

Sun Sep 1, 2019 UTC

| UTC | –Spica | | –Antares | | –Jupiter | | –Saturn | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 24°32.9' | 2217 | 70°03.0' | 2054 | 74°37.3' | 2032 | 103°32.0' | 2002 |
| 1 | 23°56.9' | 2231 | 69°25.6' | 2057 | 73°59.7' | 2035 | 102°54.2' | 2005 |
| 2 | 23°21.0' | 2245 | 68°48.2' | 2060 | 73°22.1' | 2038 | 102°16.4' | 2008 |
| 3 | 22°45.2' | 2260 | 68°10.9' | 2063 | 72°44.6' | 2041 | 101°38.6' | 2011 |
| 4 | 22°09.6' | 2277 | 67°33.6' | 2067 | 72°07.1' | 2044 | 101°00.8' | 2014 |
| 5 | 21°34.0' | 2294 | 66°56.3' | 2070 | 71°29.6' | 2047 | 100°23.1' | 2017 |
| 6 | 20°58.7' | 2313 | 66°19.0' | 2074 | 70°52.2' | 2050 | 99°45.4' | 2021 |
| 7 | 20°23.4' | 2334 | 65°41.8' | 2078 | 70°14.8' | 2054 | 99°07.7' | 2024 |
| 8 | 19°48.4' | 2356 | 65°04.6' | 2082 | 69°37.4' | 2057 | 98°30.1' | 2027 |
| 9 | 19°13.5' | 2380 | 64°27.5' | 2086 | 69°00.0' | 2061 | 97°52.4' | 2031 |
| 10 | 18°38.8' | 2407 | 63°50.3' | 2090 | 68°22.7' | 2064 | 97°14.8' | 2034 |
| 11 | 18°04.3' | 2435 | 63°13.3' | 2094 | 67°45.4' | 2068 | 96°37.3' | 2038 |
| 12 | 17°30.1' | 2467 | 62°36.2' | 2098 | 67°08.1' | 2072 | 95°59.8' | 2041 |
| 13 | 16°56.1' | 2502 | 61°59.2' | 2102 | 66°30.9' | 2075 | 95°22.3' | 2045 |
| 14 | 16°22.4' | 2540 | 61°22.2' | 2106 | 65°53.7' | 2079 | 94°44.8' | 2049 |
| 15 | 15°48.9' | 2582 | 60°45.3' | 2111 | 65°16.5' | 2083 | 94°07.4' | 2053 |
| 16 | 15°15.8' | 2630 | 60°08.4' | 2115 | 64°39.3' | 2087 | 93°30.0' | 2057 |
| 17 | 14°43.1' | 2682 | 59°31.5' | 2120 | 64°02.2' | 2091 | 92°52.6' | 2061 |
| 18 | 14°10.7' | 2742 | 58°54.7' | 2125 | 63°25.2' | 2095 | 92°15.3' | 2065 |
| 19 | 13°38.8' | 2808 | 58°17.9' | 2129 | 62°48.1' | 2099 | 91°38.0' | 2069 |
| 20 | 13°07.4' | 2884 | 57°41.2' | 2134 | 62°11.1' | 2104 | 91°00.7' | 2073 |
| 21 | 12°36.5' | 2970 | 57°04.4' | 2139 | 61°34.2' | 2108 | 90°23.5' | 2077 |
| 22 | 12°06.2' | 3069 | 56°27.8' | 2144 | 60°57.2' | 2112 | 89°46.3' | 2081 |
| 23 | 11°36.6' | 3183 | 55°51.2' | 2149 | 60°20.4' | 2117 | 89°09.1' | 2086 |

