

# Sun

Phetchaburi

Location: E 99°51'57.5", N13°07'01.2", 0m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone)    | Begin<br>Nautical<br>Twilight | Rise      | Az. | Transit Alt. | Set       | Az. | End<br>Nautical<br>Twilight |
|-------------------|-------------------------------|-----------|-----|--------------|-----------|-----|-----------------------------|
|                   | h m                           | h m °     |     | h m °        | h m °     |     | h m                         |
| 2024 Jan 01 (Mon) | 05:53                         | 06:43 114 |     | 12:24 55S    | 18:05 247 |     | 18:54                       |
| 2024 Jan 02 (Tue) | 05:54                         | 06:43 113 |     | 12:24 55S    | 18:05 247 |     | 18:55                       |
| 2024 Jan 03 (Wed) | 05:54                         | 06:43 113 |     | 12:25 55S    | 18:06 247 |     | 18:55                       |
| 2024 Jan 04 (Thu) | 05:54                         | 06:44 113 |     | 12:25 55S    | 18:07 247 |     | 18:56                       |
| 2024 Jan 05 (Fri) | 05:55                         | 06:44 113 |     | 12:26 55S    | 18:07 247 |     | 18:57                       |
| 2024 Jan 06 (Sat) | 05:55                         | 06:44 113 |     | 12:26 55S    | 18:08 247 |     | 18:57                       |
| 2024 Jan 07 (Sun) | 05:55                         | 06:45 113 |     | 12:26 55S    | 18:08 247 |     | 18:58                       |
| 2024 Jan 08 (Mon) | 05:56                         | 06:45 113 |     | 12:27 55S    | 18:09 247 |     | 18:58                       |
| 2024 Jan 09 (Tue) | 05:56                         | 06:45 113 |     | 12:27 55S    | 18:09 247 |     | 18:59                       |
| 2024 Jan 10 (Wed) | 05:56                         | 06:46 112 |     | 12:28 56S    | 18:10 248 |     | 18:59                       |
| 2024 Jan 11 (Thu) | 05:57                         | 06:46 112 |     | 12:28 56S    | 18:11 248 |     | 19:00                       |
| 2024 Jan 12 (Fri) | 05:57                         | 06:46 112 |     | 12:29 56S    | 18:11 248 |     | 19:00                       |
| 2024 Jan 13 (Sat) | 05:57                         | 06:46 112 |     | 12:29 56S    | 18:12 248 |     | 19:01                       |
| 2024 Jan 14 (Sun) | 05:58                         | 06:47 112 |     | 12:29 56S    | 18:12 248 |     | 19:01                       |
| 2024 Jan 15 (Mon) | 05:58                         | 06:47 112 |     | 12:30 56S    | 18:13 248 |     | 19:02                       |
| 2024 Jan 16 (Tue) | 05:58                         | 06:47 111 |     | 12:30 57S    | 18:13 249 |     | 19:02                       |
| 2024 Jan 17 (Wed) | 05:58                         | 06:47 111 |     | 12:30 57S    | 18:14 249 |     | 19:03                       |
| 2024 Jan 18 (Thu) | 05:58                         | 06:47 111 |     | 12:31 57S    | 18:14 249 |     | 19:03                       |
| 2024 Jan 19 (Fri) | 05:59                         | 06:47 111 |     | 12:31 57S    | 18:15 249 |     | 19:04                       |
| 2024 Jan 20 (Sat) | 05:59                         | 06:47 111 |     | 12:31 57S    | 18:15 249 |     | 19:04                       |
| 2024 Jan 21 (Sun) | 05:59                         | 06:47 110 |     | 12:32 58S    | 18:16 250 |     | 19:04                       |
| 2024 Jan 22 (Mon) | 05:59                         | 06:47 110 |     | 12:32 58S    | 18:16 250 |     | 19:05                       |
| 2024 Jan 23 (Tue) | 05:59                         | 06:48 110 |     | 12:32 58S    | 18:17 250 |     | 19:05                       |
| 2024 Jan 24 (Wed) | 05:59                         | 06:48 110 |     | 12:32 58S    | 18:17 250 |     | 19:06                       |
| 2024 Jan 25 (Thu) | 05:59                         | 06:48 109 |     | 12:33 59S    | 18:18 251 |     | 19:06                       |
| 2024 Jan 26 (Fri) | 05:59                         | 06:48 109 |     | 12:33 59S    | 18:18 251 |     | 19:07                       |
| 2024 Jan 27 (Sat) | 05:59                         | 06:47 109 |     | 12:33 59S    | 18:19 251 |     | 19:07                       |
| 2024 Jan 28 (Sun) | 05:59                         | 06:47 109 |     | 12:33 59S    | 18:19 251 |     | 19:07                       |
| 2024 Jan 29 (Mon) | 05:59                         | 06:47 108 |     | 12:33 60S    | 18:20 252 |     | 19:08                       |
| 2024 Jan 30 (Tue) | 05:59                         | 06:47 108 |     | 12:34 60S    | 18:20 252 |     | 19:08                       |
| 2024 Jan 31 (Wed) | 05:59                         | 06:47 108 |     | 12:34 60S    | 18:21 252 |     | 19:08                       |
| 2024 Feb 01 (Thu) | 05:59                         | 06:47 108 |     | 12:34 60S    | 18:21 253 |     | 19:09                       |
| 2024 Feb 02 (Fri) | 05:59                         | 06:47 107 |     | 12:34 61S    | 18:22 253 |     | 19:09                       |
| 2024 Feb 03 (Sat) | 05:59                         | 06:47 107 |     | 12:34 61S    | 18:22 253 |     | 19:10                       |
| 2024 Feb 04 (Sun) | 05:59                         | 06:47 107 |     | 12:34 61S    | 18:22 253 |     | 19:10                       |
| 2024 Feb 05 (Mon) | 05:59                         | 06:46 106 |     | 12:34 62S    | 18:23 254 |     | 19:10                       |
| 2024 Feb 06 (Tue) | 05:59                         | 06:46 106 |     | 12:35 62S    | 18:23 254 |     | 19:11                       |
| 2024 Feb 07 (Wed) | 05:59                         | 06:46 106 |     | 12:35 62S    | 18:23 254 |     | 19:11                       |
| 2024 Feb 08 (Thu) | 05:58                         | 06:46 105 |     | 12:35 62S    | 18:24 255 |     | 19:11                       |
| 2024 Feb 09 (Fri) | 05:58                         | 06:45 105 |     | 12:35 63S    | 18:24 255 |     | 19:11                       |
| 2024 Feb 10 (Sat) | 05:58                         | 06:45 105 |     | 12:35 63S    | 18:25 255 |     | 19:12                       |
| 2024 Feb 11 (Sun) | 05:58                         | 06:45 104 |     | 12:35 63S    | 18:25 256 |     | 19:12                       |
| 2024 Feb 12 (Mon) | 05:57                         | 06:44 104 |     | 12:35 64S    | 18:25 256 |     | 19:12                       |
| 2024 Feb 13 (Tue) | 05:57                         | 06:44 104 |     | 12:35 64S    | 18:25 256 |     | 19:12                       |
| 2024 Feb 14 (Wed) | 05:57                         | 06:44 103 |     | 12:35 64S    | 18:26 257 |     | 19:13                       |
| 2024 Feb 15 (Thu) | 05:57                         | 06:43 103 |     | 12:35 65S    | 18:26 257 |     | 19:13                       |
| 2024 Feb 16 (Fri) | 05:56                         | 06:43 103 |     | 12:35 65S    | 18:26 257 |     | 19:13                       |
| 2024 Feb 17 (Sat) | 05:56                         | 06:43 102 |     | 12:35 65S    | 18:27 258 |     | 19:13                       |
| 2024 Feb 18 (Sun) | 05:56                         | 06:42 102 |     | 12:34 66S    | 18:27 258 |     | 19:14                       |
| 2024 Feb 19 (Mon) | 05:55                         | 06:42 102 |     | 12:34 66S    | 18:27 259 |     | 19:14                       |
| 2024 Feb 20 (Tue) | 05:55                         | 06:41 101 |     | 12:34 66S    | 18:27 259 |     | 19:14                       |
| 2024 Feb 21 (Wed) | 05:54                         | 06:41 101 |     | 12:34 67S    | 18:28 259 |     | 19:14                       |
| 2024 Feb 22 (Thu) | 05:54                         | 06:41 101 |     | 12:34 67S    | 18:28 260 |     | 19:14                       |
| 2024 Feb 23 (Fri) | 05:54                         | 06:40 100 |     | 12:34 68S    | 18:28 260 |     | 19:14                       |
| 2024 Feb 24 (Sat) | 05:53                         | 06:40 100 |     | 12:34 68S    | 18:28 260 |     | 19:15                       |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Feb | 25 | (Sun) | 05:53 | 06:39 | 99 | 12:34 | 68S | 18:28 | 261 | 19:15 |
| 2024 | Feb | 26 | (Mon) | 05:52 | 06:39 | 99 | 12:34 | 69S | 18:29 | 261 | 19:15 |
| 2024 | Feb | 27 | (Tue) | 05:52 | 06:38 | 99 | 12:33 | 69S | 18:29 | 262 | 19:15 |
| 2024 | Feb | 28 | (Wed) | 05:51 | 06:38 | 98 | 12:33 | 69S | 18:29 | 262 | 19:15 |
| 2024 | Feb | 29 | (Thu) | 05:51 | 06:37 | 98 | 12:33 | 70S | 18:29 | 262 | 19:15 |
| 2024 | Mar | 01 | (Fri) | 05:50 | 06:36 | 97 | 12:33 | 70S | 18:29 | 263 | 19:15 |
| 2024 | Mar | 02 | (Sat) | 05:50 | 06:36 | 97 | 12:33 | 71S | 18:30 | 263 | 19:16 |
| 2024 | Mar | 03 | (Sun) | 05:49 | 06:35 | 97 | 12:32 | 71S | 18:30 | 263 | 19:16 |
| 2024 | Mar | 04 | (Mon) | 05:49 | 06:35 | 96 | 12:32 | 71S | 18:30 | 264 | 19:16 |
| 2024 | Mar | 05 | (Tue) | 05:48 | 06:34 | 96 | 12:32 | 72S | 18:30 | 264 | 19:16 |
| 2024 | Mar | 06 | (Wed) | 05:48 | 06:34 | 96 | 12:32 | 72S | 18:30 | 265 | 19:16 |
| 2024 | Mar | 07 | (Thu) | 05:47 | 06:33 | 95 | 12:31 | 73S | 18:30 | 265 | 19:16 |
| 2024 | Mar | 08 | (Fri) | 05:46 | 06:32 | 95 | 12:31 | 73S | 18:30 | 265 | 19:16 |
| 2024 | Mar | 09 | (Sat) | 05:46 | 06:32 | 94 | 12:31 | 73S | 18:30 | 266 | 19:16 |
| 2024 | Mar | 10 | (Sun) | 05:45 | 06:31 | 94 | 12:31 | 74S | 18:31 | 266 | 19:16 |
| 2024 | Mar | 11 | (Mon) | 05:45 | 06:30 | 94 | 12:30 | 74S | 18:31 | 267 | 19:17 |
| 2024 | Mar | 12 | (Tue) | 05:44 | 06:30 | 93 | 12:30 | 74S | 18:31 | 267 | 19:17 |
| 2024 | Mar | 13 | (Wed) | 05:43 | 06:29 | 93 | 12:30 | 75S | 18:31 | 267 | 19:17 |
| 2024 | Mar | 14 | (Thu) | 05:43 | 06:29 | 92 | 12:30 | 75S | 18:31 | 268 | 19:17 |
| 2024 | Mar | 15 | (Fri) | 05:42 | 06:28 | 92 | 12:29 | 76S | 18:31 | 268 | 19:17 |
