

## Sun

Nong Bua Lam Phu  
 Location: E102°16'58.8", N17°09'50.4", 0m  
 (Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone) |     |          | Begin<br>Nautical<br>Twilight | Rise  | Az. | Transit Alt. | Set       | Az. | End<br>Nautical<br>Twilight |
|----------------|-----|----------|-------------------------------|-------|-----|--------------|-----------|-----|-----------------------------|
|                |     |          | h m                           | h m   | °   | h m °        | h m °     |     | h m                         |
| 2024           | Jan | 01 (Mon) | 05:50                         | 06:40 | 114 | 12:14 51S    | 17:48 246 |     | 18:38                       |
| 2024           | Jan | 02 (Tue) | 05:50                         | 06:41 | 114 | 12:15 51S    | 17:48 246 |     | 18:39                       |
| 2024           | Jan | 03 (Wed) | 05:51                         | 06:41 | 114 | 12:15 51S    | 17:49 246 |     | 18:39                       |
| 2024           | Jan | 04 (Thu) | 05:51                         | 06:41 | 114 | 12:15 51S    | 17:50 246 |     | 18:40                       |
| 2024           | Jan | 05 (Fri) | 05:51                         | 06:42 | 114 | 12:16 51S    | 17:50 247 |     | 18:41                       |
| 2024           | Jan | 06 (Sat) | 05:52                         | 06:42 | 113 | 12:16 51S    | 17:51 247 |     | 18:41                       |
| 2024           | Jan | 07 (Sun) | 05:52                         | 06:42 | 113 | 12:17 51S    | 17:51 247 |     | 18:42                       |
| 2024           | Jan | 08 (Mon) | 05:52                         | 06:42 | 113 | 12:17 51S    | 17:52 247 |     | 18:42                       |
| 2024           | Jan | 09 (Tue) | 05:53                         | 06:43 | 113 | 12:18 51S    | 17:53 247 |     | 18:43                       |
| 2024           | Jan | 10 (Wed) | 05:53                         | 06:43 | 113 | 12:18 52S    | 17:53 247 |     | 18:43                       |
| 2024           | Jan | 11 (Thu) | 05:53                         | 06:43 | 113 | 12:18 52S    | 17:54 247 |     | 18:44                       |
| 2024           | Jan | 12 (Fri) | 05:53                         | 06:43 | 113 | 12:19 52S    | 17:55 248 |     | 18:45                       |
| 2024           | Jan | 13 (Sat) | 05:54                         | 06:43 | 112 | 12:19 52S    | 17:55 248 |     | 18:45                       |
| 2024           | Jan | 14 (Sun) | 05:54                         | 06:44 | 112 | 12:20 52S    | 17:56 248 |     | 18:46                       |
| 2024           | Jan | 15 (Mon) | 05:54                         | 06:44 | 112 | 12:20 52S    | 17:56 248 |     | 18:46                       |
| 2024           | Jan | 16 (Tue) | 05:54                         | 06:44 | 112 | 12:20 53S    | 17:57 248 |     | 18:47                       |
| 2024           | Jan | 17 (Wed) | 05:54                         | 06:44 | 112 | 12:21 53S    | 17:58 248 |     | 18:47                       |
| 2024           | Jan | 18 (Thu) | 05:54                         | 06:44 | 111 | 12:21 53S    | 17:58 249 |     | 18:48                       |
| 2024           | Jan | 19 (Fri) | 05:54                         | 06:44 | 111 | 12:21 53S    | 17:59 249 |     | 18:48                       |
| 2024           | Jan | 20 (Sat) | 05:55                         | 06:44 | 111 | 12:22 53S    | 17:59 249 |     | 18:49                       |
| 2024           | Jan | 21 (Sun) | 05:55                         | 06:44 | 111 | 12:22 54S    | 18:00 249 |     | 18:49                       |
| 2024           | Jan | 22 (Mon) | 05:55                         | 06:44 | 111 | 12:22 54S    | 18:01 250 |     | 18:50                       |
| 2024           | Jan | 23 (Tue) | 05:55                         | 06:44 | 110 | 12:22 54S    | 18:01 250 |     | 18:50                       |
| 2024           | Jan | 24 (Wed) | 05:55                         | 06:44 | 110 | 12:23 54S    | 18:02 250 |     | 18:51                       |
| 2024           | Jan | 25 (Thu) | 05:55                         | 06:44 | 110 | 12:23 54S    | 18:02 250 |     | 18:51                       |
| 2024           | Jan | 26 (Fri) | 05:55                         | 06:44 | 110 | 12:23 55S    | 18:03 251 |     | 18:52                       |
| 2024           | Jan | 27 (Sat) | 05:55                         | 06:44 | 109 | 12:23 55S    | 18:03 251 |     | 18:52                       |
| 2024           | Jan | 28 (Sun) | 05:55                         | 06:43 | 109 | 12:24 55S    | 18:04 251 |     | 18:53                       |
| 2024           | Jan | 29 (Mon) | 05:54                         | 06:43 | 109 | 12:24 55S    | 18:05 251 |     | 18:53                       |
| 2024           | Jan | 30 (Tue) | 05:54                         | 06:43 | 108 | 12:24 56S    | 18:05 252 |     | 18:54                       |
| 2024           | Jan | 31 (Wed) | 05:54                         | 06:43 | 108 | 12:24 56S    | 18:06 252 |     | 18:54                       |
| 2024           | Feb | 01 (Thu) | 05:54                         | 06:43 | 108 | 12:24 56S    | 18:06 252 |     | 18:55                       |
| 2024           | Feb | 02 (Fri) | 05:54                         | 06:42 | 108 | 12:24 57S    | 18:07 253 |     | 18:55                       |
| 2024           | Feb | 03 (Sat) | 05:54                         | 06:42 | 107 | 12:25 57S    | 18:07 253 |     | 18:56                       |
| 2024           | Feb | 04 (Sun) | 05:53                         | 06:42 | 107 | 12:25 57S    | 18:08 253 |     | 18:56                       |
| 2024           | Feb | 05 (Mon) | 05:53                         | 06:42 | 107 | 12:25 57S    | 18:08 253 |     | 18:56                       |
| 2024           | Feb | 06 (Tue) | 05:53                         | 06:41 | 106 | 12:25 58S    | 18:09 254 |     | 18:57                       |
| 2024           | Feb | 07 (Wed) | 05:53                         | 06:41 | 106 | 12:25 58S    | 18:09 254 |     | 18:57                       |
| 2024           | Feb | 08 (Thu) | 05:52                         | 06:41 | 106 | 12:25 58S    | 18:10 254 |     | 18:58                       |
| 2024           | Feb | 09 (Fri) | 05:52                         | 06:40 | 105 | 12:25 59S    | 18:10 255 |     | 18:58                       |
| 2024           | Feb | 10 (Sat) | 05:52                         | 06:40 | 105 | 12:25 59S    | 18:10 255 |     | 18:58                       |
| 2024           | Feb | 11 (Sun) | 05:52                         | 06:39 | 105 | 12:25 59S    | 18:11 255 |     | 18:59                       |
| 2024           | Feb | 12 (Mon) | 05:51                         | 06:39 | 104 | 12:25 60S    | 18:11 256 |     | 18:59                       |
| 2024           | Feb | 13 (Tue) | 05:51                         | 06:39 | 104 | 12:25 60S    | 18:12 256 |     | 19:00                       |
| 2024           | Feb | 14 (Wed) | 05:50                         | 06:38 | 104 | 12:25 60S    | 18:12 257 |     | 19:00                       |
| 2024           | Feb | 15 (Thu) | 05:50                         | 06:38 | 103 | 12:25 61S    | 18:13 257 |     | 19:00                       |
| 2024           | Feb | 16 (Fri) | 05:50                         | 06:37 | 103 | 12:25 61S    | 18:13 257 |     | 19:01                       |
| 2024           | Feb | 17 (Sat) | 05:49                         | 06:37 | 103 | 12:25 61S    | 18:13 258 |     | 19:01                       |
| 2024           | Feb | 18 (Sun) | 05:49                         | 06:36 | 102 | 12:25 62S    | 18:14 258 |     | 19:01                       |
| 2024           | Feb | 19 (Mon) | 05:48                         | 06:36 | 102 | 12:25 62S    | 18:14 258 |     | 19:02                       |
| 2024           | Feb | 20 (Tue) | 05:48                         | 06:35 | 101 | 12:25 62S    | 18:14 259 |     | 19:02                       |
| 2024           | Feb | 21 (Wed) | 05:47                         | 06:35 | 101 | 12:25 63S    | 18:15 259 |     | 19:02                       |
| 2024           | Feb | 22 (Thu) | 05:47                         | 06:34 | 101 | 12:24 63S    | 18:15 259 |     | 19:02                       |
| 2024           | Feb | 23 (Fri) | 05:46                         | 06:33 | 100 | 12:24 64S    | 18:15 260 |     | 19:03                       |
| 2024           | Feb | 24 (Sat) | 05:46                         | 06:33 | 100 | 12:24 64S    | 18:16 260 |     | 19:03                       |
| 2024           | Feb | 25 (Sun) | 05:45                         | 06:32 | 100 | 12:24 64S    | 18:16 261 |     | 19:03                       |
| 2024           | Feb | 26 (Mon) | 05:44                         | 06:32 | 99  | 12:24 65S    | 18:16 261 |     | 19:03                       |
| 2024           | Feb | 27 (Tue) | 05:44                         | 06:31 | 99  | 12:24 65S    | 18:17 261 |     | 19:04                       |
| 2024           | Feb | 28 (Wed) | 05:43                         | 06:30 | 98  | 12:24 65S    | 18:17 262 |     | 19:04                       |
| 2024           | Feb | 29 (Thu) | 05:43                         | 06:30 | 98  | 12:23 66S    | 18:17 262 |     | 19:04                       |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Mar | 01 | (Fri) | 05:42 | 06:29 | 98 | 12:23 | 66S | 18:18 | 263 | 19:05 |
| 2024 | Mar | 02 | (Sat) | 05:41 | 06:28 | 97 | 12:23 | 67S | 18:18 | 263 | 19:05 |
| 2024 | Mar | 03 | (Sun) | 05:41 | 06:28 | 97 | 12:23 | 67S | 18:18 | 263 | 19:05 |
| 2024 | Mar | 04 | (Mon) | 05:40 | 06:27 | 96 | 12:23 | 67S | 18:18 | 264 | 19:05 |
| 2024 | Mar | 05 | (Tue) | 05:39 | 06:26 | 96 | 12:22 | 68S | 18:19 | 264 | 19:05 |
| 2024 | Mar | 06 | (Wed) | 05:39 | 06:26 | 96 | 12:22 | 68S | 18:19 | 265 | 19:06 |
| 2024 | Mar | 07 | (Thu) | 05:38 | 06:25 | 95 | 12:22 | 68S | 18:19 | 265 | 19:06 |
| 2024 | Mar | 08 | (Fri) | 05:37 | 06:24 | 95 | 12:22 | 69S | 18:19 | 265 | 19:06 |
| 2024 | Mar | 09 | (Sat) | 05:37 | 06:23 | 94 | 12:21 | 69S | 18:20 | 266 | 19:06 |
| 2024 | Mar | 10 | (Sun) | 05:36 | 06:23 | 94 | 12:21 | 70S | 18:20 | 266 | 19:07 |
| 2024 | Mar | 11 | (Mon) | 05:35 | 06:22 | 94 | 12:21 | 70S | 18:20 | 267 | 19:07 |
| 2024 | Mar | 12 | (Tue) | 05:34 | 06:21 | 93 | 12:21 | 70S | 18:20 | 267 | 19:07 |
| 2024 | Mar | 13 | (Wed) | 05:34 | 06:20 | 93 | 12:20 | 71S | 18:20 | 268 | 19:07 |
| 2024 | Mar | 14 | (Thu) | 05:33 | 06:20 | 92 | 12:20 | 71S | 18:21 | 268 | 19:07 |
| 2024 | Mar | 15 | (Fri) | 05:32 | 06:19 | 92 | 12:20 | 72S | 18:21 | 268 | 19:08 |
| 2024 | Mar | 16 | (Sat) | 05:31 | 06:18 | 91 | 12:19 | 72S | 18:21 | 269 | 19:08 |
| 2024 | Mar | 17 | (Sun) | 05:31 | 06:17 | 91 | 12:19 | 72S | 18:21 | 269 | 19:08 |
| 2024 | Mar | 18 | (Mon) | 05:30 | 06:17 | 91 | 12:19 | 73S | 18:21 | 270 | 19:08 |
| 2024 | Mar | 19 | (Tue) | 05:29 | 06:16 | 90 | 12:19 | 73S | 18:22 | 270 | 19:08 |
| 2024 | Mar | 20 | (Wed) | 05:28 | 06:15 | 90 | 12:18 | 74S | 18:22 | 270 | 19:09 |
| 2024 | Mar | 21 | (Thu) | 05:27 | 06:14 | 89 | 12:18 | 74S | 18:22 | 271 | 19:09 |
| 2024 | Mar | 22 | (Fri) | 05:27 | 06:13 | 89 | 12:18 | 74S | 18:22 | 271 | 19:09 |
| 2024 | Mar | 23 | (Sat) | 05:26 | 06:13 | 89 | 12:17 | 75S | 18:22 | 272 | 19:09 |
| 2024 | Mar | 24 | (Sun) | 05:25 | 06:12 | 88 | 12:17 | 75S | 18:23 | 272 | 19:09 |
| 2024 | Mar | 25 | (Mon) | 05:24 | 06:11 | 88 | 12:17 | 76S | 18:23 | 272 | 19:10 |
| 2024 | Mar | 26 | (Tue) | 05:23 | 06:10 | 87 | 12:16 | 76S | 18:23 | 273 | 19:10 |
| 2024 | Mar | 27 | (Wed) | 05:23 | 06:09 | 87 | 12:16 | 76S | 18:23 | 273 | 19:10 |
| 2024 | Mar | 28 | (Thu) | 05:22 | 06:09 | 87 | 12:16 | 77S | 18:23 | 274 | 19:10 |
| 2024 | Mar | 29 | (Fri) | 05:21 | 06:08 | 86 | 12:16 | 77S | 18:24 | 274 | 19:11 |
| 2024 | Mar | 30 | (Sat) | 05:20 | 06:07 | 86 | 12:15 | 78S | 18:24 | 275 | 19:11 |
