

## Sun

## Lampang

Location: E 99°29'31.2", N18°17'23.9", 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) | 06:03                         | 06:54 | 114 | 12:25 49S    | 17:57 246 |     | 18:48                       |
| 2024           | Jan | 02 (Tue) | 06:03                         | 06:54 | 114 | 12:26 49S    | 17:57 246 |     | 18:48                       |
| 2024           | Jan | 03 (Wed) | 06:04                         | 06:54 | 114 | 12:26 50S    | 17:58 246 |     | 18:49                       |
| 2024           | Jan | 04 (Thu) | 06:04                         | 06:55 | 114 | 12:27 50S    | 17:59 246 |     | 18:49                       |
| 2024           | Jan | 05 (Fri) | 06:04                         | 06:55 | 114 | 12:27 50S    | 17:59 246 |     | 18:50                       |
| 2024           | Jan | 06 (Sat) | 06:05                         | 06:55 | 114 | 12:28 50S    | 18:00 247 |     | 18:51                       |
| 2024           | Jan | 07 (Sun) | 06:05                         | 06:55 | 113 | 12:28 50S    | 18:01 247 |     | 18:51                       |
| 2024           | Jan | 08 (Mon) | 06:05                         | 06:56 | 113 | 12:28 50S    | 18:01 247 |     | 18:52                       |
| 2024           | Jan | 09 (Tue) | 06:05                         | 06:56 | 113 | 12:29 50S    | 18:02 247 |     | 18:52                       |
| 2024           | Jan | 10 (Wed) | 06:06                         | 06:56 | 113 | 12:29 50S    | 18:02 247 |     | 18:53                       |
| 2024           | Jan | 11 (Thu) | 06:06                         | 06:56 | 113 | 12:30 51S    | 18:03 247 |     | 18:53                       |
| 2024           | Jan | 12 (Fri) | 06:06                         | 06:56 | 113 | 12:30 51S    | 18:04 247 |     | 18:54                       |
| 2024           | Jan | 13 (Sat) | 06:06                         | 06:57 | 113 | 12:30 51S    | 18:04 248 |     | 18:55                       |
| 2024           | Jan | 14 (Sun) | 06:06                         | 06:57 | 112 | 12:31 51S    | 18:05 248 |     | 18:55                       |
| 2024           | Jan | 15 (Mon) | 06:07                         | 06:57 | 112 | 12:31 51S    | 18:06 248 |     | 18:56                       |
| 2024           | Jan | 16 (Tue) | 06:07                         | 06:57 | 112 | 12:32 51S    | 18:06 248 |     | 18:56                       |
| 2024           | Jan | 17 (Wed) | 06:07                         | 06:57 | 112 | 12:32 52S    | 18:07 248 |     | 18:57                       |
| 2024           | Jan | 18 (Thu) | 06:07                         | 06:57 | 112 | 12:32 52S    | 18:08 249 |     | 18:57                       |
| 2024           | Jan | 19 (Fri) | 06:07                         | 06:57 | 111 | 12:33 52S    | 18:08 249 |     | 18:58                       |
| 2024           | Jan | 20 (Sat) | 06:07                         | 06:57 | 111 | 12:33 52S    | 18:09 249 |     | 18:59                       |
| 2024           | Jan | 21 (Sun) | 06:07                         | 06:57 | 111 | 12:33 52S    | 18:09 249 |     | 18:59                       |
| 2024           | Jan | 22 (Mon) | 06:07                         | 06:57 | 111 | 12:33 53S    | 18:10 249 |     | 19:00                       |
| 2024           | Jan | 23 (Tue) | 06:07                         | 06:57 | 110 | 12:34 53S    | 18:11 250 |     | 19:00                       |
| 2024           | Jan | 24 (Wed) | 06:07                         | 06:57 | 110 | 12:34 53S    | 18:11 250 |     | 19:01                       |
| 2024           | Jan | 25 (Thu) | 06:07                         | 06:57 | 110 | 12:34 53S    | 18:12 250 |     | 19:01                       |
| 2024           | Jan | 26 (Fri) | 06:07                         | 06:57 | 110 | 12:34 54S    | 18:12 250 |     | 19:02                       |
| 2024           | Jan | 27 (Sat) | 06:07                         | 06:56 | 109 | 12:35 54S    | 18:13 251 |     | 19:02                       |
| 2024           | Jan | 28 (Sun) | 06:07                         | 06:56 | 109 | 12:35 54S    | 18:14 251 |     | 19:03                       |
| 2024           | Jan | 29 (Mon) | 06:07                         | 06:56 | 109 | 12:35 54S    | 18:14 251 |     | 19:03                       |
| 2024           | Jan | 30 (Tue) | 06:07                         | 06:56 | 109 | 12:35 55S    | 18:15 252 |     | 19:04                       |
| 2024           | Jan | 31 (Wed) | 06:07                         | 06:56 | 108 | 12:35 55S    | 18:15 252 |     | 19:04                       |
| 2024           | Feb | 01 (Thu) | 06:06                         | 06:55 | 108 | 12:35 55S    | 18:16 252 |     | 19:05                       |
| 2024           | Feb | 02 (Fri) | 06:06                         | 06:55 | 108 | 12:36 55S    | 18:16 252 |     | 19:05                       |
| 2024           | Feb | 03 (Sat) | 06:06                         | 06:55 | 107 | 12:36 56S    | 18:17 253 |     | 19:06                       |
| 2024           | Feb | 04 (Sun) | 06:06                         | 06:55 | 107 | 12:36 56S    | 18:17 253 |     | 19:06                       |
| 2024           | Feb | 05 (Mon) | 06:06                         | 06:54 | 107 | 12:36 56S    | 18:18 253 |     | 19:07                       |
| 2024           | Feb | 06 (Tue) | 06:05                         | 06:54 | 106 | 12:36 57S    | 18:18 254 |     | 19:07                       |
| 2024           | Feb | 07 (Wed) | 06:05                         | 06:54 | 106 | 12:36 57S    | 18:19 254 |     | 19:07                       |
| 2024           | Feb | 08 (Thu) | 06:05                         | 06:53 | 106 | 12:36 57S    | 18:19 254 |     | 19:08                       |
| 2024           | Feb | 09 (Fri) | 06:04                         | 06:53 | 105 | 12:36 58S    | 18:20 255 |     | 19:08                       |
| 2024           | Feb | 10 (Sat) | 06:04                         | 06:52 | 105 | 12:36 58S    | 18:20 255 |     | 19:09                       |
| 2024           | Feb | 11 (Sun) | 06:04                         | 06:52 | 105 | 12:36 58S    | 18:21 255 |     | 19:09                       |
| 2024           | Feb | 12 (Mon) | 06:03                         | 06:51 | 104 | 12:36 59S    | 18:21 256 |     | 19:09                       |
| 2024           | Feb | 13 (Tue) | 06:03                         | 06:51 | 104 | 12:36 59S    | 18:22 256 |     | 19:10                       |
| 2024           | Feb | 14 (Wed) | 06:02                         | 06:50 | 104 | 12:36 59S    | 18:22 256 |     | 19:10                       |
| 2024           | Feb | 15 (Thu) | 06:02                         | 06:50 | 103 | 12:36 60S    | 18:23 257 |     | 19:11                       |
| 2024           | Feb | 16 (Fri) | 06:02                         | 06:49 | 103 | 12:36 60S    | 18:23 257 |     | 19:11                       |
| 2024           | Feb | 17 (Sat) | 06:01                         | 06:49 | 103 | 12:36 60S    | 18:23 258 |     | 19:11                       |
| 2024           | Feb | 18 (Sun) | 06:01                         | 06:48 | 102 | 12:36 61S    | 18:24 258 |     | 19:12                       |
| 2024           | Feb | 19 (Mon) | 06:00                         | 06:48 | 102 | 12:36 61S    | 18:24 258 |     | 19:12                       |
| 2024           | Feb | 20 (Tue) | 06:00                         | 06:47 | 102 | 12:36 61S    | 18:25 259 |     | 19:12                       |
| 2024           | Feb | 21 (Wed) | 05:59                         | 06:47 | 101 | 12:36 62S    | 18:25 259 |     | 19:13                       |
| 2024           | Feb | 22 (Thu) | 05:58                         | 06:46 | 101 | 12:36 62S    | 18:25 259 |     | 19:13                       |
| 2024           | Feb | 23 (Fri) | 05:58                         | 06:45 | 100 | 12:35 62S    | 18:26 260 |     | 19:13                       |
| 2024           | Feb | 24 (Sat) | 05:57                         | 06:45 | 100 | 12:35 63S    | 18:26 260 |     | 19:14                       |
| 2024           | Feb | 25 (Sun) | 05:57                         | 06:44 | 100 | 12:35 63S    | 18:26 261 |     | 19:14                       |
| 2024           | Feb | 26 (Mon) | 05:56                         | 06:43 | 99  | 12:35 64S    | 18:27 261 |     | 19:14                       |
| 2024           | Feb | 27 (Tue) | 05:55                         | 06:43 | 99  | 12:35 64S    | 18:27 261 |     | 19:14                       |
| 2024           | Feb | 28 (Wed) | 05:55                         | 06:42 | 98  | 12:35 64S    | 18:27 262 |     | 19:15                       |
| 2024           | Feb | 29 (Thu) | 05:54                         | 06:41 | 98  | 12:34 65S    | 18:28 262 |     | 19:15                       |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Mar | 01 | (Fri) | 05:53 | 06:41 | 98 | 12:34 | 65S | 18:28 | 263 | 19:15 |
| 2024 | Mar | 02 | (Sat) | 05:53 | 06:40 | 97 | 12:34 | 65S | 18:28 | 263 | 19:16 |
| 2024 | Mar | 03 | (Sun) | 05:52 | 06:39 | 97 | 12:34 | 66S | 18:29 | 263 | 19:16 |
| 2024 | Mar | 04 | (Mon) | 05:51 | 06:39 | 96 | 12:34 | 66S | 18:29 | 264 | 19:16 |
| 2024 | Mar | 05 | (Tue) | 05:51 | 06:38 | 96 | 12:33 | 67S | 18:29 | 264 | 19:16 |
| 2024 | Mar | 06 | (Wed) | 05:50 | 06:37 | 96 | 12:33 | 67S | 18:30 | 265 | 19:17 |
| 2024 | Mar | 07 | (Thu) | 05:49 | 06:36 | 95 | 12:33 | 67S | 18:30 | 265 | 19:17 |
| 2024 | Mar | 08 | (Fri) | 05:49 | 06:36 | 95 | 12:33 | 68S | 18:30 | 265 | 19:17 |
| 2024 | Mar | 09 | (Sat) | 05:48 | 06:35 | 94 | 12:32 | 68S | 18:30 | 266 | 19:17 |
| 2024 | Mar | 10 | (Sun) | 05:47 | 06:34 | 94 | 12:32 | 69S | 18:31 | 266 | 19:18 |
| 2024 | Mar | 11 | (Mon) | 05:46 | 06:33 | 94 | 12:32 | 69S | 18:31 | 267 | 19:18 |
| 2024 | Mar | 12 | (Tue) | 05:45 | 06:33 | 93 | 12:32 | 69S | 18:31 | 267 | 19:18 |
| 2024 | Mar | 13 | (Wed) | 05:45 | 06:32 | 93 | 12:31 | 70S | 18:31 | 268 | 19:18 |
| 2024 | Mar | 14 | (Thu) | 05:44 | 06:31 | 92 | 12:31 | 70S | 18:32 | 268 | 19:19 |
| 2024 | Mar | 15 | (Fri) | 05:43 | 06:30 | 92 | 12:31 | 70S | 18:32 | 268 | 19:19 |
| 2024 | Mar | 16 | (Sat) | 05:42 | 06:29 | 91 | 12:31 | 71S | 18:32 | 269 | 19:19 |
| 2024 | Mar | 17 | (Sun) | 05:42 | 06:29 | 91 | 12:30 | 71S | 18:32 | 269 | 19:19 |
| 2024 | Mar | 18 | (Mon) | 05:41 | 06:28 | 91 | 12:30 | 72S | 18:33 | 270 | 19:20 |
| 2024 | Mar | 19 | (Tue) | 05:40 | 06:27 | 90 | 12:30 | 72S | 18:33 | 270 | 19:20 |
| 2024 | Mar | 20 | (Wed) | 05:39 | 06:26 | 90 | 12:29 | 72S | 18:33 | 270 | 19:20 |
| 2024 | Mar | 21 | (Thu) | 05:38 | 06:25 | 89 | 12:29 | 73S | 18:33 | 271 | 19:20 |
| 2024 | Mar | 22 | (Fri) | 05:37 | 06:24 | 89 | 12:29 | 73S | 18:33 | 271 | 19:21 |
| 2024 | Mar | 23 | (Sat) | 05:37 | 06:24 | 89 | 12:29 | 74S | 18:34 | 272 | 19:21 |
| 2024 | Mar | 24 | (Sun) | 05:36 | 06:23 | 88 | 12:28 | 74S | 18:34 | 272 | 19:21 |
| 2024 | Mar | 25 | (Mon) | 05:35 | 06:22 | 88 | 12:28 | 74S | 18:34 | 272 | 19:21 |
| 2024 | Mar | 26 | (Tue) | 05:34 | 06:21 | 87 | 12:28 | 75S | 18:34 | 273 | 19:22 |
| 2024 | Mar | 27 | (Wed) | 05:33 | 06:20 | 87 | 12:27 | 75S | 18:35 | 273 | 19:22 |
| 2024 | Mar | 28 | (Thu) | 05:32 | 06:20 | 86 | 12:27 | 76S | 18:35 | 274 | 19:22 |
| 2024 | Mar | 29 | (Fri) | 05:31 | 06:19 | 86 | 12:27 | 76S | 18:35 | 274 | 19:22 |
| 2024 | Mar | 30 | (Sat) | 05:31 | 06:18 | 86 | 12:26 | 76S | 18:35 | 275 | 19:23 |
| 2024 | Mar | 31 | (Sun) | 05:30 | 06:17 | 85 | 12:26 | 77S | 18:35 | 275 | 19:23 |
| 2024 | Apr | 01 | (Mon) | 05:29 | 06:16 | 85 | 12:26 | 77S | 18:36 | 275 | 19:23 |
| 2024 | Apr | 02 | (Tue) | 05:28 | 06:15 | 84 | 12:26 | 78S | 18:36 | 276 | 19:23 |
| 2024 | Apr | 03 | (Wed) | 05:27 | 06:15 | 84 | 12:25 | 78S | 18:36 | 276 | 19:24 |
| 2024 | Apr | 04 | (Thu) | 05:26 | 06:14 | 84 | 12:25 | 78S | 18:36 | 277 | 19:24 |
| 2024 | Apr | 05 | (Fri) | 05:25 | 06:13 | 83 | 12:25 | 79S | 18:37 | 277 | 19:24 |
| 2024 | Apr | 06 | (Sat) | 05:25 | 06:12 | 83 | 12:24 | 79S | 18:37 | 277 | 19:24 |
| 2024 | Apr | 07 | (Sun) | 05:24 | 06:11 | 82 | 12:24 | 79S | 18:37 | 278 | 19:25 |
| 2024 | Apr | 08 | (Mon) | 05:23 | 06:11 | 82 | 12:24 | 80S | 18:37 | 278 | 19:25 |
| 2024 | Apr | 09 | (Tue) | 05:22 | 06:10 | 82 | 12:24 | 80S | 18:37 | 279 | 19:25 |
| 2024 | Apr | 10 | (Wed) | 05:21 | 06:09 | 81 | 12:23 | 81S | 18:38 | 279 | 19:26 |
| 2024 | Apr | 11 | (Thu) | 05:20 | 06:08 | 81 | 12:23 | 81S | 18:38 | 279 | 19:26 |
| 2024 | Apr | 12 | (Fri) | 05:20 | 06:08 | 80 | 12:23 | 81S | 18:38 | 280 | 19:26 |
| 2024 | Apr | 13 | (Sat) | 05:19 | 06:07 | 80 | 12:23 | 82S | 18:38 | 280 | 19:27 |
| 2024 | Apr | 14 | (Sun) | 05:18 | 06:06 | 80 | 12:22 | 82S | 18:39 | 280 | 19:27 |
| 2024 | Apr | 15 | (Mon) | 05:17 | 06:05 | 79 | 12:22 | 82S | 18:39 | 281 | 19:27 |
| 2024 | Apr | 16 | (Tue) | 05:16 | 06:05 | 79 | 12:22 | 83S | 18:39 | 281 | 19:28 |
| 2024 | Apr | 17 | (Wed) | 05:16 | 06:04 | 79 | 12:22 | 83S | 18:39 | 282 | 19:28 |
| 2024 | Apr | 18 | (Thu) | 05:15 | 06:03 | 78 | 12:21 | 83S | 18:40 | 282 | 19:28 |
| 2024 | Apr | 19 | (Fri) | 05:14 | 06:03 | 78 | 12:21 | 84S | 18:40 | 282 | 19:29 |
| 2024 | Apr | 20 | (Sat) | 05:13 | 06:02 | 77 | 12:21 | 84S | 18:40 | 283 | 19:29 |
| 2024 | Apr | 21 | (Sun) | 05:12 | 06:01 | 77 | 12:21 | 84S | 18:41 | 283 | 19:29 |
| 2024 | Apr | 22 | (Mon) | 05:12 | 06:00 | 77 | 12:21 | 85S | 18:41 | 283 | 19:30 |
| 2024 | Apr | 23 | (Tue) | 05:11 | 06:00 | 76 | 12:20 | 85S | 18:41 | 284 | 19:30 |
| 2024 | Apr | 24 | (Wed) | 05:10 | 05:59 | 76 | 12:20 | 85S | 18:41 | 284 | 19:30 |
| 2024 | Apr | 25 | (Thu) | 05:10 | 05:59 | 76 | 12:20 | 86S | 18:42 | 284 | 19:31 |
| 2024 | Apr | 26 | (Fri) | 05:09 | 05:58 | 75 | 12:20 | 86S | 18:42 | 285 | 19:31 |
| 2024 | Apr | 27 | (Sat) | 05:08 | 05:57 | 75 | 12:20 | 86S | 18:42 | 285 | 19:32 |
| 2024 | Apr | 28 | (Sun) | 05:07 | 05:57 | 75 | 12:19 | 87S | 18:43 | 285 | 19:32 |
| 2024 | Apr | 29 | (Mon) | 05:07 | 05:56 | 74 | 12:19 | 87S | 18:43 | 286 | 19:32 |
| 2024 | Apr | 30 | (Tue) | 05:06 | 05:56 | 74 | 12:19 | 87S | 18:43 | 286 | 19:33 |
| 2024 | May | 01 | (Wed) | 05:05 | 05:55 | 74 | 12:19 | 88S | 18:43 | 286 | 19:33 |
| 2024 | May | 02 | (Thu) | 05:05 | 05:54 | 73 | 12:19 | 88S | 18:44 | 287 | 19:34 |
| 2024 | May | 03 | (Fri) | 05:04 | 05:54 | 73 | 12:19 | 88S | 18:44 | 287 | 19:34 |
| 2024 | May | 04 | (Sat) | 05:04 | 05:53 | 73 | 12:19 | 89S | 18:44 | 287 | 19:34 |
| 2024 | May | 05 | (Sun) | 05:03 | 05:53 | 72 | 12:19 | 89S | 18:45 | 288 | 19:35 |
| 2024 | May | 06 | (Mon) | 05:02 | 05:52 | 72 | 12:19 | 89S | 18:45 | 288 | 19:35 |
| 2024 | May | 07 | (Tue) | 05:02 | 05:52 | 72 | 12:19 | 89S | 18:45 | 288 | 19:36 |
| 2024 | May | 08 | (Wed) | 05:01 | 05:51 | 72 | 12:19 | 90S | 18:46 | 289 | 19:36 |
| 2024 | May | 09 | (Thu) | 05:01 | 05:51 | 71 | 12:18 | 90S | 18:46 | 289 | 19:37 |
| 2024 | May | 10 | (Fri) | 05:00 | 05:51 | 71 | 12:18 | 90S | 18:47 | 289 | 19:37 |
| 2024 | May | 11 | (Sat) | 05:00 | 05:50 | 71 | 12:18 | 90S | 18:47 | 289 | 19:37 |