Mon Sep 2, 2019 UTC

| UTC | –Antares | | –Jupiter | | –Saturn | | –Altair | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 55°14.6' | 2155 | 59°43.5' | 2121 | 88°32.0' | 2090 | 101°42.0' | 2779 |
| 1 | 54°38.1' | 2160 | 59°06.7' | 2126 | 87°54.9' | 2095 | 101°10.4' | 2781 |
| 2 | 54°01.6' | 2165 | 58°29.9' | 2130 | 87°17.9' | 2099 | 100°38.8' | 2782 |
| 3 | 53°25.1' | 2171 | 57°53.2' | 2135 | 86°40.9' | 2104 | 100°07.2' | 2784 |
| 4 | 52°48.7' | 2176 | 57°16.5' | 2140 | 86°03.9' | 2108 | 99°35.6' | 2787 |
| 5 | 52°12.4' | 2182 | 56°39.8' | 2145 | 85°27.0' | 2113 | 99°04.0' | 2789 |
| 6 | 51°36.1' | 2188 | 56°03.2' | 2149 | 84°50.1' | 2118 | 98°32.4' | 2792 |
| 7 | 50°59.8' | 2194 | 55°26.6' | 2154 | 84°13.3' | 2122 | 98°00.9' | 2794 |
| 8 | 50°23.6' | 2200 | 54°50.1' | 2159 | 83°36.4' | 2127 | 97°29.3' | 2797 |
| 9 | 49°47.5' | 2206 | 54°13.6' | 2164 | 82°59.7' | 2132 | 96°57.8' | 2800 |
| 10 | 49°11.3' | 2212 | 53°37.1' | 2169 | 82°23.0' | 2137 | 96°26.3' | 2804 |
| 11 | 48°35.3' | 2218 | 53°00.7' | 2174 | 81°46.3' | 2142 | 95°54.9' | 2807 |
| 12 | 47°59.3' | 2224 | 52°24.4' | 2179 | 81°09.6' | 2147 | 95°23.4' | 2811 |
| 13 | 47°23.3' | 2231 | 51°48.0' | 2185 | 80°33.0' | 2152 | 94°52.0' | 2815 |
| 14 | 46°47.4' | 2237 | 51°11.8' | 2190 | 79°56.5' | 2157 | 94°20.6' | 2819 |
| 15 | 46°11.6' | 2244 | 50°35.5' | 2195 | 79°20.0' | 2162 | 93°49.3' | 2823 |
| 16 | 45°35.8' | 2250 | 49°59.3' | 2200 | 78°43.5' | 2167 | 93°18.0' | 2827 |
| 17 | 45°00.1' | 2257 | 49°23.2' | 2206 | 78°07.1' | 2172 | 92°46.7' | 2832 |
| 18 | 44°24.4' | 2264 | 48°47.1' | 2211 | 77°30.7' | 2178 | 92°15.4' | 2837 |
| 19 | 43°48.8' | 2271 | 48°11.0' | 2217 | 76°54.3' | 2183 | 91°44.2' | 2841 |
| 20 | 43°13.2' | 2278 | 47°35.0' | 2222 | 76°18.1' | 2188 | 91°13.0' | 2846 |
| 21 | 42°37.7' | 2286 | 46°59.0' | 2228 | 75°41.8' | 2194 | 90°41.9' | 2852 |
| 22 | 42°02.2' | 2293 | 46°23.1' | 2233 | 75°05.6' | 2199 | 90°10.7' | 2857 |
| 23 | 41°26.9' | 2300 | 45°47.2' | 2239 | 74°29.4' | 2205 | 89°39.7' | 2863 |