| 2024 | Mar | 16 | (Sat) | 05:41 | 06:27 | 91 | 12:29 | 76S | 18:31 | 269 | 19:17 |
| 2024 | Mar | 17 | (Sun) | 05:41 | 06:27 | 91 | 12:29 | 76S | 18:31 | 269 | 19:17 |
| 2024 | Mar | 18 | (Mon) | 05:40 | 06:26 | 91 | 12:29 | 77S | 18:31 | 270 | 19:17 |
| 2024 | Mar | 19 | (Tue) | 05:39 | 06:25 | 90 | 12:28 | 77S | 18:31 | 270 | 19:17 |
| 2024 | Mar | 20 | (Wed) | 05:39 | 06:25 | 90 | 12:28 | 78S | 18:31 | 270 | 19:17 |
| 2024 | Mar | 21 | (Thu) | 05:38 | 06:24 | 89 | 12:28 | 78S | 18:31 | 271 | 19:17 |
| 2024 | Mar | 22 | (Fri) | 05:37 | 06:23 | 89 | 12:27 | 78S | 18:32 | 271 | 19:17 |
| 2024 | Mar | 23 | (Sat) | 05:37 | 06:23 | 89 | 12:27 | 79S | 18:32 | 272 | 19:18 |
| 2024 | Mar | 24 | (Sun) | 05:36 | 06:22 | 88 | 12:27 | 79S | 18:32 | 272 | 19:18 |
| 2024 | Mar | 25 | (Mon) | 05:35 | 06:21 | 88 | 12:26 | 80S | 18:32 | 272 | 19:18 |
| 2024 | Mar | 26 | (Tue) | 05:35 | 06:21 | 87 | 12:26 | 80S | 18:32 | 273 | 19:18 |
| 2024 | Mar | 27 | (Wed) | 05:34 | 06:20 | 87 | 12:26 | 80S | 18:32 | 273 | 19:18 |
| 2024 | Mar | 28 | (Thu) | 05:33 | 06:19 | 87 | 12:26 | 81S | 18:32 | 274 | 19:18 |
| 2024 | Mar | 29 | (Fri) | 05:33 | 06:19 | 86 | 12:25 | 81S | 18:32 | 274 | 19:18 |
| 2024 | Mar | 30 | (Sat) | 05:32 | 06:18 | 86 | 12:25 | 82S | 18:32 | 274 | 19:18 |
| 2024 | Mar | 31 | (Sun) | 05:31 | 06:17 | 85 | 12:25 | 82S | 18:32 | 275 | 19:18 |
| 2024 | Apr | 01 | (Mon) | 05:31 | 06:17 | 85 | 12:24 | 82S | 18:32 | 275 | 19:18 |
| 2024 | Apr | 02 | (Tue) | 05:30 | 06:16 | 85 | 12:24 | 83S | 18:32 | 276 | 19:18 |
| 2024 | Apr | 03 | (Wed) | 05:29 | 06:15 | 84 | 12:24 | 83S | 18:32 | 276 | 19:19 |
| 2024 | Apr | 04 | (Thu) | 05:28 | 06:15 | 84 | 12:23 | 83S | 18:32 | 276 | 19:19 |
| 2024 | Apr | 05 | (Fri) | 05:28 | 06:14 | 83 | 12:23 | 84S | 18:32 | 277 | 19:19 |
| 2024 | Apr | 06 | (Sat) | 05:27 | 06:13 | 83 | 12:23 | 84S | 18:33 | 277 | 19:19 |
| 2024 | Apr | 07 | (Sun) | 05:26 | 06:13 | 83 | 12:23 | 85S | 18:33 | 278 | 19:19 |
| 2024 | Apr | 08 | (Mon) | 05:26 | 06:12 | 82 | 12:22 | 85S | 18:33 | 278 | 19:19 |
| 2024 | Apr | 09 | (Tue) | 05:25 | 06:11 | 82 | 12:22 | 85S | 18:33 | 278 | 19:19 |
| 2024 | Apr | 10 | (Wed) | 05:24 | 06:11 | 82 | 12:22 | 86S | 18:33 | 279 | 19:19 |
| 2024 | Apr | 11 | (Thu) | 05:24 | 06:10 | 81 | 12:22 | 86S | 18:33 | 279 | 19:20 |
| 2024 | Apr | 12 | (Fri) | 05:23 | 06:10 | 81 | 12:21 | 86S | 18:33 | 279 | 19:20 |
| 2024 | Apr | 13 | (Sat) | 05:22 | 06:09 | 80 | 12:21 | 87S | 18:33 | 280 | 19:20 |
| 2024 | Apr | 14 | (Sun) | 05:22 | 06:08 | 80 | 12:21 | 87S | 18:33 | 280 | 19:20 |
| 2024 | Apr | 15 | (Mon) | 05:21 | 06:08 | 80 | 12:21 | 88S | 18:33 | 281 | 19:20 |
| 2024 | Apr | 16 | (Tue) | 05:20 | 06:07 | 79 | 12:20 | 88S | 18:33 | 281 | 19:20 |
| 2024 | Apr | 17 | (Wed) | 05:20 | 06:07 | 79 | 12:20 | 88S | 18:34 | 281 | 19:21 |
| 2024 | Apr | 18 | (Thu) | 05:19 | 06:06 | 79 | 12:20 | 89S | 18:34 | 282 | 19:21 |
| 2024 | Apr | 19 | (Fri) | 05:18 | 06:06 | 78 | 12:20 | 89S | 18:34 | 282 | 19:21 |
| 2024 | Apr | 20 | (Sat) | 05:18 | 06:05 | 78 | 12:19 | 89S | 18:34 | 282 | 19:21 |
| 2024 | Apr | 21 | (Sun) | 05:17 | 06:04 | 78 | 12:19 | 90S | 18:34 | 283 | 19:21 |
| 2024 | Apr | 22 | (Mon) | 05:17 | 06:04 | 77 | 12:19 | 90S | 18:34 | 283 | 19:22 |
| 2024 | Apr | 23 | (Tue) | 05:16 | 06:03 | 77 | 12:19 | 90S | 18:34 | 283 | 19:22 |
| 2024 | Apr | 24 | (Wed) | 05:15 | 06:03 | 77 | 12:19 | 91S | 18:35 | 284 | 19:22 |
| 2024 | Apr | 25 | (Thu) | 05:15 | 06:02 | 76 | 12:18 | 90N | 18:35 | 284 | 19:22 |
| 2024 | Apr | 26 | (Fri) | 05:14 | 06:02 | 76 | 12:18 | 90N | 18:35 | 284 | 19:23 |
| 2024 | Apr | 27 | (Sat) | 05:14 | 06:01 | 76 | 12:18 | 90N | 18:35 | 285 | 19:23 |
| 2024 | Apr | 28 | (Sun) | 05:13 | 06:01 | 75 | 12:18 | 90N | 18:35 | 285 | 19:23 |
| 2024 | Apr | 29 | (Mon) | 05:13 | 06:01 | 75 | 12:18 | 89N | 18:35 | 285 | 19:23 |
| 2024 | Apr | 30 | (Tue) | 05:12 | 06:00 | 75 | 12:18 | 89N | 18:36 | 286 | 19:24 |
| 2024 | May | 01 | (Wed) | 05:12 | 06:00 | 74 | 12:18 | 89N | 18:36 | 286 | 19:24 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 02 | (Thu) | 05:11 | 05:59 | 74 | 12:17 | 88N | 18:36 | 286 | 19:24 |
| 2024 | May | 03 | (Fri) | 05:11 | 05:59 | 74 | 12:17 | 88N | 18:36 | 287 | 19:24 |
| 2024 | May | 04 | (Sat) | 05:10 | 05:58 | 73 | 12:17 | 88N | 18:36 | 287 | 19:25 |
| 2024 | May | 05 | (Sun) | 05:10 | 05:58 | 73 | 12:17 | 87N | 18:37 | 287 | 19:25 |
| 2024 | May | 06 | (Mon) | 05:09 | 05:58 | 73 | 12:17 | 87N | 18:37 | 287 | 19:25 |
| 2024 | May | 07 | (Tue) | 05:09 | 05:57 | 72 | 12:17 | 87N | 18:37 | 288 | 19:26 |
| 2024 | May | 08 | (Wed) | 05:08 | 05:57 | 72 | 12:17 | 87N | 18:37 | 288 | 19:26 |
| 2024 | May | 09 | (Thu) | 05:08 | 05:57 | 72 | 12:17 | 86N | 18:37 | 288 | 19:26 |
| 2024 | May | 10 | (Fri) | 05:08 | 05:56 | 72 | 12:17 | 86N | 18:38 | 289 | 19:27 |
| 2024 | May | 11 | (Sat) | 05:07 | 05:56 | 71 | 12:17 | 86N | 18:38 | 289 | 19:27 |
| 2024 | May | 12 | (Sun) | 05:07 | 05:56 | 71 | 12:17 | 86N | 18:38 | 289 | 19:27 |
| 2024 | May | 13 | (Mon) | 05:06 | 05:55 | 71 | 12:17 | 85N | 18:38 | 289 | 19:28 |
| 2024 | May | 14 | (Tue) | 05:06 | 05:55 | 71 | 12:17 | 85N | 18:39 | 290 | 19:28 |
| 2024 | May | 15 | (Wed) | 05:06 | 05:55 | 70 | 12:17 | 85N | 18:39 | 290 | 19:28 |
| 2024 | May | 16 | (Thu) | 05:05 | 05:55 | 70 | 12:17 | 85N | 18:39 | 290 | 19:29 |
| 2024 | May | 17 | (Fri) | 05:05 | 05:55 | 70 | 12:17 | 84N | 18:40 | 290 | 19:29 |
| 2024 | May | 18 | (Sat) | 05:05 | 05:54 | 70 | 12:17 | 84N | 18:40 | 290 | 19:29 |
| 2024 | May | 19 | (Sun) | 05:05 | 05:54 | 69 | 12:17 | 84N | 18:40 | 291 | 19:30 |
| 2024 | May | 20 | (Mon) | 05:04 | 05:54 | 69 | 12:17 | 84N | 18:40 | 291 | 19:30 |
| 2024 | May | 21 | (Tue) | 05:04 | 05:54 | 69 | 12:17 | 84N | 18:41 | 291 | 19:30 |
| 2024 | May | 22 | (Wed) | 05:04 | 05:54 | 69 | 12:17 | 83N | 18:41 | 291 | 19:31 |
| 2024 | May | 23 | (Thu) | 05:04 | 05:54 | 69 | 12:17 | 83N | 18:41 | 292 | 19:31 |
| 2024 | May | 24 | (Fri) | 05:03 | 05:53 | 68 | 12:17 | 83N | 18:42 | 292 | 19:31 |
| 2024 | May | 25 | (Sat) | 05:03 | 05:53 | 68 | 12:18 | 83N | 18:42 | 292 | 19:32 |
| 2024 | May | 26 | (Sun) | 05:03 | 05:53 | 68 | 12:18 | 83N | 18:42 | 292 | 19:32 |
| 2024 | May | 27 | (Mon) | 05:03 | 05:53 | 68 | 12:18 | 82N | 18:42 | 292 | 19:33 |
| 2024 | May | 28 | (Tue) | 05:03 | 05:53 | 68 | 12:18 | 82N | 18:43 | 292 | 19:33 |
| 2024 | May | 29 | (Wed) | 05:03 | 05:53 | 68 | 12:18 | 82N | 18:43 | 293 | 19:33 |
| 2024 | May | 30 | (Thu) | 05:03 | 05:53 | 67 | 12:18 | 82N | 18:43 | 293 | 19:34 |
| 2024 | May | 31 | (Fri) | 05:03 | 05:53 | 67 | 12:18 | 82N | 18:44 | 293 | 19:34 |
| 2024 | Jun | 01 | (Sat) | 05:03 | 05:53 | 67 | 12:18 | 82N | 18:44 | 293 | 19:34 |
| 2024 | Jun | 02 | (Sun) | 05:02 | 05:53 | 67 | 12:19 | 82N | 18:44 | 293 | 19:35 |
| 2024 | Jun | 03 | (Mon) | 05:02 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:35 |
| 2024 | Jun | 04 | (Tue) | 05:02 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:35 |
| 2024 | Jun | 05 | (Wed) | 05:02 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:36 |
| 2024 | Jun | 06 | (Thu) | 05:02 | 05:53 | 66 | 12:19 | 81N | 18:45 | 294 | 19:36 |
| 2024 | Jun | 07 | (Fri) | 05:03 | 05:53 | 66 | 12:19 | 81N | 18:46 | 294 | 19:37 |
| 2024 | Jun | 08 | (Sat) | 05:03 | 05:53 | 66 | 12:20 | 81N | 18:46 | 294 | 19:37 |
| 2024 | Jun | 09 | (Sun) | 05:03 | 05:53 | 66 | 12:20 | 81N | 18:46 | 294 | 19:37 |
| 2024 | Jun | 10 | (Mon) | 05:03 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 11 | (Tue) | 05:03 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 12 | (Wed) | 05:03 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 13 | (Thu) | 05:03 | 05:54 | 66 | 12:21 | 81N | 18:47 | 294 | 19:38 |
| 2024 | Jun | 14 | (Fri) | 05:03 | 05:54 | 66 | 12:21 | 81N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 15 | (Sat) | 05:03 | 05:54 | 66 | 12:21 | 80N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 16 | (Sun) | 05:03 | 05:54 | 66 | 12:21 | 80N | 18:48 | 294 | 19:39 |
| 2024 | Jun | 17 | (Mon) | 05:04 | 05:55 | 66 | 12:22 | 80N | 18:48 | 294 | 19:40 |
| 2024 | Jun | 18 | (Tue) | 05:04 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 19 | (Wed) | 05:04 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 20 | (Thu) | 05:04 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 21 | (Fri) | 05:04 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:40 |
| 2024 | Jun | 22 | (Sat) | 05:05 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 23 | (Sun) | 05:05 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 24 | (Mon) | 05:05 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 25 | (Tue) | 05:05 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 26 | (Wed) | 05:06 | 05:57 | 66 | 12:23 | 80N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 27 | (Thu) | 05:06 | 05:57 | 66 | 12:24 | 81N | 18:50 | 294 | 19:41 |
| 2024 | Jun | 28 | (Fri) | 05:06 | 05:57 | 66 | 12:24 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jun | 29 | (Sat) | 05:06 | 05:57 | 66 | 12:24 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jun | 30 | (Sun) | 05:07 | 05:58 | 66 | 12:24 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 01 | (Mon) | 05:07 | 05:58 | 66 | 12:24 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 02 | (Tue) | 05:07 | 05:58 | 66 | 12:25 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 03 | (Wed) | 05:08 | 05:58 | 66 | 12:25 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 04 | (Thu) | 05:08 | 05:59 | 66 | 12:25 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 05 | (Fri) | 05:08 | 05:59 | 66 | 12:25 | 81N | 18:51 | 294 | 19:42 |
| 2024 | Jul | 06 | (Sat) | 05:09 | 05:59 | 66 | 12:25 | 81N | 18:51 | 293 | 19:42 |
| 2024 | Jul | 07 | (Sun) | 05:09 | 06:00 | 67 | 12:26 | 81N | 18:51 | 293 | 19:42 |