| 2024 | Mar | 31 | (Sun) | 05:19 | 06:06 | 85 | 12:15 | 78S | 18:24 | 275 | 19:11 |
| 2024 | Apr | 01 | (Mon) | 05:18 | 06:06 | 85 | 12:15 | 78S | 18:24 | 275 | 19:11 |
| 2024 | Apr | 02 | (Tue) | 05:18 | 06:05 | 84 | 12:14 | 79S | 18:24 | 276 | 19:11 |
| 2024 | Apr | 03 | (Wed) | 05:17 | 06:04 | 84 | 12:14 | 79S | 18:24 | 276 | 19:12 |
| 2024 | Apr | 04 | (Thu) | 05:16 | 06:03 | 84 | 12:14 | 79S | 18:25 | 277 | 19:12 |
| 2024 | Apr | 05 | (Fri) | 05:15 | 06:02 | 83 | 12:13 | 80S | 18:25 | 277 | 19:12 |
| 2024 | Apr | 06 | (Sat) | 05:14 | 06:02 | 83 | 12:13 | 80S | 18:25 | 277 | 19:12 |
| 2024 | Apr | 07 | (Sun) | 05:14 | 06:01 | 82 | 12:13 | 81S | 18:25 | 278 | 19:13 |
| 2024 | Apr | 08 | (Mon) | 05:13 | 06:00 | 82 | 12:13 | 81S | 18:25 | 278 | 19:13 |
| 2024 | Apr | 09 | (Tue) | 05:12 | 05:59 | 82 | 12:12 | 81S | 18:26 | 278 | 19:13 |
| 2024 | Apr | 10 | (Wed) | 05:11 | 05:59 | 81 | 12:12 | 82S | 18:26 | 279 | 19:13 |
| 2024 | Apr | 11 | (Thu) | 05:10 | 05:58 | 81 | 12:12 | 82S | 18:26 | 279 | 19:14 |
| 2024 | Apr | 12 | (Fri) | 05:10 | 05:57 | 81 | 12:12 | 82S | 18:26 | 280 | 19:14 |
| 2024 | Apr | 13 | (Sat) | 05:09 | 05:57 | 80 | 12:11 | 83S | 18:26 | 280 | 19:14 |
| 2024 | Apr | 14 | (Sun) | 05:08 | 05:56 | 80 | 12:11 | 83S | 18:27 | 280 | 19:15 |
| 2024 | Apr | 15 | (Mon) | 05:07 | 05:55 | 79 | 12:11 | 83S | 18:27 | 281 | 19:15 |
| 2024 | Apr | 16 | (Tue) | 05:06 | 05:54 | 79 | 12:11 | 84S | 18:27 | 281 | 19:15 |
| 2024 | Apr | 17 | (Wed) | 05:06 | 05:54 | 79 | 12:10 | 84S | 18:27 | 282 | 19:15 |
| 2024 | Apr | 18 | (Thu) | 05:05 | 05:53 | 78 | 12:10 | 85S | 18:28 | 282 | 19:16 |
| 2024 | Apr | 19 | (Fri) | 05:04 | 05:52 | 78 | 12:10 | 85S | 18:28 | 282 | 19:16 |
| 2024 | Apr | 20 | (Sat) | 05:03 | 05:52 | 78 | 12:10 | 85S | 18:28 | 283 | 19:16 |
| 2024 | Apr | 21 | (Sun) | 05:03 | 05:51 | 77 | 12:10 | 86S | 18:28 | 283 | 19:17 |
| 2024 | Apr | 22 | (Mon) | 05:02 | 05:50 | 77 | 12:09 | 86S | 18:28 | 283 | 19:17 |
| 2024 | Apr | 23 | (Tue) | 05:01 | 05:50 | 77 | 12:09 | 86S | 18:29 | 284 | 19:17 |
| 2024 | Apr | 24 | (Wed) | 05:01 | 05:49 | 76 | 12:09 | 87S | 18:29 | 284 | 19:18 |
| 2024 | Apr | 25 | (Thu) | 05:00 | 05:49 | 76 | 12:09 | 87S | 18:29 | 284 | 19:18 |
| 2024 | Apr | 26 | (Fri) | 04:59 | 05:48 | 75 | 12:09 | 87S | 18:30 | 285 | 19:18 |
| 2024 | Apr | 27 | (Sat) | 04:59 | 05:47 | 75 | 12:08 | 88S | 18:30 | 285 | 19:19 |
| 2024 | Apr | 28 | (Sun) | 04:58 | 05:47 | 75 | 12:08 | 88S | 18:30 | 285 | 19:19 |
| 2024 | Apr | 29 | (Mon) | 04:57 | 05:46 | 75 | 12:08 | 88S | 18:30 | 286 | 19:19 |
| 2024 | Apr | 30 | (Tue) | 04:57 | 05:46 | 74 | 12:08 | 88S | 18:31 | 286 | 19:20 |
| 2024 | May | 01 | (Wed) | 04:56 | 05:45 | 74 | 12:08 | 89S | 18:31 | 286 | 19:20 |
| 2024 | May | 02 | (Thu) | 04:55 | 05:45 | 74 | 12:08 | 89S | 18:31 | 287 | 19:21 |
| 2024 | May | 03 | (Fri) | 04:55 | 05:44 | 73 | 12:08 | 89S | 18:32 | 287 | 19:21 |
| 2024 | May | 04 | (Sat) | 04:54 | 05:44 | 73 | 12:08 | 90S | 18:32 | 287 | 19:21 |
| 2024 | May | 05 | (Sun) | 04:54 | 05:43 | 73 | 12:08 | 90S | 18:32 | 288 | 19:22 |
| 2024 | May | 06 | (Mon) | 04:53 | 05:43 | 72 | 12:07 | 90S | 18:32 | 288 | 19:22 |
| 2024 | May | 07 | (Tue) | 04:53 | 05:42 | 72 | 12:07 | 90S | 18:33 | 288 | 19:23 |
| 2024 | May | 08 | (Wed) | 04:52 | 05:42 | 72 | 12:07 | 91N | 18:33 | 288 | 19:23 |
| 2024 | May | 09 | (Thu) | 04:52 | 05:41 | 71 | 12:07 | 90N | 18:33 | 289 | 19:23 |
| 2024 | May | 10 | (Fri) | 04:51 | 05:41 | 71 | 12:07 | 90N | 18:34 | 289 | 19:24 |
| 2024 | May | 11 | (Sat) | 04:51 | 05:41 | 71 | 12:07 | 90N | 18:34 | 289 | 19:24 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 12 | (Sun) | 04:50 | 05:40 | 71 | 12:07 | 90N | 18:34 | 289 | 19:25 |
| 2024 | May | 13 | (Mon) | 04:50 | 05:40 | 70 | 12:07 | 89N | 18:35 | 290 | 19:25 |
| 2024 | May | 14 | (Tue) | 04:49 | 05:40 | 70 | 12:07 | 89N | 18:35 | 290 | 19:26 |
| 2024 | May | 15 | (Wed) | 04:49 | 05:39 | 70 | 12:07 | 89N | 18:35 | 290 | 19:26 |
| 2024 | May | 16 | (Thu) | 04:48 | 05:39 | 70 | 12:07 | 89N | 18:36 | 290 | 19:26 |
| 2024 | May | 17 | (Fri) | 04:48 | 05:39 | 69 | 12:07 | 88N | 18:36 | 291 | 19:27 |
| 2024 | May | 18 | (Sat) | 04:48 | 05:38 | 69 | 12:07 | 88N | 18:36 | 291 | 19:27 |
| 2024 | May | 19 | (Sun) | 04:47 | 05:38 | 69 | 12:07 | 88N | 18:37 | 291 | 19:28 |
| 2024 | May | 20 | (Mon) | 04:47 | 05:38 | 69 | 12:07 | 88N | 18:37 | 291 | 19:28 |
| 2024 | May | 21 | (Tue) | 04:47 | 05:38 | 69 | 12:07 | 88N | 18:38 | 292 | 19:29 |
| 2024 | May | 22 | (Wed) | 04:46 | 05:37 | 68 | 12:08 | 87N | 18:38 | 292 | 19:29 |
| 2024 | May | 23 | (Thu) | 04:46 | 05:37 | 68 | 12:08 | 87N | 18:38 | 292 | 19:30 |
| 2024 | May | 24 | (Fri) | 04:46 | 05:37 | 68 | 12:08 | 87N | 18:39 | 292 | 19:30 |
| 2024 | May | 25 | (Sat) | 04:46 | 05:37 | 68 | 12:08 | 87N | 18:39 | 292 | 19:30 |
| 2024 | May | 26 | (Sun) | 04:45 | 05:37 | 68 | 12:08 | 87N | 18:39 | 293 | 19:31 |
| 2024 | May | 27 | (Mon) | 04:45 | 05:37 | 67 | 12:08 | 86N | 18:40 | 293 | 19:31 |
| 2024 | May | 28 | (Tue) | 04:45 | 05:36 | 67 | 12:08 | 86N | 18:40 | 293 | 19:32 |
| 2024 | May | 29 | (Wed) | 04:45 | 05:36 | 67 | 12:08 | 86N | 18:40 | 293 | 19:32 |
| 2024 | May | 30 | (Thu) | 04:45 | 05:36 | 67 | 12:08 | 86N | 18:41 | 293 | 19:33 |
| 2024 | May | 31 | (Fri) | 04:44 | 05:36 | 67 | 12:09 | 86N | 18:41 | 293 | 19:33 |
| 2024 | Jun | 01 | (Sat) | 04:44 | 05:36 | 67 | 12:09 | 86N | 18:41 | 294 | 19:33 |
| 2024 | Jun | 02 | (Sun) | 04:44 | 05:36 | 66 | 12:09 | 86N | 18:42 | 294 | 19:34 |
| 2024 | Jun | 03 | (Mon) | 04:44 | 05:36 | 66 | 12:09 | 85N | 18:42 | 294 | 19:34 |
| 2024 | Jun | 04 | (Tue) | 04:44 | 05:36 | 66 | 12:09 | 85N | 18:43 | 294 | 19:35 |
| 2024 | Jun | 05 | (Wed) | 04:44 | 05:36 | 66 | 12:09 | 85N | 18:43 | 294 | 19:35 |
| 2024 | Jun | 06 | (Thu) | 04:44 | 05:36 | 66 | 12:10 | 85N | 18:43 | 294 | 19:35 |
| 2024 | Jun | 07 | (Fri) | 04:44 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:36 |
| 2024 | Jun | 08 | (Sat) | 04:44 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:36 |
| 2024 | Jun | 09 | (Sun) | 04:44 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:36 |
| 2024 | Jun | 10 | (Mon) | 04:44 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:37 |
| 2024 | Jun | 11 | (Tue) | 04:44 | 05:36 | 65 | 12:11 | 85N | 18:45 | 295 | 19:37 |
| 2024 | Jun | 12 | (Wed) | 04:44 | 05:37 | 65 | 12:11 | 85N | 18:45 | 295 | 19:38 |
| 2024 | Jun | 13 | (Thu) | 04:44 | 05:37 | 65 | 12:11 | 85N | 18:45 | 295 | 19:38 |
| 2024 | Jun | 14 | (Fri) | 04:44 | 05:37 | 65 | 12:11 | 85N | 18:46 | 295 | 19:38 |
| 2024 | Jun | 15 | (Sat) | 04:45 | 05:37 | 65 | 12:11 | 85N | 18:46 | 295 | 19:38 |
| 2024 | Jun | 16 | (Sun) | 04:45 | 05:37 | 65 | 12:12 | 85N | 18:46 | 295 | 19:39 |
| 2024 | Jun | 17 | (Mon) | 04:45 | 05:37 | 65 | 12:12 | 84N | 18:46 | 295 | 19:39 |
| 2024 | Jun | 18 | (Tue) | 04:45 | 05:37 | 65 | 12:12 | 84N | 18:47 | 295 | 19:39 |
| 2024 | Jun | 19 | (Wed) | 04:45 | 05:38 | 65 | 12:12 | 84N | 18:47 | 295 | 19:39 |
| 2024 | Jun | 20 | (Thu) | 04:45 | 05:38 | 65 | 12:13 | 84N | 18:47 | 295 | 19:40 |
| 2024 | Jun | 21 | (Fri) | 04:46 | 05:38 | 65 | 12:13 | 84N | 18:47 | 295 | 19:40 |
| 2024 | Jun | 22 | (Sat) | 04:46 | 05:38 | 65 | 12:13 | 84N | 18:48 | 295 | 19:40 |
| 2024 | Jun | 23 | (Sun) | 04:46 | 05:39 | 65 | 12:13 | 84N | 18:48 | 295 | 19:40 |
| 2024 | Jun | 24 | (Mon) | 04:46 | 05:39 | 65 | 12:13 | 84N | 18:48 | 295 | 19:40 |
| 2024 | Jun | 25 | (Tue) | 04:47 | 05:39 | 65 | 12:14 | 84N | 18:48 | 295 | 19:41 |
| 2024 | Jun | 26 | (Wed) | 04:47 | 05:39 | 65 | 12:14 | 85N | 18:48 | 295 | 19:41 |
| 2024 | Jun | 27 | (Thu) | 04:47 | 05:40 | 65 | 12:14 | 85N | 18:48 | 295 | 19:41 |
| 2024 | Jun | 28 | (Fri) | 04:47 | 05:40 | 65 | 12:14 | 85N | 18:49 | 295 | 19:41 |
| 2024 | Jun | 29 | (Sat) | 04:48 | 05:40 | 65 | 12:14 | 85N | 18:49 | 295 | 19:41 |
| 2024 | Jun | 30 | (Sun) | 04:48 | 05:40 | 65 | 12:15 | 85N | 18:49 | 295 | 19:41 |
| 2024 | Jul | 01 | (Mon) | 04:48 | 05:41 | 65 | 12:15 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 02 | (Tue) | 04:49 | 05:41 | 66 | 12:15 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 03 | (Wed) | 04:49 | 05:41 | 66 | 12:15 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 04 | (Thu) | 04:49 | 05:42 | 66 | 12:15 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 05 | (Fri) | 04:50 | 05:42 | 66 | 12:16 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 06 | (Sat) | 04:50 | 05:42 | 66 | 12:16 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 07 | (Sun) | 04:50 | 05:43 | 66 | 12:16 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 08 | (Mon) | 04:51 | 05:43 | 66 | 12:16 | 85N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 09 | (Tue) | 04:51 | 05:43 | 66 | 12:16 | 86N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 10 | (Wed) | 04:52 | 05:44 | 66 | 12:16 | 86N | 18:49 | 294 | 19:41 |
| 2024 | Jul | 11 | (Thu) | 04:52 | 05:44 | 67 | 12:16 | 86N | 18:49 | 293 | 19:41 |
| 2024 | Jul | 12 | (Fri) | 04:52 | 05:44 | 67 | 12:17 | 86N | 18:49 | 293 | 19:41 |
| 2024 | Jul | 13 | (Sat) | 04:53 | 05:45 | 67 | 12:17 | 86N | 18:49 | 293 | 19:40 |
| 2024 | Jul | 14 | (Sun) | 04:53 | 05:45 | 67 | 12:17 | 86N | 18:49 | 293 | 19:40 |
| 2024 | Jul | 15 | (Mon) | 04:54 | 05:45 | 67 | 12:17 | 86N | 18:48 | 293 | 19:40 |
| 2024 | Jul | 16 | (Tue) | 04:54 | 05:46 | 67 | 12:17 | 87N | 18:48 | 293 | 19:40 |
| 2024 | Jul | 17 | (Wed) | 04:54 | 05:46 | 68 | 12:17 | 87N | 18:48 | 292 | 19:40 |
| 2024 | Jul | 18 | (Thu) | 04:55 | 05:46 | 68 | 12:17 | 87N | 18:48 | 292 | 19:39 |
| 2024 | Jul | 19 | (Fri) | 04:55 | 05:47 | 68 | 12:17 | 87N | 18:48 | 292 | 19:39 |
| 2024 | Jul | 20 | (Sat) | 04:56 | 05:47 | 68 | 12:17 | 87N | 18:48 | 292 | 19:39 |
| 2024 | Jul | 21 | (Sun) | 04:56 | 05:47 | 68 | 12:17 | 88N | 18:47 | 292 | 19:38 |
| 2024 | Jul | 22 | (Mon) | 04:56 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:38 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Jul | 23 | (Tue) | 04:57 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:38 |
| 2024 | Jul | 24 | (Wed) | 04:57 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:37 |
| 2024 | Jul | 25 | (Thu) | 04:58 | 05:48 | 69 | 12:17 | 88N | 18:46 | 291 | 19:37 |
| 2024 | Jul | 26 | (Fri) | 04:58 | 05:49 | 69 | 12:17 | 89N | 18:46 | 290 | 19:37 |
| 2024 | Jul | 27 | (Sat) | 04:58 | 05:49 | 70 | 12:17 | 89N | 18:46 | 290 | 19:36 |
| 2024 | Jul | 28 | (Sun) | 04:59 | 05:49 | 70 | 12:17 | 89N | 18:45 | 290 | 19:36 |
| 2024 | Jul | 29 | (Mon) | 04:59 | 05:50 | 70 | 12:17 | 89N | 18:45 | 290 | 19:35 |
| 2024 | Jul | 30 | (Tue) | 05:00 | 05:50 | 70 | 12:17 | 89N | 18:44 | 289 | 19:35 |
| 2024 | Jul | 31 | (Wed) | 05:00 | 05:50 | 71 | 12:17 | 90N | 18:44 | 289 | 19:34 |
| 2024 | Aug | 01 | (Thu) | 05:00 | 05:51 | 71 | 12:17 | 90N | 18:44 | 289 | 19:34 |
| 2024 | Aug | 02 | (Fri) | 05:01 | 05:51 | 71 | 12:17 | 90N | 18:43 | 289 | 19:33 |
| 2024 | Aug | 03 | (Sat) | 05:01 | 05:51 | 71 | 12:17 | 91N | 18:43 | 288 | 19:33 |
| 2024 | Aug | 04 | (Sun) | 05:02 | 05:51 | 72 | 12:17 | 91S | 18:42 | 288 | 19:32 |
| 2024 | Aug | 05 | (Mon) | 05:02 | 05:52 | 72 | 12:17 | 90S | 18:42 | 288 | 19:32 |
| 2024 | Aug | 06 | (Tue) | 05:02 | 05:52 | 72 | 12:17 | 90S | 18:41 | 288 | 19:31 |
| 2024 | Aug | 07 | (Wed) | 05:03 | 05:52 | 73 | 12:17 | 90S | 18:41 | 287 | 19:30 |
| 2024 | Aug | 08 | (Thu) | 05:03 | 05:53 | 73 | 12:17 | 90S | 18:40 | 287 | 19:30 |
| 2024 | Aug | 09 | (Fri) | 05:03 | 05:53 | 73 | 12:16 | 89S | 18:40 | 287 | 19:29 |
| 2024 | Aug | 10 | (Sat) | 05:04 | 05:53 | 74 | 12:16 | 89S | 18:39 | 286 | 19:28 |
| 2024 | Aug | 11 | (Sun) | 05:04 | 05:53 | 74 | 12:16 | 89S | 18:39 | 286 | 19:28 |
| 2024 | Aug | 12 | (Mon) | 05:04 | 05:54 | 74 | 12:16 | 88S | 18:38 | 286 | 19:27 |
| 2024 | Aug | 13 | (Tue) | 05:05 | 05:54 | 74 | 12:16 | 88S | 18:37 | 285 | 19:26 |
