

FOR DETERMINING THE LATITUDE FROM A SEXTANT ALTITUDE

| LHA Aries | Q | LHA Aries | Q | LHA Aries | Q | LHA Aries | Q | LHA Aries | Q | LHA Aries | Q | LHA Aries | Q |
|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|--------------|-----|
| 359 01 | -31 | 87 17 | -28 | 123 10 | - 5 | 155 56 | +18 | 209 49 | +41 | 284 52 | +18 | 317 47 | - 5 |
| 1 06 | -32 | 89 10 | -27 | 124 34 | - 4 | 157 29 | +19 | 232 32 | +40 | 286 25 | +17 | 319 11 | - 6 |
| 3 18 | -33 | 90 59 | -26 | 125 58 | - 3 | 159 03 | +20 | 238 15 | +39 | 287 56 | +16 | 320 35 | - 7 |
| 5 35 | -34 | 92 46 | -25 | 127 21 | - 2 | 160 39 | +21 | 242 31 | +38 | 289 27 | +15 | 321 59 | - 8 |
| 8 01 | -35 | 94 30 | -24 | 128 44 | - 1 | 162 16 | +22 | 246 05 | +37 | 290 56 | +14 | 323 24 | - 9 |
| 10 38 | -36 | 96 12 | -23 | 130 08 | 0 | 163 54 | +23 | 249 14 | +36 | 292 25 | +13 | 324 49 | -10 |
| 13 27 | -37 | 97 52 | -22 | 131 32 | + 1 | 165 35 | +24 | 252 05 | +35 | 293 53 | +12 | 326 15 | -11 |
| 16 33 | -38 | 99 30 | -21 | 132 55 | + 2 | 167 17 | +25 | 254 42 | +34 | 295 20 | +11 | 327 41 | -12 |
| 20 05 | -39 | 101 07 | -20 | 134 19 | + 3 | 169 02 | +26 | 257 10 | +33 | 296 46 | +10 | 329 08 | -13 |
| 24 18 | -40 | 102 41 | -19 | 135 42 | + 4 | 170 50 | +27 | 259 29 | +32 | 298 12 | + 9 | 330 35 | -14 |
| 29 57 | -41 | 104 15 | -18 | 137 06 | + 5 | 172 40 | +28 | 261 41 | +31 | 299 38 | + 8 | 332 04 | -15 |
| 52 24 | -40 | 105 47 | -17 | 138 30 | + 6 | 174 34 | +29 | 263 48 | +30 | 301 03 | + 7 | 333 33 | -16 |
| 58 03 | -39 | 107 18 | -16 | 139 54 | + 7 | 176 32 | +30 | 265 49 | +29 | 302 27 | + 6 | 335 03 | -17 |
| 62 16 | -38 | 108 48 | -15 | 141 18 | + 8 | 178 33 | +31 | 267 47 | +28 | 303 51 | + 5 | 336 34 | -18 |
| 65 48 | -37 | 110 17 | -14 | 142 43 | + 9 | 180 40 | +32 | 269 41 | +27 | 305 15 | + 4 | 338 06 | -19 |
| 68 54 | -36 | 111 46 | -13 | 144 09 | +10 | 182 52 | +33 | 271 31 | +26 | 306 39 | + 3 | 339 40 | -20 |
| 71 43 | -35 | 113 13 | -12 | 145 35 | +11 | 185 11 | +34 | 273 19 | +25 | 308 02 | + 2 | 341 14 | -21 |
| 74 20 | -34 | 114 40 | -11 | 147 01 | +12 | 187 39 | +35 | 275 04 | +24 | 309 26 | + 1 | 342 51 | -22 |
| 76 46 | -33 | 116 06 | -10 | 148 28 | +13 | 190 16 | +36 | 276 46 | +23 | 310 49 | + 0 | 344 29 | -23 |
| 79 03 | -32 | 117 32 | - 9 | 149 56 | +14 | 193 07 | +37 | 278 27 | +22 | 312 13 | - 1 | 346 09 | -24 |
| 81 15 | -31 | 118 57 | - 8 | 151 25 | +15 | 196 16 | +38 | 280 05 | +21 | 313 37 | - 2 | 347 51 | -25 |
| 83 20 | -30 | 120 22 | - 7 | 152 54 | +16 | 199 50 | +39 | 281 42 | +20 | 315 00 | - 3 | 349 35 | -26 |
| 85 21 | -29 | 121 46 | - 6 | 154 25 | +17 | 204 06 | +40 | 283 18 | +19 | 316 23 | - 4 | 351 22 | -27 |
| 87 17 | -29 | 123 10 | - 6 | 155 56 | +17 | 209 49 | +40 | 284 52 | +19 | 317 47 | - 4 | 353 11 | -27 |

In critical cases, ascend

Q, which does not include refraction, is to be applied to the corrected sextant altitude of Polaris.