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

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Sep | 13 | (Fri) | 05:24 | 06:10 | 86  | 12:16 | 81S | 18:23 | 274 | 19:09 |
| 2024 | Sep | 14 | (Sat) | 05:24 | 06:10 | 86  | 12:16 | 81S | 18:22 | 273 | 19:08 |
| 2024 | Sep | 15 | (Sun) | 05:24 | 06:10 | 87  | 12:16 | 80S | 18:22 | 273 | 19:08 |
| 2024 | Sep | 16 | (Mon) | 05:24 | 06:10 | 87  | 12:15 | 80S | 18:21 | 273 | 19:07 |
| 2024 | Sep | 17 | (Tue) | 05:24 | 06:10 | 88  | 12:15 | 80S | 18:20 | 272 | 19:06 |
| 2024 | Sep | 18 | (Wed) | 05:24 | 06:10 | 88  | 12:15 | 79S | 18:19 | 272 | 19:05 |
| 2024 | Sep | 19 | (Thu) | 05:24 | 06:10 | 88  | 12:14 | 79S | 18:19 | 271 | 19:05 |
| 2024 | Sep | 20 | (Fri) | 05:24 | 06:10 | 89  | 12:14 | 78S | 18:18 | 271 | 19:04 |
| 2024 | Sep | 21 | (Sat) | 05:24 | 06:10 | 89  | 12:14 | 78S | 18:17 | 271 | 19:03 |
| 2024 | Sep | 22 | (Sun) | 05:24 | 06:10 | 90  | 12:13 | 78S | 18:17 | 270 | 19:02 |
| 2024 | Sep | 23 | (Mon) | 05:24 | 06:10 | 90  | 12:13 | 77S | 18:16 | 270 | 19:02 |
| 2024 | Sep | 24 | (Tue) | 05:24 | 06:10 | 90  | 12:12 | 77S | 18:15 | 269 | 19:01 |
| 2024 | Sep | 25 | (Wed) | 05:24 | 06:10 | 91  | 12:12 | 77S | 18:14 | 269 | 19:00 |
| 2024 | Sep | 26 | (Thu) | 05:24 | 06:10 | 91  | 12:12 | 76S | 18:14 | 269 | 19:00 |
| 2024 | Sep | 27 | (Fri) | 05:24 | 06:10 | 92  | 12:11 | 76S | 18:13 | 268 | 18:59 |
| 2024 | Sep | 28 | (Sat) | 05:24 | 06:10 | 92  | 12:11 | 75S | 18:12 | 268 | 18:58 |
| 2024 | Sep | 29 | (Sun) | 05:24 | 06:10 | 92  | 12:11 | 75S | 18:12 | 267 | 18:57 |
| 2024 | Sep | 30 | (Mon) | 05:24 | 06:10 | 93  | 12:10 | 75S | 18:11 | 267 | 18:57 |
| 2024 | Oct | 01 | (Tue) | 05:24 | 06:10 | 93  | 12:10 | 74S | 18:10 | 267 | 18:56 |
| 2024 | Oct | 02 | (Wed) | 05:24 | 06:10 | 94  | 12:10 | 74S | 18:10 | 266 | 18:55 |
| 2024 | Oct | 03 | (Thu) | 05:24 | 06:10 | 94  | 12:09 | 73S | 18:09 | 266 | 18:55 |
| 2024 | Oct | 04 | (Fri) | 05:24 | 06:10 | 94  | 12:09 | 73S | 18:08 | 265 | 18:54 |
| 2024 | Oct | 05 | (Sat) | 05:24 | 06:10 | 95  | 12:09 | 73S | 18:08 | 265 | 18:53 |
| 2024 | Oct | 06 | (Sun) | 05:24 | 06:10 | 95  | 12:09 | 72S | 18:07 | 265 | 18:53 |
| 2024 | Oct | 07 | (Mon) | 05:24 | 06:10 | 96  | 12:08 | 72S | 18:06 | 264 | 18:52 |
| 2024 | Oct | 08 | (Tue) | 05:24 | 06:10 | 96  | 12:08 | 72S | 18:06 | 264 | 18:52 |
| 2024 | Oct | 09 | (Wed) | 05:24 | 06:10 | 96  | 12:08 | 71S | 18:05 | 263 | 18:51 |
| 2024 | Oct | 10 | (Thu) | 05:24 | 06:10 | 97  | 12:07 | 71S | 18:04 | 263 | 18:50 |
| 2024 | Oct | 11 | (Fri) | 05:24 | 06:11 | 97  | 12:07 | 70S | 18:04 | 263 | 18:50 |
| 2024 | Oct | 12 | (Sat) | 05:24 | 06:11 | 97  | 12:07 | 70S | 18:03 | 262 | 18:49 |
| 2024 | Oct | 13 | (Sun) | 05:25 | 06:11 | 98  | 12:07 | 70S | 18:03 | 262 | 18:49 |
| 2024 | Oct | 14 | (Mon) | 05:25 | 06:11 | 98  | 12:06 | 69S | 18:02 | 262 | 18:48 |
| 2024 | Oct | 15 | (Tue) | 05:25 | 06:11 | 99  | 12:06 | 69S | 18:01 | 261 | 18:48 |
| 2024 | Oct | 16 | (Wed) | 05:25 | 06:11 | 99  | 12:06 | 69S | 18:01 | 261 | 18:47 |
| 2024 | Oct | 17 | (Thu) | 05:25 | 06:11 | 99  | 12:06 | 68S | 18:00 | 260 | 18:47 |
| 2024 | Oct | 18 | (Fri) | 05:25 | 06:11 | 100 | 12:06 | 68S | 18:00 | 260 | 18:46 |
| 2024 | Oct | 19 | (Sat) | 05:25 | 06:12 | 100 | 12:05 | 67S | 17:59 | 260 | 18:46 |
| 2024 | Oct | 20 | (Sun) | 05:25 | 06:12 | 101 | 12:05 | 67S | 17:59 | 259 | 18:45 |
| 2024 | Oct | 21 | (Mon) | 05:25 | 06:12 | 101 | 12:05 | 67S | 17:58 | 259 | 18:45 |
| 2024 | Oct | 22 | (Tue) | 05:25 | 06:12 | 101 | 12:05 | 66S | 17:58 | 259 | 18:44 |
| 2024 | Oct | 23 | (Wed) | 05:26 | 06:12 | 102 | 12:05 | 66S | 17:57 | 258 | 18:44 |
| 2024 | Oct | 24 | (Thu) | 05:26 | 06:12 | 102 | 12:05 | 66S | 17:57 | 258 | 18:43 |
| 2024 | Oct | 25 | (Fri) | 05:26 | 06:13 | 102 | 12:05 | 65S | 17:56 | 258 | 18:43 |
| 2024 | Oct | 26 | (Sat) | 05:26 | 06:13 | 103 | 12:04 | 65S | 17:56 | 257 | 18:43 |
| 2024 | Oct | 27 | (Sun) | 05:26 | 06:13 | 103 | 12:04 | 65S | 17:56 | 257 | 18:42 |
| 2024 | Oct | 28 | (Mon) | 05:26 | 06:13 | 103 | 12:04 | 64S | 17:55 | 256 | 18:42 |
| 2024 | Oct | 29 | (Tue) | 05:27 | 06:14 | 104 | 12:04 | 64S | 17:55 | 256 | 18:42 |
| 2024 | Oct | 30 | (Wed) | 05:27 | 06:14 | 104 | 12:04 | 64S | 17:54 | 256 | 18:41 |
| 2024 | Oct | 31 | (Thu) | 05:27 | 06:14 | 104 | 12:04 | 63S | 17:54 | 255 | 18:41 |
| 2024 | Nov | 01 | (Fri) | 05:27 | 06:14 | 105 | 12:04 | 63S | 17:54 | 255 | 18:41 |
| 2024 | Nov | 02 | (Sat) | 05:27 | 06:15 | 105 | 12:04 | 63S | 17:53 | 255 | 18:41 |
| 2024 | Nov | 03 | (Sun) | 05:28 | 06:15 | 105 | 12:04 | 62S | 17:53 | 254 | 18:40 |
| 2024 | Nov | 04 | (Mon) | 05:28 | 06:15 | 106 | 12:04 | 62S | 17:53 | 254 | 18:40 |
| 2024 | Nov | 05 | (Tue) | 05:28 | 06:16 | 106 | 12:04 | 62S | 17:52 | 254 | 18:40 |
| 2024 | Nov | 06 | (Wed) | 05:28 | 06:16 | 106 | 12:04 | 61S | 17:52 | 254 | 18:40 |
| 2024 | Nov | 07 | (Thu) | 05:29 | 06:16 | 107 | 12:04 | 61S | 17:52 | 253 | 18:40 |
| 2024 | Nov | 08 | (Fri) | 05:29 | 06:17 | 107 | 12:04 | 61S | 17:52 | 253 | 18:39 |
| 2024 | Nov | 09 | (Sat) | 05:29 | 06:17 | 107 | 12:04 | 61S | 17:52 | 253 | 18:39 |
| 2024 | Nov | 10 | (Sun) | 05:30 | 06:17 | 107 | 12:04 | 60S | 17:51 | 252 | 18:39 |
| 2024 | Nov | 11 | (Mon) | 05:30 | 06:18 | 108 | 12:05 | 60S | 17:51 | 252 | 18:39 |
| 2024 | Nov | 12 | (Tue) | 05:30 | 06:18 | 108 | 12:05 | 60S | 17:51 | 252 | 18:39 |
| 2024 | Nov | 13 | (Wed) | 05:31 | 06:19 | 108 | 12:05 | 60S | 17:51 | 252 | 18:39 |
| 2024 | Nov | 14 | (Thu) | 05:31 | 06:19 | 109 | 12:05 | 59S | 17:51 | 251 | 18:39 |
| 2024 | Nov | 15 | (Fri) | 05:31 | 06:19 | 109 | 12:05 | 59S | 17:51 | 251 | 18:39 |
| 2024 | Nov | 16 | (Sat) | 05:32 | 06:20 | 109 | 12:05 | 59S | 17:51 | 251 | 18:39 |
| 2024 | Nov | 17 | (Sun) | 05:32 | 06:20 | 109 | 12:06 | 58S | 17:51 | 251 | 18:39 |
| 2024 | Nov | 18 | (Mon) | 05:32 | 06:21 | 110 | 12:06 | 58S | 17:51 | 250 | 18:39 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Nov | 19 | (Tue) | 05:33 | 06:21 | 110 | 12:06 | 58S | 17:51 | 250 | 18:39 |
| 2024 | Nov | 20 | (Wed) | 05:33 | 06:22 | 110 | 12:06 | 58S | 17:51 | 250 | 18:39 |
| 2024 | Nov | 21 | (Thu) | 05:34 | 06:22 | 110 | 12:06 | 58S | 17:51 | 250 | 18:39 |
| 2024 | Nov | 22 | (Fri) | 05:34 | 06:23 | 111 | 12:07 | 57S | 17:51 | 249 | 18:39 |
| 2024 | Nov | 23 | (Sat) | 05:34 | 06:23 | 111 | 12:07 | 57S | 17:51 | 249 | 18:39 |
| 2024 | Nov | 24 | (Sun) | 05:35 | 06:24 | 111 | 12:07 | 57S | 17:51 | 249 | 18:40 |
| 2024 | Nov | 25 | (Mon) | 05:35 | 06:24 | 111 | 12:08 | 57S | 17:51 | 249 | 18:40 |
| 2024 | Nov | 26 | (Tue) | 05:36 | 06:25 | 111 | 12:08 | 57S | 17:51 | 249 | 18:40 |
| 2024 | Nov | 27 | (Wed) | 05:36 | 06:25 | 112 | 12:08 | 56S | 17:51 | 248 | 18:40 |
| 2024 | Nov | 28 | (Thu) | 05:37 | 06:26 | 112 | 12:09 | 56S | 17:51 | 248 | 18:40 |
| 2024 | Nov | 29 | (Fri) | 05:37 | 06:26 | 112 | 12:09 | 56S | 17:52 | 248 | 18:41 |
| 2024 | Nov | 30 | (Sat) | 05:38 | 06:27 | 112 | 12:09 | 56S | 17:52 | 248 | 18:41 |
| 2024 | Dec | 01 | (Sun) | 05:38 | 06:27 | 112 | 12:10 | 56S | 17:52 | 248 | 18:41 |
| 2024 | Dec | 02 | (Mon) | 05:39 | 06:28 | 112 | 12:10 | 56S | 17:52 | 248 | 18:41 |
| 2024 | Dec | 03 | (Tue) | 05:39 | 06:28 | 113 | 12:10 | 55S | 17:52 | 247 | 18:42 |
| 2024 | Dec | 04 | (Wed) | 05:40 | 06:29 | 113 | 12:11 | 55S | 17:53 | 247 | 18:42 |
| 2024 | Dec | 05 | (Thu) | 05:40 | 06:29 | 113 | 12:11 | 55S | 17:53 | 247 | 18:42 |
| 2024 | Dec | 06 | (Fri) | 05:41 | 06:30 | 113 | 12:12 | 55S | 17:53 | 247 | 18:43 |
| 2024 | Dec | 07 | (Sat) | 05:41 | 06:31 | 113 | 12:12 | 55S | 17:54 | 247 | 18:43 |
| 2024 | Dec | 08 | (Sun) | 05:42 | 06:31 | 113 | 12:13 | 55S | 17:54 | 247 | 18:43 |
| 2024 | Dec | 09 | (Mon) | 05:42 | 06:32 | 113 | 12:13 | 55S | 17:54 | 247 | 18:44 |
| 2024 | Dec | 10 | (Tue) | 05:43 | 06:32 | 113 | 12:13 | 55S | 17:55 | 247 | 18:44 |
| 2024 | Dec | 11 | (Wed) | 05:43 | 06:33 | 113 | 12:14 | 55S | 17:55 | 247 | 18:45 |
| 2024 | Dec | 12 | (Thu) | 05:44 | 06:33 | 114 | 12:14 | 54S | 17:55 | 246 | 18:45 |
| 2024 | Dec | 13 | (Fri) | 05:44 | 06:34 | 114 | 12:15 | 54S | 17:56 | 246 | 18:45 |
| 2024 | Dec | 14 | (Sat) | 05:45 | 06:34 | 114 | 12:15 | 54S | 17:56 | 246 | 18:46 |
| 2024 | Dec | 15 | (Sun) | 05:45 | 06:35 | 114 | 12:16 | 54S | 17:57 | 246 | 18:46 |
| 2024 | Dec | 16 | (Mon) | 05:46 | 06:35 | 114 | 12:16 | 54S | 17:57 | 246 | 18:47 |
| 2024 | Dec | 17 | (Tue) | 05:46 | 06:36 | 114 | 12:17 | 54S | 17:57 | 246 | 18:47 |
| 2024 | Dec | 18 | (Wed) | 05:47 | 06:36 | 114 | 12:17 | 54S | 17:58 | 246 | 18:48 |
| 2024 | Dec | 19 | (Thu) | 05:47 | 06:37 | 114 | 12:18 | 54S | 17:58 | 246 | 18:48 |
| 2024 | Dec | 20 | (Fri) | 05:48 | 06:38 | 114 | 12:18 | 54S | 17:59 | 246 | 18:49 |
| 2024 | Dec | 21 | (Sat) | 05:48 | 06:38 | 114 | 12:19 | 54S | 17:59 | 246 | 18:49 |
| 2024 | Dec | 22 | (Sun) | 05:49 | 06:39 | 114 | 12:19 | 54S | 18:00 | 246 | 18:50 |
| 2024 | Dec | 23 | (Mon) | 05:49 | 06:39 | 114 | 12:20 | 54S | 18:00 | 246 | 18:50 |
| 2024 | Dec | 24 | (Tue) | 05:50 | 06:39 | 114 | 12:20 | 54S | 18:01 | 246 | 18:51 |
| 2024 | Dec | 25 | (Wed) | 05:50 | 06:40 | 114 | 12:21 | 54S | 18:01 | 246 | 18:51 |
| 2024 | Dec | 26 | (Thu) | 05:51 | 06:40 | 114 | 12:21 | 54S | 18:02 | 246 | 18:52 |
| 2024 | Dec | 27 | (Fri) | 05:51 | 06:41 | 114 | 12:22 | 54S | 18:03 | 246 | 18:52 |
| 2024 | Dec | 28 | (Sat) | 05:52 | 06:41 | 114 | 12:22 | 54S | 18:03 | 246 | 18:53 |
| 2024 | Dec | 29 | (Sun) | 05:52 | 06:42 | 114 | 12:23 | 54S | 18:04 | 246 | 18:53 |
| 2024 | Dec | 30 | (Mon) | 05:53 | 06:42 | 114 | 12:23 | 54S | 18:04 | 246 | 18:54 |
| 2024 | Dec | 31 | (Tue) | 05:53 | 06:43 | 114 | 12:24 | 55S | 18:05 | 247 | 18:54 |

Sun

Phetchaburi

Location: E 99°51'57.5", N13°07'01.2", 0m  
(Longitude referred to Greenwich meridian)

Time Zone: 7h 00m east of Greenwich

| Date<br>(Zone)    | Begin<br>Civil<br>Twilight<br>h m | Rise<br>h m ° | Az.<br>° | Transit Alt.<br>h m ° | Set<br>h m ° | Az.<br>° | End<br>Civil<br>Twilight<br>h m |       |
|-------------------|-----------------------------------|---------------|----------|-----------------------|--------------|----------|---------------------------------|-------|
| 2024 Jan 01 (Mon) | 06:20                             | 06:43         | 114      | 12:24                 | 55S          | 18:05    | 247                             | 18:28 |
| 2024 Jan 02 (Tue) | 06:20                             | 06:43         | 113      | 12:24                 | 55S          | 18:05    | 247                             | 18:28 |
| 2024 Jan 03 (Wed) | 06:20                             | 06:43         | 113      | 12:25                 | 55S          | 18:06    | 247                             | 18:29 |
| 2024 Jan 04 (Thu) | 06:21                             | 06:44         | 113      | 12:25                 | 55S          | 18:07    | 247                             | 18:30 |
| 2024 Jan 05 (Fri) | 06:21                             | 06:44         | 113      | 12:26                 | 55S          | 18:07    | 247                             | 18:30 |
| 2024 Jan 06 (Sat) | 06:21                             | 06:44         | 113      | 12:26                 | 55S          | 18:08    | 247                             | 18:31 |
| 2024 Jan 07 (Sun) | 06:22                             | 06:45         | 113      | 12:26                 | 55S          | 18:08    | 247                             | 18:31 |
| 2024 Jan 08 (Mon) | 06:22                             | 06:45         | 113      | 12:27                 | 55S          | 18:09    | 247                             | 18:32 |
| 2024 Jan 09 (Tue) | 06:22                             | 06:45         | 113      | 12:27                 | 55S          | 18:09    | 247                             | 18:32 |
| 2024 Jan 10 (Wed) | 06:23                             | 06:46         | 112      | 12:28                 | 56S          | 18:10    | 248                             | 18:33 |
| 2024 Jan 11 (Thu) | 06:23                             | 06:46         | 112      | 12:28                 | 56S          | 18:11    | 248                             | 18:33 |