| 2024 | Aug | 14 | (Wed) | 05:05 | 05:54 | 75 | 12:16 | 88S | 18:37 | 285 | 19:26 |
| 2024 | Aug | 15 | (Thu) | 05:05 | 05:54 | 75 | 12:15 | 87S | 18:36 | 285 | 19:25 |
| 2024 | Aug | 16 | (Fri) | 05:06 | 05:54 | 75 | 12:15 | 87S | 18:36 | 284 | 19:24 |
| 2024 | Aug | 17 | (Sat) | 05:06 | 05:55 | 76 | 12:15 | 87S | 18:35 | 284 | 19:24 |
| 2024 | Aug | 18 | (Sun) | 05:06 | 05:55 | 76 | 12:15 | 86S | 18:34 | 284 | 19:23 |
| 2024 | Aug | 19 | (Mon) | 05:06 | 05:55 | 76 | 12:14 | 86S | 18:34 | 283 | 19:22 |
| 2024 | Aug | 20 | (Tue) | 05:07 | 05:55 | 77 | 12:14 | 86S | 18:33 | 283 | 19:21 |
| 2024 | Aug | 21 | (Wed) | 05:07 | 05:55 | 77 | 12:14 | 85S | 18:32 | 283 | 19:21 |
| 2024 | Aug | 22 | (Thu) | 05:07 | 05:56 | 77 | 12:14 | 85S | 18:32 | 282 | 19:20 |
| 2024 | Aug | 23 | (Fri) | 05:08 | 05:56 | 78 | 12:13 | 85S | 18:31 | 282 | 19:19 |
| 2024 | Aug | 24 | (Sat) | 05:08 | 05:56 | 78 | 12:13 | 84S | 18:30 | 282 | 19:18 |
| 2024 | Aug | 25 | (Sun) | 05:08 | 05:56 | 79 | 12:13 | 84S | 18:29 | 281 | 19:17 |
| 2024 | Aug | 26 | (Mon) | 05:08 | 05:56 | 79 | 12:13 | 84S | 18:29 | 281 | 19:17 |
| 2024 | Aug | 27 | (Tue) | 05:08 | 05:56 | 79 | 12:12 | 83S | 18:28 | 281 | 19:16 |
| 2024 | Aug | 28 | (Wed) | 05:09 | 05:57 | 80 | 12:12 | 83S | 18:27 | 280 | 19:15 |
| 2024 | Aug | 29 | (Thu) | 05:09 | 05:57 | 80 | 12:12 | 83S | 18:26 | 280 | 19:14 |
| 2024 | Aug | 30 | (Fri) | 05:09 | 05:57 | 80 | 12:11 | 82S | 18:26 | 279 | 19:13 |
| 2024 | Aug | 31 | (Sat) | 05:09 | 05:57 | 81 | 12:11 | 82S | 18:25 | 279 | 19:13 |
| 2024 | Sep | 01 | (Sun) | 05:10 | 05:57 | 81 | 12:11 | 82S | 18:24 | 279 | 19:12 |
| 2024 | Sep | 02 | (Mon) | 05:10 | 05:57 | 82 | 12:10 | 81S | 18:23 | 278 | 19:11 |
| 2024 | Sep | 03 | (Tue) | 05:10 | 05:57 | 82 | 12:10 | 81S | 18:23 | 278 | 19:10 |
| 2024 | Sep | 04 | (Wed) | 05:10 | 05:58 | 82 | 12:10 | 81S | 18:22 | 277 | 19:09 |
| 2024 | Sep | 05 | (Thu) | 05:10 | 05:58 | 83 | 12:09 | 80S | 18:21 | 277 | 19:08 |
| 2024 | Sep | 06 | (Fri) | 05:11 | 05:58 | 83 | 12:09 | 80S | 18:20 | 277 | 19:07 |
| 2024 | Sep | 07 | (Sat) | 05:11 | 05:58 | 83 | 12:09 | 79S | 18:19 | 276 | 19:07 |
| 2024 | Sep | 08 | (Sun) | 05:11 | 05:58 | 84 | 12:08 | 79S | 18:19 | 276 | 19:06 |
| 2024 | Sep | 09 | (Mon) | 05:11 | 05:58 | 84 | 12:08 | 79S | 18:18 | 276 | 19:05 |
| 2024 | Sep | 10 | (Tue) | 05:11 | 05:58 | 85 | 12:08 | 78S | 18:17 | 275 | 19:04 |
| 2024 | Sep | 11 | (Wed) | 05:11 | 05:59 | 85 | 12:07 | 78S | 18:16 | 275 | 19:03 |
| 2024 | Sep | 12 | (Thu) | 05:12 | 05:59 | 85 | 12:07 | 78S | 18:15 | 274 | 19:02 |
| 2024 | Sep | 13 | (Fri) | 05:12 | 05:59 | 86 | 12:07 | 77S | 18:14 | 274 | 19:01 |
| 2024 | Sep | 14 | (Sat) | 05:12 | 05:59 | 86 | 12:06 | 77S | 18:14 | 274 | 19:01 |
| 2024 | Sep | 15 | (Sun) | 05:12 | 05:59 | 87 | 12:06 | 76S | 18:13 | 273 | 19:00 |
| 2024 | Sep | 16 | (Mon) | 05:12 | 05:59 | 87 | 12:06 | 76S | 18:12 | 273 | 18:59 |
| 2024 | Sep | 17 | (Tue) | 05:12 | 05:59 | 87 | 12:05 | 76S | 18:11 | 272 | 18:58 |
| 2024 | Sep | 18 | (Wed) | 05:12 | 05:59 | 88 | 12:05 | 75S | 18:10 | 272 | 18:57 |
| 2024 | Sep | 19 | (Thu) | 05:13 | 05:59 | 88 | 12:05 | 75S | 18:09 | 272 | 18:56 |
| 2024 | Sep | 20 | (Fri) | 05:13 | 06:00 | 89 | 12:04 | 74S | 18:09 | 271 | 18:55 |
| 2024 | Sep | 21 | (Sat) | 05:13 | 06:00 | 89 | 12:04 | 74S | 18:08 | 271 | 18:55 |
| 2024 | Sep | 22 | (Sun) | 05:13 | 06:00 | 90 | 12:04 | 74S | 18:07 | 270 | 18:54 |
| 2024 | Sep | 23 | (Mon) | 05:13 | 06:00 | 90 | 12:03 | 73S | 18:06 | 270 | 18:53 |
| 2024 | Sep | 24 | (Tue) | 05:13 | 06:00 | 90 | 12:03 | 73S | 18:05 | 269 | 18:52 |
| 2024 | Sep | 25 | (Wed) | 05:13 | 06:00 | 91 | 12:02 | 73S | 18:04 | 269 | 18:51 |
| 2024 | Sep | 26 | (Thu) | 05:14 | 06:00 | 91 | 12:02 | 72S | 18:04 | 269 | 18:50 |
| 2024 | Sep | 27 | (Fri) | 05:14 | 06:01 | 92 | 12:02 | 72S | 18:03 | 268 | 18:50 |
| 2024 | Sep | 28 | (Sat) | 05:14 | 06:01 | 92 | 12:01 | 71S | 18:02 | 268 | 18:49 |
| 2024 | Sep | 29 | (Sun) | 05:14 | 06:01 | 92 | 12:01 | 71S | 18:01 | 267 | 18:48 |
| 2024 | Sep | 30 | (Mon) | 05:14 | 06:01 | 93 | 12:01 | 71S | 18:00 | 267 | 18:47 |
| 2024 | Oct | 01 | (Tue) | 05:14 | 06:01 | 93 | 12:00 | 70S | 18:00 | 267 | 18:46 |
| 2024 | Oct | 02 | (Wed) | 05:14 | 06:01 | 94 | 12:00 | 70S | 17:59 | 266 | 18:46 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Oct | 03 | (Thu) | 05:15 | 06:01 | 94  | 12:00 | 69S | 17:58 | 266 | 18:45 |
| 2024 | Oct | 04 | (Fri) | 05:15 | 06:02 | 94  | 12:00 | 69S | 17:57 | 265 | 18:44 |
| 2024 | Oct | 05 | (Sat) | 05:15 | 06:02 | 95  | 11:59 | 69S | 17:56 | 265 | 18:43 |
| 2024 | Oct | 06 | (Sun) | 05:15 | 06:02 | 95  | 11:59 | 68S | 17:56 | 265 | 18:42 |
| 2024 | Oct | 07 | (Mon) | 05:15 | 06:02 | 96  | 11:59 | 68S | 17:55 | 264 | 18:42 |
| 2024 | Oct | 08 | (Tue) | 05:15 | 06:02 | 96  | 11:58 | 67S | 17:54 | 264 | 18:41 |
| 2024 | Oct | 09 | (Wed) | 05:16 | 06:03 | 96  | 11:58 | 67S | 17:53 | 263 | 18:40 |
| 2024 | Oct | 10 | (Thu) | 05:16 | 06:03 | 97  | 11:58 | 67S | 17:53 | 263 | 18:40 |
| 2024 | Oct | 11 | (Fri) | 05:16 | 06:03 | 97  | 11:58 | 66S | 17:52 | 263 | 18:39 |
| 2024 | Oct | 12 | (Sat) | 05:16 | 06:03 | 98  | 11:57 | 66S | 17:51 | 262 | 18:38 |
| 2024 | Oct | 13 | (Sun) | 05:16 | 06:03 | 98  | 11:57 | 66S | 17:51 | 262 | 18:38 |
| 2024 | Oct | 14 | (Mon) | 05:17 | 06:04 | 98  | 11:57 | 65S | 17:50 | 261 | 18:37 |
| 2024 | Oct | 15 | (Tue) | 05:17 | 06:04 | 99  | 11:57 | 65S | 17:49 | 261 | 18:36 |
| 2024 | Oct | 16 | (Wed) | 05:17 | 06:04 | 99  | 11:56 | 64S | 17:48 | 261 | 18:36 |
| 2024 | Oct | 17 | (Thu) | 05:17 | 06:04 | 100 | 11:56 | 64S | 17:48 | 260 | 18:35 |
| 2024 | Oct | 18 | (Fri) | 05:17 | 06:05 | 100 | 11:56 | 64S | 17:47 | 260 | 18:34 |
| 2024 | Oct | 19 | (Sat) | 05:18 | 06:05 | 100 | 11:56 | 63S | 17:46 | 260 | 18:34 |
| 2024 | Oct | 20 | (Sun) | 05:18 | 06:05 | 101 | 11:56 | 63S | 17:46 | 259 | 18:33 |
| 2024 | Oct | 21 | (Mon) | 05:18 | 06:05 | 101 | 11:55 | 63S | 17:45 | 259 | 18:33 |
| 2024 | Oct | 22 | (Tue) | 05:18 | 06:06 | 101 | 11:55 | 62S | 17:45 | 258 | 18:32 |
| 2024 | Oct | 23 | (Wed) | 05:19 | 06:06 | 102 | 11:55 | 62S | 17:44 | 258 | 18:32 |
| 2024 | Oct | 24 | (Thu) | 05:19 | 06:06 | 102 | 11:55 | 62S | 17:44 | 258 | 18:31 |
| 2024 | Oct | 25 | (Fri) | 05:19 | 06:07 | 102 | 11:55 | 61S | 17:43 | 257 | 18:31 |
| 2024 | Oct | 26 | (Sat) | 05:19 | 06:07 | 103 | 11:55 | 61S | 17:42 | 257 | 18:30 |
| 2024 | Oct | 27 | (Sun) | 05:20 | 06:07 | 103 | 11:55 | 61S | 17:42 | 257 | 18:30 |
| 2024 | Oct | 28 | (Mon) | 05:20 | 06:08 | 104 | 11:55 | 60S | 17:41 | 256 | 18:29 |
| 2024 | Oct | 29 | (Tue) | 05:20 | 06:08 | 104 | 11:55 | 60S | 17:41 | 256 | 18:29 |
| 2024 | Oct | 30 | (Wed) | 05:20 | 06:08 | 104 | 11:55 | 60S | 17:40 | 256 | 18:28 |
| 2024 | Oct | 31 | (Thu) | 05:21 | 06:09 | 105 | 11:54 | 59S | 17:40 | 255 | 18:28 |
| 2024 | Nov | 01 | (Fri) | 05:21 | 06:09 | 105 | 11:54 | 59S | 17:40 | 255 | 18:28 |
| 2024 | Nov | 02 | (Sat) | 05:21 | 06:10 | 105 | 11:54 | 59S | 17:39 | 255 | 18:27 |
| 2024 | Nov | 03 | (Sun) | 05:22 | 06:10 | 106 | 11:54 | 58S | 17:39 | 254 | 18:27 |
| 2024 | Nov | 04 | (Mon) | 05:22 | 06:10 | 106 | 11:54 | 58S | 17:38 | 254 | 18:27 |
| 2024 | Nov | 05 | (Tue) | 05:22 | 06:11 | 106 | 11:54 | 58S | 17:38 | 254 | 18:26 |
| 2024 | Nov | 06 | (Wed) | 05:23 | 06:11 | 107 | 11:55 | 57S | 17:38 | 253 | 18:26 |
| 2024 | Nov | 07 | (Thu) | 05:23 | 06:12 | 107 | 11:55 | 57S | 17:37 | 253 | 18:26 |
| 2024 | Nov | 08 | (Fri) | 05:24 | 06:12 | 107 | 11:55 | 57S | 17:37 | 253 | 18:25 |
| 2024 | Nov | 09 | (Sat) | 05:24 | 06:13 | 107 | 11:55 | 57S | 17:37 | 252 | 18:25 |
| 2024 | Nov | 10 | (Sun) | 05:24 | 06:13 | 108 | 11:55 | 56S | 17:36 | 252 | 18:25 |
| 2024 | Nov | 11 | (Mon) | 05:25 | 06:14 | 108 | 11:55 | 56S | 17:36 | 252 | 18:25 |
| 2024 | Nov | 12 | (Tue) | 05:25 | 06:14 | 108 | 11:55 | 56S | 17:36 | 252 | 18:25 |
| 2024 | Nov | 13 | (Wed) | 05:26 | 06:15 | 109 | 11:55 | 55S | 17:36 | 251 | 18:25 |
| 2024 | Nov | 14 | (Thu) | 05:26 | 06:15 | 109 | 11:55 | 55S | 17:35 | 251 | 18:24 |
| 2024 | Nov | 15 | (Fri) | 05:27 | 06:16 | 109 | 11:55 | 55S | 17:35 | 251 | 18:24 |
| 2024 | Nov | 16 | (Sat) | 05:27 | 06:16 | 109 | 11:56 | 55S | 17:35 | 250 | 18:24 |
| 2024 | Nov | 17 | (Sun) | 05:27 | 06:17 | 110 | 11:56 | 54S | 17:35 | 250 | 18:24 |
| 2024 | Nov | 18 | (Mon) | 05:28 | 06:17 | 110 | 11:56 | 54S | 17:35 | 250 | 18:24 |
| 2024 | Nov | 19 | (Tue) | 05:28 | 06:18 | 110 | 11:56 | 54S | 17:35 | 250 | 18:24 |
| 2024 | Nov | 20 | (Wed) | 05:29 | 06:18 | 110 | 11:57 | 54S | 17:35 | 249 | 18:24 |
| 2024 | Nov | 21 | (Thu) | 05:29 | 06:19 | 111 | 11:57 | 54S | 17:35 | 249 | 18:24 |
| 2024 | Nov | 22 | (Fri) | 05:30 | 06:19 | 111 | 11:57 | 53S | 17:35 | 249 | 18:24 |
| 2024 | Nov | 23 | (Sat) | 05:30 | 06:20 | 111 | 11:57 | 53S | 17:35 | 249 | 18:24 |
| 2024 | Nov | 24 | (Sun) | 05:31 | 06:20 | 111 | 11:58 | 53S | 17:35 | 249 | 18:24 |
| 2024 | Nov | 25 | (Mon) | 05:31 | 06:21 | 112 | 11:58 | 53S | 17:35 | 248 | 18:24 |
| 2024 | Nov | 26 | (Tue) | 05:32 | 06:22 | 112 | 11:58 | 53S | 17:35 | 248 | 18:25 |
| 2024 | Nov | 27 | (Wed) | 05:32 | 06:22 | 112 | 11:59 | 52S | 17:35 | 248 | 18:25 |
| 2024 | Nov | 28 | (Thu) | 05:33 | 06:23 | 112 | 11:59 | 52S | 17:35 | 248 | 18:25 |
| 2024 | Nov | 29 | (Fri) | 05:33 | 06:23 | 112 | 11:59 | 52S | 17:35 | 248 | 18:25 |
| 2024 | Nov | 30 | (Sat) | 05:34 | 06:24 | 112 | 12:00 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 01 | (Sun) | 05:34 | 06:25 | 113 | 12:00 | 52S | 17:35 | 247 | 18:25 |
| 2024 | Dec | 02 | (Mon) | 05:35 | 06:25 | 113 | 12:00 | 52S | 17:35 | 247 | 18:26 |
| 2024 | Dec | 03 | (Tue) | 05:36 | 06:26 | 113 | 12:01 | 51S | 17:36 | 247 | 18:26 |
| 2024 | Dec | 04 | (Wed) | 05:36 | 06:26 | 113 | 12:01 | 51S | 17:36 | 247 | 18:26 |
| 2024 | Dec | 05 | (Thu) | 05:37 | 06:27 | 113 | 12:02 | 51S | 17:36 | 247 | 18:26 |
| 2024 | Dec | 06 | (Fri) | 05:37 | 06:27 | 113 | 12:02 | 51S | 17:36 | 247 | 18:27 |
| 2024 | Dec | 07 | (Sat) | 05:38 | 06:28 | 113 | 12:02 | 51S | 17:37 | 246 | 18:27 |
| 2024 | Dec | 08 | (Sun) | 05:38 | 06:29 | 114 | 12:03 | 51S | 17:37 | 246 | 18:27 |
| 2024 | Dec | 09 | (Mon) | 05:39 | 06:29 | 114 | 12:03 | 51S | 17:37 | 246 | 18:28 |
| 2024 | Dec | 10 | (Tue) | 05:39 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:28 |
| 2024 | Dec | 11 | (Wed) | 05:40 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:28 |
| 2024 | Dec | 12 | (Thu) | 05:40 | 06:31 | 114 | 12:05 | 50S | 17:38 | 246 | 18:29 |
| 2024 | Dec | 13 | (Fri) | 05:41 | 06:32 | 114 | 12:05 | 50S | 17:39 | 246 | 18:29 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Dec | 14 | (Sat) | 05:42 | 06:32 | 114 | 12:06 | 50S | 17:39 | 246 | 18:30 |
| 2024 | Dec | 15 | (Sun) | 05:42 | 06:33 | 114 | 12:06 | 50S | 17:39 | 246 | 18:30 |
| 2024 | Dec | 16 | (Mon) | 05:43 | 06:33 | 114 | 12:07 | 50S | 17:40 | 246 | 18:30 |
| 2024 | Dec | 17 | (Tue) | 05:43 | 06:34 | 114 | 12:07 | 50S | 17:40 | 246 | 18:31 |
| 2024 | Dec | 18 | (Wed) | 05:44 | 06:34 | 114 | 12:08 | 50S | 17:41 | 246 | 18:31 |
| 2024 | Dec | 19 | (Thu) | 05:44 | 06:35 | 114 | 12:08 | 50S | 17:41 | 246 | 18:32 |
| 2024 | Dec | 20 | (Fri) | 05:45 | 06:35 | 114 | 12:09 | 50S | 17:42 | 246 | 18:32 |
| 2024 | Dec | 21 | (Sat) | 05:45 | 06:36 | 114 | 12:09 | 50S | 17:42 | 246 | 18:33 |
| 2024 | Dec | 22 | (Sun) | 05:46 | 06:36 | 114 | 12:10 | 50S | 17:43 | 246 | 18:33 |
| 2024 | Dec | 23 | (Mon) | 05:46 | 06:37 | 114 | 12:10 | 50S | 17:43 | 246 | 18:34 |
| 2024 | Dec | 24 | (Tue) | 05:47 | 06:37 | 114 | 12:11 | 50S | 17:44 | 246 | 18:34 |
| 2024 | Dec | 25 | (Wed) | 05:47 | 06:38 | 114 | 12:11 | 50S | 17:44 | 246 | 18:35 |
| 2024 | Dec | 26 | (Thu) | 05:48 | 06:38 | 114 | 12:12 | 50S | 17:45 | 246 | 18:35 |
| 2024 | Dec | 27 | (Fri) | 05:48 | 06:39 | 114 | 12:12 | 50S | 17:45 | 246 | 18:36 |
| 2024 | Dec | 28 | (Sat) | 05:48 | 06:39 | 114 | 12:12 | 50S | 17:46 | 246 | 18:37 |