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

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

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

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Dec | 14 | (Sat) | 05:55 | 06:45 | 114 | 12:17 | 49S | 17:48 | 246 | 18:39 |
| 2024 | Dec | 15 | (Sun) | 05:55 | 06:46 | 114 | 12:17 | 49S | 17:48 | 246 | 18:39 |
| 2024 | Dec | 16 | (Mon) | 05:56 | 06:47 | 114 | 12:18 | 49S | 17:49 | 246 | 18:40 |
| 2024 | Dec | 17 | (Tue) | 05:56 | 06:47 | 114 | 12:18 | 49S | 17:49 | 246 | 18:40 |
| 2024 | Dec | 18 | (Wed) | 05:57 | 06:48 | 114 | 12:19 | 49S | 17:50 | 246 | 18:41 |
| 2024 | Dec | 19 | (Thu) | 05:57 | 06:48 | 114 | 12:19 | 49S | 17:50 | 246 | 18:41 |
| 2024 | Dec | 20 | (Fri) | 05:58 | 06:49 | 114 | 12:20 | 49S | 17:51 | 246 | 18:42 |
| 2024 | Dec | 21 | (Sat) | 05:58 | 06:49 | 114 | 12:20 | 49S | 17:51 | 246 | 18:42 |
| 2024 | Dec | 22 | (Sun) | 05:59 | 06:50 | 114 | 12:21 | 49S | 17:52 | 246 | 18:43 |
| 2024 | Dec | 23 | (Mon) | 05:59 | 06:50 | 114 | 12:21 | 49S | 17:52 | 246 | 18:43 |
| 2024 | Dec | 24 | (Tue) | 06:00 | 06:51 | 114 | 12:22 | 49S | 17:53 | 246 | 18:44 |
| 2024 | Dec | 25 | (Wed) | 06:00 | 06:51 | 114 | 12:22 | 49S | 17:53 | 246 | 18:44 |
| 2024 | Dec | 26 | (Thu) | 06:01 | 06:52 | 114 | 12:23 | 49S | 17:54 | 246 | 18:45 |
| 2024 | Dec | 27 | (Fri) | 06:01 | 06:52 | 114 | 12:23 | 49S | 17:54 | 246 | 18:45 |
| 2024 | Dec | 28 | (Sat) | 06:01 | 06:52 | 114 | 12:24 | 49S | 17:55 | 246 | 18:46 |
| 2024 | Dec | 29 | (Sun) | 06:02 | 06:53 | 114 | 12:24 | 49S | 17:56 | 246 | 18:46 |
| 2024 | Dec | 30 | (Mon) | 06:02 | 06:53 | 114 | 12:25 | 49S | 17:56 | 246 | 18:47 |
| 2024 | Dec | 31 | (Tue) | 06:03 | 06:54 | 114 | 12:25 | 49S | 17:57 | 246 | 18:48 |