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Jan | 12 | (Fri) | 06:23 | 06:46 | 112 | 12:29 | 56S | 18:11 | 248 | 18:34 |
| 2024 | Jan | 13 | (Sat) | 06:24 | 06:46 | 112 | 12:29 | 56S | 18:12 | 248 | 18:34 |
| 2024 | Jan | 14 | (Sun) | 06:24 | 06:47 | 112 | 12:29 | 56S | 18:12 | 248 | 18:35 |
| 2024 | Jan | 15 | (Mon) | 06:24 | 06:47 | 112 | 12:30 | 56S | 18:13 | 248 | 18:35 |
| 2024 | Jan | 16 | (Tue) | 06:24 | 06:47 | 111 | 12:30 | 57S | 18:13 | 249 | 18:36 |
| 2024 | Jan | 17 | (Wed) | 06:24 | 06:47 | 111 | 12:30 | 57S | 18:14 | 249 | 18:36 |
| 2024 | Jan | 18 | (Thu) | 06:25 | 06:47 | 111 | 12:31 | 57S | 18:14 | 249 | 18:37 |
| 2024 | Jan | 19 | (Fri) | 06:25 | 06:47 | 111 | 12:31 | 57S | 18:15 | 249 | 18:37 |
| 2024 | Jan | 20 | (Sat) | 06:25 | 06:47 | 111 | 12:31 | 57S | 18:15 | 249 | 18:38 |
| 2024 | Jan | 21 | (Sun) | 06:25 | 06:47 | 110 | 12:32 | 58S | 18:16 | 250 | 18:38 |
| 2024 | Jan | 22 | (Mon) | 06:25 | 06:47 | 110 | 12:32 | 58S | 18:16 | 250 | 18:39 |
| 2024 | Jan | 23 | (Tue) | 06:25 | 06:48 | 110 | 12:32 | 58S | 18:17 | 250 | 18:39 |
| 2024 | Jan | 24 | (Wed) | 06:25 | 06:48 | 110 | 12:32 | 58S | 18:17 | 250 | 18:40 |
| 2024 | Jan | 25 | (Thu) | 06:25 | 06:48 | 109 | 12:33 | 59S | 18:18 | 251 | 18:40 |
| 2024 | Jan | 26 | (Fri) | 06:25 | 06:48 | 109 | 12:33 | 59S | 18:18 | 251 | 18:41 |
| 2024 | Jan | 27 | (Sat) | 06:25 | 06:47 | 109 | 12:33 | 59S | 18:19 | 251 | 18:41 |
| 2024 | Jan | 28 | (Sun) | 06:25 | 06:47 | 109 | 12:33 | 59S | 18:19 | 251 | 18:42 |
| 2024 | Jan | 29 | (Mon) | 06:25 | 06:47 | 108 | 12:33 | 60S | 18:20 | 252 | 18:42 |
| 2024 | Jan | 30 | (Tue) | 06:25 | 06:47 | 108 | 12:34 | 60S | 18:20 | 252 | 18:42 |
| 2024 | Jan | 31 | (Wed) | 06:25 | 06:47 | 108 | 12:34 | 60S | 18:21 | 252 | 18:43 |
| 2024 | Feb | 01 | (Thu) | 06:25 | 06:47 | 108 | 12:34 | 60S | 18:21 | 253 | 18:43 |
| 2024 | Feb | 02 | (Fri) | 06:25 | 06:47 | 107 | 12:34 | 61S | 18:22 | 253 | 18:44 |
| 2024 | Feb | 03 | (Sat) | 06:25 | 06:47 | 107 | 12:34 | 61S | 18:22 | 253 | 18:44 |
| 2024 | Feb | 04 | (Sun) | 06:24 | 06:47 | 107 | 12:34 | 61S | 18:22 | 253 | 18:44 |
| 2024 | Feb | 05 | (Mon) | 06:24 | 06:46 | 106 | 12:34 | 62S | 18:23 | 254 | 18:45 |
| 2024 | Feb | 06 | (Tue) | 06:24 | 06:46 | 106 | 12:35 | 62S | 18:23 | 254 | 18:45 |
| 2024 | Feb | 07 | (Wed) | 06:24 | 06:46 | 106 | 12:35 | 62S | 18:23 | 254 | 18:45 |
| 2024 | Feb | 08 | (Thu) | 06:24 | 06:46 | 105 | 12:35 | 62S | 18:24 | 255 | 18:46 |
| 2024 | Feb | 09 | (Fri) | 06:23 | 06:45 | 105 | 12:35 | 63S | 18:24 | 255 | 18:46 |
| 2024 | Feb | 10 | (Sat) | 06:23 | 06:45 | 105 | 12:35 | 63S | 18:25 | 255 | 18:46 |
| 2024 | Feb | 11 | (Sun) | 06:23 | 06:45 | 104 | 12:35 | 63S | 18:25 | 256 | 18:47 |
| 2024 | Feb | 12 | (Mon) | 06:23 | 06:44 | 104 | 12:35 | 64S | 18:25 | 256 | 18:47 |
| 2024 | Feb | 13 | (Tue) | 06:22 | 06:44 | 104 | 12:35 | 64S | 18:25 | 256 | 18:47 |
| 2024 | Feb | 14 | (Wed) | 06:22 | 06:44 | 103 | 12:35 | 64S | 18:26 | 257 | 18:48 |
| 2024 | Feb | 15 | (Thu) | 06:22 | 06:43 | 103 | 12:35 | 65S | 18:26 | 257 | 18:48 |
| 2024 | Feb | 16 | (Fri) | 06:21 | 06:43 | 103 | 12:35 | 65S | 18:26 | 257 | 18:48 |
| 2024 | Feb | 17 | (Sat) | 06:21 | 06:43 | 102 | 12:35 | 65S | 18:27 | 258 | 18:48 |
| 2024 | Feb | 18 | (Sun) | 06:21 | 06:42 | 102 | 12:34 | 66S | 18:27 | 258 | 18:49 |
| 2024 | Feb | 19 | (Mon) | 06:20 | 06:42 | 102 | 12:34 | 66S | 18:27 | 259 | 18:49 |
| 2024 | Feb | 20 | (Tue) | 06:20 | 06:41 | 101 | 12:34 | 66S | 18:27 | 259 | 18:49 |
| 2024 | Feb | 21 | (Wed) | 06:19 | 06:41 | 101 | 12:34 | 67S | 18:28 | 259 | 18:49 |
| 2024 | Feb | 22 | (Thu) | 06:19 | 06:41 | 101 | 12:34 | 67S | 18:28 | 260 | 18:49 |
| 2024 | Feb | 23 | (Fri) | 06:19 | 06:40 | 100 | 12:34 | 68S | 18:28 | 260 | 18:50 |
| 2024 | Feb | 24 | (Sat) | 06:18 | 06:40 | 100 | 12:34 | 68S | 18:28 | 260 | 18:50 |
| 2024 | Feb | 25 | (Sun) | 06:18 | 06:39 | 99  | 12:34 | 68S | 18:28 | 261 | 18:50 |
| 2024 | Feb | 26 | (Mon) | 06:17 | 06:39 | 99  | 12:34 | 69S | 18:29 | 261 | 18:50 |
| 2024 | Feb | 27 | (Tue) | 06:17 | 06:38 | 99  | 12:33 | 69S | 18:29 | 262 | 18:50 |
| 2024 | Feb | 28 | (Wed) | 06:16 | 06:38 | 98  | 12:33 | 69S | 18:29 | 262 | 18:50 |
| 2024 | Feb | 29 | (Thu) | 06:16 | 06:37 | 98  | 12:33 | 70S | 18:29 | 262 | 18:51 |
| 2024 | Mar | 01 | (Fri) | 06:15 | 06:36 | 97  | 12:33 | 70S | 18:29 | 263 | 18:51 |
| 2024 | Mar | 02 | (Sat) | 06:15 | 06:36 | 97  | 12:33 | 71S | 18:30 | 263 | 18:51 |
| 2024 | Mar | 03 | (Sun) | 06:14 | 06:35 | 97  | 12:32 | 71S | 18:30 | 263 | 18:51 |
| 2024 | Mar | 04 | (Mon) | 06:13 | 06:35 | 96  | 12:32 | 71S | 18:30 | 264 | 18:51 |
| 2024 | Mar | 05 | (Tue) | 06:13 | 06:34 | 96  | 12:32 | 72S | 18:30 | 264 | 18:51 |
| 2024 | Mar | 06 | (Wed) | 06:12 | 06:34 | 96  | 12:32 | 72S | 18:30 | 265 | 18:51 |
| 2024 | Mar | 07 | (Thu) | 06:12 | 06:33 | 95  | 12:31 | 73S | 18:30 | 265 | 18:51 |
| 2024 | Mar | 08 | (Fri) | 06:11 | 06:32 | 95  | 12:31 | 73S | 18:30 | 265 | 18:52 |
| 2024 | Mar | 09 | (Sat) | 06:10 | 06:32 | 94  | 12:31 | 73S | 18:30 | 266 | 18:52 |
| 2024 | Mar | 10 | (Sun) | 06:10 | 06:31 | 94  | 12:31 | 74S | 18:31 | 266 | 18:52 |
| 2024 | Mar | 11 | (Mon) | 06:09 | 06:30 | 94  | 12:30 | 74S | 18:31 | 267 | 18:52 |
| 2024 | Mar | 12 | (Tue) | 06:09 | 06:30 | 93  | 12:30 | 74S | 18:31 | 267 | 18:52 |
| 2024 | Mar | 13 | (Wed) | 06:08 | 06:29 | 93  | 12:30 | 75S | 18:31 | 267 | 18:52 |
| 2024 | Mar | 14 | (Thu) | 06:07 | 06:29 | 92  | 12:30 | 75S | 18:31 | 268 | 18:52 |
| 2024 | Mar | 15 | (Fri) | 06:07 | 06:28 | 92  | 12:29 | 76S | 18:31 | 268 | 18:52 |
| 2024 | Mar | 16 | (Sat) | 06:06 | 06:27 | 91  | 12:29 | 76S | 18:31 | 269 | 18:52 |
| 2024 | Mar | 17 | (Sun) | 06:05 | 06:27 | 91  | 12:29 | 76S | 18:31 | 269 | 18:52 |
| 2024 | Mar | 18 | (Mon) | 06:05 | 06:26 | 91  | 12:29 | 77S | 18:31 | 270 | 18:52 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | Mar | 19 | (Tue) | 06:04 | 06:25 | 90 | 12:28 | 77S | 18:31 | 270 | 18:53 |
| 2024 | Mar | 20 | (Wed) | 06:03 | 06:25 | 90 | 12:28 | 78S | 18:31 | 270 | 18:53 |
| 2024 | Mar | 21 | (Thu) | 06:03 | 06:24 | 89 | 12:28 | 78S | 18:31 | 271 | 18:53 |
| 2024 | Mar | 22 | (Fri) | 06:02 | 06:23 | 89 | 12:27 | 78S | 18:32 | 271 | 18:53 |
| 2024 | Mar | 23 | (Sat) | 06:01 | 06:23 | 89 | 12:27 | 79S | 18:32 | 272 | 18:53 |
| 2024 | Mar | 24 | (Sun) | 06:01 | 06:22 | 88 | 12:27 | 79S | 18:32 | 272 | 18:53 |
| 2024 | Mar | 25 | (Mon) | 06:00 | 06:21 | 88 | 12:26 | 80S | 18:32 | 272 | 18:53 |
| 2024 | Mar | 26 | (Tue) | 05:59 | 06:21 | 87 | 12:26 | 80S | 18:32 | 273 | 18:53 |
| 2024 | Mar | 27 | (Wed) | 05:59 | 06:20 | 87 | 12:26 | 80S | 18:32 | 273 | 18:53 |
| 2024 | Mar | 28 | (Thu) | 05:58 | 06:19 | 87 | 12:26 | 81S | 18:32 | 274 | 18:53 |
| 2024 | Mar | 29 | (Fri) | 05:57 | 06:19 | 86 | 12:25 | 81S | 18:32 | 274 | 18:53 |
| 2024 | Mar | 30 | (Sat) | 05:57 | 06:18 | 86 | 12:25 | 82S | 18:32 | 274 | 18:53 |
| 2024 | Mar | 31 | (Sun) | 05:56 | 06:17 | 85 | 12:25 | 82S | 18:32 | 275 | 18:53 |
| 2024 | Apr | 01 | (Mon) | 05:55 | 06:17 | 85 | 12:24 | 82S | 18:32 | 275 | 18:54 |
| 2024 | Apr | 02 | (Tue) | 05:55 | 06:16 | 85 | 12:24 | 83S | 18:32 | 276 | 18:54 |
| 2024 | Apr | 03 | (Wed) | 05:54 | 06:15 | 84 | 12:24 | 83S | 18:32 | 276 | 18:54 |
| 2024 | Apr | 04 | (Thu) | 05:53 | 06:15 | 84 | 12:23 | 83S | 18:32 | 276 | 18:54 |
| 2024 | Apr | 05 | (Fri) | 05:53 | 06:14 | 83 | 12:23 | 84S | 18:32 | 277 | 18:54 |
| 2024 | Apr | 06 | (Sat) | 05:52 | 06:13 | 83 | 12:23 | 84S | 18:33 | 277 | 18:54 |
| 2024 | Apr | 07 | (Sun) | 05:51 | 06:13 | 83 | 12:23 | 85S | 18:33 | 278 | 18:54 |
| 2024 | Apr | 08 | (Mon) | 05:51 | 06:12 | 82 | 12:22 | 85S | 18:33 | 278 | 18:54 |
| 2024 | Apr | 09 | (Tue) | 05:50 | 06:11 | 82 | 12:22 | 85S | 18:33 | 278 | 18:54 |
| 2024 | Apr | 10 | (Wed) | 05:49 | 06:11 | 82 | 12:22 | 86S | 18:33 | 279 | 18:54 |
| 2024 | Apr | 11 | (Thu) | 05:49 | 06:10 | 81 | 12:22 | 86S | 18:33 | 279 | 18:55 |
| 2024 | Apr | 12 | (Fri) | 05:48 | 06:10 | 81 | 12:21 | 86S | 18:33 | 279 | 18:55 |
| 2024 | Apr | 13 | (Sat) | 05:47 | 06:09 | 80 | 12:21 | 87S | 18:33 | 280 | 18:55 |
| 2024 | Apr | 14 | (Sun) | 05:47 | 06:08 | 80 | 12:21 | 87S | 18:33 | 280 | 18:55 |
| 2024 | Apr | 15 | (Mon) | 05:46 | 06:08 | 80 | 12:21 | 88S | 18:33 | 281 | 18:55 |
| 2024 | Apr | 16 | (Tue) | 05:46 | 06:07 | 79 | 12:20 | 88S | 18:33 | 281 | 18:55 |
| 2024 | Apr | 17 | (Wed) | 05:45 | 06:07 | 79 | 12:20 | 88S | 18:34 | 281 | 18:55 |
| 2024 | Apr | 18 | (Thu) | 05:44 | 06:06 | 79 | 12:20 | 89S | 18:34 | 282 | 18:55 |
| 2024 | Apr | 19 | (Fri) | 05:44 | 06:06 | 78 | 12:20 | 89S | 18:34 | 282 | 18:56 |
| 2024 | Apr | 20 | (Sat) | 05:43 | 06:05 | 78 | 12:19 | 89S | 18:34 | 282 | 18:56 |
| 2024 | Apr | 21 | (Sun) | 05:43 | 06:04 | 78 | 12:19 | 90S | 18:34 | 283 | 18:56 |
| 2024 | Apr | 22 | (Mon) | 05:42 | 06:04 | 77 | 12:19 | 90S | 18:34 | 283 | 18:56 |
| 2024 | Apr | 23 | (Tue) | 05:42 | 06:03 | 77 | 12:19 | 90S | 18:34 | 283 | 18:56 |
| 2024 | Apr | 24 | (Wed) | 05:41 | 06:03 | 77 | 12:19 | 91S | 18:35 | 284 | 18:56 |
| 2024 | Apr | 25 | (Thu) | 05:40 | 06:02 | 76 | 12:18 | 90N | 18:35 | 284 | 18:57 |
| 2024 | Apr | 26 | (Fri) | 05:40 | 06:02 | 76 | 12:18 | 90N | 18:35 | 284 | 18:57 |
| 2024 | Apr | 27 | (Sat) | 05:39 | 06:01 | 76 | 12:18 | 90N | 18:35 | 285 | 18:57 |
| 2024 | Apr | 28 | (Sun) | 05:39 | 06:01 | 75 | 12:18 | 90N | 18:35 | 285 | 18:57 |
| 2024 | Apr | 29 | (Mon) | 05:38 | 06:01 | 75 | 12:18 | 89N | 18:35 | 285 | 18:57 |
| 2024 | Apr | 30 | (Tue) | 05:38 | 06:00 | 75 | 12:18 | 89N | 18:36 | 286 | 18:58 |
| 2024 | May | 01 | (Wed) | 05:38 | 06:00 | 74 | 12:18 | 89N | 18:36 | 286 | 18:58 |
| 2024 | May | 02 | (Thu) | 05:37 | 05:59 | 74 | 12:17 | 88N | 18:36 | 286 | 18:58 |
| 2024 | May | 03 | (Fri) | 05:37 | 05:59 | 74 | 12:17 | 88N | 18:36 | 287 | 18:58 |
| 2024 | May | 04 | (Sat) | 05:36 | 05:58 | 73 | 12:17 | 88N | 18:36 | 287 | 18:59 |
| 2024 | May | 05 | (Sun) | 05:36 | 05:58 | 73 | 12:17 | 87N | 18:37 | 287 | 18:59 |
| 2024 | May | 06 | (Mon) | 05:35 | 05:58 | 73 | 12:17 | 87N | 18:37 | 287 | 18:59 |
| 2024 | May | 07 | (Tue) | 05:35 | 05:57 | 72 | 12:17 | 87N | 18:37 | 288 | 18:59 |
| 2024 | May | 08 | (Wed) | 05:35 | 05:57 | 72 | 12:17 | 87N | 18:37 | 288 | 19:00 |
| 2024 | May | 09 | (Thu) | 05:34 | 05:57 | 72 | 12:17 | 86N | 18:37 | 288 | 19:00 |
| 2024 | May | 10 | (Fri) | 05:34 | 05:56 | 72 | 12:17 | 86N | 18:38 | 289 | 19:00 |
| 2024 | May | 11 | (Sat) | 05:34 | 05:56 | 71 | 12:17 | 86N | 18:38 | 289 | 19:00 |
| 2024 | May | 12 | (Sun) | 05:33 | 05:56 | 71 | 12:17 | 86N | 18:38 | 289 | 19:01 |
| 2024 | May | 13 | (Mon) | 05:33 | 05:55 | 71 | 12:17 | 85N | 18:38 | 289 | 19:01 |
| 2024 | May | 14 | (Tue) | 05:33 | 05:55 | 71 | 12:17 | 85N | 18:39 | 290 | 19:01 |
| 2024 | May | 15 | (Wed) | 05:32 | 05:55 | 70 | 12:17 | 85N | 18:39 | 290 | 19:02 |
| 2024 | May | 16 | (Thu) | 05:32 | 05:55 | 70 | 12:17 | 85N | 18:39 | 290 | 19:02 |
| 2024 | May | 17 | (Fri) | 05:32 | 05:55 | 70 | 12:17 | 84N | 18:40 | 290 | 19:02 |
| 2024 | May | 18 | (Sat) | 05:32 | 05:54 | 70 | 12:17 | 84N | 18:40 | 290 | 19:03 |
| 2024 | May | 19 | (Sun) | 05:31 | 05:54 | 69 | 12:17 | 84N | 18:40 | 291 | 19:03 |
| 2024 | May | 20 | (Mon) | 05:31 | 05:54 | 69 | 12:17 | 84N | 18:40 | 291 | 19:03 |
| 2024 | May | 21 | (Tue) | 05:31 | 05:54 | 69 | 12:17 | 84N | 18:41 | 291 | 19:04 |
| 2024 | May | 22 | (Wed) | 05:31 | 05:54 | 69 | 12:17 | 83N | 18:41 | 291 | 19:04 |
| 2024 | May | 23 | (Thu) | 05:31 | 05:54 | 69 | 12:17 | 83N | 18:41 | 292 | 19:04 |
| 2024 | May | 24 | (Fri) | 05:30 | 05:53 | 68 | 12:17 | 83N | 18:42 | 292 | 19:04 |