| 2024 | Dec | 29 | (Sun) | 05:49 | 06:39 | 114 | 12:13 | 50S | 17:47 | 246 | 18:37 |
| 2024 | Dec | 30 | (Mon) | 05:49 | 06:40 | 114 | 12:13 | 50S | 17:47 | 246 | 18:38 |
| 2024 | Dec | 31 | (Tue) | 05:50 | 06:40 | 114 | 12:14 | 50S | 17:48 | 246 | 18:38 |

Sun

Nong Bua Lam Phu  
Location: E102°16'58.8", N17°09'50.4", 0m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone) |     |    |       | Begin<br>Civil<br>Twilight | Rise  | Az. | Transit | Alt. | Set   | Az. | End<br>Civil<br>Twilight |
|----------------|-----|----|-------|----------------------------|-------|-----|---------|------|-------|-----|--------------------------|
|                |     |    |       | h m                        | h m   | °   | h m     | °    | h m   | °   | h m                      |
| 2024           | Jan | 01 | (Mon) | 06:17                      | 06:40 | 114 | 12:14   | 51S  | 17:48 | 246 | 18:11                    |
| 2024           | Jan | 02 | (Tue) | 06:17                      | 06:41 | 114 | 12:15   | 51S  | 17:48 | 246 | 18:12                    |
| 2024           | Jan | 03 | (Wed) | 06:18                      | 06:41 | 114 | 12:15   | 51S  | 17:49 | 246 | 18:12                    |
| 2024           | Jan | 04 | (Thu) | 06:18                      | 06:41 | 114 | 12:15   | 51S  | 17:50 | 246 | 18:13                    |
| 2024           | Jan | 05 | (Fri) | 06:18                      | 06:42 | 114 | 12:16   | 51S  | 17:50 | 247 | 18:14                    |
| 2024           | Jan | 06 | (Sat) | 06:19                      | 06:42 | 113 | 12:16   | 51S  | 17:51 | 247 | 18:14                    |
| 2024           | Jan | 07 | (Sun) | 06:19                      | 06:42 | 113 | 12:17   | 51S  | 17:51 | 247 | 18:15                    |
| 2024           | Jan | 08 | (Mon) | 06:19                      | 06:42 | 113 | 12:17   | 51S  | 17:52 | 247 | 18:15                    |
| 2024           | Jan | 09 | (Tue) | 06:19                      | 06:43 | 113 | 12:18   | 51S  | 17:53 | 247 | 18:16                    |
| 2024           | Jan | 10 | (Wed) | 06:20                      | 06:43 | 113 | 12:18   | 52S  | 17:53 | 247 | 18:17                    |
| 2024           | Jan | 11 | (Thu) | 06:20                      | 06:43 | 113 | 12:18   | 52S  | 17:54 | 247 | 18:17                    |
| 2024           | Jan | 12 | (Fri) | 06:20                      | 06:43 | 113 | 12:19   | 52S  | 17:55 | 248 | 18:18                    |
| 2024           | Jan | 13 | (Sat) | 06:20                      | 06:43 | 112 | 12:19   | 52S  | 17:55 | 248 | 18:18                    |
| 2024           | Jan | 14 | (Sun) | 06:20                      | 06:44 | 112 | 12:20   | 52S  | 17:56 | 248 | 18:19                    |
| 2024           | Jan | 15 | (Mon) | 06:21                      | 06:44 | 112 | 12:20   | 52S  | 17:56 | 248 | 18:20                    |
| 2024           | Jan | 16 | (Tue) | 06:21                      | 06:44 | 112 | 12:20   | 53S  | 17:57 | 248 | 18:20                    |
| 2024           | Jan | 17 | (Wed) | 06:21                      | 06:44 | 112 | 12:21   | 53S  | 17:58 | 248 | 18:21                    |
| 2024           | Jan | 18 | (Thu) | 06:21                      | 06:44 | 111 | 12:21   | 53S  | 17:58 | 249 | 18:21                    |
| 2024           | Jan | 19 | (Fri) | 06:21                      | 06:44 | 111 | 12:21   | 53S  | 17:59 | 249 | 18:22                    |
| 2024           | Jan | 20 | (Sat) | 06:21                      | 06:44 | 111 | 12:22   | 53S  | 17:59 | 249 | 18:22                    |
| 2024           | Jan | 21 | (Sun) | 06:21                      | 06:44 | 111 | 12:22   | 54S  | 18:00 | 249 | 18:23                    |
| 2024           | Jan | 22 | (Mon) | 06:21                      | 06:44 | 111 | 12:22   | 54S  | 18:01 | 250 | 18:24                    |
| 2024           | Jan | 23 | (Tue) | 06:21                      | 06:44 | 110 | 12:22   | 54S  | 18:01 | 250 | 18:24                    |
| 2024           | Jan | 24 | (Wed) | 06:21                      | 06:44 | 110 | 12:23   | 54S  | 18:02 | 250 | 18:25                    |
| 2024           | Jan | 25 | (Thu) | 06:21                      | 06:44 | 110 | 12:23   | 54S  | 18:02 | 250 | 18:25                    |
| 2024           | Jan | 26 | (Fri) | 06:21                      | 06:44 | 110 | 12:23   | 55S  | 18:03 | 251 | 18:26                    |
| 2024           | Jan | 27 | (Sat) | 06:21                      | 06:44 | 109 | 12:23   | 55S  | 18:03 | 251 | 18:26                    |
| 2024           | Jan | 28 | (Sun) | 06:21                      | 06:43 | 109 | 12:24   | 55S  | 18:04 | 251 | 18:27                    |
| 2024           | Jan | 29 | (Mon) | 06:21                      | 06:43 | 109 | 12:24   | 55S  | 18:05 | 251 | 18:27                    |
| 2024           | Jan | 30 | (Tue) | 06:20                      | 06:43 | 108 | 12:24   | 56S  | 18:05 | 252 | 18:28                    |
| 2024           | Jan | 31 | (Wed) | 06:20                      | 06:43 | 108 | 12:24   | 56S  | 18:06 | 252 | 18:28                    |
| 2024           | Feb | 01 | (Thu) | 06:20                      | 06:43 | 108 | 12:24   | 56S  | 18:06 | 252 | 18:29                    |
| 2024           | Feb | 02 | (Fri) | 06:20                      | 06:42 | 108 | 12:24   | 57S  | 18:07 | 253 | 18:29                    |
| 2024           | Feb | 03 | (Sat) | 06:20                      | 06:42 | 107 | 12:25   | 57S  | 18:07 | 253 | 18:30                    |
| 2024           | Feb | 04 | (Sun) | 06:19                      | 06:42 | 107 | 12:25   | 57S  | 18:08 | 253 | 18:30                    |
| 2024           | Feb | 05 | (Mon) | 06:19                      | 06:42 | 107 | 12:25   | 57S  | 18:08 | 253 | 18:31                    |
| 2024           | Feb | 06 | (Tue) | 06:19                      | 06:41 | 106 | 12:25   | 58S  | 18:09 | 254 | 18:31                    |
| 2024           | Feb | 07 | (Wed) | 06:19                      | 06:41 | 106 | 12:25   | 58S  | 18:09 | 254 | 18:31                    |
| 2024           | Feb | 08 | (Thu) | 06:18                      | 06:41 | 106 | 12:25   | 58S  | 18:10 | 254 | 18:32                    |
| 2024           | Feb | 09 | (Fri) | 06:18                      | 06:40 | 105 | 12:25   | 59S  | 18:10 | 255 | 18:32                    |
| 2024           | Feb | 10 | (Sat) | 06:18                      | 06:40 | 105 | 12:25   | 59S  | 18:10 | 255 | 18:33                    |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Feb | 11 | (Sun) | 06:17 | 06:39 | 105 | 12:25 | 59S | 18:11 | 255 | 18:33 |
| 2024 | Feb | 12 | (Mon) | 06:17 | 06:39 | 104 | 12:25 | 60S | 18:11 | 256 | 18:34 |
| 2024 | Feb | 13 | (Tue) | 06:16 | 06:39 | 104 | 12:25 | 60S | 18:12 | 256 | 18:34 |
| 2024 | Feb | 14 | (Wed) | 06:16 | 06:38 | 104 | 12:25 | 60S | 18:12 | 257 | 18:34 |
| 2024 | Feb | 15 | (Thu) | 06:16 | 06:38 | 103 | 12:25 | 61S | 18:13 | 257 | 18:35 |
| 2024 | Feb | 16 | (Fri) | 06:15 | 06:37 | 103 | 12:25 | 61S | 18:13 | 257 | 18:35 |
| 2024 | Feb | 17 | (Sat) | 06:15 | 06:37 | 103 | 12:25 | 61S | 18:13 | 258 | 18:35 |
| 2024 | Feb | 18 | (Sun) | 06:14 | 06:36 | 102 | 12:25 | 62S | 18:14 | 258 | 18:36 |
| 2024 | Feb | 19 | (Mon) | 06:14 | 06:36 | 102 | 12:25 | 62S | 18:14 | 258 | 18:36 |
| 2024 | Feb | 20 | (Tue) | 06:13 | 06:35 | 101 | 12:25 | 62S | 18:14 | 259 | 18:36 |
| 2024 | Feb | 21 | (Wed) | 06:13 | 06:35 | 101 | 12:25 | 63S | 18:15 | 259 | 18:37 |
| 2024 | Feb | 22 | (Thu) | 06:12 | 06:34 | 101 | 12:24 | 63S | 18:15 | 259 | 18:37 |
| 2024 | Feb | 23 | (Fri) | 06:11 | 06:33 | 100 | 12:24 | 64S | 18:15 | 260 | 18:37 |
| 2024 | Feb | 24 | (Sat) | 06:11 | 06:33 | 100 | 12:24 | 64S | 18:16 | 260 | 18:38 |
| 2024 | Feb | 25 | (Sun) | 06:10 | 06:32 | 100 | 12:24 | 64S | 18:16 | 261 | 18:38 |
| 2024 | Feb | 26 | (Mon) | 06:10 | 06:32 | 99  | 12:24 | 65S | 18:16 | 261 | 18:38 |
| 2024 | Feb | 27 | (Tue) | 06:09 | 06:31 | 99  | 12:24 | 65S | 18:17 | 261 | 18:38 |
| 2024 | Feb | 28 | (Wed) | 06:08 | 06:30 | 98  | 12:24 | 65S | 18:17 | 262 | 18:39 |
| 2024 | Feb | 29 | (Thu) | 06:08 | 06:30 | 98  | 12:23 | 66S | 18:17 | 262 | 18:39 |
| 2024 | Mar | 01 | (Fri) | 06:07 | 06:29 | 98  | 12:23 | 66S | 18:18 | 263 | 18:39 |
| 2024 | Mar | 02 | (Sat) | 06:07 | 06:28 | 97  | 12:23 | 67S | 18:18 | 263 | 18:40 |
| 2024 | Mar | 03 | (Sun) | 06:06 | 06:28 | 97  | 12:23 | 67S | 18:18 | 263 | 18:40 |
| 2024 | Mar | 04 | (Mon) | 06:05 | 06:27 | 96  | 12:23 | 67S | 18:18 | 264 | 18:40 |
| 2024 | Mar | 05 | (Tue) | 06:05 | 06:26 | 96  | 12:22 | 68S | 18:19 | 264 | 18:40 |
| 2024 | Mar | 06 | (Wed) | 06:04 | 06:26 | 96  | 12:22 | 68S | 18:19 | 265 | 18:41 |
| 2024 | Mar | 07 | (Thu) | 06:03 | 06:25 | 95  | 12:22 | 68S | 18:19 | 265 | 18:41 |
| 2024 | Mar | 08 | (Fri) | 06:02 | 06:24 | 95  | 12:22 | 69S | 18:19 | 265 | 18:41 |
| 2024 | Mar | 09 | (Sat) | 06:02 | 06:23 | 94  | 12:21 | 69S | 18:20 | 266 | 18:41 |
| 2024 | Mar | 10 | (Sun) | 06:01 | 06:23 | 94  | 12:21 | 70S | 18:20 | 266 | 18:41 |
| 2024 | Mar | 11 | (Mon) | 06:00 | 06:22 | 94  | 12:21 | 70S | 18:20 | 267 | 18:42 |
| 2024 | Mar | 12 | (Tue) | 05:59 | 06:21 | 93  | 12:21 | 70S | 18:20 | 267 | 18:42 |
| 2024 | Mar | 13 | (Wed) | 05:59 | 06:20 | 93  | 12:20 | 71S | 18:20 | 268 | 18:42 |
| 2024 | Mar | 14 | (Thu) | 05:58 | 06:20 | 92  | 12:20 | 71S | 18:21 | 268 | 18:42 |
| 2024 | Mar | 15 | (Fri) | 05:57 | 06:19 | 92  | 12:20 | 72S | 18:21 | 268 | 18:42 |
| 2024 | Mar | 16 | (Sat) | 05:56 | 06:18 | 91  | 12:19 | 72S | 18:21 | 269 | 18:43 |
| 2024 | Mar | 17 | (Sun) | 05:56 | 06:17 | 91  | 12:19 | 72S | 18:21 | 269 | 18:43 |
| 2024 | Mar | 18 | (Mon) | 05:55 | 06:17 | 91  | 12:19 | 73S | 18:21 | 270 | 18:43 |
| 2024 | Mar | 19 | (Tue) | 05:54 | 06:16 | 90  | 12:19 | 73S | 18:22 | 270 | 18:43 |
| 2024 | Mar | 20 | (Wed) | 05:53 | 06:15 | 90  | 12:18 | 74S | 18:22 | 270 | 18:43 |
| 2024 | Mar | 21 | (Thu) | 05:53 | 06:14 | 89  | 12:18 | 74S | 18:22 | 271 | 18:44 |
| 2024 | Mar | 22 | (Fri) | 05:52 | 06:13 | 89  | 12:18 | 74S | 18:22 | 271 | 18:44 |
| 2024 | Mar | 23 | (Sat) | 05:51 | 06:13 | 89  | 12:17 | 75S | 18:22 | 272 | 18:44 |
| 2024 | Mar | 24 | (Sun) | 05:50 | 06:12 | 88  | 12:17 | 75S | 18:23 | 272 | 18:44 |
| 2024 | Mar | 25 | (Mon) | 05:49 | 06:11 | 88  | 12:17 | 76S | 18:23 | 272 | 18:44 |
| 2024 | Mar | 26 | (Tue) | 05:49 | 06:10 | 87  | 12:16 | 76S | 18:23 | 273 | 18:45 |
| 2024 | Mar | 27 | (Wed) | 05:48 | 06:09 | 87  | 12:16 | 76S | 18:23 | 273 | 18:45 |
| 2024 | Mar | 28 | (Thu) | 05:47 | 06:09 | 87  | 12:16 | 77S | 18:23 | 274 | 18:45 |
| 2024 | Mar | 29 | (Fri) | 05:46 | 06:08 | 86  | 12:16 | 77S | 18:24 | 274 | 18:45 |
| 2024 | Mar | 30 | (Sat) | 05:45 | 06:07 | 86  | 12:15 | 78S | 18:24 | 275 | 18:45 |
| 2024 | Mar | 31 | (Sun) | 05:45 | 06:06 | 85  | 12:15 | 78S | 18:24 | 275 | 18:46 |
| 2024 | Apr | 01 | (Mon) | 05:44 | 06:06 | 85  | 12:15 | 78S | 18:24 | 275 | 18:46 |
| 2024 | Apr | 02 | (Tue) | 05:43 | 06:05 | 84  | 12:14 | 79S | 18:24 | 276 | 18:46 |
| 2024 | Apr | 03 | (Wed) | 05:42 | 06:04 | 84  | 12:14 | 79S | 18:24 | 276 | 18:46 |
| 2024 | Apr | 04 | (Thu) | 05:41 | 06:03 | 84  | 12:14 | 79S | 18:25 | 277 | 18:46 |
| 2024 | Apr | 05 | (Fri) | 05:41 | 06:02 | 83  | 12:13 | 80S | 18:25 | 277 | 18:47 |
| 2024 | Apr | 06 | (Sat) | 05:40 | 06:02 | 83  | 12:13 | 80S | 18:25 | 277 | 18:47 |
| 2024 | Apr | 07 | (Sun) | 05:39 | 06:01 | 82  | 12:13 | 81S | 18:25 | 278 | 18:47 |
| 2024 | Apr | 08 | (Mon) | 05:38 | 06:00 | 82  | 12:13 | 81S | 18:25 | 278 | 18:47 |
| 2024 | Apr | 09 | (Tue) | 05:38 | 05:59 | 82  | 12:12 | 81S | 18:26 | 278 | 18:48 |
| 2024 | Apr | 10 | (Wed) | 05:37 | 05:59 | 81  | 12:12 | 82S | 18:26 | 279 | 18:48 |
| 2024 | Apr | 11 | (Thu) | 05:36 | 05:58 | 81  | 12:12 | 82S | 18:26 | 279 | 18:48 |
| 2024 | Apr | 12 | (Fri) | 05:35 | 05:57 | 81  | 12:12 | 82S | 18:26 | 280 | 18:48 |