Sun

Lampang

Location: E 99°29'31.2", N18°17'23.9", 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) | 06:30                      | 06:54 | 114 | 12:25   | 49S  | 17:57 | 246 | 18:21                    |
| 2024           | Jan | 02 | (Tue) | 06:30                      | 06:54 | 114 | 12:26   | 49S  | 17:57 | 246 | 18:21                    |
| 2024           | Jan | 03 | (Wed) | 06:31                      | 06:54 | 114 | 12:26   | 50S  | 17:58 | 246 | 18:22                    |
| 2024           | Jan | 04 | (Thu) | 06:31                      | 06:55 | 114 | 12:27   | 50S  | 17:59 | 246 | 18:22                    |
| 2024           | Jan | 05 | (Fri) | 06:31                      | 06:55 | 114 | 12:27   | 50S  | 17:59 | 246 | 18:23                    |
| 2024           | Jan | 06 | (Sat) | 06:32                      | 06:55 | 114 | 12:28   | 50S  | 18:00 | 247 | 18:24                    |
| 2024           | Jan | 07 | (Sun) | 06:32                      | 06:55 | 113 | 12:28   | 50S  | 18:01 | 247 | 18:24                    |
| 2024           | Jan | 08 | (Mon) | 06:32                      | 06:56 | 113 | 12:28   | 50S  | 18:01 | 247 | 18:25                    |
| 2024           | Jan | 09 | (Tue) | 06:32                      | 06:56 | 113 | 12:29   | 50S  | 18:02 | 247 | 18:25                    |
| 2024           | Jan | 10 | (Wed) | 06:33                      | 06:56 | 113 | 12:29   | 50S  | 18:02 | 247 | 18:26                    |
| 2024           | Jan | 11 | (Thu) | 06:33                      | 06:56 | 113 | 12:30   | 51S  | 18:03 | 247 | 18:27                    |
| 2024           | Jan | 12 | (Fri) | 06:33                      | 06:56 | 113 | 12:30   | 51S  | 18:04 | 247 | 18:27                    |
| 2024           | Jan | 13 | (Sat) | 06:33                      | 06:57 | 113 | 12:30   | 51S  | 18:04 | 248 | 18:28                    |
| 2024           | Jan | 14 | (Sun) | 06:33                      | 06:57 | 112 | 12:31   | 51S  | 18:05 | 248 | 18:28                    |
| 2024           | Jan | 15 | (Mon) | 06:33                      | 06:57 | 112 | 12:31   | 51S  | 18:06 | 248 | 18:29                    |
| 2024           | Jan | 16 | (Tue) | 06:34                      | 06:57 | 112 | 12:32   | 51S  | 18:06 | 248 | 18:30                    |
| 2024           | Jan | 17 | (Wed) | 06:34                      | 06:57 | 112 | 12:32   | 52S  | 18:07 | 248 | 18:30                    |
| 2024           | Jan | 18 | (Thu) | 06:34                      | 06:57 | 112 | 12:32   | 52S  | 18:08 | 249 | 18:31                    |
| 2024           | Jan | 19 | (Fri) | 06:34                      | 06:57 | 111 | 12:33   | 52S  | 18:08 | 249 | 18:31                    |
| 2024           | Jan | 20 | (Sat) | 06:34                      | 06:57 | 111 | 12:33   | 52S  | 18:09 | 249 | 18:32                    |
| 2024           | Jan | 21 | (Sun) | 06:34                      | 06:57 | 111 | 12:33   | 52S  | 18:09 | 249 | 18:33                    |
| 2024           | Jan | 22 | (Mon) | 06:34                      | 06:57 | 111 | 12:33   | 53S  | 18:10 | 249 | 18:33                    |
| 2024           | Jan | 23 | (Tue) | 06:34                      | 06:57 | 110 | 12:34   | 53S  | 18:11 | 250 | 18:34                    |
| 2024           | Jan | 24 | (Wed) | 06:34                      | 06:57 | 110 | 12:34   | 53S  | 18:11 | 250 | 18:34                    |
| 2024           | Jan | 25 | (Thu) | 06:34                      | 06:57 | 110 | 12:34   | 53S  | 18:12 | 250 | 18:35                    |
| 2024           | Jan | 26 | (Fri) | 06:34                      | 06:57 | 110 | 12:34   | 54S  | 18:12 | 250 | 18:35                    |
| 2024           | Jan | 27 | (Sat) | 06:33                      | 06:56 | 109 | 12:35   | 54S  | 18:13 | 251 | 18:36                    |
| 2024           | Jan | 28 | (Sun) | 06:33                      | 06:56 | 109 | 12:35   | 54S  | 18:14 | 251 | 18:36                    |
| 2024           | Jan | 29 | (Mon) | 06:33                      | 06:56 | 109 | 12:35   | 54S  | 18:14 | 251 | 18:37                    |
| 2024           | Jan | 30 | (Tue) | 06:33                      | 06:56 | 109 | 12:35   | 55S  | 18:15 | 252 | 18:37                    |
| 2024           | Jan | 31 | (Wed) | 06:33                      | 06:56 | 108 | 12:35   | 55S  | 18:15 | 252 | 18:38                    |
| 2024           | Feb | 01 | (Thu) | 06:33                      | 06:55 | 108 | 12:35   | 55S  | 18:16 | 252 | 18:39                    |
| 2024           | Feb | 02 | (Fri) | 06:32                      | 06:55 | 108 | 12:36   | 55S  | 18:16 | 252 | 18:39                    |
| 2024           | Feb | 03 | (Sat) | 06:32                      | 06:55 | 107 | 12:36   | 56S  | 18:17 | 253 | 18:40                    |
| 2024           | Feb | 04 | (Sun) | 06:32                      | 06:55 | 107 | 12:36   | 56S  | 18:17 | 253 | 18:40                    |
| 2024           | Feb | 05 | (Mon) | 06:32                      | 06:54 | 107 | 12:36   | 56S  | 18:18 | 253 | 18:40                    |
| 2024           | Feb | 06 | (Tue) | 06:31                      | 06:54 | 106 | 12:36   | 57S  | 18:18 | 254 | 18:41                    |
| 2024           | Feb | 07 | (Wed) | 06:31                      | 06:54 | 106 | 12:36   | 57S  | 18:19 | 254 | 18:41                    |
| 2024           | Feb | 08 | (Thu) | 06:31                      | 06:53 | 106 | 12:36   | 57S  | 18:19 | 254 | 18:42                    |
| 2024           | Feb | 09 | (Fri) | 06:30                      | 06:53 | 105 | 12:36   | 58S  | 18:20 | 255 | 18:42                    |
| 2024           | Feb | 10 | (Sat) | 06:30                      | 06:52 | 105 | 12:36   | 58S  | 18:20 | 255 | 18:43                    |

