | 38°49' 090 | 19°58' 156 | 12°38' 218 | 28°15' 254 | | 45°40' 291 | | 28°14' 008 | | | | | |
| 14 | 60°44' 027 | | 27°44' 077 | | 46°26' 113 | | 30°12' 192 | | 45°48' 244 | | 38°43' 275 | | 18°07' 340 | | 192 | 44°53' 061 | 38°51' 092 | 19°59' 158 | 12°37' 220 | 28°13' 256 | | 45°38' 293 | | 28°15' 009 | | | | | |
| 16 | 60°45' 029 | | 27°47' 079 | | 46°28' 115 | | 30°12' 194 | | 45°47' 246 | | 38°41' 277 | | 18°06' 342 | | 194 | 44°55' 063 | 38°53' 094 | 19°59' 160 | 12°36' 222 | 28°11' 258 | | 45°36' 295 | | 28°15' 011 | | | | | |
| 18 | 60°46' 031 | | 27°49' 081 | | 46°29' 117 | | 30°11' 196 | | 45°45' 248 | | 38°39' 279 | | 18°05' 344 | | 196 | 44°57' 065 | 38°55' 096 | 20°00' 162 | 12°34' 224 | 28°09' 260 | | 45°34' 297 | | 28°15' 013 | | | | | |
| 20 | 60°47' 033 | | 27°51' 083 | | 46°31' 119 | | 30°11' 198 | | 45°43' 250 | | 38°37' 281 | | 18°05' 346 | | 198 | 44°59' 067 | 38°57' 098 | 20°01' 164 | 12°33' 226 | 28°07' 262 | | 45°32' 299 | | 28°16' 015 | | | | | |
| 22 | 60°48' 035 | | 27°53' 085 | | 46°33' 121 | | 30°10' 200 | | 45°41' 252 | | 38°35' 283 | | 18°04' 348 | | 200 | 45°01' 068 | 38°59' 100 | 20°01' 166 | 12°31' 228 | 28°05' 264 | | 45°31' 301 | | 28°16' 017 | | | | | |
| 24 | 60°49' 037 | | 27°55' 087 | | 46°35' 123 | | 30°09' 202 | | 45°39' 254 | | 38°33' 285 | | 18°04' 350 | | 202 | 45°05' 072 | 39°03' 104 | 20°02' 170 | 12°28' 232 | 28°01' 268 | | 45°29' 303 | | 28°17' 019 | | | | | |
| 26 | 60°50' 039 | | 27°57' 089 | | 46°37' 126 | | 30°09' 204 | | 45°37' 256 | | 38°31' 287 | | 18°04' 352 | | 204 | 45°07' 074 | 39°05' 106 | 20°02' 172 | 12°26' 234 | 27°58' 270 | | 45°25' 307 | | 28°18' 021 | | | | | |
| 28 | 60°52' 040 | | 27°59' 091 | | 46°38' 128 | | 30°08' 206 | | 45°35' 258 | | 38°29' 289 | | 18°03' 354 | | 206 | 45°09' 076 | 39°07' 108 | 20°03' 174 | 12°25' 236 | 27°56' 272 | | 45°24' 309 | | 28°20' 025 | | | | | |
| 30 | Dubhe | | POLLUX | | *CAPELLA | | Alpheratz | | *DENEK | | VEGA | | *ARCTURUS | | Alpheratz | | *DENEK | | VEGA | | *ARCTURUS | | REGULUS | | POLLUX | | *CAPELLA | | Alpheratz |
| 32 | 60°53' 042 | | 28°01' 093 | | 46°40' 130 | | 30°07' 208 | | 45°33' 260 | | 38°27' 291 | | 18°03' 356 | | 210 | 44°20' 027 | 45°11' 078 | 39°09' 110 | 20°03' 176 | 12°23' 238 | | 45°24' 311 | | 28°21' 311 | | | | | |
| 34 | 60°55' 046 | | 28°03' 095 | | 46°42' 132 | | 30°06' 210 | | 45°31' 262 | | 38°25' 293 | | 18°03' 358 | | 212 | 44°21' 029 | 45°13' 080 | 39°11' 112 | 20°03' 178 | 12°21' 240 | | 45°22' 313 | | 28°21' 313 | | | | | |