| 2024 | Apr | 13 | (Sat) | 05:35 | 05:57 | 80  | 12:11 | 83S | 18:26 | 280 | 18:48 |
| 2024 | Apr | 14 | (Sun) | 05:34 | 05:56 | 80  | 12:11 | 83S | 18:27 | 280 | 18:49 |
| 2024 | Apr | 15 | (Mon) | 05:33 | 05:55 | 79  | 12:11 | 83S | 18:27 | 281 | 18:49 |
| 2024 | Apr | 16 | (Tue) | 05:32 | 05:54 | 79  | 12:11 | 84S | 18:27 | 281 | 18:49 |
| 2024 | Apr | 17 | (Wed) | 05:32 | 05:54 | 79  | 12:10 | 84S | 18:27 | 282 | 18:49 |
| 2024 | Apr | 18 | (Thu) | 05:31 | 05:53 | 78  | 12:10 | 85S | 18:28 | 282 | 18:50 |
| 2024 | Apr | 19 | (Fri) | 05:30 | 05:52 | 78  | 12:10 | 85S | 18:28 | 282 | 18:50 |
| 2024 | Apr | 20 | (Sat) | 05:29 | 05:52 | 78  | 12:10 | 85S | 18:28 | 283 | 18:50 |
| 2024 | Apr | 21 | (Sun) | 05:29 | 05:51 | 77  | 12:10 | 86S | 18:28 | 283 | 18:51 |
| 2024 | Apr | 22 | (Mon) | 05:28 | 05:50 | 77  | 12:09 | 86S | 18:28 | 283 | 18:51 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Apr | 23 | (Tue) | 05:27 | 05:50 | 77 | 12:09 | 86S | 18:29 | 284 | 18:51 |
| 2024 | Apr | 24 | (Wed) | 05:27 | 05:49 | 76 | 12:09 | 87S | 18:29 | 284 | 18:51 |
| 2024 | Apr | 25 | (Thu) | 05:26 | 05:49 | 76 | 12:09 | 87S | 18:29 | 284 | 18:52 |
| 2024 | Apr | 26 | (Fri) | 05:26 | 05:48 | 75 | 12:09 | 87S | 18:30 | 285 | 18:52 |
| 2024 | Apr | 27 | (Sat) | 05:25 | 05:47 | 75 | 12:08 | 88S | 18:30 | 285 | 18:52 |
| 2024 | Apr | 28 | (Sun) | 05:24 | 05:47 | 75 | 12:08 | 88S | 18:30 | 285 | 18:53 |
| 2024 | Apr | 29 | (Mon) | 05:24 | 05:46 | 75 | 12:08 | 88S | 18:30 | 286 | 18:53 |
| 2024 | Apr | 30 | (Tue) | 05:23 | 05:46 | 74 | 12:08 | 88S | 18:31 | 286 | 18:53 |
| 2024 | May | 01 | (Wed) | 05:23 | 05:45 | 74 | 12:08 | 89S | 18:31 | 286 | 18:54 |
| 2024 | May | 02 | (Thu) | 05:22 | 05:45 | 74 | 12:08 | 89S | 18:31 | 287 | 18:54 |
| 2024 | May | 03 | (Fri) | 05:21 | 05:44 | 73 | 12:08 | 89S | 18:32 | 287 | 18:54 |
| 2024 | May | 04 | (Sat) | 05:21 | 05:44 | 73 | 12:08 | 90S | 18:32 | 287 | 18:55 |
| 2024 | May | 05 | (Sun) | 05:20 | 05:43 | 73 | 12:08 | 90S | 18:32 | 288 | 18:55 |
| 2024 | May | 06 | (Mon) | 05:20 | 05:43 | 72 | 12:07 | 90S | 18:32 | 288 | 18:55 |
| 2024 | May | 07 | (Tue) | 05:19 | 05:42 | 72 | 12:07 | 90S | 18:33 | 288 | 18:56 |
| 2024 | May | 08 | (Wed) | 05:19 | 05:42 | 72 | 12:07 | 91N | 18:33 | 288 | 18:56 |
| 2024 | May | 09 | (Thu) | 05:18 | 05:41 | 71 | 12:07 | 90N | 18:33 | 289 | 18:56 |
| 2024 | May | 10 | (Fri) | 05:18 | 05:41 | 71 | 12:07 | 90N | 18:34 | 289 | 18:57 |
| 2024 | May | 11 | (Sat) | 05:18 | 05:41 | 71 | 12:07 | 90N | 18:34 | 289 | 18:57 |
| 2024 | May | 12 | (Sun) | 05:17 | 05:40 | 71 | 12:07 | 90N | 18:34 | 289 | 18:57 |
| 2024 | May | 13 | (Mon) | 05:17 | 05:40 | 70 | 12:07 | 89N | 18:35 | 290 | 18:58 |
| 2024 | May | 14 | (Tue) | 05:16 | 05:40 | 70 | 12:07 | 89N | 18:35 | 290 | 18:58 |
| 2024 | May | 15 | (Wed) | 05:16 | 05:39 | 70 | 12:07 | 89N | 18:35 | 290 | 18:59 |
| 2024 | May | 16 | (Thu) | 05:16 | 05:39 | 70 | 12:07 | 89N | 18:36 | 290 | 18:59 |
| 2024 | May | 17 | (Fri) | 05:15 | 05:39 | 69 | 12:07 | 88N | 18:36 | 291 | 18:59 |
| 2024 | May | 18 | (Sat) | 05:15 | 05:38 | 69 | 12:07 | 88N | 18:36 | 291 | 19:00 |
| 2024 | May | 19 | (Sun) | 05:15 | 05:38 | 69 | 12:07 | 88N | 18:37 | 291 | 19:00 |
| 2024 | May | 20 | (Mon) | 05:14 | 05:38 | 69 | 12:07 | 88N | 18:37 | 291 | 19:01 |
| 2024 | May | 21 | (Tue) | 05:14 | 05:38 | 69 | 12:07 | 88N | 18:38 | 292 | 19:01 |
| 2024 | May | 22 | (Wed) | 05:14 | 05:37 | 68 | 12:08 | 87N | 18:38 | 292 | 19:01 |
| 2024 | May | 23 | (Thu) | 05:14 | 05:37 | 68 | 12:08 | 87N | 18:38 | 292 | 19:02 |
| 2024 | May | 24 | (Fri) | 05:13 | 05:37 | 68 | 12:08 | 87N | 18:39 | 292 | 19:02 |
| 2024 | May | 25 | (Sat) | 05:13 | 05:37 | 68 | 12:08 | 87N | 18:39 | 292 | 19:03 |
| 2024 | May | 26 | (Sun) | 05:13 | 05:37 | 68 | 12:08 | 87N | 18:39 | 293 | 19:03 |
| 2024 | May | 27 | (Mon) | 05:13 | 05:37 | 67 | 12:08 | 86N | 18:40 | 293 | 19:03 |
| 2024 | May | 28 | (Tue) | 05:13 | 05:36 | 67 | 12:08 | 86N | 18:40 | 293 | 19:04 |
| 2024 | May | 29 | (Wed) | 05:13 | 05:36 | 67 | 12:08 | 86N | 18:40 | 293 | 19:04 |
| 2024 | May | 30 | (Thu) | 05:13 | 05:36 | 67 | 12:08 | 86N | 18:41 | 293 | 19:04 |
| 2024 | May | 31 | (Fri) | 05:12 | 05:36 | 67 | 12:09 | 86N | 18:41 | 293 | 19:05 |
| 2024 | Jun | 01 | (Sat) | 05:12 | 05:36 | 67 | 12:09 | 86N | 18:41 | 294 | 19:05 |
| 2024 | Jun | 02 | (Sun) | 05:12 | 05:36 | 66 | 12:09 | 86N | 18:42 | 294 | 19:06 |
| 2024 | Jun | 03 | (Mon) | 05:12 | 05:36 | 66 | 12:09 | 85N | 18:42 | 294 | 19:06 |
| 2024 | Jun | 04 | (Tue) | 05:12 | 05:36 | 66 | 12:09 | 85N | 18:43 | 294 | 19:06 |
| 2024 | Jun | 05 | (Wed) | 05:12 | 05:36 | 66 | 12:09 | 85N | 18:43 | 294 | 19:07 |
| 2024 | Jun | 06 | (Thu) | 05:12 | 05:36 | 66 | 12:10 | 85N | 18:43 | 294 | 19:07 |
| 2024 | Jun | 07 | (Fri) | 05:12 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:07 |
| 2024 | Jun | 08 | (Sat) | 05:12 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:08 |
| 2024 | Jun | 09 | (Sun) | 05:12 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:08 |
| 2024 | Jun | 10 | (Mon) | 05:12 | 05:36 | 66 | 12:10 | 85N | 18:44 | 294 | 19:08 |
| 2024 | Jun | 11 | (Tue) | 05:12 | 05:36 | 65 | 12:11 | 85N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 12 | (Wed) | 05:13 | 05:37 | 65 | 12:11 | 85N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 13 | (Thu) | 05:13 | 05:37 | 65 | 12:11 | 85N | 18:45 | 295 | 19:09 |
| 2024 | Jun | 14 | (Fri) | 05:13 | 05:37 | 65 | 12:11 | 85N | 18:46 | 295 | 19:10 |
| 2024 | Jun | 15 | (Sat) | 05:13 | 05:37 | 65 | 12:11 | 85N | 18:46 | 295 | 19:10 |
| 2024 | Jun | 16 | (Sun) | 05:13 | 05:37 | 65 | 12:12 | 85N | 18:46 | 295 | 19:10 |
| 2024 | Jun | 17 | (Mon) | 05:13 | 05:37 | 65 | 12:12 | 84N | 18:46 | 295 | 19:10 |
| 2024 | Jun | 18 | (Tue) | 05:13 | 05:37 | 65 | 12:12 | 84N | 18:47 | 295 | 19:11 |
| 2024 | Jun | 19 | (Wed) | 05:14 | 05:38 | 65 | 12:12 | 84N | 18:47 | 295 | 19:11 |
| 2024 | Jun | 20 | (Thu) | 05:14 | 05:38 | 65 | 12:13 | 84N | 18:47 | 295 | 19:11 |
| 2024 | Jun | 21 | (Fri) | 05:14 | 05:38 | 65 | 12:13 | 84N | 18:47 | 295 | 19:11 |
| 2024 | Jun | 22 | (Sat) | 05:14 | 05:38 | 65 | 12:13 | 84N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 23 | (Sun) | 05:14 | 05:39 | 65 | 12:13 | 84N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 24 | (Mon) | 05:15 | 05:39 | 65 | 12:13 | 84N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 25 | (Tue) | 05:15 | 05:39 | 65 | 12:14 | 84N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 26 | (Wed) | 05:15 | 05:39 | 65 | 12:14 | 85N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 27 | (Thu) | 05:16 | 05:40 | 65 | 12:14 | 85N | 18:48 | 295 | 19:12 |
| 2024 | Jun | 28 | (Fri) | 05:16 | 05:40 | 65 | 12:14 | 85N | 18:49 | 295 | 19:13 |
| 2024 | Jun | 29 | (Sat) | 05:16 | 05:40 | 65 | 12:14 | 85N | 18:49 | 295 | 19:13 |
| 2024 | Jun | 30 | (Sun) | 05:16 | 05:40 | 65 | 12:15 | 85N | 18:49 | 295 | 19:13 |
| 2024 | Jul | 01 | (Mon) | 05:17 | 05:41 | 65 | 12:15 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 02 | (Tue) | 05:17 | 05:41 | 66 | 12:15 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 03 | (Wed) | 05:17 | 05:41 | 66 | 12:15 | 85N | 18:49 | 294 | 19:13 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Jul | 04 | (Thu) | 05:18 | 05:42 | 66 | 12:15 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 05 | (Fri) | 05:18 | 05:42 | 66 | 12:16 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 06 | (Sat) | 05:18 | 05:42 | 66 | 12:16 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 07 | (Sun) | 05:19 | 05:43 | 66 | 12:16 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 08 | (Mon) | 05:19 | 05:43 | 66 | 12:16 | 85N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 09 | (Tue) | 05:19 | 05:43 | 66 | 12:16 | 86N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 10 | (Wed) | 05:20 | 05:44 | 66 | 12:16 | 86N | 18:49 | 294 | 19:13 |
| 2024 | Jul | 11 | (Thu) | 05:20 | 05:44 | 67 | 12:16 | 86N | 18:49 | 293 | 19:13 |
| 2024 | Jul | 12 | (Fri) | 05:20 | 05:44 | 67 | 12:17 | 86N | 18:49 | 293 | 19:13 |
| 2024 | Jul | 13 | (Sat) | 05:21 | 05:45 | 67 | 12:17 | 86N | 18:49 | 293 | 19:12 |
| 2024 | Jul | 14 | (Sun) | 05:21 | 05:45 | 67 | 12:17 | 86N | 18:49 | 293 | 19:12 |
| 2024 | Jul | 15 | (Mon) | 05:22 | 05:45 | 67 | 12:17 | 86N | 18:48 | 293 | 19:12 |
| 2024 | Jul | 16 | (Tue) | 05:22 | 05:46 | 67 | 12:17 | 87N | 18:48 | 293 | 19:12 |
| 2024 | Jul | 17 | (Wed) | 05:22 | 05:46 | 68 | 12:17 | 87N | 18:48 | 292 | 19:12 |
| 2024 | Jul | 18 | (Thu) | 05:23 | 05:46 | 68 | 12:17 | 87N | 18:48 | 292 | 19:12 |
| 2024 | Jul | 19 | (Fri) | 05:23 | 05:47 | 68 | 12:17 | 87N | 18:48 | 292 | 19:11 |
| 2024 | Jul | 20 | (Sat) | 05:23 | 05:47 | 68 | 12:17 | 87N | 18:48 | 292 | 19:11 |
| 2024 | Jul | 21 | (Sun) | 05:24 | 05:47 | 68 | 12:17 | 88N | 18:47 | 292 | 19:11 |
| 2024 | Jul | 22 | (Mon) | 05:24 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:10 |
| 2024 | Jul | 23 | (Tue) | 05:24 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:10 |
| 2024 | Jul | 24 | (Wed) | 05:25 | 05:48 | 69 | 12:17 | 88N | 18:47 | 291 | 19:10 |
| 2024 | Jul | 25 | (Thu) | 05:25 | 05:48 | 69 | 12:17 | 88N | 18:46 | 291 | 19:09 |
| 2024 | Jul | 26 | (Fri) | 05:26 | 05:49 | 69 | 12:17 | 89N | 18:46 | 290 | 19:09 |
| 2024 | Jul | 27 | (Sat) | 05:26 | 05:49 | 70 | 12:17 | 89N | 18:46 | 290 | 19:09 |
| 2024 | Jul | 28 | (Sun) | 05:26 | 05:49 | 70 | 12:17 | 89N | 18:45 | 290 | 19:08 |
| 2024 | Jul | 29 | (Mon) | 05:27 | 05:50 | 70 | 12:17 | 89N | 18:45 | 290 | 19:08 |
| 2024 | Jul | 30 | (Tue) | 05:27 | 05:50 | 70 | 12:17 | 89N | 18:44 | 289 | 19:08 |
| 2024 | Jul | 31 | (Wed) | 05:27 | 05:50 | 71 | 12:17 | 90N | 18:44 | 289 | 19:07 |
| 2024 | Aug | 01 | (Thu) | 05:28 | 05:51 | 71 | 12:17 | 90N | 18:44 | 289 | 19:07 |
| 2024 | Aug | 02 | (Fri) | 05:28 | 05:51 | 71 | 12:17 | 90N | 18:43 | 289 | 19:06 |
| 2024 | Aug | 03 | (Sat) | 05:28 | 05:51 | 71 | 12:17 | 91N | 18:43 | 288 | 19:06 |
| 2024 | Aug | 04 | (Sun) | 05:29 | 05:51 | 72 | 12:17 | 91S | 18:42 | 288 | 19:05 |
| 2024 | Aug | 05 | (Mon) | 05:29 | 05:52 | 72 | 12:17 | 90S | 18:42 | 288 | 19:05 |
| 2024 | Aug | 06 | (Tue) | 05:29 | 05:52 | 72 | 12:17 | 90S | 18:41 | 288 | 19:04 |
| 2024 | Aug | 07 | (Wed) | 05:29 | 05:52 | 73 | 12:17 | 90S | 18:41 | 287 | 19:04 |
| 2024 | Aug | 08 | (Thu) | 05:30 | 05:53 | 73 | 12:17 | 90S | 18:40 | 287 | 19:03 |
| 2024 | Aug | 09 | (Fri) | 05:30 | 05:53 | 73 | 12:16 | 89S | 18:40 | 287 | 19:02 |
| 2024 | Aug | 10 | (Sat) | 05:30 | 05:53 | 74 | 12:16 | 89S | 18:39 | 286 | 19:02 |
| 2024 | Aug | 11 | (Sun) | 05:31 | 05:53 | 74 | 12:16 | 89S | 18:39 | 286 | 19:01 |
| 2024 | Aug | 12 | (Mon) | 05:31 | 05:54 | 74 | 12:16 | 88S | 18:38 | 286 | 19:01 |
| 2024 | Aug | 13 | (Tue) | 05:31 | 05:54 | 74 | 12:16 | 88S | 18:37 | 285 | 19:00 |
| 2024 | Aug | 14 | (Wed) | 05:31 | 05:54 | 75 | 12:16 | 88S | 18:37 | 285 | 18:59 |
| 2024 | Aug | 15 | (Thu) | 05:32 | 05:54 | 75 | 12:15 | 87S | 18:36 | 285 | 18:59 |
| 2024 | Aug | 16 | (Fri) | 05:32 | 05:54 | 75 | 12:15 | 87S | 18:36 | 284 | 18:58 |
| 2024 | Aug | 17 | (Sat) | 05:32 | 05:55 | 76 | 12:15 | 87S | 18:35 | 284 | 18:57 |
| 2024 | Aug | 18 | (Sun) | 05:32 | 05:55 | 76 | 12:15 | 86S | 18:34 | 284 | 18:57 |
| 2024 | Aug | 19 | (Mon) | 05:33 | 05:55 | 76 | 12:14 | 86S | 18:34 | 283 | 18:56 |
| 2024 | Aug | 20 | (Tue) | 05:33 | 05:55 | 77 | 12:14 | 86S | 18:33 | 283 | 18:55 |
| 2024 | Aug | 21 | (Wed) | 05:33 | 05:55 | 77 | 12:14 | 85S | 18:32 | 283 | 18:55 |
| 2024 | Aug | 22 | (Thu) | 05:33 | 05:56 | 77 | 12:14 | 85S | 18:32 | 282 | 18:54 |
| 2024 | Aug | 23 | (Fri) | 05:34 | 05:56 | 78 | 12:13 | 85S | 18:31 | 282 | 18:53 |
| 2024 | Aug | 24 | (Sat) | 05:34 | 05:56 | 78 | 12:13 | 84S | 18:30 | 282 | 18:52 |
| 2024 | Aug | 25 | (Sun) | 05:34 | 05:56 | 79 | 12:13 | 84S | 18:29 | 281 | 18:52 |