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

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



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

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Sep | 14 | (Sat) | 05:48 | 06:10 | 86  | 12:18 | 76S | 18:25 | 274 | 18:47 |
| 2024 | Sep | 15 | (Sun) | 05:48 | 06:10 | 87  | 12:17 | 75S | 18:24 | 273 | 18:46 |
| 2024 | Sep | 16 | (Mon) | 05:48 | 06:10 | 87  | 12:17 | 75S | 18:23 | 273 | 18:45 |
| 2024 | Sep | 17 | (Tue) | 05:48 | 06:10 | 87  | 12:16 | 74S | 18:22 | 272 | 18:44 |
| 2024 | Sep | 18 | (Wed) | 05:49 | 06:10 | 88  | 12:16 | 74S | 18:22 | 272 | 18:43 |
| 2024 | Sep | 19 | (Thu) | 05:49 | 06:10 | 88  | 12:16 | 74S | 18:21 | 272 | 18:42 |
| 2024 | Sep | 20 | (Fri) | 05:49 | 06:11 | 89  | 12:15 | 73S | 18:20 | 271 | 18:42 |
| 2024 | Sep | 21 | (Sat) | 05:49 | 06:11 | 89  | 12:15 | 73S | 18:19 | 271 | 18:41 |
| 2024 | Sep | 22 | (Sun) | 05:49 | 06:11 | 89  | 12:15 | 73S | 18:18 | 270 | 18:40 |
| 2024 | Sep | 23 | (Mon) | 05:49 | 06:11 | 90  | 12:14 | 72S | 18:17 | 270 | 18:39 |
| 2024 | Sep | 24 | (Tue) | 05:50 | 06:11 | 90  | 12:14 | 72S | 18:16 | 269 | 18:38 |
| 2024 | Sep | 25 | (Wed) | 05:50 | 06:11 | 91  | 12:14 | 71S | 18:16 | 269 | 18:37 |
| 2024 | Sep | 26 | (Thu) | 05:50 | 06:12 | 91  | 12:13 | 71S | 18:15 | 269 | 18:36 |
| 2024 | Sep | 27 | (Fri) | 05:50 | 06:12 | 92  | 12:13 | 71S | 18:14 | 268 | 18:36 |
| 2024 | Sep | 28 | (Sat) | 05:50 | 06:12 | 92  | 12:13 | 70S | 18:13 | 268 | 18:35 |
| 2024 | Sep | 29 | (Sun) | 05:50 | 06:12 | 92  | 12:12 | 70S | 18:12 | 267 | 18:34 |
| 2024 | Sep | 30 | (Mon) | 05:51 | 06:12 | 93  | 12:12 | 69S | 18:11 | 267 | 18:33 |
| 2024 | Oct | 01 | (Tue) | 05:51 | 06:13 | 93  | 12:12 | 69S | 18:10 | 267 | 18:32 |
| 2024 | Oct | 02 | (Wed) | 05:51 | 06:13 | 94  | 12:11 | 69S | 18:10 | 266 | 18:31 |
| 2024 | Oct | 03 | (Thu) | 05:51 | 06:13 | 94  | 12:11 | 68S | 18:09 | 266 | 18:31 |
| 2024 | Oct | 04 | (Fri) | 05:51 | 06:13 | 94  | 12:11 | 68S | 18:08 | 265 | 18:30 |
| 2024 | Oct | 05 | (Sat) | 05:52 | 06:13 | 95  | 12:10 | 67S | 18:07 | 265 | 18:29 |
| 2024 | Oct | 06 | (Sun) | 05:52 | 06:14 | 95  | 12:10 | 67S | 18:06 | 265 | 18:28 |
| 2024 | Oct | 07 | (Mon) | 05:52 | 06:14 | 96  | 12:10 | 67S | 18:06 | 264 | 18:27 |
| 2024 | Oct | 08 | (Tue) | 05:52 | 06:14 | 96  | 12:10 | 66S | 18:05 | 264 | 18:27 |
| 2024 | Oct | 09 | (Wed) | 05:52 | 06:14 | 96  | 12:09 | 66S | 18:04 | 263 | 18:26 |
| 2024 | Oct | 10 | (Thu) | 05:53 | 06:14 | 97  | 12:09 | 66S | 18:03 | 263 | 18:25 |
| 2024 | Oct | 11 | (Fri) | 05:53 | 06:15 | 97  | 12:09 | 65S | 18:02 | 263 | 18:24 |
| 2024 | Oct | 12 | (Sat) | 05:53 | 06:15 | 98  | 12:08 | 65S | 18:02 | 262 | 18:24 |
| 2024 | Oct | 13 | (Sun) | 05:53 | 06:15 | 98  | 12:08 | 64S | 18:01 | 262 | 18:23 |
| 2024 | Oct | 14 | (Mon) | 05:54 | 06:15 | 98  | 12:08 | 64S | 18:00 | 261 | 18:22 |
| 2024 | Oct | 15 | (Tue) | 05:54 | 06:16 | 99  | 12:08 | 64S | 18:00 | 261 | 18:22 |
| 2024 | Oct | 16 | (Wed) | 05:54 | 06:16 | 99  | 12:08 | 63S | 17:59 | 261 | 18:21 |
| 2024 | Oct | 17 | (Thu) | 05:54 | 06:16 | 100 | 12:07 | 63S | 17:58 | 260 | 18:20 |
| 2024 | Oct | 18 | (Fri) | 05:55 | 06:17 | 100 | 12:07 | 63S | 17:57 | 260 | 18:19 |
| 2024 | Oct | 19 | (Sat) | 05:55 | 06:17 | 100 | 12:07 | 62S | 17:57 | 259 | 18:19 |
| 2024 | Oct | 20 | (Sun) | 05:55 | 06:17 | 101 | 12:07 | 62S | 17:56 | 259 | 18:18 |
| 2024 | Oct | 21 | (Mon) | 05:55 | 06:18 | 101 | 12:07 | 62S | 17:55 | 259 | 18:18 |
| 2024 | Oct | 22 | (Tue) | 05:56 | 06:18 | 101 | 12:06 | 61S | 17:55 | 258 | 18:17 |
| 2024 | Oct | 23 | (Wed) | 05:56 | 06:18 | 102 | 12:06 | 61S | 17:54 | 258 | 18:16 |
| 2024 | Oct | 24 | (Thu) | 05:56 | 06:19 | 102 | 12:06 | 60S | 17:54 | 258 | 18:16 |
| 2024 | Oct | 25 | (Fri) | 05:57 | 06:19 | 103 | 12:06 | 60S | 17:53 | 257 | 18:15 |
| 2024 | Oct | 26 | (Sat) | 05:57 | 06:19 | 103 | 12:06 | 60S | 17:52 | 257 | 18:15 |
| 2024 | Oct | 27 | (Sun) | 05:57 | 06:20 | 103 | 12:06 | 59S | 17:52 | 257 | 18:14 |
| 2024 | Oct | 28 | (Mon) | 05:58 | 06:20 | 104 | 12:06 | 59S | 17:51 | 256 | 18:14 |
| 2024 | Oct | 29 | (Tue) | 05:58 | 06:20 | 104 | 12:06 | 59S | 17:51 | 256 | 18:13 |
| 2024 | Oct | 30 | (Wed) | 05:58 | 06:21 | 104 | 12:06 | 58S | 17:50 | 256 | 18:13 |
| 2024 | Oct | 31 | (Thu) | 05:59 | 06:21 | 105 | 12:06 | 58S | 17:50 | 255 | 18:12 |
| 2024 | Nov | 01 | (Fri) | 05:59 | 06:22 | 105 | 12:06 | 58S | 17:49 | 255 | 18:12 |
| 2024 | Nov | 02 | (Sat) | 06:00 | 06:22 | 105 | 12:06 | 58S | 17:49 | 254 | 18:11 |
| 2024 | Nov | 03 | (Sun) | 06:00 | 06:22 | 106 | 12:06 | 57S | 17:49 | 254 | 18:11 |
| 2024 | Nov | 04 | (Mon) | 06:00 | 06:23 | 106 | 12:06 | 57S | 17:48 | 254 | 18:11 |
| 2024 | Nov | 05 | (Tue) | 06:01 | 06:23 | 106 | 12:06 | 57S | 17:48 | 254 | 18:10 |
| 2024 | Nov | 06 | (Wed) | 06:01 | 06:24 | 107 | 12:06 | 56S | 17:47 | 253 | 18:10 |
| 2024 | Nov | 07 | (Thu) | 06:02 | 06:24 | 107 | 12:06 | 56S | 17:47 | 253 | 18:10 |
| 2024 | Nov | 08 | (Fri) | 06:02 | 06:25 | 107 | 12:06 | 56S | 17:47 | 253 | 18:09 |
| 2024 | Nov | 09 | (Sat) | 06:03 | 06:25 | 108 | 12:06 | 55S | 17:46 | 252 | 18:09 |
| 2024 | Nov | 10 | (Sun) | 06:03 | 06:26 | 108 | 12:06 | 55S | 17:46 | 252 | 18:09 |
| 2024 | Nov | 11 | (Mon) | 06:03 | 06:26 | 108 | 12:06 | 55S | 17:46 | 252 | 18:09 |
| 2024 | Nov | 12 | (Tue) | 06:04 | 06:27 | 108 | 12:06 | 55S | 17:45 | 251 | 18:08 |
| 2024 | Nov | 13 | (Wed) | 06:04 | 06:27 | 109 | 12:06 | 54S | 17:45 | 251 | 18:08 |
| 2024 | Nov | 14 | (Thu) | 06:05 | 06:28 | 109 | 12:06 | 54S | 17:45 | 251 | 18:08 |
| 2024 | Nov | 15 | (Fri) | 06:05 | 06:28 | 109 | 12:07 | 54S | 17:45 | 251 | 18:08 |
| 2024 | Nov | 16 | (Sat) | 06:06 | 06:29 | 110 | 12:07 | 54S | 17:45 | 250 | 18:08 |
| 2024 | Nov | 17 | (Sun) | 06:06 | 06:29 | 110 | 12:07 | 53S | 17:44 | 250 | 18:07 |
| 2024 | Nov | 18 | (Mon) | 06:07 | 06:30 | 110 | 12:07 | 53S | 17:44 | 250 | 18:07 |
| 2024 | Nov | 19 | (Tue) | 06:07 | 06:31 | 110 | 12:07 | 53S | 17:44 | 250 | 18:07 |
| 2024 | Nov | 20 | (Wed) | 06:08 | 06:31 | 111 | 12:08 | 53S | 17:44 | 249 | 18:07 |
| 2024 | Nov | 21 | (Thu) | 06:09 | 06:32 | 111 | 12:08 | 52S | 17:44 | 249 | 18:07 |
| 2024 | Nov | 22 | (Fri) | 06:09 | 06:32 | 111 | 12:08 | 52S | 17:44 | 249 | 18:07 |
| 2024 | Nov | 23 | (Sat) | 06:10 | 06:33 | 111 | 12:08 | 52S | 17:44 | 249 | 18:07 |
| 2024 | Nov | 24 | (Sun) | 06:10 | 06:33 | 111 | 12:09 | 52S | 17:44 | 248 | 18:07 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Nov | 25 | (Mon) | 06:11 | 06:34 | 112 | 12:09 | 52S | 17:44 | 248 | 18:07 |
| 2024 | Nov | 26 | (Tue) | 06:11 | 06:35 | 112 | 12:09 | 51S | 17:44 | 248 | 18:07 |
| 2024 | Nov | 27 | (Wed) | 06:12 | 06:35 | 112 | 12:10 | 51S | 17:44 | 248 | 18:07 |
| 2024 | Nov | 28 | (Thu) | 06:12 | 06:36 | 112 | 12:10 | 51S | 17:44 | 248 | 18:07 |
| 2024 | Nov | 29 | (Fri) | 06:13 | 06:36 | 112 | 12:10 | 51S | 17:44 | 247 | 18:08 |
| 2024 | Nov | 30 | (Sat) | 06:14 | 06:37 | 113 | 12:11 | 51S | 17:44 | 247 | 18:08 |
| 2024 | Dec | 01 | (Sun) | 06:14 | 06:38 | 113 | 12:11 | 51S | 17:44 | 247 | 18:08 |
| 2024 | Dec | 02 | (Mon) | 06:15 | 06:38 | 113 | 12:12 | 50S | 17:45 | 247 | 18:08 |
| 2024 | Dec | 03 | (Tue) | 06:15 | 06:39 | 113 | 12:12 | 50S | 17:45 | 247 | 18:08 |
| 2024 | Dec | 04 | (Wed) | 06:16 | 06:40 | 113 | 12:12 | 50S | 17:45 | 247 | 18:09 |
| 2024 | Dec | 05 | (Thu) | 06:17 | 06:40 | 113 | 12:13 | 50S | 17:45 | 247 | 18:09 |
| 2024 | Dec | 06 | (Fri) | 06:17 | 06:41 | 113 | 12:13 | 50S | 17:45 | 246 | 18:09 |
| 2024 | Dec | 07 | (Sat) | 06:18 | 06:41 | 114 | 12:14 | 50S | 17:46 | 246 | 18:09 |
| 2024 | Dec | 08 | (Sun) | 06:18 | 06:42 | 114 | 12:14 | 50S | 17:46 | 246 | 18:10 |
| 2024 | Dec | 09 | (Mon) | 06:19 | 06:43 | 114 | 12:14 | 50S | 17:46 | 246 | 18:10 |
| 2024 | Dec | 10 | (Tue) | 06:19 | 06:43 | 114 | 12:15 | 49S | 17:47 | 246 | 18:10 |
| 2024 | Dec | 11 | (Wed) | 06:20 | 06:44 | 114 | 12:15 | 49S | 17:47 | 246 | 18:11 |
| 2024 | Dec | 12 | (Thu) | 06:21 | 06:44 | 114 | 12:16 | 49S | 17:47 | 246 | 18:11 |
| 2024 | Dec | 13 | (Fri) | 06:21 | 06:45 | 114 | 12:16 | 49S | 17:48 | 246 | 18:11 |
| 2024 | Dec | 14 | (Sat) | 06:22 | 06:45 | 114 | 12:17 | 49S | 17:48 | 246 | 18:12 |
| 2024 | Dec | 15 | (Sun) | 06:22 | 06:46 | 114 | 12:17 | 49S | 17:48 | 246 | 18:12 |
| 2024 | Dec | 16 | (Mon) | 06:23 | 06:47 | 114 | 12:18 | 49S | 17:49 | 246 | 18:13 |
| 2024 | Dec | 17 | (Tue) | 06:23 | 06:47 | 114 | 12:18 | 49S | 17:49 | 246 | 18:13 |
| 2024 | Dec | 18 | (Wed) | 06:24 | 06:48 | 114 | 12:19 | 49S | 17:50 | 246 | 18:14 |
| 2024 | Dec | 19 | (Thu) | 06:24 | 06:48 | 114 | 12:19 | 49S | 17:50 | 246 | 18:14 |
| 2024 | Dec | 20 | (Fri) | 06:25 | 06:49 | 114 | 12:20 | 49S | 17:51 | 246 | 18:14 |
| 2024 | Dec | 21 | (Sat) | 06:25 | 06:49 | 114 | 12:20 | 49S | 17:51 | 246 | 18:15 |
| 2024 | Dec | 22 | (Sun) | 06:26 | 06:50 | 114 | 12:21 | 49S | 17:52 | 246 | 18:15 |
| 2024 | Dec | 23 | (Mon) | 06:26 | 06:50 | 114 | 12:21 | 49S | 17:52 | 246 | 18:16 |
| 2024 | Dec | 24 | (Tue) | 06:27 | 06:51 | 114 | 12:22 | 49S | 17:53 | 246 | 18:17 |
| 2024 | Dec | 25 | (Wed) | 06:27 | 06:51 | 114 | 12:22 | 49S | 17:53 | 246 | 18:17 |
| 2024 | Dec | 26 | (Thu) | 06:28 | 06:52 | 114 | 12:23 | 49S | 17:54 | 246 | 18:18 |
| 2024 | Dec | 27 | (Fri) | 06:28 | 06:52 | 114 | 12:23 | 49S | 17:54 | 246 | 18:18 |
| 2024 | Dec | 28 | (Sat) | 06:29 | 06:52 | 114 | 12:24 | 49S | 17:55 | 246 | 18:19 |
| 2024 | Dec | 29 | (Sun) | 06:29 | 06:53 | 114 | 12:24 | 49S | 17:56 | 246 | 18:19 |
| 2024 | Dec | 30 | (Mon) | 06:29 | 06:53 | 114 | 12:25 | 49S | 17:56 | 246 | 18:20 |
| 2024 | Dec | 31 | (Tue) | 06:30 | 06:54 | 114 | 12:25 | 49S | 17:57 | 246 | 18:20 |