|      |     |    |       |       |       |    |       |     |       |     |       |
|------|-----|----|-------|-------|-------|----|-------|-----|-------|-----|-------|
| 2024 | May | 25 | (Sat) | 05:30 | 05:53 | 68 | 12:18 | 83N | 18:42 | 292 | 19:05 |
| 2024 | May | 26 | (Sun) | 05:30 | 05:53 | 68 | 12:18 | 83N | 18:42 | 292 | 19:05 |
| 2024 | May | 27 | (Mon) | 05:30 | 05:53 | 68 | 12:18 | 82N | 18:42 | 292 | 19:05 |
| 2024 | May | 28 | (Tue) | 05:30 | 05:53 | 68 | 12:18 | 82N | 18:43 | 292 | 19:06 |
| 2024 | May | 29 | (Wed) | 05:30 | 05:53 | 68 | 12:18 | 82N | 18:43 | 293 | 19:06 |
| 2024 | May | 30 | (Thu) | 05:30 | 05:53 | 67 | 12:18 | 82N | 18:43 | 293 | 19:06 |
| 2024 | May | 31 | (Fri) | 05:30 | 05:53 | 67 | 12:18 | 82N | 18:44 | 293 | 19:07 |
| 2024 | Jun | 01 | (Sat) | 05:30 | 05:53 | 67 | 12:18 | 82N | 18:44 | 293 | 19:07 |
| 2024 | Jun | 02 | (Sun) | 05:30 | 05:53 | 67 | 12:19 | 82N | 18:44 | 293 | 19:07 |
| 2024 | Jun | 03 | (Mon) | 05:30 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:08 |
| 2024 | Jun | 04 | (Tue) | 05:30 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:08 |
| 2024 | Jun | 05 | (Wed) | 05:30 | 05:53 | 67 | 12:19 | 81N | 18:45 | 293 | 19:08 |
| 2024 | Jun | 06 | (Thu) | 05:30 | 05:53 | 66 | 12:19 | 81N | 18:45 | 294 | 19:09 |
| 2024 | Jun | 07 | (Fri) | 05:30 | 05:53 | 66 | 12:19 | 81N | 18:46 | 294 | 19:09 |
| 2024 | Jun | 08 | (Sat) | 05:30 | 05:53 | 66 | 12:20 | 81N | 18:46 | 294 | 19:09 |
| 2024 | Jun | 09 | (Sun) | 05:30 | 05:53 | 66 | 12:20 | 81N | 18:46 | 294 | 19:10 |
| 2024 | Jun | 10 | (Mon) | 05:30 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:10 |
| 2024 | Jun | 11 | (Tue) | 05:30 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:10 |
| 2024 | Jun | 12 | (Wed) | 05:30 | 05:54 | 66 | 12:20 | 81N | 18:47 | 294 | 19:11 |
| 2024 | Jun | 13 | (Thu) | 05:31 | 05:54 | 66 | 12:21 | 81N | 18:47 | 294 | 19:11 |
| 2024 | Jun | 14 | (Fri) | 05:31 | 05:54 | 66 | 12:21 | 81N | 18:48 | 294 | 19:11 |
| 2024 | Jun | 15 | (Sat) | 05:31 | 05:54 | 66 | 12:21 | 80N | 18:48 | 294 | 19:11 |
| 2024 | Jun | 16 | (Sun) | 05:31 | 05:54 | 66 | 12:21 | 80N | 18:48 | 294 | 19:12 |
| 2024 | Jun | 17 | (Mon) | 05:31 | 05:55 | 66 | 12:22 | 80N | 18:48 | 294 | 19:12 |
| 2024 | Jun | 18 | (Tue) | 05:31 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:12 |
| 2024 | Jun | 19 | (Wed) | 05:32 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:12 |
| 2024 | Jun | 20 | (Thu) | 05:32 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:13 |
| 2024 | Jun | 21 | (Fri) | 05:32 | 05:55 | 66 | 12:22 | 80N | 18:49 | 294 | 19:13 |
| 2024 | Jun | 22 | (Sat) | 05:32 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:13 |
| 2024 | Jun | 23 | (Sun) | 05:32 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:13 |
| 2024 | Jun | 24 | (Mon) | 05:33 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:13 |
| 2024 | Jun | 25 | (Tue) | 05:33 | 05:56 | 66 | 12:23 | 80N | 18:50 | 294 | 19:14 |
| 2024 | Jun | 26 | (Wed) | 05:33 | 05:57 | 66 | 12:23 | 80N | 18:50 | 294 | 19:14 |
| 2024 | Jun | 27 | (Thu) | 05:33 | 05:57 | 66 | 12:24 | 81N | 18:50 | 294 | 19:14 |
| 2024 | Jun | 28 | (Fri) | 05:34 | 05:57 | 66 | 12:24 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jun | 29 | (Sat) | 05:34 | 05:57 | 66 | 12:24 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jun | 30 | (Sun) | 05:34 | 05:58 | 66 | 12:24 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jul | 01 | (Mon) | 05:35 | 05:58 | 66 | 12:24 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jul | 02 | (Tue) | 05:35 | 05:58 | 66 | 12:25 | 81N | 18:51 | 294 | 19:14 |
| 2024 | Jul | 03 | (Wed) | 05:35 | 05:58 | 66 | 12:25 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jul | 04 | (Thu) | 05:35 | 05:59 | 66 | 12:25 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jul | 05 | (Fri) | 05:36 | 05:59 | 66 | 12:25 | 81N | 18:51 | 294 | 19:15 |
| 2024 | Jul | 06 | (Sat) | 05:36 | 05:59 | 66 | 12:25 | 81N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 07 | (Sun) | 05:36 | 06:00 | 67 | 12:26 | 81N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 08 | (Mon) | 05:37 | 06:00 | 67 | 12:26 | 81N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 09 | (Tue) | 05:37 | 06:00 | 67 | 12:26 | 82N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 10 | (Wed) | 05:37 | 06:00 | 67 | 12:26 | 82N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 11 | (Thu) | 05:38 | 06:01 | 67 | 12:26 | 82N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 12 | (Fri) | 05:38 | 06:01 | 67 | 12:26 | 82N | 18:51 | 293 | 19:15 |
| 2024 | Jul | 13 | (Sat) | 05:38 | 06:01 | 67 | 12:26 | 82N | 18:51 | 293 | 19:14 |
| 2024 | Jul | 14 | (Sun) | 05:38 | 06:02 | 68 | 12:26 | 82N | 18:51 | 292 | 19:14 |
| 2024 | Jul | 15 | (Mon) | 05:39 | 06:02 | 68 | 12:27 | 82N | 18:51 | 292 | 19:14 |
| 2024 | Jul | 16 | (Tue) | 05:39 | 06:02 | 68 | 12:27 | 83N | 18:51 | 292 | 19:14 |
| 2024 | Jul | 17 | (Wed) | 05:39 | 06:02 | 68 | 12:27 | 83N | 18:51 | 292 | 19:14 |
| 2024 | Jul | 18 | (Thu) | 05:40 | 06:03 | 68 | 12:27 | 83N | 18:51 | 292 | 19:14 |
| 2024 | Jul | 19 | (Fri) | 05:40 | 06:03 | 68 | 12:27 | 83N | 18:51 | 291 | 19:14 |
| 2024 | Jul | 20 | (Sat) | 05:40 | 06:03 | 69 | 12:27 | 83N | 18:51 | 291 | 19:14 |
| 2024 | Jul | 21 | (Sun) | 05:41 | 06:03 | 69 | 12:27 | 83N | 18:50 | 291 | 19:13 |
| 2024 | Jul | 22 | (Mon) | 05:41 | 06:04 | 69 | 12:27 | 84N | 18:50 | 291 | 19:13 |
| 2024 | Jul | 23 | (Tue) | 05:41 | 06:04 | 69 | 12:27 | 84N | 18:50 | 291 | 19:13 |
| 2024 | Jul | 24 | (Wed) | 05:41 | 06:04 | 69 | 12:27 | 84N | 18:50 | 290 | 19:13 |
| 2024 | Jul | 25 | (Thu) | 05:42 | 06:04 | 70 | 12:27 | 84N | 18:50 | 290 | 19:12 |
| 2024 | Jul | 26 | (Fri) | 05:42 | 06:05 | 70 | 12:27 | 85N | 18:49 | 290 | 19:12 |
| 2024 | Jul | 27 | (Sat) | 05:42 | 06:05 | 70 | 12:27 | 85N | 18:49 | 290 | 19:12 |
| 2024 | Jul | 28 | (Sun) | 05:42 | 06:05 | 70 | 12:27 | 85N | 18:49 | 290 | 19:11 |
| 2024 | Jul | 29 | (Mon) | 05:43 | 06:05 | 71 | 12:27 | 85N | 18:49 | 289 | 19:11 |
| 2024 | Jul | 30 | (Tue) | 05:43 | 06:06 | 71 | 12:27 | 85N | 18:48 | 289 | 19:11 |