Polaris: Mag. 2.1, SHA 318° 49', Dec N89° 18'7

AZIMUTH OF POLARIS, 2010

| LHA Aries | Latitude | | | | | | | LHA Aries | Latitude | | | | | | |
|--------------|----------|-------|-------|-------|-------|-------|-------|--------------|----------|-------|-------|-------|-------|-------|-------|
| | 0° | 30° | 50° | 55° | 60° | 65° | 70° | | 0° | 30° | 50° | 55° | 60° | 65° | 70° |
| 0 | 0.5 | 0.5 | 0.7 | 0.8 | 0.9 | 1.1 | 1.4 | 180 | 359.5 | 359.5 | 359.3 | 359.2 | 359.1 | 358.9 | 358.7 |
| 10 | 0.4 | 0.4 | 0.6 | 0.6 | 0.7 | 0.9 | 1.1 | 190 | 359.6 | 359.6 | 359.5 | 359.4 | 359.3 | 359.2 | 359.0 |
| 20 | 0.2 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 | 0.7 | 200 | 359.8 | 359.7 | 359.6 | 359.6 | 359.5 | 359.4 | 359.3 |
| 30 | 0.1 | 0.2 | 0.2 | 0.2 | 0.3 | 0.3 | 0.4 | 210 | 359.9 | 359.8 | 359.8 | 359.8 | 359.7 | 359.7 | 359.6 |
| 40 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 220 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 50 | 359.9 | 359.9 | 359.8 | 359.8 | 359.8 | 359.7 | 359.7 | 230 | 0.1 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.3 |
| 60 | 359.8 | 359.7 | 359.6 | 359.6 | 359.5 | 359.5 | 359.3 | 240 | 0.2 | 0.3 | 0.3 | 0.4 | 0.4 | 0.5 | 0.6 |
| 70 | 359.7 | 359.6 | 359.5 | 359.4 | 359.3 | 359.2 | 359.0 | 250 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 80 | 359.6 | 359.5 | 359.3 | 359.2 | 359.1 | 359.0 | 358.7 | 260 | 0.4 | 0.5 | 0.7 | 0.7 | 0.8 | 1.0 | 1.2 |
| 90 | 359.5 | 359.4 | 359.2 | 359.1 | 358.9 | 358.8 | 358.5 | 270 | 0.5 | 0.6 | 0.8 | 0.9 | 1.0 | 1.2 | 1.5 |
| 100 | 359.4 | 359.3 | 359.1 | 359.0 | 358.8 | 358.6 | 358.2 | 280 | 0.6 | 0.7 | 0.9 | 1.0 | 1.2 | 1.4 | 1.7 |
| 110 | 359.4 | 359.3 | 359.0 | 358.9 | 358.7 | 358.5 | 358.1 | 290 | 0.6 | 0.7 | 1.0 | 1.1 | 1.3 | 1.5 | 1.9 |
| 120 | 359.3 | 359.2 | 358.9 | 358.8 | 358.6 | 358.4 | 358.0 | 300 | 0.7 | 0.8 | 1.0 | 1.2 | 1.3 | 1.6 | 2.0 |
| 130 | 359.3 | 359.2 | 358.9 | 358.8 | 358.6 | 358.4 | 358.0 | 310 | 0.7 | 0.8 | 1.1 | 1.2 | 1.4 | 1.6 | 2.0 |
| 140 | 359.3 | 359.2 | 358.9 | 358.8 | 358.6 | 358.4 | 358.0 | 320 | 0.7 | 0.8 | 1.1 | 1.2 | 1.4 | 1.6 | 2.0 |
| 150 | 359.3 | 359.2 | 359.0 | 358.9 | 358.7 | 358.5 | 358.1 | 330 | 0.7 | 0.8 | 1.0 | 1.1 | 1.3 | 1.6 | 1.9 |
| 160 | 359.4 | 359.3 | 359.1 | 359.0 | 358.8 | 358.6 | 358.3 | 340 | 0.6 | 0.7 | 0.9 | 1.1 | 1.2 | 1.4 | 1.8 |
| 170 | 359.5 | 359.4 | 359.2 | 359.1 | 358.9 | 358.8 | 358.5 | 350 | 0.5 | 0.6 | 0.8 | 0.9 | 1.1 | 1.3 | 1.6 |
| 180 | 359.5 | 359.5 | 359.3 | 359.2 | 359.1 | 358.9 | 358.7 | 360 | 0.5 | 0.5 | 0.7 | 0.8 | 0.9 | 1.1 | 1.4 |

When Cassiopeia is left (right), Polaris is west (east).