| 36 | 60°56' 048 | | 28°05' 097 | | 46°44' 134 | | 30°05' 212 | | 45°28' 264 | | 38°23' 295 | | 18°03' 000 | | 214 | 44°23' 031 | 45°15' 082 | 39°13' 114 | 20°03' 180 | 12°19' 242 | | 45°20' 315 | | 28°21' 315 | | | | | |
| 38 | 60°58' 050 | | 28°07' 099 | | 46°46' 136 | | 30°04' 214 | | 45°26' 266 | | 38°21' 297 | | 18°03' 002 | | 216 | 44°24' 033 | 45°17' 084 | 39°15' 116 | 20°03' 182 | 12°17' 244 | | 45°18' 317 | | 28°21' 317 | | | | | |
| 40 | 61°01' 052 | | 28°11' 103 | | 46°47' 140 | | 30°03' 216 | | 45°24' 268 | | 38°19' 299 | | 18°03' 004 | | 218 | 44°25' 035 | 45°19' 086 | 39°17' 118 | 20°03' 184 | 12°15' 246 | | 45°16' 319 | | 28°21' 319 | | | | | |
| 42 | 61°02' 054 | | 28°13' 105 | | 46°49' 142 | | 30°02' 218 | | 45°22' 270 | | 38°17' 301 | | 18°03' 006 | | 220 | 44°26' 037 | 45°21' 088 | 39°19' 120 | 20°03' 186 | 12°14' 248 | | 45°14' 321 | | 28°21' 321 | | | | | |
| 44 | 61°04' 056 | | 28°15' 107 | | 46°51' 144 | | 30°00' 220 | | 45°20' 272 | | 38°15' 303 | | 18°04' 008 | | 222 | 44°27' 039 | 45°23' 090 | 39°20' 122 | 20°03' 188 | 12°12' 250 | | 45°12' 323 | | 28°21' 323 | | | | | |
| 46 | 61°06' 058 | | 28°17' 109 | | 46°53' 146 | | 29°58' 222 | | 45°18' 274 | | 38°14' 305 | | 18°04' 010 | | 224 | 44°28' 041 | 45°25' 092 | 39°22' 124 | 20°02' 190 | 12°10' 252 | | 45°10' 325 | | 28°21' 325 | | | | | |
| 48 | 61°08' 060 | | 28°19' 111 | | 46°55' 148 | | 29°57' 224 | | 45°16' 276 | | 38°12' 307 | | 18°04' 012 | | 226 | 44°29' 043 | 45°27' 094 | 39°24' 126 | 20°02' 192 | 12°08' 254 | | 45°08' 327 | | 28°21' 327 | | | | | |
| 50 | 61°10' 062 | | 28°21' 113 | | 46°57' 150 | | 29°56' 226 | | 45°14' 278 | | 38°11' 309 | | 18°05' 014 | | 228 | 44°30' 045 | 45°29' 096 | 39°25' 128 | 20°01' 194 | 12°06' 256 | | 45°06' 329 | | 28°21' 329 | | | | | |
| 52 | 61°11' 064 | | 28°23' 115 | | 46°59' 152 | | 29°55' 228 | | 45°12' 280 | | 38°09' 311 | | 18°05' 016 | | 230 | 44°31' 047 | 45°31' 098 | 39°27' 130 | 20°01' 196 | 12°04' 258 | | 45°04' 331 | | 28°21' 331 | | | | | |
| 54 | 61°13' 066 | | 28°25' 117 | | 47°01' 154 | | 29°54' 230 | | 45°10' 282 | | 38°08' 313 | | 18°06' 018 | | 232 | 44°32' 049 | 45°33' 100 | 39°29' 132 | 20°00' 198 | 12°02' 260 | | 45°02' 333 | | 28°21' 333 | | | | | |
| 56 | 61°15' 068 | | 28°27' 119 | | 47°03' 156 | | 29°53' 232 | | 45°08' 284 | | 38°06' 315 | | 18°07' 020 | | 234 | 44°33' 051 | 45°35' 102 | 39°30' 134 | 20°00' 200 | 11°59' 262 | | 45°00' 335 | | 28°21' 335 | | | | | |