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

|      |     |    |       |       |       |     |       |     |       |     |       |
|------|-----|----|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Oct | 06 | (Sun) | 05:49 | 06:10 | 95  | 12:09 | 72S | 18:07 | 265 | 18:28 |
| 2024 | Oct | 07 | (Mon) | 05:49 | 06:10 | 96  | 12:08 | 72S | 18:06 | 264 | 18:28 |
| 2024 | Oct | 08 | (Tue) | 05:49 | 06:10 | 96  | 12:08 | 72S | 18:06 | 264 | 18:27 |
| 2024 | Oct | 09 | (Wed) | 05:49 | 06:10 | 96  | 12:08 | 71S | 18:05 | 263 | 18:26 |
| 2024 | Oct | 10 | (Thu) | 05:49 | 06:10 | 97  | 12:07 | 71S | 18:04 | 263 | 18:26 |
| 2024 | Oct | 11 | (Fri) | 05:49 | 06:11 | 97  | 12:07 | 70S | 18:04 | 263 | 18:25 |
| 2024 | Oct | 12 | (Sat) | 05:49 | 06:11 | 97  | 12:07 | 70S | 18:03 | 262 | 18:25 |
| 2024 | Oct | 13 | (Sun) | 05:49 | 06:11 | 98  | 12:07 | 70S | 18:03 | 262 | 18:24 |
| 2024 | Oct | 14 | (Mon) | 05:49 | 06:11 | 98  | 12:06 | 69S | 18:02 | 262 | 18:23 |
| 2024 | Oct | 15 | (Tue) | 05:50 | 06:11 | 99  | 12:06 | 69S | 18:01 | 261 | 18:23 |
| 2024 | Oct | 16 | (Wed) | 05:50 | 06:11 | 99  | 12:06 | 69S | 18:01 | 261 | 18:22 |
| 2024 | Oct | 17 | (Thu) | 05:50 | 06:11 | 99  | 12:06 | 68S | 18:00 | 260 | 18:22 |
| 2024 | Oct | 18 | (Fri) | 05:50 | 06:11 | 100 | 12:06 | 68S | 18:00 | 260 | 18:21 |
| 2024 | Oct | 19 | (Sat) | 05:50 | 06:12 | 100 | 12:05 | 67S | 17:59 | 260 | 18:21 |
| 2024 | Oct | 20 | (Sun) | 05:50 | 06:12 | 101 | 12:05 | 67S | 17:59 | 259 | 18:20 |
| 2024 | Oct | 21 | (Mon) | 05:50 | 06:12 | 101 | 12:05 | 67S | 17:58 | 259 | 18:20 |
| 2024 | Oct | 22 | (Tue) | 05:50 | 06:12 | 101 | 12:05 | 66S | 17:58 | 259 | 18:19 |
| 2024 | Oct | 23 | (Wed) | 05:51 | 06:12 | 102 | 12:05 | 66S | 17:57 | 258 | 18:19 |
| 2024 | Oct | 24 | (Thu) | 05:51 | 06:12 | 102 | 12:05 | 66S | 17:57 | 258 | 18:18 |
| 2024 | Oct | 25 | (Fri) | 05:51 | 06:13 | 102 | 12:05 | 65S | 17:56 | 258 | 18:18 |
| 2024 | Oct | 26 | (Sat) | 05:51 | 06:13 | 103 | 12:04 | 65S | 17:56 | 257 | 18:18 |
| 2024 | Oct | 27 | (Sun) | 05:51 | 06:13 | 103 | 12:04 | 65S | 17:56 | 257 | 18:17 |
| 2024 | Oct | 28 | (Mon) | 05:52 | 06:13 | 103 | 12:04 | 64S | 17:55 | 256 | 18:17 |
| 2024 | Oct | 29 | (Tue) | 05:52 | 06:14 | 104 | 12:04 | 64S | 17:55 | 256 | 18:17 |
| 2024 | Oct | 30 | (Wed) | 05:52 | 06:14 | 104 | 12:04 | 64S | 17:54 | 256 | 18:16 |
| 2024 | Oct | 31 | (Thu) | 05:52 | 06:14 | 104 | 12:04 | 63S | 17:54 | 255 | 18:16 |
| 2024 | Nov | 01 | (Fri) | 05:53 | 06:14 | 105 | 12:04 | 63S | 17:54 | 255 | 18:16 |
| 2024 | Nov | 02 | (Sat) | 05:53 | 06:15 | 105 | 12:04 | 63S | 17:53 | 255 | 18:15 |
| 2024 | Nov | 03 | (Sun) | 05:53 | 06:15 | 105 | 12:04 | 62S | 17:53 | 254 | 18:15 |
| 2024 | Nov | 04 | (Mon) | 05:53 | 06:15 | 106 | 12:04 | 62S | 17:53 | 254 | 18:15 |
| 2024 | Nov | 05 | (Tue) | 05:54 | 06:16 | 106 | 12:04 | 62S | 17:52 | 254 | 18:14 |
| 2024 | Nov | 06 | (Wed) | 05:54 | 06:16 | 106 | 12:04 | 61S | 17:52 | 254 | 18:14 |
| 2024 | Nov | 07 | (Thu) | 05:54 | 06:16 | 107 | 12:04 | 61S | 17:52 | 253 | 18:14 |
| 2024 | Nov | 08 | (Fri) | 05:55 | 06:17 | 107 | 12:04 | 61S | 17:52 | 253 | 18:14 |
| 2024 | Nov | 09 | (Sat) | 05:55 | 06:17 | 107 | 12:04 | 61S | 17:52 | 253 | 18:14 |
| 2024 | Nov | 10 | (Sun) | 05:55 | 06:17 | 107 | 12:04 | 60S | 17:51 | 252 | 18:14 |
| 2024 | Nov | 11 | (Mon) | 05:56 | 06:18 | 108 | 12:05 | 60S | 17:51 | 252 | 18:13 |
| 2024 | Nov | 12 | (Tue) | 05:56 | 06:18 | 108 | 12:05 | 60S | 17:51 | 252 | 18:13 |
| 2024 | Nov | 13 | (Wed) | 05:56 | 06:19 | 108 | 12:05 | 60S | 17:51 | 252 | 18:13 |
| 2024 | Nov | 14 | (Thu) | 05:57 | 06:19 | 109 | 12:05 | 59S | 17:51 | 251 | 18:13 |
| 2024 | Nov | 15 | (Fri) | 05:57 | 06:19 | 109 | 12:05 | 59S | 17:51 | 251 | 18:13 |
| 2024 | Nov | 16 | (Sat) | 05:57 | 06:20 | 109 | 12:05 | 59S | 17:51 | 251 | 18:13 |
| 2024 | Nov | 17 | (Sun) | 05:58 | 06:20 | 109 | 12:06 | 58S | 17:51 | 251 | 18:13 |
| 2024 | Nov | 18 | (Mon) | 05:58 | 06:21 | 110 | 12:06 | 58S | 17:51 | 250 | 18:13 |
| 2024 | Nov | 19 | (Tue) | 05:59 | 06:21 | 110 | 12:06 | 58S | 17:51 | 250 | 18:13 |
| 2024 | Nov | 20 | (Wed) | 05:59 | 06:22 | 110 | 12:06 | 58S | 17:51 | 250 | 18:13 |
| 2024 | Nov | 21 | (Thu) | 06:00 | 06:22 | 110 | 12:06 | 58S | 17:51 | 250 | 18:13 |
| 2024 | Nov | 22 | (Fri) | 06:00 | 06:23 | 111 | 12:07 | 57S | 17:51 | 249 | 18:13 |
| 2024 | Nov | 23 | (Sat) | 06:01 | 06:23 | 111 | 12:07 | 57S | 17:51 | 249 | 18:13 |
| 2024 | Nov | 24 | (Sun) | 06:01 | 06:24 | 111 | 12:07 | 57S | 17:51 | 249 | 18:13 |
| 2024 | Nov | 25 | (Mon) | 06:01 | 06:24 | 111 | 12:08 | 57S | 17:51 | 249 | 18:14 |
| 2024 | Nov | 26 | (Tue) | 06:02 | 06:25 | 111 | 12:08 | 57S | 17:51 | 249 | 18:14 |
| 2024 | Nov | 27 | (Wed) | 06:02 | 06:25 | 112 | 12:08 | 56S | 17:51 | 248 | 18:14 |
| 2024 | Nov | 28 | (Thu) | 06:03 | 06:26 | 112 | 12:09 | 56S | 17:51 | 248 | 18:14 |
| 2024 | Nov | 29 | (Fri) | 06:03 | 06:26 | 112 | 12:09 | 56S | 17:52 | 248 | 18:14 |
| 2024 | Nov | 30 | (Sat) | 06:04 | 06:27 | 112 | 12:09 | 56S | 17:52 | 248 | 18:15 |
| 2024 | Dec | 01 | (Sun) | 06:04 | 06:27 | 112 | 12:10 | 56S | 17:52 | 248 | 18:15 |
| 2024 | Dec | 02 | (Mon) | 06:05 | 06:28 | 112 | 12:10 | 56S | 17:52 | 248 | 18:15 |
| 2024 | Dec | 03 | (Tue) | 06:05 | 06:28 | 113 | 12:10 | 55S | 17:52 | 247 | 18:15 |
| 2024 | Dec | 04 | (Wed) | 06:06 | 06:29 | 113 | 12:11 | 55S | 17:53 | 247 | 18:16 |
| 2024 | Dec | 05 | (Thu) | 06:07 | 06:29 | 113 | 12:11 | 55S | 17:53 | 247 | 18:16 |
| 2024 | Dec | 06 | (Fri) | 06:07 | 06:30 | 113 | 12:12 | 55S | 17:53 | 247 | 18:16 |
| 2024 | Dec | 07 | (Sat) | 06:08 | 06:31 | 113 | 12:12 | 55S | 17:54 | 247 | 18:17 |
| 2024 | Dec | 08 | (Sun) | 06:08 | 06:31 | 113 | 12:13 | 55S | 17:54 | 247 | 18:17 |
| 2024 | Dec | 09 | (Mon) | 06:09 | 06:32 | 113 | 12:13 | 55S | 17:54 | 247 | 18:17 |
| 2024 | Dec | 10 | (Tue) | 06:09 | 06:32 | 113 | 12:13 | 55S | 17:55 | 247 | 18:18 |
| 2024 | Dec | 11 | (Wed) | 06:10 | 06:33 | 113 | 12:14 | 55S | 17:55 | 247 | 18:18 |

|      |        |       |       |       |     |       |     |       |     |       |
|------|--------|-------|-------|-------|-----|-------|-----|-------|-----|-------|
| 2024 | Dec 12 | (Thu) | 06:10 | 06:33 | 114 | 12:14 | 54S | 17:55 | 246 | 18:18 |
| 2024 | Dec 13 | (Fri) | 06:11 | 06:34 | 114 | 12:15 | 54S | 17:56 | 246 | 18:19 |
| 2024 | Dec 14 | (Sat) | 06:11 | 06:34 | 114 | 12:15 | 54S | 17:56 | 246 | 18:19 |
| 2024 | Dec 15 | (Sun) | 06:12 | 06:35 | 114 | 12:16 | 54S | 17:57 | 246 | 18:20 |
| 2024 | Dec 16 | (Mon) | 06:12 | 06:35 | 114 | 12:16 | 54S | 17:57 | 246 | 18:20 |
| 2024 | Dec 17 | (Tue) | 06:13 | 06:36 | 114 | 12:17 | 54S | 17:57 | 246 | 18:21 |
| 2024 | Dec 18 | (Wed) | 06:13 | 06:36 | 114 | 12:17 | 54S | 17:58 | 246 | 18:21 |
| 2024 | Dec 19 | (Thu) | 06:14 | 06:37 | 114 | 12:18 | 54S | 17:58 | 246 | 18:21 |
| 2024 | Dec 20 | (Fri) | 06:14 | 06:38 | 114 | 12:18 | 54S | 17:59 | 246 | 18:22 |
| 2024 | Dec 21 | (Sat) | 06:15 | 06:38 | 114 | 12:19 | 54S | 17:59 | 246 | 18:22 |
| 2024 | Dec 22 | (Sun) | 06:15 | 06:39 | 114 | 12:19 | 54S | 18:00 | 246 | 18:23 |
| 2024 | Dec 23 | (Mon) | 06:16 | 06:39 | 114 | 12:20 | 54S | 18:00 | 246 | 18:23 |
| 2024 | Dec 24 | (Tue) | 06:16 | 06:39 | 114 | 12:20 | 54S | 18:01 | 246 | 18:24 |
| 2024 | Dec 25 | (Wed) | 06:17 | 06:40 | 114 | 12:21 | 54S | 18:01 | 246 | 18:25 |
| 2024 | Dec 26 | (Thu) | 06:17 | 06:40 | 114 | 12:21 | 54S | 18:02 | 246 | 18:25 |
| 2024 | Dec 27 | (Fri) | 06:18 | 06:41 | 114 | 12:22 | 54S | 18:03 | 246 | 18:26 |
| 2024 | Dec 28 | (Sat) | 06:18 | 06:41 | 114 | 12:22 | 54S | 18:03 | 246 | 18:26 |
| 2024 | Dec 29 | (Sun) | 06:19 | 06:42 | 114 | 12:23 | 54S | 18:04 | 246 | 18:27 |
| 2024 | Dec 30 | (Mon) | 06:19 | 06:42 | 114 | 12:23 | 54S | 18:04 | 246 | 18:27 |
| 2024 | Dec 31 | (Tue) | 06:20 | 06:43 | 114 | 12:24 | 55S | 18:05 | 247 | 18:28 |

#### Moon

Phetchaburi  
Location: E 99°51'57.5", N13°07'01.2", 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     | °   |
| 2024           | Jan | 01 (Mon) | 22:34 | 81  | 04:12   | 91N  | 10:33 | 282 |
| 2024           | Jan | 02 (Tue) | 23:18 | 86  | 04:52   | 85S  | 11:08 | 277 |
| 2024           | Jan | 03 (Wed) |       |     | 05:31   | 80S  | 11:41 | 271 |
| 2024           | Jan | 04 (Thu) | 00:03 | 92  | 06:10   | 74S  | 12:15 | 265 |
| 2024           | Jan | 05 (Fri) | 00:49 | 98  | 06:51   | 68S  | 12:50 | 259 |
| 2024           | Jan | 06 (Sat) | 01:36 | 104 | 07:34   | 62S  | 13:29 | 253 |
| 2024           | Jan | 07 (Sun) | 02:28 | 109 | 08:20   | 57S  | 14:11 | 248 |
| 2024           | Jan | 08 (Mon) | 03:23 | 114 | 09:12   | 53S  | 15:00 | 244 |
| 2024           | Jan | 09 (Tue) | 04:23 | 117 | 10:09   | 50S  | 15:55 | 242 |
| 2024           | Jan | 10 (Wed) | 05:26 | 119 | 11:11   | 49S  | 16:56 | 241 |
| 2024           | Jan | 11 (Thu) | 06:29 | 119 | 12:15   | 50S  | 18:01 | 242 |
| 2024           | Jan | 12 (Fri) | 07:29 | 116 | 13:17   | 52S  | 19:08 | 246 |
| 2024           | Jan | 13 (Sat) | 08:25 | 112 | 14:17   | 57S  | 20:12 | 251 |
| 2024           | Jan | 14 (Sun) | 09:15 | 106 | 15:12   | 63S  | 21:13 | 257 |
| 2024           | Jan | 15 (Mon) | 10:00 | 99  | 16:04   | 70S  | 22:10 | 264 |
| 2024           | Jan | 16 (Tue) | 10:43 | 92  | 16:53   | 77S  | 23:05 | 272 |
| 2024           | Jan | 17 (Wed) | 11:24 | 85  | 17:40   | 84S  | 24:00 | 279 |
| 2024           | Jan | 18 (Thu) | 12:06 | 78  | 18:28   | 91N  |       |     |
| 2024           | Jan | 19 (Fri) | 12:48 | 72  | 19:18   | 85N  | 00:54 | 285 |
| 2024           | Jan | 20 (Sat) | 13:34 | 67  | 20:09   | 80N  | 01:50 | 291 |
| 2024           | Jan | 21 (Sun) | 14:23 | 64  | 21:03   | 77N  | 02:47 | 295 |
| 2024           | Jan | 22 (Mon) | 15:16 | 61  | 21:58   | 76N  | 03:45 | 298 |
| 2024           | Jan | 23 (Tue) | 16:10 | 61  | 22:53   | 76N  | 04:41 | 299 |
| 2024           | Jan | 24 (Wed) | 17:06 | 62  | 23:47   | 77N  | 05:36 | 299 |
| 2024           | Jan | 25 (Thu) | 18:00 | 65  |         |      | 06:26 | 297 |
| 2024           | Jan | 26 (Fri) | 18:52 | 69  | 00:37   | 80N  | 07:12 | 293 |
| 2024           | Jan | 27 (Sat) | 19:42 | 73  | 01:24   | 84N  | 07:54 | 289 |
| 2024           | Jan | 28 (Sun) | 20:29 | 79  | 02:08   | 89N  | 08:31 | 284 |
| 2024           | Jan | 29 (Mon) | 21:14 | 84  | 02:49   | 87S  | 09:07 | 279 |
| 2024           | Jan | 30 (Tue) | 21:58 | 90  | 03:29   | 82S  | 09:40 | 273 |
| 2024           | Jan | 31 (Wed) | 22:43 | 96  | 04:07   | 76S  | 10:14 | 267 |
| 2024           | Feb | 01 (Thu) | 23:29 | 102 | 04:47   | 70S  | 10:48 | 261 |
| 2024           | Feb | 02 (Fri) |       |     | 05:28   | 64S  | 11:24 | 255 |
| 2024           | Feb | 03 (Sat) | 00:17 | 107 | 06:12   | 59S  | 12:03 | 250 |
| 2024           | Feb | 04 (Sun) | 01:09 | 112 | 07:00   | 55S  | 12:48 | 246 |