# Moon

## Lampang

Location: E 99°29'31.2", N18°17'23.9", 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) | 22:31 | 80  |     | 04:13        | 86S | 10:39 | 282 |
| 2024 Jan 02 (Tue) | 23:18 | 86  |     | 04:54        | 80S | 11:12 | 277 |
| 2024 Jan 03 (Wed) |       |     |     | 05:33        | 74S | 11:43 | 271 |
| 2024 Jan 04 (Thu) | 00:05 | 92  |     | 06:12        | 68S | 12:15 | 265 |
| 2024 Jan 05 (Fri) | 00:53 | 98  |     | 06:52        | 63S | 12:48 | 259 |
| 2024 Jan 06 (Sat) | 01:43 | 104 |     | 07:35        | 57S | 13:23 | 253 |
| 2024 Jan 07 (Sun) | 02:37 | 110 |     | 08:22        | 52S | 14:04 | 248 |
| 2024 Jan 08 (Mon) | 03:35 | 115 |     | 09:14        | 48S | 14:50 | 244 |
| 2024 Jan 09 (Tue) | 04:36 | 118 |     | 10:11        | 45S | 15:44 | 241 |
| 2024 Jan 10 (Wed) | 05:40 | 120 |     | 11:12        | 44S | 16:45 | 240 |
| 2024 Jan 11 (Thu) | 06:43 | 119 |     | 12:16        | 44S | 17:51 | 242 |
| 2024 Jan 12 (Fri) | 07:42 | 117 |     | 13:19        | 47S | 18:59 | 245 |
| 2024 Jan 13 (Sat) | 08:35 | 112 |     | 14:19        | 52S | 20:06 | 250 |
| 2024 Jan 14 (Sun) | 09:23 | 106 |     | 15:14        | 58S | 21:09 | 257 |
| 2024 Jan 15 (Mon) | 10:05 | 99  |     | 16:05        | 65S | 22:09 | 264 |
| 2024 Jan 16 (Tue) | 10:45 | 92  |     | 16:54        | 72S | 23:08 | 272 |
| 2024 Jan 17 (Wed) | 11:24 | 85  |     | 17:42        | 79S |       |     |
| 2024 Jan 18 (Thu) | 12:02 | 78  |     | 18:30        | 85S | 00:05 | 279 |
| 2024 Jan 19 (Fri) | 12:43 | 72  |     | 19:19        | 90N | 01:02 | 285 |
| 2024 Jan 20 (Sat) | 13:26 | 67  |     | 20:11        | 86N | 02:00 | 291 |
| 2024 Jan 21 (Sun) | 14:14 | 63  |     | 21:05        | 82N | 02:59 | 296 |
| 2024 Jan 22 (Mon) | 15:05 | 61  |     | 22:00        | 81N | 03:58 | 299 |
| 2024 Jan 23 (Tue) | 15:59 | 60  |     | 22:55        | 81N | 04:55 | 300 |