| 58 | 61°17' 070 | | 28°29' 121 | | 47°05' 158 | | 29°52' 234 | | 45°06' 286 | | 38°05' 317 | | 18°07' 022 | | 236 | 44°34' 053 | 45°37' 104 | 39°32' 136 | 19°59' 202 | 11°57' 264 | | 44°58' 337 | | 28°21' 337 | | | | | |
| 60 | *ARCTURUS | | REGULUS | | POLLUX | | *CAPELLA | | Alpheratz | | *DENEK | | VEGA | | *ARCTURUS | | *DENEK | | VEGA | | *ARCTURUS | | REGULUS | | POLLUX | | *CAPELLA | | Alpheratz |
| 62 | 18°09' 026 | | 11°48' 087 | | 28°31' 123 | | 46°58' 162 | | 29°46' 162 | | 44°50' 292 | | 38°08' 323 | | 240 | 44°34' 057 | 45°44' 110 | 39°36' 142 | 19°56' 208 | 11°51' 270 | | 45°04' 343 | | 28°21' 343 | | | | | |
| 64 | 18°11' 030 | | 11°52' 091 | | 28°33' 125 | | 46°59' 164 | | 29°45' 164 | | 44°48' 294 | | 37°59' 325 | | 242 | 44°35' 059 | 45°46' 112 | 39°37' 144 | 19°55' 210 | 11°49' 272 | | 45°02' 345 | | 28°21' 345 | | | | | |
| 66 | 18°12' 032 | | 11°54' 093 | | 28°35' 127 | | 46°59' 166 | | 29°44' 166 | | 44°46' 296 | | 37°58' 327 | | 244 | 44°36' 061 | 45°47' 114 | 39°38' 146 | 19°54' 212 | 11°47' 274 | | 45°00' 347 | | 28°21' 347 | | | | | |
| 68 | 18°13' 034 | | 11°56' 095 | | 28°37' 131 | | 47°00' 168 | | 29°43' 168 | | 44°44' 298 | | 37°57' 329 | | 246 | 44°37' 063 | 45°48' 116 | 39°39' 148 | 19°53' 214 | 11°45' 276 | | 44°58' 349 | | 28°21' 349 | | | | | |
| 70 | 18°14' 036 | | 11°59' 097 | | 28°39' 133 | | 47°01' 170 | | 29°42' 170 | | 44°42' 300 | | 37°56' 331 | | 248 | 44°38' 065 | 45°49' 118 | 39°40' 150 | 19°52' 216 | 11°43' 278 | | 44°56' 351 | | 28°21' 351 | | | | | |
| 72 | 18°16' 038 | | 12°01' 099 | | 28°41' 135 | | 47°01' 172 | | 29°41' 172 | | 44°40' 302 | | 37°55' 333 | | 250 | 44°39' 067 | 45°50' 120 | 39°41' 152 | 19°51' 218 | 11°41' 280 | | 44°54' 353 | | 28°21' 353 | | | | | |
| 74 | 18°17' 040 | | 12°03' 101 | | 28°43' 137 | | 47°01' 174 | | 29°40' 174 | | 44°38' 304 | | 37°54' 335 | | 252 | 44°40' 069 | 45°51' 122 | 39°42' 154 | 19°50' 220 | 11°39' 282 | | 44°52' 355 | | 28°21' 355 | | | | | |
| 76 | 18°18' 042 | | 12°05' 103 | | 28°45' 139 | | 47°01' 176 | | 29°39' 176 | | 44°37' 306 | | 37°53' 337 | | 254 | 44°41' 071 | 45°52' 124 | 39°43' 156 | 19°49' 222 | 11°37' 284 | | 44°50' 357 | | 28°21' 357 | | | | | |
| 78 | 18°20' 044 | | 12°07' 105 | | 28°47' 141 | | 47°01' 178 | | 29°38' 178 | | 44°35' 308 | | 37°52' 339 | | 256 | 44°42' 073 | 45°53' 126 | 39°44' 158 | 19°48' 224 | 11°35' 286 | | 44°48' 359 | | 28°21' 359 | | | | | |
| 80 | 18°21' 046 | | 12°09' 107 | | 28°49' 143 | | 47°01' 180 | | 29°37' 180 | | 44°34' 310 | | 37°51' 341 | | 258 | 44°43' 075 | 45°54' 128 | 39°45' 160 | 19°47' | | | | | | | | | | |