|                   |           |           |           |
|-------------------|-----------|-----------|-----------|
| 2024 Feb 05 (Mon) | 02:06 116 | 07:53 51S | 13:38 243 |
| 2024 Feb 06 (Tue) | 03:06 118 | 08:51 49S | 14:35 241 |
| 2024 Feb 07 (Wed) | 04:08 119 | 09:53 49S | 15:38 241 |
| 2024 Feb 08 (Thu) | 05:09 118 | 10:56 51S | 16:44 244 |
| 2024 Feb 09 (Fri) | 06:08 114 | 11:58 55S | 17:50 248 |
| 2024 Feb 10 (Sat) | 07:01 109 | 12:56 60S | 18:54 254 |
| 2024 Feb 11 (Sun) | 07:50 102 | 13:51 67S | 19:55 261 |
| 2024 Feb 12 (Mon) | 08:36 95  | 14:43 74S | 20:54 269 |
| 2024 Feb 13 (Tue) | 09:19 88  | 15:33 82S | 21:50 276 |
| 2024 Feb 14 (Wed) | 10:02 80  | 16:23 89S | 22:47 283 |
| 2024 Feb 15 (Thu) | 10:45 74  | 17:13 87N | 23:44 289 |
| 2024 Feb 16 (Fri) | 11:31 68  | 18:05 82N |           |
| 2024 Feb 17 (Sat) | 12:20 64  | 18:59 78N | 00:42 294 |
| 2024 Feb 18 (Sun) | 13:12 62  | 19:54 76N | 01:40 297 |
| 2024 Feb 19 (Mon) | 14:06 61  | 20:49 75N | 02:37 299 |
| 2024 Feb 20 (Tue) | 15:01 62  | 21:43 76N | 03:32 299 |
| 2024 Feb 21 (Wed) | 15:55 64  | 22:34 79N | 04:23 297 |
| 2024 Feb 22 (Thu) | 16:48 67  | 23:21 83N | 05:10 295 |
| 2024 Feb 23 (Fri) | 17:38 72  |           | 05:53 291 |
| 2024 Feb 24 (Sat) | 18:25 77  | 00:06 87N | 06:31 286 |
| 2024 Feb 25 (Sun) | 19:11 82  | 00:48 89S | 07:07 280 |
| 2024 Feb 26 (Mon) | 19:55 88  | 01:27 83S | 07:41 275 |
| 2024 Feb 27 (Tue) | 20:40 94  | 02:06 78S | 08:14 269 |
| 2024 Feb 28 (Wed) | 21:25 100 | 02:45 72S | 08:48 263 |
| 2024 Feb 29 (Thu) | 22:12 106 | 03:25 66S | 09:23 257 |
| 2024 Mar 01 (Fri) | 23:02 111 | 04:08 61S | 10:01 252 |
| 2024 Mar 02 (Sat) | 23:56 115 | 04:53 56S | 10:42 247 |
| 2024 Mar 03 (Sun) |           | 05:43 52S | 11:29 244 |
| 2024 Mar 04 (Mon) | 00:53 118 | 06:38 49S | 12:22 241 |
| 2024 Mar 05 (Tue) | 01:52 119 | 07:36 48S | 13:20 241 |
| 2024 Mar 06 (Wed) | 02:52 119 | 08:37 49S | 14:23 242 |
| 2024 Mar 07 (Thu) | 03:50 116 | 09:38 52S | 15:27 245 |
| 2024 Mar 08 (Fri) | 04:45 112 | 10:37 57S | 16:32 251 |
| 2024 Mar 09 (Sat) | 05:36 106 | 11:33 63S | 17:34 257 |
| 2024 Mar 10 (Sun) | 06:23 99  | 12:27 70S | 18:34 265 |
| 2024 Mar 11 (Mon) | 07:08 91  | 13:19 78S | 19:33 272 |
| 2024 Mar 12 (Tue) | 07:52 84  | 14:10 85S | 20:31 280 |
| 2024 Mar 13 (Wed) | 08:37 77  | 15:02 89N | 21:30 287 |
| 2024 Mar 14 (Thu) | 09:23 71  | 15:55 83N | 22:30 292 |
| 2024 Mar 15 (Fri) | 10:13 66  | 16:50 79N | 23:30 296 |
| 2024 Mar 16 (Sat) | 11:05 62  | 17:47 76N |           |
| 2024 Mar 17 (Sun) | 12:00 61  | 18:43 75N | 00:30 299 |
| 2024 Mar 18 (Mon) | 12:56 61  | 19:38 76N | 01:27 299 |
| 2024 Mar 19 (Tue) | 13:51 63  | 20:31 78N | 02:20 298 |
| 2024 Mar 20 (Wed) | 14:44 66  | 21:19 81N | 03:08 296 |
| 2024 Mar 21 (Thu) | 15:34 70  | 22:04 85N | 03:52 292 |
| 2024 Mar 22 (Fri) | 16:22 75  | 22:47 91N | 04:32 287 |
| 2024 Mar 23 (Sat) | 17:08 80  | 23:27 85S | 05:08 282 |
| 2024 Mar 24 (Sun) | 17:53 86  |           | 05:43 277 |
| 2024 Mar 25 (Mon) | 18:38 92  | 00:06 80S | 06:16 271 |
| 2024 Mar 26 (Tue) | 19:23 98  | 00:45 74S | 06:49 265 |
| 2024 Mar 27 (Wed) | 20:09 104 | 01:25 68S | 07:24 259 |
| 2024 Mar 28 (Thu) | 20:59 109 | 02:06 62S | 08:01 253 |
| 2024 Mar 29 (Fri) | 21:51 114 | 02:51 57S | 08:41 249 |
| 2024 Mar 30 (Sat) | 22:46 117 | 03:39 53S | 09:26 245 |
| 2024 Mar 31 (Sun) | 23:44 119 | 04:31 50S | 10:16 242 |
| 2024 Apr 01 (Mon) |           | 05:27 49S | 11:11 241 |
| 2024 Apr 02 (Tue) | 00:42 119 | 06:26 49S | 12:10 241 |
| 2024 Apr 03 (Wed) | 01:39 118 | 07:25 51S | 13:12 244 |
| 2024 Apr 04 (Thu) | 02:33 114 | 08:23 54S | 14:14 248 |
| 2024 Apr 05 (Fri) | 03:24 109 | 09:18 60S | 15:15 254 |
| 2024 Apr 06 (Sat) | 04:11 103 | 10:11 66S | 16:15 261 |
| 2024 Apr 07 (Sun) | 04:56 96  | 11:03 74S | 17:13 268 |
| 2024 Apr 08 (Mon) | 05:40 88  | 11:54 81S | 18:12 276 |
| 2024 Apr 09 (Tue) | 06:24 80  | 12:46 89S | 19:11 283 |
| 2024 Apr 10 (Wed) | 07:10 74  | 13:39 86N | 20:11 290 |
| 2024 Apr 11 (Thu) | 08:00 68  | 14:35 81N | 21:13 295 |

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|-------------------|-----------|-----------|-----------|
| 2024 Apr 12 (Fri) | 08:52 64  | 15:33 77N | 22:16 298 |
| 2024 Apr 13 (Sat) | 09:48 61  | 16:32 75N | 23:16 299 |
| 2024 Apr 14 (Sun) | 10:46 61  | 17:29 75N |           |
| 2024 Apr 15 (Mon) | 11:43 62  | 18:24 77N | 00:12 299 |
| 2024 Apr 16 (Tue) | 12:37 65  | 19:15 80N | 01:04 297 |
| 2024 Apr 17 (Wed) | 13:30 68  | 20:02 84N | 01:50 293 |
| 2024 Apr 18 (Thu) | 14:19 73  | 20:45 89N | 02:31 289 |
| 2024 Apr 19 (Fri) | 15:05 79  | 21:26 87S | 03:08 284 |
| 2024 Apr 20 (Sat) | 15:50 84  | 22:05 82S | 03:43 279 |
| 2024 Apr 21 (Sun) | 16:35 90  | 22:44 76S | 04:17 273 |
| 2024 Apr 22 (Mon) | 17:20 96  | 23:23 70S | 04:50 267 |
| 2024 Apr 23 (Tue) | 18:06 102 |           | 05:25 261 |
| 2024 Apr 24 (Wed) | 18:55 108 | 00:05 64S | 06:01 255 |
| 2024 Apr 25 (Thu) | 19:46 112 | 00:49 59S | 06:40 250 |
| 2024 Apr 26 (Fri) | 20:41 116 | 01:36 54S | 07:24 246 |
| 2024 Apr 27 (Sat) | 21:38 119 | 02:28 51S | 08:13 243 |
| 2024 Apr 28 (Sun) | 22:37 119 | 03:23 49S | 09:06 241 |
| 2024 Apr 29 (Mon) | 23:34 118 | 04:20 49S | 10:04 241 |
| 2024 Apr 30 (Tue) |           | 05:19 50S | 11:05 243 |
| 2024 May 01 (Wed) | 00:28 116 | 06:16 53S | 12:05 246 |
| 2024 May 02 (Thu) | 01:18 111 | 07:10 58S | 13:05 251 |
| 2024 May 03 (Fri) | 02:05 105 | 08:02 64S | 14:03 258 |
| 2024 May 04 (Sat) | 02:49 99  | 08:52 71S | 14:59 265 |
| 2024 May 05 (Sun) | 03:31 91  | 09:42 78S | 15:56 272 |
| 2024 May 06 (Mon) | 04:14 84  | 10:32 85S | 16:53 280 |
| 2024 May 07 (Tue) | 04:59 77  | 11:24 89N | 17:52 286 |
| 2024 May 08 (Wed) | 05:46 71  | 12:18 83N | 18:54 292 |
| 2024 May 09 (Thu) | 06:37 66  | 13:16 79N | 19:56 296 |
| 2024 May 10 (Fri) | 07:32 62  | 14:15 76N | 20:59 299 |
| 2024 May 11 (Sat) | 08:31 61  | 15:15 75N | 21:59 299 |
| 2024 May 12 (Sun) | 09:29 61  | 16:12 76N | 22:54 298 |
| 2024 May 13 (Mon) | 10:27 63  | 17:06 79N | 23:43 295 |
| 2024 May 14 (Tue) | 11:21 67  | 17:56 82N |           |
| 2024 May 15 (Wed) | 12:12 71  | 18:41 87N | 00:27 291 |
| 2024 May 16 (Thu) | 13:00 77  | 19:23 89S | 01:06 286 |
| 2024 May 17 (Fri) | 13:46 82  | 20:03 84S | 01:42 281 |
| 2024 May 18 (Sat) | 14:30 88  | 20:42 78S | 02:17 275 |
| 2024 May 19 (Sun) | 15:15 94  | 21:21 72S | 02:50 269 |
| 2024 May 20 (Mon) | 16:01 100 | 22:01 66S | 03:24 263 |
| 2024 May 21 (Tue) | 16:48 106 | 22:44 61S | 03:59 257 |
| 2024 May 22 (Wed) | 17:39 111 | 23:31 56S | 04:37 252 |
| 2024 May 23 (Thu) | 18:34 115 |           | 05:20 247 |
| 2024 May 24 (Fri) | 19:31 118 | 00:21 52S | 06:08 244 |
| 2024 May 25 (Sat) | 20:30 119 | 01:16 49S | 07:01 241 |
| 2024 May 26 (Sun) | 21:29 119 | 02:14 49S | 07:58 241 |
| 2024 May 27 (Mon) | 22:24 116 | 03:13 49S | 08:59 242 |
| 2024 May 28 (Tue) | 23:16 112 | 04:11 52S | 10:00 245 |
| 2024 May 29 (Wed) |           | 05:07 56S | 11:00 250 |
| 2024 May 30 (Thu) | 00:03 107 | 05:59 62S | 11:57 256 |
| 2024 May 31 (Fri) | 00:47 101 | 06:48 68S | 12:53 263 |
| 2024 Jun 01 (Sat) | 01:29 94  | 07:37 75S | 13:48 270 |
| 2024 Jun 02 (Sun) | 02:10 87  | 08:25 83S | 14:43 277 |
| 2024 Jun 03 (Mon) | 02:52 80  | 09:14 89S | 15:39 284 |
| 2024 Jun 04 (Tue) | 03:37 73  | 10:06 86N | 16:38 290 |
| 2024 Jun 05 (Wed) | 04:25 68  | 11:01 81N | 17:39 295 |
| 2024 Jun 06 (Thu) | 05:18 64  | 11:59 77N | 18:42 298 |
| 2024 Jun 07 (Fri) | 06:15 61  | 12:59 75N | 19:43 299 |
| 2024 Jun 08 (Sat) | 07:14 61  | 13:58 75N | 20:41 299 |
| 2024 Jun 09 (Sun) | 08:13 62  | 14:54 77N | 21:34 296 |
| 2024 Jun 10 (Mon) | 09:10 65  | 15:46 81N | 22:21 293 |
| 2024 Jun 11 (Tue) | 10:03 70  | 16:34 85N | 23:02 288 |
| 2024 Jun 12 (Wed) | 10:53 75  | 17:18 90N | 23:40 283 |
| 2024 Jun 13 (Thu) | 11:40 80  | 17:59 86S |           |
| 2024 Jun 14 (Fri) | 12:25 86  | 18:38 80S | 00:15 277 |
| 2024 Jun 15 (Sat) | 13:09 92  | 19:17 74S | 00:48 271 |
| 2024 Jun 16 (Sun) | 13:54 98  | 19:56 68S | 01:22 265 |
| 2024 Jun 17 (Mon) | 14:41 103 | 20:38 63S | 01:56 259 |

|                   |       |     |       |     |       |     |
|-------------------|-------|-----|-------|-----|-------|-----|
| 2024 Jun 18 (Tue) | 15:30 | 109 | 21:23 | 58S | 02:33 | 254 |
| 2024 Jun 19 (Wed) | 16:23 | 113 | 22:12 | 53S | 03:14 | 249 |
| 2024 Jun 20 (Thu) | 17:20 | 117 | 23:06 | 50S | 03:59 | 245 |
| 2024 Jun 21 (Fri) | 18:19 | 119 |       |     | 04:51 | 242 |
| 2024 Jun 22 (Sat) | 19:19 | 119 | 00:04 | 49S | 05:48 | 241 |
| 2024 Jun 23 (Sun) | 20:17 | 117 | 01:04 | 49S | 06:49 | 241 |
| 2024 Jun 24 (Mon) | 21:11 | 114 | 02:03 | 51S | 07:51 | 244 |
| 2024 Jun 25 (Tue) | 22:01 | 109 | 03:01 | 55S | 08:53 | 248 |
| 2024 Jun 26 (Wed) | 22:46 | 103 | 03:55 | 60S | 09:52 | 254 |
| 2024 Jun 27 (Thu) | 23:29 | 96  | 04:46 | 67S | 10:49 | 261 |
| 2024 Jun 28 (Fri) |       |     | 05:35 | 73S | 11:44 | 268 |
| 2024 Jun 29 (Sat) | 00:10 | 89  | 06:22 | 81S | 12:38 | 275 |
| 2024 Jun 30 (Sun) | 00:51 | 82  | 07:10 | 87S | 13:33 | 282 |
| 2024 Jul 01 (Mon) | 01:34 | 75  | 08:00 | 88N | 14:30 | 288 |
| 2024 Jul 02 (Tue) | 02:20 | 69  | 08:53 | 82N | 15:29 | 293 |
| 2024 Jul 03 (Wed) | 03:10 | 65  | 09:49 | 78N | 16:30 | 297 |
| 2024 Jul 04 (Thu) | 04:04 | 62  | 10:47 | 76N | 17:31 | 299 |
| 2024 Jul 05 (Fri) | 05:02 | 61  | 11:46 | 75N | 18:30 | 299 |
| 2024 Jul 06 (Sat) | 06:00 | 62  | 12:43 | 76N | 19:24 | 297 |
| 2024 Jul 07 (Sun) | 06:58 | 64  | 13:37 | 79N | 20:13 | 294 |
| 2024 Jul 08 (Mon) | 07:53 | 68  | 14:26 | 83N | 20:57 | 290 |
| 2024 Jul 09 (Tue) | 08:44 | 73  | 15:12 | 88N | 21:36 | 285 |
| 2024 Jul 10 (Wed) | 09:33 | 78  | 15:54 | 88S | 22:12 | 279 |
| 2024 Jul 11 (Thu) | 10:19 | 84  | 16:34 | 82S | 22:46 | 273 |
| 2024 Jul 12 (Fri) | 11:03 | 90  | 17:13 | 76S | 23:20 | 267 |
| 2024 Jul 13 (Sat) | 11:48 | 96  | 17:52 | 70S | 23:53 | 262 |
| 2024 Jul 14 (Sun) | 12:33 | 101 | 18:32 | 65S |       |     |
| 2024 Jul 15 (Mon) | 13:21 | 107 | 19:15 | 60S | 00:29 | 256 |
| 2024 Jul 16 (Tue) | 14:11 | 112 | 20:02 | 55S | 01:07 | 251 |
| 2024 Jul 17 (Wed) | 15:06 | 116 | 20:53 | 51S | 01:50 | 246 |
| 2024 Jul 18 (Thu) | 16:04 | 118 | 21:49 | 49S | 02:39 | 243 |
| 2024 Jul 19 (Fri) | 17:04 | 119 | 22:48 | 49S | 03:33 | 241 |
| 2024 Jul 20 (Sat) | 18:04 | 118 | 23:49 | 50S | 04:33 | 241 |
| 2024 Jul 21 (Sun) | 19:01 | 115 |       |     | 05:36 | 243 |
| 2024 Jul 22 (Mon) | 19:53 | 111 | 00:49 | 53S | 06:40 | 247 |
| 2024 Jul 23 (Tue) | 20:41 | 105 | 01:46 | 58S | 07:42 | 252 |
| 2024 Jul 24 (Wed) | 21:26 | 98  | 02:40 | 64S | 08:41 | 258 |
| 2024 Jul 25 (Thu) | 22:08 | 91  | 03:30 | 71S | 09:38 | 266 |
| 2024 Jul 26 (Fri) | 22:50 | 83  | 04:19 | 79S | 10:33 | 273 |
| 2024 Jul 27 (Sat) | 23:33 | 77  | 05:08 | 86S | 11:29 | 280 |
| 2024 Jul 28 (Sun) |       |     | 05:57 | 89N | 12:25 | 287 |
| 2024 Jul 29 (Mon) | 00:18 | 71  | 06:49 | 84N | 13:23 | 292 |
| 2024 Jul 30 (Tue) | 01:06 | 66  | 07:43 | 79N | 14:23 | 296 |
| 2024 Jul 31 (Wed) | 01:58 | 63  | 08:40 | 76N | 15:23 | 299 |
| 2024 Aug 01 (Thu) | 02:54 | 61  | 09:38 | 75N | 16:22 | 299 |
| 2024 Aug 02 (Fri) | 03:52 | 61  | 10:35 | 76N | 17:17 | 298 |
| 2024 Aug 03 (Sat) | 04:49 | 63  | 11:30 | 78N | 18:08 | 295 |
| 2024 Aug 04 (Sun) | 05:45 | 66  | 12:20 | 82N | 18:53 | 292 |
| 2024 Aug 05 (Mon) | 06:37 | 71  | 13:07 | 86N | 19:34 | 287 |
| 2024 Aug 06 (Tue) | 07:27 | 76  | 13:50 | 90S | 20:11 | 281 |
| 2024 Aug 07 (Wed) | 08:13 | 82  | 14:31 | 84S | 20:45 | 275 |
| 2024 Aug 08 (Thu) | 08:58 | 88  | 15:10 | 78S | 21:19 | 269 |
| 2024 Aug 09 (Fri) | 09:43 | 94  | 15:49 | 72S | 21:52 | 264 |
| 2024 Aug 10 (Sat) | 10:27 | 99  | 16:28 | 67S | 22:26 | 258 |
| 2024 Aug 11 (Sun) | 11:14 | 105 | 17:09 | 61S | 23:03 | 253 |
| 2024 Aug 12 (Mon) | 12:02 | 110 | 17:54 | 57S | 23:43 | 248 |
| 2024 Aug 13 (Tue) | 12:54 | 114 | 18:42 | 53S |       |     |
| 2024 Aug 14 (Wed) | 13:50 | 117 | 19:35 | 50S | 00:28 | 244 |
| 2024 Aug 15 (Thu) | 14:48 | 119 | 20:32 | 48S | 01:19 | 242 |
| 2024 Aug 16 (Fri) | 15:47 | 119 | 21:32 | 49S | 02:16 | 241 |
| 2024 Aug 17 (Sat) | 16:45 | 117 | 22:32 | 51S | 03:17 | 241 |
| 2024 Aug 18 (Sun) | 17:40 | 113 | 23:31 | 56S | 04:20 | 244 |
| 2024 Aug 19 (Mon) | 18:31 | 108 |       |     | 05:24 | 249 |
| 2024 Aug 20 (Tue) | 19:18 | 101 | 00:27 | 61S | 06:25 | 255 |
| 2024 Aug 21 (Wed) | 20:02 | 94  | 01:20 | 68S | 07:25 | 262 |
| 2024 Aug 22 (Thu) | 20:45 | 86  | 02:11 | 76S | 08:23 | 270 |
| 2024 Aug 23 (Fri) | 21:29 | 79  | 03:01 | 83S | 09:20 | 278 |