| 2024 | Aug | 26 | (Mon) | 05:34 | 05:56 | 79 | 12:13 | 84S | 18:29 | 281 | 18:51 |
| 2024 | Aug | 27 | (Tue) | 05:34 | 05:56 | 79 | 12:12 | 83S | 18:28 | 281 | 18:50 |
| 2024 | Aug | 28 | (Wed) | 05:35 | 05:57 | 80 | 12:12 | 83S | 18:27 | 280 | 18:49 |
| 2024 | Aug | 29 | (Thu) | 05:35 | 05:57 | 80 | 12:12 | 83S | 18:26 | 280 | 18:49 |
| 2024 | Aug | 30 | (Fri) | 05:35 | 05:57 | 80 | 12:11 | 82S | 18:26 | 279 | 18:48 |
| 2024 | Aug | 31 | (Sat) | 05:35 | 05:57 | 81 | 12:11 | 82S | 18:25 | 279 | 18:47 |
| 2024 | Sep | 01 | (Sun) | 05:35 | 05:57 | 81 | 12:11 | 82S | 18:24 | 279 | 18:46 |
| 2024 | Sep | 02 | (Mon) | 05:35 | 05:57 | 82 | 12:10 | 81S | 18:23 | 278 | 18:45 |
| 2024 | Sep | 03 | (Tue) | 05:36 | 05:57 | 82 | 12:10 | 81S | 18:23 | 278 | 18:44 |
| 2024 | Sep | 04 | (Wed) | 05:36 | 05:58 | 82 | 12:10 | 81S | 18:22 | 277 | 18:44 |
| 2024 | Sep | 05 | (Thu) | 05:36 | 05:58 | 83 | 12:09 | 80S | 18:21 | 277 | 18:43 |
| 2024 | Sep | 06 | (Fri) | 05:36 | 05:58 | 83 | 12:09 | 80S | 18:20 | 277 | 18:42 |
| 2024 | Sep | 07 | (Sat) | 05:36 | 05:58 | 83 | 12:09 | 79S | 18:19 | 276 | 18:41 |
| 2024 | Sep | 08 | (Sun) | 05:36 | 05:58 | 84 | 12:08 | 79S | 18:19 | 276 | 18:40 |
| 2024 | Sep | 09 | (Mon) | 05:36 | 05:58 | 84 | 12:08 | 79S | 18:18 | 276 | 18:40 |
| 2024 | Sep | 10 | (Tue) | 05:37 | 05:58 | 85 | 12:08 | 78S | 18:17 | 275 | 18:39 |
| 2024 | Sep | 11 | (Wed) | 05:37 | 05:59 | 85 | 12:07 | 78S | 18:16 | 275 | 18:38 |
| 2024 | Sep | 12 | (Thu) | 05:37 | 05:59 | 85 | 12:07 | 78S | 18:15 | 274 | 18:37 |
| 2024 | Sep | 13 | (Fri) | 05:37 | 05:59 | 86 | 12:07 | 77S | 18:14 | 274 | 18:36 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Sep | 14 | (Sat) | 05:37 | 05:59 | 86  | 12:06 | 77S | 18:14 | 274 | 18:35 |
| 2024 | Sep | 15 | (Sun) | 05:37 | 05:59 | 87  | 12:06 | 76S | 18:13 | 273 | 18:34 |
| 2024 | Sep | 16 | (Mon) | 05:37 | 05:59 | 87  | 12:06 | 76S | 18:12 | 273 | 18:34 |
| 2024 | Sep | 17 | (Tue) | 05:38 | 05:59 | 87  | 12:05 | 76S | 18:11 | 272 | 18:33 |
| 2024 | Sep | 18 | (Wed) | 05:38 | 05:59 | 88  | 12:05 | 75S | 18:10 | 272 | 18:32 |
| 2024 | Sep | 19 | (Thu) | 05:38 | 05:59 | 88  | 12:05 | 75S | 18:09 | 272 | 18:31 |
| 2024 | Sep | 20 | (Fri) | 05:38 | 06:00 | 89  | 12:04 | 74S | 18:09 | 271 | 18:30 |
| 2024 | Sep | 21 | (Sat) | 05:38 | 06:00 | 89  | 12:04 | 74S | 18:08 | 271 | 18:29 |
| 2024 | Sep | 22 | (Sun) | 05:38 | 06:00 | 90  | 12:04 | 74S | 18:07 | 270 | 18:29 |
| 2024 | Sep | 23 | (Mon) | 05:38 | 06:00 | 90  | 12:03 | 73S | 18:06 | 270 | 18:28 |
| 2024 | Sep | 24 | (Tue) | 05:38 | 06:00 | 90  | 12:03 | 73S | 18:05 | 269 | 18:27 |
| 2024 | Sep | 25 | (Wed) | 05:39 | 06:00 | 91  | 12:02 | 73S | 18:04 | 269 | 18:26 |
| 2024 | Sep | 26 | (Thu) | 05:39 | 06:00 | 91  | 12:02 | 72S | 18:04 | 269 | 18:25 |
| 2024 | Sep | 27 | (Fri) | 05:39 | 06:01 | 92  | 12:02 | 72S | 18:03 | 268 | 18:24 |
| 2024 | Sep | 28 | (Sat) | 05:39 | 06:01 | 92  | 12:01 | 71S | 18:02 | 268 | 18:24 |
| 2024 | Sep | 29 | (Sun) | 05:39 | 06:01 | 92  | 12:01 | 71S | 18:01 | 267 | 18:23 |
| 2024 | Sep | 30 | (Mon) | 05:39 | 06:01 | 93  | 12:01 | 71S | 18:00 | 267 | 18:22 |
| 2024 | Oct | 01 | (Tue) | 05:39 | 06:01 | 93  | 12:00 | 70S | 18:00 | 267 | 18:21 |
| 2024 | Oct | 02 | (Wed) | 05:40 | 06:01 | 94  | 12:00 | 70S | 17:59 | 266 | 18:20 |
| 2024 | Oct | 03 | (Thu) | 05:40 | 06:01 | 94  | 12:00 | 69S | 17:58 | 266 | 18:20 |
| 2024 | Oct | 04 | (Fri) | 05:40 | 06:02 | 94  | 12:00 | 69S | 17:57 | 265 | 18:19 |
| 2024 | Oct | 05 | (Sat) | 05:40 | 06:02 | 95  | 11:59 | 69S | 17:56 | 265 | 18:18 |
| 2024 | Oct | 06 | (Sun) | 05:40 | 06:02 | 95  | 11:59 | 68S | 17:56 | 265 | 18:17 |
| 2024 | Oct | 07 | (Mon) | 05:40 | 06:02 | 96  | 11:59 | 68S | 17:55 | 264 | 18:17 |
| 2024 | Oct | 08 | (Tue) | 05:41 | 06:02 | 96  | 11:58 | 67S | 17:54 | 264 | 18:16 |
| 2024 | Oct | 09 | (Wed) | 05:41 | 06:03 | 96  | 11:58 | 67S | 17:53 | 263 | 18:15 |
| 2024 | Oct | 10 | (Thu) | 05:41 | 06:03 | 97  | 11:58 | 67S | 17:53 | 263 | 18:14 |
| 2024 | Oct | 11 | (Fri) | 05:41 | 06:03 | 97  | 11:58 | 66S | 17:52 | 263 | 18:14 |
| 2024 | Oct | 12 | (Sat) | 05:41 | 06:03 | 98  | 11:57 | 66S | 17:51 | 262 | 18:13 |
| 2024 | Oct | 13 | (Sun) | 05:42 | 06:03 | 98  | 11:57 | 66S | 17:51 | 262 | 18:12 |
| 2024 | Oct | 14 | (Mon) | 05:42 | 06:04 | 98  | 11:57 | 65S | 17:50 | 261 | 18:12 |
| 2024 | Oct | 15 | (Tue) | 05:42 | 06:04 | 99  | 11:57 | 65S | 17:49 | 261 | 18:11 |
| 2024 | Oct | 16 | (Wed) | 05:42 | 06:04 | 99  | 11:56 | 64S | 17:48 | 261 | 18:10 |
| 2024 | Oct | 17 | (Thu) | 05:42 | 06:04 | 100 | 11:56 | 64S | 17:48 | 260 | 18:10 |
| 2024 | Oct | 18 | (Fri) | 05:43 | 06:05 | 100 | 11:56 | 64S | 17:47 | 260 | 18:09 |
| 2024 | Oct | 19 | (Sat) | 05:43 | 06:05 | 100 | 11:56 | 63S | 17:46 | 260 | 18:08 |
| 2024 | Oct | 20 | (Sun) | 05:43 | 06:05 | 101 | 11:56 | 63S | 17:46 | 259 | 18:08 |
| 2024 | Oct | 21 | (Mon) | 05:43 | 06:05 | 101 | 11:55 | 63S | 17:45 | 259 | 18:07 |
| 2024 | Oct | 22 | (Tue) | 05:44 | 06:06 | 101 | 11:55 | 62S | 17:45 | 258 | 18:07 |
| 2024 | Oct | 23 | (Wed) | 05:44 | 06:06 | 102 | 11:55 | 62S | 17:44 | 258 | 18:06 |
| 2024 | Oct | 24 | (Thu) | 05:44 | 06:06 | 102 | 11:55 | 62S | 17:44 | 258 | 18:06 |
| 2024 | Oct | 25 | (Fri) | 05:45 | 06:07 | 102 | 11:55 | 61S | 17:43 | 257 | 18:05 |
| 2024 | Oct | 26 | (Sat) | 05:45 | 06:07 | 103 | 11:55 | 61S | 17:42 | 257 | 18:05 |
| 2024 | Oct | 27 | (Sun) | 05:45 | 06:07 | 103 | 11:55 | 61S | 17:42 | 257 | 18:04 |
| 2024 | Oct | 28 | (Mon) | 05:45 | 06:08 | 104 | 11:55 | 60S | 17:41 | 256 | 18:04 |
| 2024 | Oct | 29 | (Tue) | 05:46 | 06:08 | 104 | 11:55 | 60S | 17:41 | 256 | 18:03 |
| 2024 | Oct | 30 | (Wed) | 05:46 | 06:08 | 104 | 11:55 | 60S | 17:40 | 256 | 18:03 |
| 2024 | Oct | 31 | (Thu) | 05:47 | 06:09 | 105 | 11:54 | 59S | 17:40 | 255 | 18:02 |
| 2024 | Nov | 01 | (Fri) | 05:47 | 06:09 | 105 | 11:54 | 59S | 17:40 | 255 | 18:02 |
| 2024 | Nov | 02 | (Sat) | 05:47 | 06:10 | 105 | 11:54 | 59S | 17:39 | 255 | 18:01 |
| 2024 | Nov | 03 | (Sun) | 05:48 | 06:10 | 106 | 11:54 | 58S | 17:39 | 254 | 18:01 |
| 2024 | Nov | 04 | (Mon) | 05:48 | 06:10 | 106 | 11:54 | 58S | 17:38 | 254 | 18:01 |
| 2024 | Nov | 05 | (Tue) | 05:48 | 06:11 | 106 | 11:54 | 58S | 17:38 | 254 | 18:00 |
| 2024 | Nov | 06 | (Wed) | 05:49 | 06:11 | 107 | 11:55 | 57S | 17:38 | 253 | 18:00 |
| 2024 | Nov | 07 | (Thu) | 05:49 | 06:12 | 107 | 11:55 | 57S | 17:37 | 253 | 18:00 |
| 2024 | Nov | 08 | (Fri) | 05:50 | 06:12 | 107 | 11:55 | 57S | 17:37 | 253 | 17:59 |
| 2024 | Nov | 09 | (Sat) | 05:50 | 06:13 | 107 | 11:55 | 57S | 17:37 | 252 | 17:59 |
| 2024 | Nov | 10 | (Sun) | 05:50 | 06:13 | 108 | 11:55 | 56S | 17:36 | 252 | 17:59 |
| 2024 | Nov | 11 | (Mon) | 05:51 | 06:14 | 108 | 11:55 | 56S | 17:36 | 252 | 17:59 |
| 2024 | Nov | 12 | (Tue) | 05:51 | 06:14 | 108 | 11:55 | 56S | 17:36 | 252 | 17:59 |
| 2024 | Nov | 13 | (Wed) | 05:52 | 06:15 | 109 | 11:55 | 55S | 17:36 | 251 | 17:58 |
| 2024 | Nov | 14 | (Thu) | 05:52 | 06:15 | 109 | 11:55 | 55S | 17:35 | 251 | 17:58 |
| 2024 | Nov | 15 | (Fri) | 05:53 | 06:16 | 109 | 11:55 | 55S | 17:35 | 251 | 17:58 |
| 2024 | Nov | 16 | (Sat) | 05:53 | 06:16 | 109 | 11:56 | 55S | 17:35 | 250 | 17:58 |
| 2024 | Nov | 17 | (Sun) | 05:54 | 06:17 | 110 | 11:56 | 54S | 17:35 | 250 | 17:58 |
| 2024 | Nov | 18 | (Mon) | 05:54 | 06:17 | 110 | 11:56 | 54S | 17:35 | 250 | 17:58 |
| 2024 | Nov | 19 | (Tue) | 05:55 | 06:18 | 110 | 11:56 | 54S | 17:35 | 250 | 17:58 |
| 2024 | Nov | 20 | (Wed) | 05:55 | 06:18 | 110 | 11:57 | 54S | 17:35 | 249 | 17:58 |
| 2024 | Nov | 21 | (Thu) | 05:56 | 06:19 | 111 | 11:57 | 54S | 17:35 | 249 | 17:58 |
| 2024 | Nov | 22 | (Fri) | 05:56 | 06:19 | 111 | 11:57 | 53S | 17:35 | 249 | 17:58 |
| 2024 | Nov | 23 | (Sat) | 05:57 | 06:20 | 111 | 11:57 | 53S | 17:35 | 249 | 17:58 |
| 2024 | Nov | 24 | (Sun) | 05:57 | 06:20 | 111 | 11:58 | 53S | 17:35 | 249 | 17:58 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Nov | 25 | (Mon) | 05:58 | 06:21 | 112 | 11:58 | 53S | 17:35 | 248 | 17:58 |
| 2024 | Nov | 26 | (Tue) | 05:58 | 06:22 | 112 | 11:58 | 53S | 17:35 | 248 | 17:58 |
| 2024 | Nov | 27 | (Wed) | 05:59 | 06:22 | 112 | 11:59 | 52S | 17:35 | 248 | 17:58 |
| 2024 | Nov | 28 | (Thu) | 06:00 | 06:23 | 112 | 11:59 | 52S | 17:35 | 248 | 17:58 |
| 2024 | Nov | 29 | (Fri) | 06:00 | 06:23 | 112 | 11:59 | 52S | 17:35 | 248 | 17:58 |
| 2024 | Nov | 30 | (Sat) | 06:01 | 06:24 | 112 | 12:00 | 52S | 17:35 | 247 | 17:58 |
| 2024 | Dec | 01 | (Sun) | 06:01 | 06:25 | 113 | 12:00 | 52S | 17:35 | 247 | 17:59 |
| 2024 | Dec | 02 | (Mon) | 06:02 | 06:25 | 113 | 12:00 | 52S | 17:35 | 247 | 17:59 |
| 2024 | Dec | 03 | (Tue) | 06:02 | 06:26 | 113 | 12:01 | 51S | 17:36 | 247 | 17:59 |
| 2024 | Dec | 04 | (Wed) | 06:03 | 06:26 | 113 | 12:01 | 51S | 17:36 | 247 | 17:59 |
| 2024 | Dec | 05 | (Thu) | 06:04 | 06:27 | 113 | 12:02 | 51S | 17:36 | 247 | 18:00 |
| 2024 | Dec | 06 | (Fri) | 06:04 | 06:27 | 113 | 12:02 | 51S | 17:36 | 247 | 18:00 |
| 2024 | Dec | 07 | (Sat) | 06:05 | 06:28 | 113 | 12:02 | 51S | 17:37 | 246 | 18:00 |
| 2024 | Dec | 08 | (Sun) | 06:05 | 06:29 | 114 | 12:03 | 51S | 17:37 | 246 | 18:00 |
| 2024 | Dec | 09 | (Mon) | 06:06 | 06:29 | 114 | 12:03 | 51S | 17:37 | 246 | 18:01 |
| 2024 | Dec | 10 | (Tue) | 06:06 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:01 |
| 2024 | Dec | 11 | (Wed) | 06:07 | 06:30 | 114 | 12:04 | 51S | 17:38 | 246 | 18:01 |
| 2024 | Dec | 12 | (Thu) | 06:07 | 06:31 | 114 | 12:05 | 50S | 17:38 | 246 | 18:02 |
| 2024 | Dec | 13 | (Fri) | 06:08 | 06:32 | 114 | 12:05 | 50S | 17:39 | 246 | 18:02 |
| 2024 | Dec | 14 | (Sat) | 06:09 | 06:32 | 114 | 12:06 | 50S | 17:39 | 246 | 18:03 |
| 2024 | Dec | 15 | (Sun) | 06:09 | 06:33 | 114 | 12:06 | 50S | 17:39 | 246 | 18:03 |
| 2024 | Dec | 16 | (Mon) | 06:10 | 06:33 | 114 | 12:07 | 50S | 17:40 | 246 | 18:03 |
| 2024 | Dec | 17 | (Tue) | 06:10 | 06:34 | 114 | 12:07 | 50S | 17:40 | 246 | 18:04 |
| 2024 | Dec | 18 | (Wed) | 06:11 | 06:34 | 114 | 12:08 | 50S | 17:41 | 246 | 18:04 |
| 2024 | Dec | 19 | (Thu) | 06:11 | 06:35 | 114 | 12:08 | 50S | 17:41 | 246 | 18:05 |
| 2024 | Dec | 20 | (Fri) | 06:12 | 06:35 | 114 | 12:09 | 50S | 17:42 | 246 | 18:05 |
| 2024 | Dec | 21 | (Sat) | 06:12 | 06:36 | 114 | 12:09 | 50S | 17:42 | 246 | 18:06 |
| 2024 | Dec | 22 | (Sun) | 06:13 | 06:36 | 114 | 12:10 | 50S | 17:43 | 246 | 18:06 |
| 2024 | Dec | 23 | (Mon) | 06:13 | 06:37 | 114 | 12:10 | 50S | 17:43 | 246 | 18:07 |
| 2024 | Dec | 24 | (Tue) | 06:14 | 06:37 | 114 | 12:11 | 50S | 17:44 | 246 | 18:07 |
| 2024 | Dec | 25 | (Wed) | 06:14 | 06:38 | 114 | 12:11 | 50S | 17:44 | 246 | 18:08 |
| 2024 | Dec | 26 | (Thu) | 06:15 | 06:38 | 114 | 12:12 | 50S | 17:45 | 246 | 18:08 |
| 2024 | Dec | 27 | (Fri) | 06:15 | 06:39 | 114 | 12:12 | 50S | 17:45 | 246 | 18:09 |
| 2024 | Dec | 28 | (Sat) | 06:16 | 06:39 | 114 | 12:12 | 50S | 17:46 | 246 | 18:09 |
| 2024 | Dec | 29 | (Sun) | 06:16 | 06:39 | 114 | 12:13 | 50S | 17:47 | 246 | 18:10 |
| 2024 | Dec | 30 | (Mon) | 06:16 | 06:40 | 114 | 12:13 | 50S | 17:47 | 246 | 18:11 |
| 2024 | Dec | 31 | (Tue) | 06:17 | 06:40 | 114 | 12:14 | 50S | 17:48 | 246 | 18:11 |

# Moon

Nong Bua Lam Phu  
Location: E102°16'58.8", N17°09'50.4", 0m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone)    | Rise Az. |     |   | Transit Alt. |     |   | Set Az. |     |   |
|-------------------|----------|-----|---|--------------|-----|---|---------|-----|---|
|                   | h        | m   | ° | h            | m   | ° | h       | m   | ° |
| 2024 Jan 01 (Mon) | 22:21    | 80  |   | 04:02        | 87S |   | 10:27   | 282 |   |
| 2024 Jan 02 (Tue) | 23:07    | 86  |   | 04:42        | 81S |   | 11:00   | 277 |   |
| 2024 Jan 03 (Wed) | 23:54    | 92  |   | 05:21        | 76S |   | 11:32   | 271 |   |
| 2024 Jan 04 (Thu) |          |     |   | 06:00        | 70S |   | 12:04   | 265 |   |
| 2024 Jan 05 (Fri) | 00:41    | 98  |   | 06:41        | 64S |   | 12:37   | 259 |   |