|      |     |    |       |       |     |       |     |       |     |
|------|-----|----|-------|-------|-----|-------|-----|-------|-----|
| 2024 | Jan | 24 | (Wed) | 16:55 | 61  | 23:48 | 82N | 05:50 | 299 |
| 2024 | Jan | 25 | (Thu) | 17:51 | 64  |       |     | 06:39 | 297 |
| 2024 | Jan | 26 | (Fri) | 18:45 | 68  | 00:39 | 85N | 07:23 | 294 |
| 2024 | Jan | 27 | (Sat) | 19:36 | 73  | 01:26 | 89N | 08:03 | 290 |
| 2024 | Jan | 28 | (Sun) | 20:26 | 78  | 02:10 | 87S | 08:39 | 284 |
| 2024 | Jan | 29 | (Mon) | 21:13 | 84  | 02:51 | 82S | 09:12 | 279 |
| 2024 | Jan | 30 | (Tue) | 22:00 | 90  | 03:30 | 76S | 09:43 | 273 |
| 2024 | Jan | 31 | (Wed) | 22:47 | 96  | 04:09 | 70S | 10:14 | 267 |
| 2024 | Feb | 01 | (Thu) | 23:35 | 102 | 04:48 | 65S | 10:46 | 261 |
| 2024 | Feb | 02 | (Fri) |       |     | 05:29 | 59S | 11:20 | 255 |
| 2024 | Feb | 03 | (Sat) | 00:26 | 108 | 06:13 | 54S | 11:57 | 250 |
| 2024 | Feb | 04 | (Sun) | 01:20 | 113 | 07:01 | 49S | 12:39 | 245 |
| 2024 | Feb | 05 | (Mon) | 02:18 | 117 | 07:54 | 46S | 13:28 | 242 |
| 2024 | Feb | 06 | (Tue) | 03:20 | 119 | 08:52 | 44S | 14:24 | 240 |
| 2024 | Feb | 07 | (Wed) | 04:22 | 120 | 09:54 | 44S | 15:27 | 240 |
| 2024 | Feb | 08 | (Thu) | 05:23 | 119 | 10:58 | 45S | 16:34 | 243 |
| 2024 | Feb | 09 | (Fri) | 06:19 | 115 | 11:59 | 49S | 17:43 | 247 |
| 2024 | Feb | 10 | (Sat) | 07:11 | 109 | 12:58 | 55S | 18:49 | 254 |
| 2024 | Feb | 11 | (Sun) | 07:57 | 103 | 13:53 | 62S | 19:53 | 261 |
| 2024 | Feb | 12 | (Mon) | 08:39 | 95  | 14:44 | 69S | 20:55 | 269 |
| 2024 | Feb | 13 | (Tue) | 09:19 | 88  | 15:34 | 76S | 21:54 | 276 |
| 2024 | Feb | 14 | (Wed) | 09:59 | 80  | 16:24 | 83S | 22:54 | 283 |
| 2024 | Feb | 15 | (Thu) | 10:40 | 74  | 17:15 | 90S | 23:53 | 290 |
| 2024 | Feb | 16 | (Fri) | 11:24 | 68  | 18:07 | 87N |       |     |
| 2024 | Feb | 17 | (Sat) | 12:11 | 64  | 19:00 | 83N | 00:53 | 295 |
| 2024 | Feb | 18 | (Sun) | 13:01 | 61  | 19:56 | 81N | 01:53 | 298 |
| 2024 | Feb | 19 | (Mon) | 13:55 | 60  | 20:51 | 80N | 02:51 | 300 |
| 2024 | Feb | 20 | (Tue) | 14:50 | 61  | 21:44 | 82N | 03:46 | 300 |
| 2024 | Feb | 21 | (Wed) | 15:46 | 63  | 22:35 | 84N | 04:37 | 298 |
| 2024 | Feb | 22 | (Thu) | 16:40 | 67  | 23:23 | 88N | 05:22 | 295 |
| 2024 | Feb | 23 | (Fri) | 17:32 | 71  |       |     | 06:03 | 291 |
| 2024 | Feb | 24 | (Sat) | 18:21 | 76  | 00:07 | 89S | 06:39 | 286 |
| 2024 | Feb | 25 | (Sun) | 19:09 | 82  | 00:49 | 84S | 07:13 | 281 |
| 2024 | Feb | 26 | (Mon) | 19:56 | 88  | 01:29 | 78S | 07:45 | 275 |
| 2024 | Feb | 27 | (Tue) | 20:43 | 94  | 02:08 | 72S | 08:15 | 269 |
| 2024 | Feb | 28 | (Wed) | 21:31 | 100 | 02:47 | 66S | 08:47 | 263 |
| 2024 | Feb | 29 | (Thu) | 22:20 | 106 | 03:27 | 61S | 09:20 | 257 |
| 2024 | Mar | 01 | (Fri) | 23:12 | 111 | 04:09 | 55S | 09:55 | 251 |
| 2024 | Mar | 02 | (Sat) |       |     | 04:55 | 51S | 10:35 | 247 |
| 2024 | Mar | 03 | (Sun) | 00:08 | 116 | 05:45 | 47S | 11:20 | 243 |
| 2024 | Mar | 04 | (Mon) | 01:06 | 119 | 06:39 | 44S | 12:11 | 240 |
| 2024 | Mar | 05 | (Tue) | 02:06 | 120 | 07:38 | 43S | 13:09 | 240 |
| 2024 | Mar | 06 | (Wed) | 03:06 | 120 | 08:38 | 44S | 14:12 | 241 |
| 2024 | Mar | 07 | (Thu) | 04:03 | 117 | 09:39 | 47S | 15:19 | 245 |
| 2024 | Mar | 08 | (Fri) | 04:56 | 113 | 10:39 | 52S | 16:25 | 250 |
| 2024 | Mar | 09 | (Sat) | 05:44 | 106 | 11:35 | 58S | 17:30 | 257 |
| 2024 | Mar | 10 | (Sun) | 06:28 | 99  | 12:28 | 65S | 18:34 | 265 |
| 2024 | Mar | 11 | (Mon) | 07:10 | 91  | 13:20 | 73S | 19:35 | 272 |
| 2024 | Mar | 12 | (Tue) | 07:51 | 84  | 14:11 | 80S | 20:37 | 280 |
| 2024 | Mar | 13 | (Wed) | 08:33 | 76  | 15:03 | 87S | 21:39 | 287 |
| 2024 | Mar | 14 | (Thu) | 09:17 | 70  | 15:57 | 89N | 22:41 | 293 |
| 2024 | Mar | 15 | (Fri) | 10:04 | 65  | 16:52 | 84N | 23:43 | 297 |
| 2024 | Mar | 16 | (Sat) | 10:55 | 62  | 17:48 | 81N |       |     |
| 2024 | Mar | 17 | (Sun) | 11:49 | 60  | 18:45 | 80N | 00:44 | 300 |
| 2024 | Mar | 18 | (Mon) | 12:44 | 60  | 19:40 | 81N | 01:41 | 300 |
| 2024 | Mar | 19 | (Tue) | 13:41 | 62  | 20:32 | 83N | 02:34 | 299 |
| 2024 | Mar | 20 | (Wed) | 14:35 | 65  | 21:21 | 86N | 03:21 | 296 |
| 2024 | Mar | 21 | (Thu) | 15:28 | 69  | 22:06 | 91S | 04:03 | 293 |
| 2024 | Mar | 22 | (Fri) | 16:18 | 75  | 22:48 | 86S | 04:40 | 288 |
| 2024 | Mar | 23 | (Sat) | 17:06 | 80  | 23:29 | 80S | 05:15 | 283 |
| 2024 | Mar | 24 | (Sun) | 17:53 | 86  |       |     | 05:47 | 277 |
| 2024 | Mar | 25 | (Mon) | 18:40 | 92  | 00:08 | 74S | 06:18 | 271 |
| 2024 | Mar | 26 | (Tue) | 19:28 | 99  | 00:46 | 68S | 06:49 | 265 |
| 2024 | Mar | 27 | (Wed) | 20:17 | 104 | 01:26 | 63S | 07:21 | 259 |
| 2024 | Mar | 28 | (Thu) | 21:08 | 110 | 02:08 | 57S | 07:56 | 253 |
| 2024 | Mar | 29 | (Fri) | 22:02 | 114 | 02:52 | 52S | 08:34 | 248 |
| 2024 | Mar | 30 | (Sat) | 22:59 | 118 | 03:41 | 48S | 09:17 | 244 |
| 2024 | Mar | 31 | (Sun) | 23:58 | 120 | 04:33 | 45S | 10:05 | 241 |
| 2024 | Apr | 01 | (Mon) |       |     | 05:29 | 43S | 11:00 | 240 |
| 2024 | Apr | 02 | (Tue) | 00:56 | 120 | 06:27 | 43S | 11:59 | 240 |
| 2024 | Apr | 03 | (Wed) | 01:53 | 118 | 07:26 | 45S | 13:02 | 243 |
| 2024 | Apr | 04 | (Thu) | 02:45 | 115 | 08:24 | 49S | 14:07 | 247 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Apr 05 (Fri) | 03:33 110 | 09:20 55S | 15:10 253 |
| 2024 Apr 06 (Sat) | 04:18 103 | 10:13 61S | 16:13 260 |
| 2024 Apr 07 (Sun) | 05:00 96  | 11:04 69S | 17:14 268 |
| 2024 Apr 08 (Mon) | 05:40 88  | 11:55 76S | 18:15 276 |
| 2024 Apr 09 (Tue) | 06:22 80  | 12:47 83S | 19:18 284 |
| 2024 Apr 10 (Wed) | 07:05 73  | 13:41 90S | 20:21 290 |
| 2024 Apr 11 (Thu) | 07:52 67  | 14:37 86N | 21:25 295 |
| 2024 Apr 12 (Fri) | 08:43 63  | 15:35 82N | 22:29 299 |
| 2024 Apr 13 (Sat) | 09:37 60  | 16:33 81N | 23:30 300 |
| 2024 Apr 14 (Sun) | 10:34 60  | 17:31 80N |           |
| 2024 Apr 15 (Mon) | 11:32 61  | 18:26 82N | 00:26 300 |
| 2024 Apr 16 (Tue) | 12:28 64  | 19:16 85N | 01:17 298 |
| 2024 Apr 17 (Wed) | 13:22 68  | 20:03 89N | 02:01 294 |
| 2024 Apr 18 (Thu) | 14:13 73  | 20:46 87S | 02:40 290 |
| 2024 Apr 19 (Fri) | 15:02 78  | 21:27 82S | 03:16 284 |
| 2024 Apr 20 (Sat) | 15:50 84  | 22:07 76S | 03:48 279 |
| 2024 Apr 21 (Sun) | 16:36 90  | 22:45 70S | 04:20 273 |
| 2024 Apr 22 (Mon) | 17:24 96  | 23:25 65S | 04:51 267 |
| 2024 Apr 23 (Tue) | 18:12 102 |           | 05:23 261 |
| 2024 Apr 24 (Wed) | 19:03 108 | 00:06 59S | 05:56 255 |
| 2024 Apr 25 (Thu) | 19:57 113 | 00:50 54S | 06:34 250 |
| 2024 Apr 26 (Fri) | 20:54 117 | 01:38 49S | 07:15 245 |
| 2024 Apr 27 (Sat) | 21:52 119 | 02:29 46S | 08:02 242 |
| 2024 Apr 28 (Sun) | 22:51 120 | 03:24 44S | 08:55 240 |
| 2024 Apr 29 (Mon) | 23:48 119 | 04:22 43S | 09:53 240 |
| 2024 Apr 30 (Tue) |           | 05:20 45S | 10:55 242 |
| 2024 May 01 (Wed) | 00:40 116 | 06:17 48S | 11:57 246 |
| 2024 May 02 (Thu) | 01:29 112 | 07:12 53S | 12:59 251 |
| 2024 May 03 (Fri) | 02:13 106 | 08:04 58S | 13:59 257 |
| 2024 May 04 (Sat) | 02:54 99  | 08:54 65S | 14:59 265 |
| 2024 May 05 (Sun) | 03:34 91  | 09:43 73S | 15:58 272 |
| 2024 May 06 (Mon) | 04:13 84  | 10:33 80S | 16:58 280 |
| 2024 May 07 (Tue) | 04:55 77  | 11:25 87S | 18:00 287 |
| 2024 May 08 (Wed) | 05:39 70  | 12:20 89N | 19:04 293 |
| 2024 May 09 (Thu) | 06:28 65  | 13:17 84N | 20:09 297 |
| 2024 May 10 (Fri) | 07:22 61  | 14:17 81N | 21:13 300 |
| 2024 May 11 (Sat) | 08:19 60  | 15:16 80N | 22:13 300 |
| 2024 May 12 (Sun) | 09:18 60  | 16:14 81N | 23:08 299 |
| 2024 May 13 (Mon) | 10:17 63  | 17:08 84N | 23:55 296 |
| 2024 May 14 (Tue) | 11:13 66  | 17:57 88N |           |
| 2024 May 15 (Wed) | 12:06 71  | 18:42 89S | 00:37 291 |
| 2024 May 16 (Thu) | 12:56 76  | 19:24 84S | 01:14 286 |
| 2024 May 17 (Fri) | 13:44 82  | 20:04 78S | 01:48 281 |
| 2024 May 18 (Sat) | 14:31 88  | 20:43 73S | 02:20 275 |
| 2024 May 19 (Sun) | 15:18 94  | 21:22 67S | 02:51 269 |
| 2024 May 20 (Mon) | 16:06 100 | 22:03 61S | 03:22 263 |
| 2024 May 21 (Tue) | 16:56 106 | 22:46 55S | 03:56 257 |
| 2024 May 22 (Wed) | 17:49 111 | 23:32 51S | 04:32 251 |
| 2024 May 23 (Thu) | 18:46 116 |           | 05:12 247 |
| 2024 May 24 (Fri) | 19:45 119 | 00:23 47S | 05:58 243 |
| 2024 May 25 (Sat) | 20:45 120 | 01:18 44S | 06:50 240 |
| 2024 May 26 (Sun) | 21:43 120 | 02:16 43S | 07:47 240 |
| 2024 May 27 (Mon) | 22:37 117 | 03:15 44S | 08:48 241 |
| 2024 May 28 (Tue) | 23:27 113 | 04:13 47S | 09:51 245 |
| 2024 May 29 (Wed) |           | 05:08 51S | 10:53 249 |
| 2024 May 30 (Thu) | 00:12 108 | 06:00 57S | 11:53 255 |
| 2024 May 31 (Fri) | 00:53 101 | 06:50 63S | 12:52 262 |
| 2024 Jun 01 (Sat) | 01:32 94  | 07:38 70S | 13:49 270 |
| 2024 Jun 02 (Sun) | 02:10 87  | 08:26 77S | 14:47 277 |
| 2024 Jun 03 (Mon) | 02:50 79  | 09:15 84S | 15:46 284 |
| 2024 Jun 04 (Tue) | 03:32 73  | 10:07 90S | 16:48 290 |
| 2024 Jun 05 (Wed) | 04:18 67  | 11:02 86N | 17:51 295 |
| 2024 Jun 06 (Thu) | 05:08 63  | 12:01 82N | 18:55 299 |
| 2024 Jun 07 (Fri) | 06:04 61  | 13:00 81N | 19:58 300 |
| 2024 Jun 08 (Sat) | 07:03 60  | 14:00 81N | 20:55 299 |
| 2024 Jun 09 (Sun) | 08:03 62  | 14:56 83N | 21:46 297 |
| 2024 Jun 10 (Mon) | 09:01 65  | 15:48 86N | 22:31 293 |
| 2024 Jun 11 (Tue) | 09:56 69  | 16:36 90N | 23:11 288 |
| 2024 Jun 12 (Wed) | 10:48 74  | 17:19 86S | 23:46 283 |
| 2024 Jun 13 (Thu) | 11:37 80  | 18:00 81S |           |
| 2024 Jun 14 (Fri) | 12:25 86  | 18:39 75S | 00:19 277 |
| 2024 Jun 15 (Sat) | 13:11 92  | 19:18 69S | 00:50 271 |