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|-------------------|-----------|-----------|-----------|
| 2024 Aug 24 (Sat) | 22:14 72  | 03:52 90S | 10:18 285 |
| 2024 Aug 25 (Sun) | 23:03 67  | 04:44 85N | 11:17 291 |
| 2024 Aug 26 (Mon) | 23:54 63  | 05:39 80N | 12:17 295 |
| 2024 Aug 27 (Tue) |           | 06:35 77N | 13:18 298 |
| 2024 Aug 28 (Wed) | 00:49 61  | 07:33 75N | 14:17 299 |
| 2024 Aug 29 (Thu) | 01:47 61  | 08:30 75N | 15:13 299 |
| 2024 Aug 30 (Fri) | 02:44 62  | 09:25 77N | 16:05 297 |
| 2024 Aug 31 (Sat) | 03:40 65  | 10:17 80N | 16:51 293 |
| 2024 Sep 01 (Sun) | 04:33 69  | 11:04 85N | 17:33 288 |
| 2024 Sep 02 (Mon) | 05:22 74  | 11:48 90N | 18:11 283 |
| 2024 Sep 03 (Tue) | 06:10 80  | 12:29 86S | 18:46 277 |
| 2024 Sep 04 (Wed) | 06:55 85  | 13:09 80S | 19:19 271 |
| 2024 Sep 05 (Thu) | 07:39 92  | 13:47 74S | 19:52 266 |
| 2024 Sep 06 (Fri) | 08:24 97  | 14:26 69S | 20:26 260 |
| 2024 Sep 07 (Sat) | 09:09 103 | 15:07 63S | 21:02 254 |
| 2024 Sep 08 (Sun) | 09:57 108 | 15:49 58S | 21:40 249 |
| 2024 Sep 09 (Mon) | 10:47 113 | 16:36 54S | 22:23 245 |
| 2024 Sep 10 (Tue) | 11:40 116 | 17:26 51S | 23:10 242 |
| 2024 Sep 11 (Wed) | 12:36 119 | 18:19 49S |           |
| 2024 Sep 12 (Thu) | 13:33 120 | 19:16 48S | 00:03 241 |
| 2024 Sep 13 (Fri) | 14:30 118 | 20:15 50S | 01:00 241 |
| 2024 Sep 14 (Sat) | 15:25 116 | 21:13 53S | 02:01 243 |
| 2024 Sep 15 (Sun) | 16:17 111 | 22:10 58S | 03:03 246 |
| 2024 Sep 16 (Mon) | 17:05 105 | 23:04 64S | 04:05 252 |
| 2024 Sep 17 (Tue) | 17:51 98  | 23:56 72S | 05:06 259 |
| 2024 Sep 18 (Wed) | 18:36 90  |           | 06:05 266 |
| 2024 Sep 19 (Thu) | 19:20 82  | 00:48 79S | 07:04 274 |
| 2024 Sep 20 (Fri) | 20:06 75  | 01:40 87S | 08:03 282 |
| 2024 Sep 21 (Sat) | 20:54 69  | 02:33 88N | 09:04 288 |
| 2024 Sep 22 (Sun) | 21:47 64  | 03:29 82N | 10:06 294 |
| 2024 Sep 23 (Mon) | 22:42 61  | 04:27 78N | 11:09 297 |
| 2024 Sep 24 (Tue) | 23:40 60  | 05:26 75N | 12:10 299 |
| 2024 Sep 25 (Wed) |           | 06:25 75N | 13:09 299 |
| 2024 Sep 26 (Thu) | 00:39 61  | 07:21 76N | 14:02 297 |
| 2024 Sep 27 (Fri) | 01:35 64  | 08:14 79N | 14:50 294 |
| 2024 Sep 28 (Sat) | 02:29 68  | 09:02 83N | 15:33 290 |
| 2024 Sep 29 (Sun) | 03:20 72  | 09:47 88N | 16:12 285 |
| 2024 Sep 30 (Mon) | 04:07 78  | 10:29 88S | 16:47 279 |
| 2024 Oct 01 (Tue) | 04:53 84  | 11:08 82S | 17:21 273 |
| 2024 Oct 02 (Wed) | 05:37 90  | 11:47 76S | 17:54 268 |
| 2024 Oct 03 (Thu) | 06:22 96  | 12:26 71S | 18:28 262 |
| 2024 Oct 04 (Fri) | 07:07 101 | 13:06 65S | 19:02 256 |
| 2024 Oct 05 (Sat) | 07:53 107 | 13:48 60S | 19:40 251 |
| 2024 Oct 06 (Sun) | 08:43 112 | 14:33 55S | 20:21 247 |
| 2024 Oct 07 (Mon) | 09:34 115 | 15:21 52S | 21:06 243 |
| 2024 Oct 08 (Tue) | 10:29 118 | 16:13 49S | 21:56 241 |
| 2024 Oct 09 (Wed) | 11:25 119 | 17:08 48S | 22:51 240 |
| 2024 Oct 10 (Thu) | 12:20 119 | 18:04 49S | 23:49 242 |
| 2024 Oct 11 (Fri) | 13:15 117 | 19:01 51S |           |
| 2024 Oct 12 (Sat) | 14:06 113 | 19:56 56S | 00:48 245 |
| 2024 Oct 13 (Sun) | 14:54 108 | 20:49 61S | 01:48 249 |
| 2024 Oct 14 (Mon) | 15:40 101 | 21:41 68S | 02:47 255 |
| 2024 Oct 15 (Tue) | 16:24 94  | 22:32 75S | 03:45 262 |
| 2024 Oct 16 (Wed) | 17:07 86  | 23:23 83S | 04:44 270 |
| 2024 Oct 17 (Thu) | 17:53 79  |           | 05:42 277 |
| 2024 Oct 18 (Fri) | 18:41 72  | 00:16 90S | 06:43 285 |
| 2024 Oct 19 (Sat) | 19:33 66  | 01:12 85N | 07:46 291 |
| 2024 Oct 20 (Sun) | 20:29 63  | 02:10 80N | 08:51 296 |
| 2024 Oct 21 (Mon) | 21:28 61  | 03:12 76N | 09:56 299 |
| 2024 Oct 22 (Tue) | 22:29 61  | 04:13 75N | 10:58 299 |
| 2024 Oct 23 (Wed) | 23:28 63  | 05:13 76N | 11:55 298 |
| 2024 Oct 24 (Thu) |           | 06:08 78N | 12:46 295 |
| 2024 Oct 25 (Fri) | 00:23 66  | 06:59 82N | 13:31 291 |
| 2024 Oct 26 (Sat) | 01:16 71  | 07:45 86N | 14:12 287 |
| 2024 Oct 27 (Sun) | 02:04 76  | 08:28 90S | 14:48 281 |
| 2024 Oct 28 (Mon) | 02:51 82  | 09:08 84S | 15:22 275 |
| 2024 Oct 29 (Tue) | 03:35 88  | 09:47 78S | 15:56 269 |

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|-------------------|-----------|-----------|-----------|
| 2024 Oct 30 (Wed) | 04:19 94  | 10:25 72S | 16:29 264 |
| 2024 Oct 31 (Thu) | 05:04 99  | 11:05 67S | 17:03 258 |
| 2024 Nov 01 (Fri) | 05:50 105 | 11:46 61S | 17:40 253 |
| 2024 Nov 02 (Sat) | 06:39 110 | 12:30 57S | 18:20 248 |
| 2024 Nov 03 (Sun) | 07:30 114 | 13:18 53S | 19:04 244 |
| 2024 Nov 04 (Mon) | 08:24 117 | 14:09 50S | 19:53 242 |
| 2024 Nov 05 (Tue) | 09:20 119 | 15:03 48S | 20:46 241 |
| 2024 Nov 06 (Wed) | 10:15 119 | 15:59 49S | 21:43 241 |
| 2024 Nov 07 (Thu) | 11:09 118 | 16:54 51S | 22:41 244 |
| 2024 Nov 08 (Fri) | 12:01 115 | 17:49 54S | 23:39 247 |
| 2024 Nov 09 (Sat) | 12:48 110 | 18:41 59S |           |
| 2024 Nov 10 (Sun) | 13:33 104 | 19:31 65S | 00:36 253 |
| 2024 Nov 11 (Mon) | 14:16 97  | 20:20 72S | 01:32 259 |
| 2024 Nov 12 (Tue) | 14:58 90  | 21:09 79S | 02:28 266 |
| 2024 Nov 13 (Wed) | 15:41 83  | 22:00 87S | 03:24 274 |
| 2024 Nov 14 (Thu) | 16:26 76  | 22:53 88N | 04:23 281 |
| 2024 Nov 15 (Fri) | 17:16 69  | 23:50 82N | 05:24 288 |
| 2024 Nov 16 (Sat) | 18:10 64  |           | 06:28 293 |
| 2024 Nov 17 (Sun) | 19:09 62  | 00:51 78N | 07:34 297 |
| 2024 Nov 18 (Mon) | 20:11 61  | 01:54 75N | 08:39 299 |
| 2024 Nov 19 (Tue) | 21:13 62  | 02:56 75N | 09:41 299 |
| 2024 Nov 20 (Wed) | 22:12 65  | 03:56 77N | 10:36 297 |
| 2024 Nov 21 (Thu) | 23:08 69  | 04:50 80N | 11:25 293 |
| 2024 Nov 22 (Fri) | 23:59 74  | 05:39 85N | 12:08 288 |
| 2024 Nov 23 (Sat) |           | 06:24 90N | 12:47 283 |
| 2024 Nov 24 (Sun) | 00:46 80  | 07:06 86S | 13:22 277 |
| 2024 Nov 25 (Mon) | 01:32 86  | 07:45 80S | 13:56 271 |
| 2024 Nov 26 (Tue) | 02:16 92  | 08:24 74S | 14:29 266 |
| 2024 Nov 27 (Wed) | 03:00 97  | 09:03 69S | 15:03 260 |
| 2024 Nov 28 (Thu) | 03:46 103 | 09:43 63S | 15:39 254 |
| 2024 Nov 29 (Fri) | 04:34 108 | 10:27 58S | 16:18 249 |
| 2024 Nov 30 (Sat) | 05:24 113 | 11:13 54S | 17:01 245 |
| 2024 Dec 01 (Sun) | 06:18 116 | 12:04 51S | 17:48 242 |
| 2024 Dec 02 (Mon) | 07:14 119 | 12:58 49S | 18:41 241 |
| 2024 Dec 03 (Tue) | 08:10 119 | 13:54 49S | 19:38 241 |
| 2024 Dec 04 (Wed) | 09:06 118 | 14:50 50S | 20:36 243 |
| 2024 Dec 05 (Thu) | 09:58 116 | 15:45 53S | 21:34 246 |
| 2024 Dec 06 (Fri) | 10:46 111 | 16:38 58S | 22:32 251 |
| 2024 Dec 07 (Sat) | 11:31 106 | 17:28 63S | 23:27 257 |
| 2024 Dec 08 (Sun) | 12:13 99  | 18:16 70S |           |
| 2024 Dec 09 (Mon) | 12:54 93  | 19:03 77S | 00:21 264 |
| 2024 Dec 10 (Tue) | 13:35 85  | 19:51 84S | 01:15 271 |
| 2024 Dec 11 (Wed) | 14:18 78  | 20:41 91S | 02:10 278 |
| 2024 Dec 12 (Thu) | 15:04 72  | 21:34 85N | 03:08 285 |
| 2024 Dec 13 (Fri) | 15:55 67  | 22:32 80N | 04:08 291 |
| 2024 Dec 14 (Sat) | 16:51 63  | 23:33 76N | 05:12 296 |
| 2024 Dec 15 (Sun) | 17:51 61  |           | 06:18 298 |
| 2024 Dec 16 (Mon) | 18:54 61  | 00:36 75N | 07:22 299 |
| 2024 Dec 17 (Tue) | 19:56 63  | 01:38 76N | 08:21 298 |
| 2024 Dec 18 (Wed) | 20:54 67  | 02:36 79N | 09:14 295 |
| 2024 Dec 19 (Thu) | 21:48 72  | 03:29 83N | 10:01 290 |
| 2024 Dec 20 (Fri) | 22:38 77  | 04:17 88N | 10:42 285 |
| 2024 Dec 21 (Sat) | 23:25 83  | 05:00 88S | 11:19 280 |
| 2024 Dec 22 (Sun) |           | 05:41 82S | 11:54 274 |
| 2024 Dec 23 (Mon) | 00:10 89  | 06:20 77S | 12:27 268 |
| 2024 Dec 24 (Tue) | 00:55 95  | 06:59 71S | 13:01 262 |
| 2024 Dec 25 (Wed) | 01:40 101 | 07:39 65S | 13:36 256 |
| 2024 Dec 26 (Thu) | 02:26 106 | 08:21 60S | 14:13 251 |
| 2024 Dec 27 (Fri) | 03:16 111 | 09:06 55S | 14:55 247 |
| 2024 Dec 28 (Sat) | 04:08 115 | 09:55 52S | 15:41 243 |
| 2024 Dec 29 (Sun) | 05:04 118 | 10:48 49S | 16:32 241 |
| 2024 Dec 30 (Mon) | 06:01 119 | 11:44 49S | 17:28 241 |
| 2024 Dec 31 (Tue) | 06:58 119 | 12:42 49S | 18:27 242 |