| 2024 Jan 06 (Sat) | 01:31    | 104 |   | 07:24        | 58S |   | 13:13   | 253 |   |
| 2024 Jan 07 (Sun) | 02:24    | 110 |   | 08:10        | 53S |   | 13:54   | 248 |   |
| 2024 Jan 08 (Mon) | 03:21    | 114 |   | 09:02        | 49S |   | 14:41   | 244 |   |
| 2024 Jan 09 (Tue) | 04:22    | 118 |   | 09:59        | 46S |   | 15:35   | 241 |   |
| 2024 Jan 10 (Wed) | 05:25    | 120 |   | 11:01        | 45S |   | 16:36   | 240 |   |
| 2024 Jan 11 (Thu) | 06:28    | 119 |   | 12:05        | 45S |   | 17:42   | 242 |   |
| 2024 Jan 12 (Fri) | 07:28    | 117 |   | 13:07        | 48S |   | 18:50   | 245 |   |
| 2024 Jan 13 (Sat) | 08:22    | 112 |   | 14:07        | 53S |   | 19:56   | 250 |   |
| 2024 Jan 14 (Sun) | 09:10    | 106 |   | 15:02        | 59S |   | 20:59   | 257 |   |
| 2024 Jan 15 (Mon) | 09:53    | 99  |   | 15:54        | 66S |   | 21:58   | 264 |   |
| 2024 Jan 16 (Tue) | 10:34    | 92  |   | 16:43        | 73S |   | 22:56   | 272 |   |
| 2024 Jan 17 (Wed) | 11:13    | 85  |   | 17:30        | 80S |   | 23:52   | 279 |   |
| 2024 Jan 18 (Thu) | 11:52    | 78  |   | 18:18        | 87S |   |         |     |   |
| 2024 Jan 19 (Fri) | 12:33    | 72  |   | 19:08        | 89N |   | 00:49   | 285 |   |
| 2024 Jan 20 (Sat) | 13:17    | 67  |   | 19:59        | 85N |   | 01:47   | 291 |   |
| 2024 Jan 21 (Sun) | 14:05    | 63  |   | 20:53        | 81N |   | 02:45   | 295 |   |
| 2024 Jan 22 (Mon) | 14:56    | 61  |   | 21:48        | 80N |   | 03:44   | 298 |   |
| 2024 Jan 23 (Tue) | 15:51    | 60  |   | 22:43        | 80N |   | 04:41   | 300 |   |

|      |     |    |       |       |     |       |     |       |     |
|------|-----|----|-------|-------|-----|-------|-----|-------|-----|
| 2024 | Jan | 24 | (Wed) | 16:47 | 62  | 23:37 | 81N | 05:35 | 299 |
| 2024 | Jan | 25 | (Thu) | 17:42 | 64  |       |     | 06:25 | 297 |
| 2024 | Jan | 26 | (Fri) | 18:35 | 68  | 00:27 | 84N | 07:10 | 294 |
| 2024 | Jan | 27 | (Sat) | 19:26 | 73  | 01:14 | 88N | 07:50 | 289 |
| 2024 | Jan | 28 | (Sun) | 20:15 | 78  | 01:58 | 89S | 08:26 | 284 |
| 2024 | Jan | 29 | (Mon) | 21:02 | 84  | 02:39 | 83S | 08:59 | 279 |
| 2024 | Jan | 30 | (Tue) | 21:48 | 90  | 03:19 | 78S | 09:31 | 273 |
| 2024 | Jan | 31 | (Wed) | 22:35 | 96  | 03:57 | 72S | 10:03 | 267 |
| 2024 | Feb | 01 | (Thu) | 23:22 | 102 | 04:37 | 66S | 10:35 | 261 |
| 2024 | Feb | 02 | (Fri) |       |     | 05:18 | 60S | 11:09 | 255 |
| 2024 | Feb | 03 | (Sat) | 00:13 | 108 | 06:02 | 55S | 11:47 | 250 |
| 2024 | Feb | 04 | (Sun) | 01:07 | 113 | 06:50 | 50S | 12:30 | 245 |
| 2024 | Feb | 05 | (Mon) | 02:04 | 117 | 07:43 | 47S | 13:19 | 242 |
| 2024 | Feb | 06 | (Tue) | 03:05 | 119 | 08:41 | 45S | 14:16 | 240 |
| 2024 | Feb | 07 | (Wed) | 04:08 | 120 | 09:43 | 45S | 15:18 | 241 |
| 2024 | Feb | 08 | (Thu) | 05:09 | 118 | 10:46 | 47S | 16:25 | 243 |
| 2024 | Feb | 09 | (Fri) | 06:06 | 115 | 11:48 | 50S | 17:33 | 248 |
| 2024 | Feb | 10 | (Sat) | 06:57 | 109 | 12:46 | 56S | 18:39 | 254 |
| 2024 | Feb | 11 | (Sun) | 07:44 | 103 | 13:41 | 63S | 19:42 | 261 |
| 2024 | Feb | 12 | (Mon) | 08:27 | 95  | 14:33 | 70S | 20:43 | 269 |
| 2024 | Feb | 13 | (Tue) | 09:08 | 88  | 15:23 | 77S | 21:42 | 276 |
| 2024 | Feb | 14 | (Wed) | 09:49 | 80  | 16:13 | 84S | 22:41 | 283 |
| 2024 | Feb | 15 | (Thu) | 10:30 | 74  | 17:03 | 91S | 23:40 | 289 |
| 2024 | Feb | 16 | (Fri) | 11:14 | 68  | 17:55 | 86N |       |     |
| 2024 | Feb | 17 | (Sat) | 12:02 | 64  | 18:49 | 82N | 00:39 | 294 |
| 2024 | Feb | 18 | (Sun) | 12:52 | 61  | 19:44 | 80N | 01:39 | 298 |
| 2024 | Feb | 19 | (Mon) | 13:46 | 60  | 20:39 | 79N | 02:37 | 300 |
| 2024 | Feb | 20 | (Tue) | 14:41 | 61  | 21:33 | 80N | 03:32 | 300 |
| 2024 | Feb | 21 | (Wed) | 15:37 | 63  | 22:24 | 83N | 04:22 | 298 |
| 2024 | Feb | 22 | (Thu) | 16:30 | 67  | 23:11 | 87N | 05:08 | 295 |
| 2024 | Feb | 23 | (Fri) | 17:22 | 71  | 23:56 | 90S | 05:49 | 291 |
| 2024 | Feb | 24 | (Sat) | 18:11 | 76  |       |     | 06:26 | 286 |
| 2024 | Feb | 25 | (Sun) | 18:59 | 82  | 00:38 | 85S | 07:00 | 281 |
| 2024 | Feb | 26 | (Mon) | 19:45 | 88  | 01:17 | 79S | 07:33 | 275 |
| 2024 | Feb | 27 | (Tue) | 20:31 | 94  | 01:56 | 74S | 08:04 | 269 |
| 2024 | Feb | 28 | (Wed) | 21:18 | 100 | 02:35 | 68S | 08:36 | 263 |
| 2024 | Feb | 29 | (Thu) | 22:07 | 106 | 03:15 | 62S | 09:09 | 257 |
| 2024 | Mar | 01 | (Fri) | 22:59 | 111 | 03:58 | 57S | 09:45 | 252 |
| 2024 | Mar | 02 | (Sat) | 23:54 | 115 | 04:43 | 52S | 10:25 | 247 |
| 2024 | Mar | 03 | (Sun) |       |     | 05:33 | 48S | 11:10 | 243 |
| 2024 | Mar | 04 | (Mon) | 00:52 | 118 | 06:28 | 45S | 12:02 | 241 |
| 2024 | Mar | 05 | (Tue) | 01:52 | 120 | 07:26 | 44S | 13:00 | 240 |
| 2024 | Mar | 06 | (Wed) | 02:52 | 119 | 08:27 | 45S | 14:03 | 241 |
| 2024 | Mar | 07 | (Thu) | 03:49 | 117 | 09:28 | 48S | 15:09 | 245 |
| 2024 | Mar | 08 | (Fri) | 04:42 | 113 | 10:27 | 53S | 16:15 | 250 |
| 2024 | Mar | 09 | (Sat) | 05:31 | 106 | 11:23 | 59S | 17:20 | 257 |
| 2024 | Mar | 10 | (Sun) | 06:16 | 99  | 12:17 | 66S | 18:22 | 264 |
| 2024 | Mar | 11 | (Mon) | 06:58 | 92  | 13:09 | 74S | 19:24 | 272 |
| 2024 | Mar | 12 | (Tue) | 07:40 | 84  | 14:00 | 81S | 20:24 | 280 |
| 2024 | Mar | 13 | (Wed) | 08:22 | 77  | 14:52 | 88S | 21:26 | 287 |
| 2024 | Mar | 14 | (Thu) | 09:07 | 70  | 15:45 | 87N | 22:27 | 293 |
| 2024 | Mar | 15 | (Fri) | 09:55 | 65  | 16:40 | 83N | 23:29 | 297 |
| 2024 | Mar | 16 | (Sat) | 10:46 | 62  | 17:37 | 80N |       |     |
| 2024 | Mar | 17 | (Sun) | 11:40 | 60  | 18:33 | 79N | 00:29 | 299 |
| 2024 | Mar | 18 | (Mon) | 12:36 | 60  | 19:28 | 80N | 01:27 | 300 |
| 2024 | Mar | 19 | (Tue) | 13:32 | 62  | 20:21 | 82N | 02:20 | 299 |
| 2024 | Mar | 20 | (Wed) | 14:26 | 65  | 21:09 | 85N | 03:07 | 296 |
| 2024 | Mar | 21 | (Thu) | 15:18 | 70  | 21:54 | 90N | 03:49 | 293 |
| 2024 | Mar | 22 | (Fri) | 16:08 | 75  | 22:37 | 87S | 04:27 | 288 |
| 2024 | Mar | 23 | (Sat) | 16:56 | 80  | 23:17 | 81S | 05:02 | 283 |
| 2024 | Mar | 24 | (Sun) | 17:42 | 86  | 23:56 | 75S | 05:35 | 277 |
| 2024 | Mar | 25 | (Mon) | 18:28 | 92  |       |     | 06:06 | 271 |
| 2024 | Mar | 26 | (Tue) | 19:15 | 98  | 00:35 | 70S | 06:38 | 265 |
| 2024 | Mar | 27 | (Wed) | 20:04 | 104 | 01:15 | 64S | 07:11 | 259 |
| 2024 | Mar | 28 | (Thu) | 20:55 | 110 | 01:56 | 58S | 07:46 | 253 |
| 2024 | Mar | 29 | (Fri) | 21:48 | 114 | 02:41 | 53S | 08:24 | 248 |
| 2024 | Mar | 30 | (Sat) | 22:45 | 118 | 03:29 | 49S | 09:08 | 244 |
| 2024 | Mar | 31 | (Sun) | 23:43 | 120 | 04:21 | 46S | 09:56 | 241 |
| 2024 | Apr | 01 | (Mon) |       |     | 05:17 | 44S | 10:51 | 240 |
| 2024 | Apr | 02 | (Tue) | 00:42 | 120 | 06:16 | 45S | 11:51 | 241 |
| 2024 | Apr | 03 | (Wed) | 01:38 | 118 | 07:15 | 47S | 12:53 | 243 |
| 2024 | Apr | 04 | (Thu) | 02:31 | 115 | 08:13 | 50S | 13:57 | 247 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Apr 05 (Fri) | 03:20 110 | 09:08 56S | 15:00 253 |
| 2024 Apr 06 (Sat) | 04:05 103 | 10:01 62S | 16:02 260 |
| 2024 Apr 07 (Sun) | 04:48 96  | 10:53 70S | 17:03 268 |
| 2024 Apr 08 (Mon) | 05:29 88  | 11:44 77S | 18:03 276 |
| 2024 Apr 09 (Tue) | 06:11 80  | 12:36 85S | 19:05 283 |
| 2024 Apr 10 (Wed) | 06:55 73  | 13:29 90N | 20:08 290 |
| 2024 Apr 11 (Thu) | 07:42 67  | 14:25 85N | 21:11 295 |
| 2024 Apr 12 (Fri) | 08:34 63  | 15:23 81N | 22:15 298 |
| 2024 Apr 13 (Sat) | 09:28 61  | 16:22 79N | 23:16 300 |
| 2024 Apr 14 (Sun) | 10:26 60  | 17:19 79N |           |
| 2024 Apr 15 (Mon) | 11:23 61  | 18:14 81N | 00:12 299 |
| 2024 Apr 16 (Tue) | 12:19 64  | 19:05 84N | 01:03 297 |
| 2024 Apr 17 (Wed) | 13:13 68  | 19:52 88N | 01:47 294 |
| 2024 Apr 18 (Thu) | 14:03 73  | 20:35 89S | 02:27 290 |
| 2024 Apr 19 (Fri) | 14:52 78  | 21:16 83S | 03:03 284 |
| 2024 Apr 20 (Sat) | 15:39 84  | 21:55 78S | 03:36 279 |
| 2024 Apr 21 (Sun) | 16:25 90  | 22:34 72S | 04:08 273 |
| 2024 Apr 22 (Mon) | 17:12 96  | 23:14 66S | 04:39 267 |
| 2024 Apr 23 (Tue) | 18:00 102 | 23:55 60S | 05:12 261 |
| 2024 Apr 24 (Wed) | 18:50 108 |           | 05:46 255 |
| 2024 Apr 25 (Thu) | 19:44 113 | 00:39 55S | 06:24 250 |
| 2024 Apr 26 (Fri) | 20:40 117 | 01:26 50S | 07:06 245 |
| 2024 Apr 27 (Sat) | 21:38 119 | 02:18 47S | 07:53 242 |
| 2024 Apr 28 (Sun) | 22:37 120 | 03:13 45S | 08:47 240 |
| 2024 Apr 29 (Mon) | 23:33 119 | 04:10 44S | 09:44 240 |
| 2024 Apr 30 (Tue) |           | 05:09 46S | 10:46 242 |
| 2024 May 01 (Wed) | 00:26 116 | 06:06 49S | 11:48 246 |
| 2024 May 02 (Thu) | 01:15 112 | 07:00 54S | 12:49 251 |
| 2024 May 03 (Fri) | 02:00 106 | 07:52 60S | 13:49 257 |
| 2024 May 04 (Sat) | 02:42 99  | 08:42 66S | 14:48 265 |
| 2024 May 05 (Sun) | 03:22 91  | 09:32 74S | 15:46 272 |
| 2024 May 06 (Mon) | 04:02 84  | 10:22 81S | 16:46 280 |
| 2024 May 07 (Tue) | 04:44 77  | 11:13 88S | 17:47 287 |
| 2024 May 08 (Wed) | 05:30 70  | 12:08 88N | 18:51 293 |
| 2024 May 09 (Thu) | 06:19 65  | 13:05 83N | 19:55 297 |
| 2024 May 10 (Fri) | 07:13 62  | 14:05 80N | 20:59 299 |
| 2024 May 11 (Sat) | 08:11 60  | 15:05 79N | 21:59 300 |
| 2024 May 12 (Sun) | 09:10 61  | 16:02 80N | 22:53 298 |
| 2024 May 13 (Mon) | 10:08 63  | 16:56 83N | 23:42 295 |
| 2024 May 14 (Tue) | 11:04 66  | 17:46 86N |           |
| 2024 May 15 (Wed) | 11:56 71  | 18:31 90S | 00:24 291 |
| 2024 May 16 (Thu) | 12:46 76  | 19:13 85S | 01:02 286 |
| 2024 May 17 (Fri) | 13:33 82  | 19:53 80S | 01:36 281 |
| 2024 May 18 (Sat) | 14:20 88  | 20:32 74S | 02:08 275 |
| 2024 May 19 (Sun) | 15:06 94  | 21:11 68S | 02:40 269 |
| 2024 May 20 (Mon) | 15:54 100 | 21:51 62S | 03:12 263 |
| 2024 May 21 (Tue) | 16:43 106 | 22:34 57S | 03:45 257 |
| 2024 May 22 (Wed) | 17:36 111 | 23:21 52S | 04:22 252 |
| 2024 May 23 (Thu) | 18:32 115 |           | 05:03 247 |
| 2024 May 24 (Fri) | 19:30 118 | 00:11 48S | 05:49 243 |
| 2024 May 25 (Sat) | 20:30 120 | 01:06 45S | 06:41 241 |
| 2024 May 26 (Sun) | 21:28 119 | 02:04 44S | 07:38 240 |
| 2024 May 27 (Mon) | 22:23 117 | 03:03 45S | 08:39 241 |
| 2024 May 28 (Tue) | 23:13 113 | 04:01 48S | 09:42 245 |
| 2024 May 29 (Wed) | 23:59 107 | 04:57 52S | 10:43 249 |
| 2024 May 30 (Thu) |           | 05:49 58S | 11:43 256 |
| 2024 May 31 (Fri) | 00:40 101 | 06:38 64S | 12:41 262 |
| 2024 Jun 01 (Sat) | 01:20 94  | 07:27 71S | 13:38 270 |
| 2024 Jun 02 (Sun) | 01:59 87  | 08:15 78S | 14:35 277 |
| 2024 Jun 03 (Mon) | 02:39 79  | 09:04 85S | 15:33 284 |
| 2024 Jun 04 (Tue) | 03:22 73  | 09:56 90N | 16:34 290 |
| 2024 Jun 05 (Wed) | 04:08 67  | 10:51 85N | 17:37 295 |
| 2024 Jun 06 (Thu) | 04:59 63  | 11:49 81N | 18:41 298 |
| 2024 Jun 07 (Fri) | 05:55 61  | 12:49 79N | 19:43 300 |
| 2024 Jun 08 (Sat) | 06:54 60  | 13:48 80N | 20:41 299 |
| 2024 Jun 09 (Sun) | 07:54 62  | 14:44 81N | 21:32 297 |
| 2024 Jun 10 (Mon) | 08:52 65  | 15:36 85N | 22:18 293 |
| 2024 Jun 11 (Tue) | 09:46 69  | 16:24 89N | 22:58 288 |
| 2024 Jun 12 (Wed) | 10:38 74  | 17:08 87S | 23:34 283 |
| 2024 Jun 13 (Thu) | 11:27 80  | 17:49 82S |           |
| 2024 Jun 14 (Fri) | 12:13 86  | 18:28 76S | 00:07 277 |
| 2024 Jun 15 (Sat) | 13:00 92  | 19:07 70S | 00:39 271 |

|      |     |    |       |       |     |       |     |       |     |
|------|-----|----|-------|-------|-----|-------|-----|-------|-----|
| 2024 | Jun | 16 | (Sun) | 13:46 | 98  | 19:46 | 64S | 01:10 | 265 |
| 2024 | Jun | 17 | (Mon) | 14:35 | 104 | 20:28 | 59S | 01:43 | 259 |
| 2024 | Jun | 18 | (Tue) | 15:26 | 109 | 21:13 | 54S | 02:18 | 254 |
| 2024 | Jun | 19 | (Wed) | 16:21 | 114 | 22:02 | 49S | 02:57 | 249 |
| 2024 | Jun | 20 | (Thu) | 17:19 | 117 | 22:56 | 46S | 03:41 | 244 |
| 2024 | Jun | 21 | (Fri) | 18:19 | 119 | 23:53 | 45S | 04:31 | 241 |
| 2024 | Jun | 22 | (Sat) | 19:19 | 120 |       |     | 05:28 | 240 |
| 2024 | Jun | 23 | (Sun) | 20:16 | 118 | 00:53 | 45S | 06:29 | 241 |
| 2024 | Jun | 24 | (Mon) | 21:09 | 114 | 01:53 | 47S | 07:33 | 244 |