|      |     |    |       |       |     |       |     |       |     |
|------|-----|----|-------|-------|-----|-------|-----|-------|-----|
| 2024 | Jun | 16 | (Sun) | 13:59 | 98  | 19:58 | 63S | 01:21 | 265 |
| 2024 | Jun | 17 | (Mon) | 14:48 | 104 | 20:40 | 58S | 01:54 | 259 |
| 2024 | Jun | 18 | (Tue) | 15:39 | 109 | 21:25 | 52S | 02:28 | 254 |
| 2024 | Jun | 19 | (Wed) | 16:34 | 114 | 22:14 | 48S | 03:07 | 248 |
| 2024 | Jun | 20 | (Thu) | 17:33 | 118 | 23:07 | 45S | 03:50 | 244 |
| 2024 | Jun | 21 | (Fri) | 18:33 | 120 |       |     | 04:40 | 241 |
| 2024 | Jun | 22 | (Sat) | 19:33 | 120 | 00:05 | 43S | 05:37 | 240 |
| 2024 | Jun | 23 | (Sun) | 20:30 | 118 | 01:05 | 44S | 06:38 | 241 |
| 2024 | Jun | 24 | (Mon) | 21:23 | 114 | 02:05 | 46S | 07:42 | 243 |
| 2024 | Jun | 25 | (Tue) | 22:10 | 109 | 03:03 | 50S | 08:46 | 248 |
| 2024 | Jun | 26 | (Wed) | 22:53 | 103 | 03:57 | 55S | 09:47 | 254 |
| 2024 | Jun | 27 | (Thu) | 23:32 | 96  | 04:48 | 61S | 10:47 | 260 |
| 2024 | Jun | 28 | (Fri) |       |     | 05:36 | 68S | 11:45 | 268 |
| 2024 | Jun | 29 | (Sat) | 00:11 | 89  | 06:24 | 75S | 12:42 | 275 |
| 2024 | Jun | 30 | (Sun) | 00:49 | 81  | 07:12 | 82S | 13:39 | 282 |
| 2024 | Jul | 01 | (Mon) | 01:29 | 75  | 08:02 | 89S | 14:39 | 289 |
| 2024 | Jul | 02 | (Tue) | 02:13 | 69  | 08:54 | 88N | 15:40 | 294 |
| 2024 | Jul | 03 | (Wed) | 03:01 | 64  | 09:50 | 83N | 16:43 | 298 |
| 2024 | Jul | 04 | (Thu) | 03:53 | 61  | 10:48 | 81N | 17:45 | 300 |
| 2024 | Jul | 05 | (Fri) | 04:50 | 60  | 11:47 | 80N | 18:44 | 300 |
| 2024 | Jul | 06 | (Sat) | 05:50 | 61  | 12:45 | 82N | 19:37 | 298 |
| 2024 | Jul | 07 | (Sun) | 06:49 | 63  | 13:38 | 84N | 20:25 | 295 |
| 2024 | Jul | 08 | (Mon) | 07:45 | 67  | 14:28 | 88N | 21:07 | 290 |
| 2024 | Jul | 09 | (Tue) | 08:39 | 72  | 15:13 | 88S | 21:44 | 285 |
| 2024 | Jul | 10 | (Wed) | 09:29 | 78  | 15:56 | 83S | 22:17 | 279 |
| 2024 | Jul | 11 | (Thu) | 10:18 | 84  | 16:35 | 77S | 22:49 | 273 |
| 2024 | Jul | 12 | (Fri) | 11:05 | 90  | 17:14 | 71S | 23:20 | 267 |
| 2024 | Jul | 13 | (Sat) | 11:51 | 96  | 17:53 | 65S | 23:52 | 261 |
| 2024 | Jul | 14 | (Sun) | 12:39 | 102 | 18:34 | 60S |       |     |
| 2024 | Jul | 15 | (Mon) | 13:29 | 107 | 19:17 | 54S | 00:25 | 256 |
| 2024 | Jul | 16 | (Tue) | 14:22 | 112 | 20:03 | 50S | 01:01 | 250 |
| 2024 | Jul | 17 | (Wed) | 15:18 | 116 | 20:55 | 46S | 01:42 | 246 |
| 2024 | Jul | 18 | (Thu) | 16:18 | 119 | 21:50 | 44S | 02:29 | 242 |
| 2024 | Jul | 19 | (Fri) | 17:18 | 120 | 22:50 | 43S | 03:22 | 240 |
| 2024 | Jul | 20 | (Sat) | 18:18 | 119 | 23:51 | 45S | 04:22 | 240 |
| 2024 | Jul | 21 | (Sun) | 19:13 | 116 |       |     | 05:26 | 242 |
| 2024 | Jul | 22 | (Mon) | 20:03 | 111 | 00:51 | 48S | 06:31 | 246 |
| 2024 | Jul | 23 | (Tue) | 20:49 | 105 | 01:48 | 53S | 07:36 | 251 |
| 2024 | Jul | 24 | (Wed) | 21:31 | 98  | 02:41 | 59S | 08:38 | 258 |
| 2024 | Jul | 25 | (Thu) | 22:10 | 91  | 03:32 | 66S | 09:38 | 265 |
| 2024 | Jul | 26 | (Fri) | 22:49 | 83  | 04:21 | 73S | 10:36 | 273 |
| 2024 | Jul | 27 | (Sat) | 23:29 | 76  | 05:09 | 80S | 11:34 | 280 |
| 2024 | Jul | 28 | (Sun) |       |     | 05:59 | 87S | 12:34 | 287 |
| 2024 | Jul | 29 | (Mon) | 00:11 | 70  | 06:51 | 89N | 13:34 | 293 |
| 2024 | Jul | 30 | (Tue) | 00:57 | 65  | 07:45 | 84N | 14:36 | 297 |
| 2024 | Jul | 31 | (Wed) | 01:48 | 62  | 08:42 | 81N | 15:37 | 299 |
| 2024 | Aug | 01 | (Thu) | 02:43 | 60  | 09:40 | 80N | 16:36 | 300 |
| 2024 | Aug | 02 | (Fri) | 03:41 | 60  | 10:37 | 81N | 17:31 | 299 |
| 2024 | Aug | 03 | (Sat) | 04:39 | 62  | 11:31 | 83N | 18:20 | 296 |
| 2024 | Aug | 04 | (Sun) | 05:36 | 66  | 12:22 | 87N | 19:03 | 292 |
| 2024 | Aug | 05 | (Mon) | 06:31 | 70  | 13:08 | 90S | 19:42 | 287 |
| 2024 | Aug | 06 | (Tue) | 07:23 | 76  | 13:52 | 85S | 20:17 | 281 |
| 2024 | Aug | 07 | (Wed) | 08:12 | 81  | 14:32 | 79S | 20:49 | 276 |
| 2024 | Aug | 08 | (Thu) | 08:59 | 87  | 15:11 | 73S | 21:20 | 269 |
| 2024 | Aug | 09 | (Fri) | 09:46 | 94  | 15:50 | 67S | 21:51 | 263 |
| 2024 | Aug | 10 | (Sat) | 10:33 | 100 | 16:30 | 62S | 22:23 | 258 |
| 2024 | Aug | 11 | (Sun) | 11:21 | 105 | 17:11 | 56S | 22:58 | 252 |
| 2024 | Aug | 12 | (Mon) | 12:12 | 111 | 17:55 | 51S | 23:36 | 247 |
| 2024 | Aug | 13 | (Tue) | 13:06 | 115 | 18:44 | 47S |       |     |
| 2024 | Aug | 14 | (Wed) | 14:03 | 118 | 19:36 | 45S | 00:19 | 243 |
| 2024 | Aug | 15 | (Thu) | 15:02 | 120 | 20:33 | 43S | 01:08 | 241 |
| 2024 | Aug | 16 | (Fri) | 16:01 | 120 | 21:33 | 44S | 02:04 | 240 |
| 2024 | Aug | 17 | (Sat) | 16:58 | 118 | 22:33 | 46S | 03:06 | 241 |
| 2024 | Aug | 18 | (Sun) | 17:51 | 114 | 23:32 | 50S | 04:11 | 244 |
| 2024 | Aug | 19 | (Mon) | 18:40 | 108 |       |     | 05:16 | 249 |
| 2024 | Aug | 20 | (Tue) | 19:24 | 101 | 00:28 | 56S | 06:21 | 255 |
| 2024 | Aug | 21 | (Wed) | 20:05 | 94  | 01:21 | 63S | 07:23 | 262 |
| 2024 | Aug | 22 | (Thu) | 20:46 | 86  | 02:12 | 70S | 08:24 | 270 |
| 2024 | Aug | 23 | (Fri) | 21:26 | 79  | 03:03 | 78S | 09:25 | 278 |
| 2024 | Aug | 24 | (Sat) | 22:09 | 72  | 03:53 | 85S | 10:25 | 285 |
| 2024 | Aug | 25 | (Sun) | 22:55 | 66  | 04:46 | 90N | 11:27 | 291 |
| 2024 | Aug | 26 | (Mon) | 23:44 | 62  | 05:40 | 85N | 12:30 | 296 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Aug 27 (Tue) |           | 06:37 82N | 13:32 299 |
| 2024 Aug 28 (Wed) | 00:38 60  | 07:35 80N | 14:32 300 |
| 2024 Aug 29 (Thu) | 01:35 60  | 08:32 81N | 15:27 300 |
| 2024 Aug 30 (Fri) | 02:33 61  | 09:27 82N | 16:18 297 |
| 2024 Aug 31 (Sat) | 03:31 64  | 10:18 86N | 17:02 294 |
| 2024 Sep 01 (Sun) | 04:25 68  | 11:06 90N | 17:42 289 |
| 2024 Sep 02 (Mon) | 05:18 74  | 11:50 87S | 18:17 283 |
| 2024 Sep 03 (Tue) | 06:07 79  | 12:31 81S | 18:50 278 |
| 2024 Sep 04 (Wed) | 06:55 85  | 13:10 75S | 19:21 272 |
| 2024 Sep 05 (Thu) | 07:42 92  | 13:49 69S | 19:52 265 |
| 2024 Sep 06 (Fri) | 08:28 98  | 14:28 63S | 20:24 259 |
| 2024 Sep 07 (Sat) | 09:16 103 | 15:08 58S | 20:57 254 |
| 2024 Sep 08 (Sun) | 10:06 109 | 15:51 53S | 21:33 249 |
| 2024 Sep 09 (Mon) | 10:58 114 | 16:37 49S | 22:14 245 |
| 2024 Sep 10 (Tue) | 11:53 117 | 17:27 45S | 23:00 241 |
| 2024 Sep 11 (Wed) | 12:50 120 | 18:21 43S | 23:51 240 |
| 2024 Sep 12 (Thu) | 13:48 120 | 19:18 43S |           |
| 2024 Sep 13 (Fri) | 14:44 119 | 20:17 45S | 00:49 240 |
| 2024 Sep 14 (Sat) | 15:38 116 | 21:15 48S | 01:51 242 |
| 2024 Sep 15 (Sun) | 16:27 111 | 22:11 53S | 02:55 246 |
| 2024 Sep 16 (Mon) | 17:13 105 | 23:05 59S | 03:59 251 |
| 2024 Sep 17 (Tue) | 17:56 98  | 23:58 66S | 05:03 258 |
| 2024 Sep 18 (Wed) | 18:37 90  |           | 06:05 266 |
| 2024 Sep 19 (Thu) | 19:18 82  | 00:49 74S | 07:07 274 |
| 2024 Sep 20 (Fri) | 20:01 75  | 01:41 82S | 08:09 282 |
| 2024 Sep 21 (Sat) | 20:47 68  | 02:34 89S | 09:13 289 |
| 2024 Sep 22 (Sun) | 21:37 64  | 03:30 87N | 10:17 294 |
| 2024 Sep 23 (Mon) | 22:32 61  | 04:28 83N | 11:22 298 |
| 2024 Sep 24 (Tue) | 23:29 60  | 05:28 81N | 12:25 300 |
| 2024 Sep 25 (Wed) |           | 06:26 80N | 13:23 300 |
| 2024 Sep 26 (Thu) | 00:28 61  | 07:23 82N | 14:16 298 |
| 2024 Sep 27 (Fri) | 01:26 63  | 08:15 84N | 15:02 295 |
| 2024 Sep 28 (Sat) | 02:21 67  | 09:04 88N | 15:43 290 |
| 2024 Sep 29 (Sun) | 03:14 72  | 09:49 88S | 16:19 285 |
| 2024 Sep 30 (Mon) | 04:04 77  | 10:30 83S | 16:52 280 |
| 2024 Oct 01 (Tue) | 04:52 83  | 11:10 77S | 17:24 274 |
| 2024 Oct 02 (Wed) | 05:39 90  | 11:49 71S | 17:55 267 |
| 2024 Oct 03 (Thu) | 06:25 96  | 12:27 65S | 18:26 261 |
| 2024 Oct 04 (Fri) | 07:13 102 | 13:07 60S | 18:58 256 |
| 2024 Oct 05 (Sat) | 08:02 107 | 13:49 54S | 19:34 250 |
| 2024 Oct 06 (Sun) | 08:53 112 | 14:34 50S | 20:12 246 |
| 2024 Oct 07 (Mon) | 09:47 116 | 15:22 46S | 20:56 242 |
| 2024 Oct 08 (Tue) | 10:42 119 | 16:14 44S | 21:45 240 |
| 2024 Oct 09 (Wed) | 11:39 120 | 17:09 43S | 22:39 240 |
| 2024 Oct 10 (Thu) | 12:35 120 | 18:06 44S | 23:38 241 |
| 2024 Oct 11 (Fri) | 13:28 118 | 19:02 46S |           |
| 2024 Oct 12 (Sat) | 14:17 114 | 19:57 50S | 00:39 244 |
| 2024 Oct 13 (Sun) | 15:03 108 | 20:51 56S | 01:41 249 |
| 2024 Oct 14 (Mon) | 15:46 102 | 21:42 63S | 02:43 255 |
| 2024 Oct 15 (Tue) | 16:27 94  | 22:33 70S | 03:44 262 |
| 2024 Oct 16 (Wed) | 17:08 86  | 23:25 78S | 04:45 270 |
| 2024 Oct 17 (Thu) | 17:50 79  |           | 05:47 278 |
| 2024 Oct 18 (Fri) | 18:35 72  | 00:18 85S | 06:51 285 |
| 2024 Oct 19 (Sat) | 19:24 66  | 01:13 90N | 07:57 292 |
| 2024 Oct 20 (Sun) | 20:19 62  | 02:12 85N | 09:04 297 |
| 2024 Oct 21 (Mon) | 21:17 60  | 03:13 81N | 10:10 300 |
| 2024 Oct 22 (Tue) | 22:18 60  | 04:15 80N | 11:13 300 |
| 2024 Oct 23 (Wed) | 23:18 62  | 05:14 81N | 12:09 299 |
| 2024 Oct 24 (Thu) |           | 06:10 83N | 12:59 296 |
| 2024 Oct 25 (Fri) | 00:15 66  | 07:00 87N | 13:42 292 |
| 2024 Oct 26 (Sat) | 01:09 70  | 07:47 90S | 14:20 287 |
| 2024 Oct 27 (Sun) | 02:00 76  | 08:29 85S | 14:54 281 |
| 2024 Oct 28 (Mon) | 02:49 81  | 09:09 79S | 15:26 276 |
| 2024 Oct 29 (Tue) | 03:36 87  | 09:48 73S | 15:57 269 |
| 2024 Oct 30 (Wed) | 04:22 94  | 10:27 67S | 16:28 263 |
| 2024 Oct 31 (Thu) | 05:09 100 | 11:07 61S | 17:00 258 |
| 2024 Nov 01 (Fri) | 05:58 105 | 11:48 56S | 17:34 252 |
| 2024 Nov 02 (Sat) | 06:49 111 | 12:32 51S | 18:12 247 |
| 2024 Nov 03 (Sun) | 07:42 115 | 13:20 47S | 18:55 243 |
| 2024 Nov 04 (Mon) | 08:38 118 | 14:11 45S | 19:42 241 |
| 2024 Nov 05 (Tue) | 09:34 120 | 15:05 43S | 20:35 240 |
| 2024 Nov 06 (Wed) | 10:30 120 | 16:00 43S | 21:32 240 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Nov 07 (Thu) | 11:23 119 | 16:56 45S | 22:31 243 |
| 2024 Nov 08 (Fri) | 12:12 115 | 17:50 49S | 23:31 247 |
| 2024 Nov 09 (Sat) | 12:58 110 | 18:42 54S |           |
| 2024 Nov 10 (Sun) | 13:40 104 | 19:33 60S | 00:31 252 |
| 2024 Nov 11 (Mon) | 14:20 98  | 20:22 67S | 01:30 259 |
| 2024 Nov 12 (Tue) | 14:59 90  | 21:11 74S | 02:28 266 |
| 2024 Nov 13 (Wed) | 15:39 82  | 22:01 81S | 03:27 274 |
| 2024 Nov 14 (Thu) | 16:22 75  | 22:55 88S | 04:29 281 |
| 2024 Nov 15 (Fri) | 17:09 69  | 23:52 87N | 05:33 288 |
| 2024 Nov 16 (Sat) | 18:01 64  |           | 06:39 294 |
| 2024 Nov 17 (Sun) | 18:59 61  | 00:52 83N | 07:47 298 |
| 2024 Nov 18 (Mon) | 20:00 60  | 01:55 81N | 08:54 300 |
| 2024 Nov 19 (Tue) | 21:03 61  | 02:58 80N | 09:55 300 |
| 2024 Nov 20 (Wed) | 22:03 64  | 03:57 82N | 10:49 297 |
| 2024 Nov 21 (Thu) | 23:00 68  | 04:52 85N | 11:36 294 |
| 2024 Nov 22 (Fri) | 23:54 74  | 05:41 90N | 12:17 289 |
| 2024 Nov 23 (Sat) |           | 06:26 86S | 12:54 283 |
| 2024 Nov 24 (Sun) | 00:44 79  | 07:07 81S | 13:27 278 |
| 2024 Nov 25 (Mon) | 01:31 85  | 07:47 75S | 13:58 271 |
| 2024 Nov 26 (Tue) | 02:18 92  | 08:25 69S | 14:29 265 |
| 2024 Nov 27 (Wed) | 03:05 98  | 09:04 63S | 15:00 260 |
| 2024 Nov 28 (Thu) | 03:53 103 | 09:45 58S | 15:34 254 |
| 2024 Nov 29 (Fri) | 04:43 109 | 10:28 53S | 16:11 249 |
| 2024 Nov 30 (Sat) | 05:36 114 | 11:15 49S | 16:52 245 |
| 2024 Dec 01 (Sun) | 06:31 117 | 12:05 45S | 17:38 242 |
| 2024 Dec 02 (Mon) | 07:28 119 | 12:59 44S | 18:30 240 |
| 2024 Dec 03 (Tue) | 08:25 120 | 13:55 43S | 19:26 240 |
| 2024 Dec 04 (Wed) | 09:19 119 | 14:52 45S | 20:26 242 |
| 2024 Dec 05 (Thu) | 10:10 116 | 15:47 48S | 21:26 246 |
| 2024 Dec 06 (Fri) | 10:57 112 | 16:39 52S | 22:25 251 |
| 2024 Dec 07 (Sat) | 11:39 106 | 17:29 58S | 23:23 257 |
| 2024 Dec 08 (Sun) | 12:19 100 | 18:17 64S |           |
| 2024 Dec 09 (Mon) | 12:57 93  | 19:04 71S | 00:20 264 |
| 2024 Dec 10 (Tue) | 13:35 85  | 19:52 78S | 01:17 271 |
| 2024 Dec 11 (Wed) | 14:15 78  | 20:42 85S | 02:15 278 |
| 2024 Dec 12 (Thu) | 14:58 72  | 21:36 90N | 03:15 285 |
| 2024 Dec 13 (Fri) | 15:46 66  | 22:34 85N | 04:19 292 |
| 2024 Dec 14 (Sat) | 16:41 62  | 23:35 82N | 05:25 296 |
| 2024 Dec 15 (Sun) | 17:40 60  |           | 06:32 299 |
| 2024 Dec 16 (Mon) | 18:43 60  | 00:38 80N | 07:36 300 |
| 2024 Dec 17 (Tue) | 19:46 63  | 01:40 81N | 08:35 299 |
| 2024 Dec 18 (Wed) | 20:46 67  | 02:38 84N | 09:26 295 |
| 2024 Dec 19 (Thu) | 21:42 71  | 03:30 88N | 10:11 291 |
| 2024 Dec 20 (Fri) | 22:35 77  | 04:18 89S | 10:50 286 |
| 2024 Dec 21 (Sat) | 23:24 83  | 05:02 83S | 11:24 280 |
| 2024 Dec 22 (Sun) |           | 05:42 77S | 11:57 274 |
| 2024 Dec 23 (Mon) | 00:12 89  | 06:22 71S | 12:28 268 |
| 2024 Dec 24 (Tue) | 00:58 95  | 07:01 65S | 12:59 262 |
| 2024 Dec 25 (Wed) | 01:46 101 | 07:41 60S | 13:32 256 |
| 2024 Dec 26 (Thu) | 02:35 107 | 08:23 55S | 14:07 251 |
| 2024 Dec 27 (Fri) | 03:26 112 | 09:08 50S | 14:47 246 |
| 2024 Dec 28 (Sat) | 04:21 116 | 09:57 47S | 15:31 243 |
| 2024 Dec 29 (Sun) | 05:17 119 | 10:50 44S | 16:21 240 |
| 2024 Dec 30 (Mon) | 06:15 120 | 11:46 43S | 17:17 240 |
| 2024 Dec 31 (Tue) | 07:12 120 | 12:43 44S | 18:16 241 |