| 2024 | Jun | 25 | (Tue) | 21:57 | 109 | 02:51 | 51S | 08:36 | 248 |
| 2024 | Jun | 26 | (Wed) | 22:40 | 103 | 03:45 | 56S | 09:37 | 254 |
| 2024 | Jun | 27 | (Thu) | 23:20 | 96  | 04:36 | 62S | 10:36 | 260 |
| 2024 | Jun | 28 | (Fri) | 23:59 | 89  | 05:25 | 69S | 11:33 | 268 |
| 2024 | Jun | 29 | (Sat) |       |     | 06:12 | 76S | 12:30 | 275 |
| 2024 | Jun | 30 | (Sun) | 00:38 | 81  | 07:00 | 83S | 13:27 | 282 |
| 2024 | Jul | 01 | (Mon) | 01:19 | 75  | 07:50 | 90S | 14:26 | 288 |
| 2024 | Jul | 02 | (Tue) | 02:03 | 69  | 08:43 | 86N | 15:26 | 294 |
| 2024 | Jul | 03 | (Wed) | 02:51 | 64  | 09:39 | 82N | 16:29 | 297 |
| 2024 | Jul | 04 | (Thu) | 03:45 | 61  | 10:37 | 80N | 17:30 | 299 |
| 2024 | Jul | 05 | (Fri) | 04:42 | 60  | 11:36 | 79N | 18:29 | 300 |
| 2024 | Jul | 06 | (Sat) | 05:41 | 61  | 12:33 | 81N | 19:23 | 298 |
| 2024 | Jul | 07 | (Sun) | 06:39 | 63  | 13:27 | 83N | 20:11 | 295 |
| 2024 | Jul | 08 | (Mon) | 07:36 | 67  | 14:16 | 87N | 20:53 | 290 |
| 2024 | Jul | 09 | (Tue) | 08:29 | 72  | 15:02 | 89S | 21:31 | 285 |
| 2024 | Jul | 10 | (Wed) | 09:19 | 78  | 15:44 | 84S | 22:05 | 279 |
| 2024 | Jul | 11 | (Thu) | 10:07 | 84  | 16:24 | 78S | 22:38 | 273 |
| 2024 | Jul | 12 | (Fri) | 10:53 | 90  | 17:03 | 72S | 23:09 | 267 |
| 2024 | Jul | 13 | (Sat) | 11:39 | 96  | 17:42 | 66S | 23:41 | 261 |
| 2024 | Jul | 14 | (Sun) | 12:27 | 102 | 18:22 | 61S |       |     |
| 2024 | Jul | 15 | (Mon) | 13:16 | 107 | 19:05 | 56S | 00:15 | 256 |
| 2024 | Jul | 16 | (Tue) | 14:08 | 112 | 19:52 | 51S | 00:51 | 250 |
| 2024 | Jul | 17 | (Wed) | 15:04 | 116 | 20:43 | 47S | 01:33 | 246 |
| 2024 | Jul | 18 | (Thu) | 16:03 | 119 | 21:39 | 45S | 02:20 | 242 |
| 2024 | Jul | 19 | (Fri) | 17:04 | 120 | 22:38 | 44S | 03:13 | 240 |
| 2024 | Jul | 20 | (Sat) | 18:03 | 119 | 23:39 | 46S | 04:13 | 240 |
| 2024 | Jul | 21 | (Sun) | 18:59 | 116 |       |     | 05:17 | 242 |
| 2024 | Jul | 22 | (Mon) | 19:50 | 111 | 00:39 | 49S | 06:22 | 246 |
| 2024 | Jul | 23 | (Tue) | 20:36 | 105 | 01:36 | 54S | 07:26 | 251 |
| 2024 | Jul | 24 | (Wed) | 21:18 | 98  | 02:30 | 60S | 08:27 | 258 |
| 2024 | Jul | 25 | (Thu) | 21:59 | 91  | 03:20 | 67S | 09:26 | 265 |
| 2024 | Jul | 26 | (Fri) | 22:38 | 83  | 04:09 | 74S | 10:24 | 273 |
| 2024 | Jul | 27 | (Sat) | 23:19 | 77  | 04:58 | 81S | 11:22 | 280 |
| 2024 | Jul | 28 | (Sun) |       |     | 05:47 | 88S | 12:21 | 287 |
| 2024 | Jul | 29 | (Mon) | 00:02 | 70  | 06:39 | 88N | 13:20 | 292 |
| 2024 | Jul | 30 | (Tue) | 00:48 | 65  | 07:33 | 83N | 14:22 | 297 |
| 2024 | Jul | 31 | (Wed) | 01:39 | 62  | 08:30 | 80N | 15:23 | 299 |
| 2024 | Aug | 01 | (Thu) | 02:34 | 60  | 09:28 | 79N | 16:22 | 300 |
| 2024 | Aug | 02 | (Fri) | 03:32 | 60  | 10:25 | 80N | 17:17 | 299 |
| 2024 | Aug | 03 | (Sat) | 04:30 | 62  | 11:20 | 82N | 18:06 | 296 |
| 2024 | Aug | 04 | (Sun) | 05:27 | 66  | 12:10 | 86N | 18:50 | 292 |
| 2024 | Aug | 05 | (Mon) | 06:21 | 70  | 12:57 | 90N | 19:29 | 287 |
| 2024 | Aug | 06 | (Tue) | 07:12 | 76  | 13:40 | 86S | 20:04 | 281 |
| 2024 | Aug | 07 | (Wed) | 08:01 | 81  | 14:21 | 80S | 20:37 | 276 |
| 2024 | Aug | 08 | (Thu) | 08:48 | 87  | 15:00 | 74S | 21:09 | 269 |
| 2024 | Aug | 09 | (Fri) | 09:34 | 94  | 15:39 | 68S | 21:40 | 263 |
| 2024 | Aug | 10 | (Sat) | 10:20 | 100 | 16:18 | 63S | 22:13 | 258 |
| 2024 | Aug | 11 | (Sun) | 11:08 | 105 | 17:00 | 57S | 22:48 | 252 |
| 2024 | Aug | 12 | (Mon) | 11:59 | 110 | 17:44 | 53S | 23:26 | 247 |
| 2024 | Aug | 13 | (Tue) | 12:52 | 115 | 18:32 | 49S |       |     |
| 2024 | Aug | 14 | (Wed) | 13:49 | 118 | 19:25 | 46S | 00:10 | 244 |
| 2024 | Aug | 15 | (Thu) | 14:48 | 120 | 20:22 | 44S | 01:00 | 241 |
| 2024 | Aug | 16 | (Fri) | 15:47 | 120 | 21:22 | 45S | 01:56 | 240 |
| 2024 | Aug | 17 | (Sat) | 16:44 | 118 | 22:22 | 47S | 02:57 | 241 |
| 2024 | Aug | 18 | (Sun) | 17:38 | 114 | 23:21 | 51S | 04:02 | 244 |
| 2024 | Aug | 19 | (Mon) | 18:26 | 108 |       |     | 05:07 | 249 |
| 2024 | Aug | 20 | (Tue) | 19:11 | 101 | 00:17 | 57S | 06:11 | 255 |
| 2024 | Aug | 21 | (Wed) | 19:53 | 94  | 01:10 | 64S | 07:12 | 262 |
| 2024 | Aug | 22 | (Thu) | 20:34 | 86  | 02:01 | 71S | 08:13 | 270 |
| 2024 | Aug | 23 | (Fri) | 21:16 | 79  | 02:51 | 79S | 09:12 | 278 |
| 2024 | Aug | 24 | (Sat) | 21:59 | 72  | 03:42 | 86S | 10:12 | 285 |
| 2024 | Aug | 25 | (Sun) | 22:45 | 67  | 04:34 | 89N | 11:14 | 291 |
| 2024 | Aug | 26 | (Mon) | 23:35 | 63  | 05:29 | 84N | 12:16 | 296 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Aug 27 (Tue) |           | 06:25 81N | 13:17 299 |
| 2024 Aug 28 (Wed) | 00:30 60  | 07:23 79N | 14:17 300 |
| 2024 Aug 29 (Thu) | 01:27 60  | 08:20 79N | 15:13 299 |
| 2024 Aug 30 (Fri) | 02:25 61  | 09:15 81N | 16:04 297 |
| 2024 Aug 31 (Sat) | 03:21 64  | 10:07 84N | 16:49 293 |
| 2024 Sep 01 (Sun) | 04:16 69  | 10:54 89N | 17:29 289 |
| 2024 Sep 02 (Mon) | 05:07 74  | 11:38 88S | 18:05 283 |
| 2024 Sep 03 (Tue) | 05:56 79  | 12:19 82S | 18:38 278 |
| 2024 Sep 04 (Wed) | 06:44 85  | 12:59 76S | 19:10 272 |
| 2024 Sep 05 (Thu) | 07:30 91  | 13:37 70S | 19:41 265 |
| 2024 Sep 06 (Fri) | 08:16 98  | 14:16 65S | 20:13 260 |
| 2024 Sep 07 (Sat) | 09:03 103 | 14:57 59S | 20:47 254 |
| 2024 Sep 08 (Sun) | 09:52 109 | 15:40 54S | 21:24 249 |
| 2024 Sep 09 (Mon) | 10:44 113 | 16:26 50S | 22:05 245 |
| 2024 Sep 10 (Tue) | 11:39 117 | 17:15 47S | 22:51 242 |
| 2024 Sep 11 (Wed) | 12:35 119 | 18:09 45S | 23:43 240 |
| 2024 Sep 12 (Thu) | 13:33 120 | 19:06 44S |           |
| 2024 Sep 13 (Fri) | 14:30 119 | 20:05 46S | 00:40 240 |
| 2024 Sep 14 (Sat) | 15:24 116 | 21:03 49S | 01:42 242 |
| 2024 Sep 15 (Sun) | 16:14 111 | 22:00 54S | 02:46 246 |
| 2024 Sep 16 (Mon) | 17:00 105 | 22:54 60S | 03:49 251 |
| 2024 Sep 17 (Tue) | 17:44 98  | 23:46 68S | 04:52 258 |
| 2024 Sep 18 (Wed) | 18:26 90  |           | 05:54 266 |
| 2024 Sep 19 (Thu) | 19:08 82  | 00:38 75S | 06:55 274 |
| 2024 Sep 20 (Fri) | 19:51 75  | 01:30 83S | 07:56 282 |
| 2024 Sep 21 (Sat) | 20:38 69  | 02:23 90S | 08:59 289 |
| 2024 Sep 22 (Sun) | 21:28 64  | 03:19 86N | 10:04 294 |
| 2024 Sep 23 (Mon) | 22:23 61  | 04:17 82N | 11:08 298 |
| 2024 Sep 24 (Tue) | 23:20 60  | 05:16 79N | 12:10 300 |
| 2024 Sep 25 (Wed) |           | 06:15 79N | 13:09 300 |
| 2024 Sep 26 (Thu) | 00:19 61  | 07:11 80N | 14:01 298 |
| 2024 Sep 27 (Fri) | 01:17 63  | 08:04 83N | 14:48 295 |
| 2024 Sep 28 (Sat) | 02:12 67  | 08:52 87N | 15:29 290 |
| 2024 Sep 29 (Sun) | 03:04 72  | 09:37 89S | 16:06 285 |
| 2024 Sep 30 (Mon) | 03:53 77  | 10:19 84S | 16:40 280 |
| 2024 Oct 01 (Tue) | 04:41 83  | 10:58 78S | 17:12 274 |
| 2024 Oct 02 (Wed) | 05:27 89  | 11:37 72S | 17:43 267 |
| 2024 Oct 03 (Thu) | 06:13 96  | 12:16 66S | 18:15 262 |
| 2024 Oct 04 (Fri) | 07:00 102 | 12:56 61S | 18:48 256 |
| 2024 Oct 05 (Sat) | 07:49 107 | 13:38 56S | 19:24 251 |
| 2024 Oct 06 (Sun) | 08:39 112 | 14:23 51S | 20:03 246 |
| 2024 Oct 07 (Mon) | 09:33 116 | 15:11 48S | 20:47 243 |
| 2024 Oct 08 (Tue) | 10:28 119 | 16:03 45S | 21:36 240 |
| 2024 Oct 09 (Wed) | 11:25 120 | 16:58 44S | 22:31 240 |
| 2024 Oct 10 (Thu) | 12:20 120 | 17:54 45S | 23:29 241 |
| 2024 Oct 11 (Fri) | 13:14 118 | 18:51 47S |           |
| 2024 Oct 12 (Sat) | 14:03 114 | 19:46 51S | 00:30 244 |
| 2024 Oct 13 (Sun) | 14:50 108 | 20:39 57S | 01:31 249 |
| 2024 Oct 14 (Mon) | 15:33 102 | 21:31 64S | 02:33 255 |
| 2024 Oct 15 (Tue) | 16:15 94  | 22:22 71S | 03:33 262 |
| 2024 Oct 16 (Wed) | 16:56 86  | 23:13 79S | 04:33 270 |
| 2024 Oct 17 (Thu) | 17:39 79  |           | 05:35 278 |
| 2024 Oct 18 (Fri) | 18:25 72  | 00:06 86S | 06:38 285 |
| 2024 Oct 19 (Sat) | 19:15 66  | 01:02 89N | 07:43 292 |
| 2024 Oct 20 (Sun) | 20:10 62  | 02:00 84N | 08:50 296 |
| 2024 Oct 21 (Mon) | 21:08 60  | 03:02 80N | 09:56 299 |
| 2024 Oct 22 (Tue) | 22:09 60  | 04:03 79N | 10:58 300 |
| 2024 Oct 23 (Wed) | 23:09 62  | 05:03 80N | 11:55 299 |
| 2024 Oct 24 (Thu) |           | 05:58 82N | 12:45 296 |
| 2024 Oct 25 (Fri) | 00:06 66  | 06:49 86N | 13:28 292 |
| 2024 Oct 26 (Sat) | 00:59 70  | 07:35 90N | 14:07 287 |
| 2024 Oct 27 (Sun) | 01:50 76  | 08:18 86S | 14:42 281 |
| 2024 Oct 28 (Mon) | 02:38 81  | 08:58 80S | 15:14 276 |
| 2024 Oct 29 (Tue) | 03:24 87  | 09:37 74S | 15:46 269 |
| 2024 Oct 30 (Wed) | 04:10 94  | 10:16 68S | 16:17 263 |
| 2024 Oct 31 (Thu) | 04:57 100 | 10:55 63S | 16:50 258 |
| 2024 Nov 01 (Fri) | 05:45 105 | 11:36 57S | 17:25 252 |
| 2024 Nov 02 (Sat) | 06:35 110 | 12:21 53S | 18:03 247 |
| 2024 Nov 03 (Sun) | 07:28 115 | 13:08 49S | 18:46 244 |
| 2024 Nov 04 (Mon) | 08:23 118 | 13:59 46S | 19:33 241 |
| 2024 Nov 05 (Tue) | 09:20 120 | 14:53 44S | 20:26 240 |
| 2024 Nov 06 (Wed) | 10:15 120 | 15:49 45S | 21:23 241 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Nov 07 (Thu) | 11:09 118 | 16:44 46S | 22:22 243 |
| 2024 Nov 08 (Fri) | 11:59 115 | 17:39 50S | 23:22 247 |
| 2024 Nov 09 (Sat) | 12:45 110 | 18:31 55S |           |
| 2024 Nov 10 (Sun) | 13:27 104 | 19:21 61S | 00:21 252 |
| 2024 Nov 11 (Mon) | 14:08 98  | 20:10 68S | 01:19 259 |
| 2024 Nov 12 (Tue) | 14:48 90  | 20:59 75S | 02:17 266 |
| 2024 Nov 13 (Wed) | 15:28 83  | 21:50 82S | 03:16 274 |
| 2024 Nov 14 (Thu) | 16:12 75  | 22:43 89S | 04:16 281 |
| 2024 Nov 15 (Fri) | 16:59 69  | 23:40 86N | 05:19 288 |
| 2024 Nov 16 (Sat) | 17:52 64  |           | 06:25 294 |
| 2024 Nov 17 (Sun) | 18:50 61  | 00:41 82N | 07:33 298 |
| 2024 Nov 18 (Mon) | 19:51 60  | 01:44 80N | 08:39 300 |
| 2024 Nov 19 (Tue) | 20:54 61  | 02:46 79N | 09:41 300 |
| 2024 Nov 20 (Wed) | 21:54 64  | 03:46 81N | 10:35 297 |
| 2024 Nov 21 (Thu) | 22:51 69  | 04:40 84N | 11:23 294 |
| 2024 Nov 22 (Fri) | 23:44 74  | 05:29 89N | 12:04 289 |
| 2024 Nov 23 (Sat) |           | 06:14 88S | 12:41 283 |
| 2024 Nov 24 (Sun) | 00:33 79  | 06:56 82S | 13:14 278 |
| 2024 Nov 25 (Mon) | 01:20 85  | 07:35 76S | 13:46 272 |
| 2024 Nov 26 (Tue) | 02:06 92  | 08:14 70S | 14:18 266 |
| 2024 Nov 27 (Wed) | 02:53 98  | 08:53 65S | 14:50 260 |
| 2024 Nov 28 (Thu) | 03:40 103 | 09:34 59S | 15:24 254 |
| 2024 Nov 29 (Fri) | 04:30 109 | 10:17 54S | 16:01 249 |
| 2024 Nov 30 (Sat) | 05:22 113 | 11:03 50S | 16:43 245 |
| 2024 Dec 01 (Sun) | 06:17 117 | 11:54 47S | 17:29 242 |
| 2024 Dec 02 (Mon) | 07:13 119 | 12:48 45S | 18:21 240 |
| 2024 Dec 03 (Tue) | 08:10 120 | 13:44 45S | 19:18 240 |
| 2024 Dec 04 (Wed) | 09:05 119 | 14:40 46S | 20:17 242 |
| 2024 Dec 05 (Thu) | 09:56 116 | 15:35 49S | 21:17 246 |
| 2024 Dec 06 (Fri) | 10:43 112 | 16:28 53S | 22:15 251 |
| 2024 Dec 07 (Sat) | 11:26 106 | 17:18 59S | 23:13 257 |
| 2024 Dec 08 (Sun) | 12:06 100 | 18:06 66S |           |
| 2024 Dec 09 (Mon) | 12:45 93  | 18:53 72S | 00:09 264 |
| 2024 Dec 10 (Tue) | 13:24 85  | 19:41 80S | 01:05 271 |
| 2024 Dec 11 (Wed) | 14:04 78  | 20:31 86S | 02:03 278 |
| 2024 Dec 12 (Thu) | 14:48 72  | 21:24 89N | 03:02 285 |
| 2024 Dec 13 (Fri) | 15:37 66  | 22:22 84N | 04:05 291 |
| 2024 Dec 14 (Sat) | 16:32 62  | 23:23 81N | 05:11 296 |
| 2024 Dec 15 (Sun) | 17:31 60  |           | 06:17 299 |
| 2024 Dec 16 (Mon) | 18:34 61  | 00:26 79N | 07:21 300 |
| 2024 Dec 17 (Tue) | 19:37 63  | 01:28 80N | 08:20 298 |
| 2024 Dec 18 (Wed) | 20:37 67  | 02:26 83N | 09:12 295 |
| 2024 Dec 19 (Thu) | 21:32 72  | 03:19 87N | 09:57 291 |
| 2024 Dec 20 (Fri) | 22:24 77  | 04:07 90S | 10:37 286 |
| 2024 Dec 21 (Sat) | 23:13 83  | 04:50 84S | 11:12 280 |
| 2024 Dec 22 (Sun) |           | 05:31 78S | 11:45 274 |
| 2024 Dec 23 (Mon) | 00:00 89  | 06:10 72S | 12:17 268 |
| 2024 Dec 24 (Tue) | 00:46 95  | 06:49 67S | 12:49 262 |
| 2024 Dec 25 (Wed) | 01:33 101 | 07:29 61S | 13:22 256 |
| 2024 Dec 26 (Thu) | 02:22 107 | 08:11 56S | 13:57 251 |
| 2024 Dec 27 (Fri) | 03:13 112 | 08:56 51S | 14:37 246 |
| 2024 Dec 28 (Sat) | 04:07 116 | 09:45 48S | 15:22 243 |
| 2024 Dec 29 (Sun) | 05:03 119 | 10:38 45S | 16:12 241 |
| 2024 Dec 30 (Mon) | 06:01 120 | 11:34 44S | 17:08 240 |
| 2024 Dec 31 (Tue) | 06:57 119 | 12:32 45S | 18:08 241 |