Tue Sep 3, 2019 UTC

| UTC | +Sun | | -Jupiter | | -Antares | | -Saturn | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 50°12.5' | 2538 | 45°11.4' | 2245 | 40°51.5' | 2308 | 73°53.3' | 2210 |
| 1 | 50°46.0' | 2544 | 44°35.6' | 2250 | 40°16.3' | 2316 | 73°17.2' | 2215 |
| 2 | 51°19.4' | 2549 | 43°59.9' | 2256 | 39°41.1' | 2324 | 72°41.2' | 2221 |
| 3 | 51°52.8' | 2555 | 43°24.2' | 2262 | 39°05.9' | 2332 | 72°05.2' | 2227 |
| 4 | 52°26.1' | 2561 | 42°48.5' | 2267 | 38°30.8' | 2340 | 71°29.3' | 2232 |
| 5 | 52°59.3' | 2567 | 42°12.9' | 2273 | 37°55.8' | 2348 | 70°53.4' | 2238 |
| 6 | 53°32.6' | 2572 | 41°37.4' | 2279 | 37°20.9' | 2357 | 70°17.6' | 2243 |
| 7 | 54°05.8' | 2578 | 41°01.9' | 2285 | 36°46.0' | 2365 | 69°41.8' | 2249 |
| 8 | 54°38.9' | 2584 | 40°26.4' | 2291 | 36°11.2' | 2374 | 69°06.0' | 2255 |
| 9 | 55°12.0' | 2590 | 39°51.0' | 2297 | 35°36.5' | 2383 | 68°30.3' | 2260 |
| 10 | 55°45.0' | 2596 | 39°15.7' | 2303 | 35°01.8' | 2392 | 67°54.7' | 2266 |
| 11 | 56°18.0' | 2602 | 38°40.4' | 2309 | 34°27.2' | 2402 | 67°19.1' | 2272 |
| 12 | 56°51.0' | 2608 | 38°05.1' | 2315 | 33°52.7' | 2411 | 66°43.5' | 2278 |
| 13 | 57°23.9' | 2614 | 37°29.9' | 2321 | 33°18.3' | 2421 | 66°08.0' | 2283 |
| 14 | 57°56.8' | 2620 | 36°54.7' | 2327 | 32°43.9' | 2431 | 65°32.5' | 2289 |
| 15 | 58°29.6' | 2626 | 36°19.6' | 2333 | 32°09.6' | 2441 | 64°57.1' | 2295 |
| 16 | 59°02.4' | 2632 | 35°44.6' | 2340 | 31°35.4' | 2452 | 64°21.7' | 2301 |
| 17 | 59°35.1' | 2638 | 35°09.6' | 2346 | 31°01.3' | 2463 | 63°46.4' | 2307 |
| 18 | 60°07.8' | 2645 | 34°34.6' | 2352 | 30°27.3' | 2474 | 63°11.1' | 2313 |
| 19 | 60°40.4' | 2651 | 33°59.7' | 2358 | 29°53.4' | 2485 | 62°35.9' | 2318 |
| 20 | 61°13.0' | 2657 | 33°24.8' | 2365 | 29°19.5' | 2497 | 62°00.7' | 2324 |
| 21 | 61°45.5' | 2663 | 32°50.0' | 2371 | 28°45.7' | 2509 | 61°25.6' | 2330 |
| 22 | 62°18.0' | 2669 | 32°15.3' | 2377 | 28°12.1' | 2522 | 60°50.5' | 2336 |
| 23 | 62°50.5' | 2676 | 31°40.6' | 2384 | 27°38.5' | 2535 | 60°15.5' | 2342 |

Wed Sep 4, 2019 UTC

| UTC | +Sun | | -Jupiter | | +Spica | | -Antares | | -Saturn | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 63°22.9' | 2682 | 31°05.9' | 2390 | 21°23.3' | 2614 | 27°05.0' | 2548 | 59°40.5' | 2348 |
| 1 | 63°55.2' | 2688 | 30°31.3' | 2396 | 21°56.2' | 2608 | 26°31.7' | 2562 | 59°05.6' | 2354 |
| 2 | 64°27.6' | 2695 | 29°56.7' | 2403 | 22°29.1' | 2602 | 25°58.4' | 2577 | 58°30.7' | 2360 |
| 3 | 64°59.8' | 2701 | 29°22.2' | 2409 | 23°02.0' | 2597 | 25°25.2' | 2592 | 57°55.8' | 2366 |
| 4 | 65°32.0' | 2707 | 28°47.8' | 2416 | 23°35.0' | 2593 | 24°52.2' | 2607 | 57°21.0' | 2372 |
| 5 | 66°04.2' | 2713 | 28°13.4' | 2423 | 24°08.1' | 2589 | 24°19.3' | 2624 | 56°46.3' | 2378 |
| 6 | 66°36.3' | 2720 | 27°39.0' | 2429 | 24°41.1' | 2586 | 23°46.5' | 2641 | 56°11.6' | 2384 |
| 7 | 67°08.4' | 2726 | 27°04.7' | 2436 | 25°14.2' | 2584 | 23°13.8' | 2659 | 55°36.9' | 2390 |
| 8 | 67°40.4' | 2732 | 26°30.5' | 2443 | 25°47.3' | 2582 | 22°41.3' | 2678 | 55°02.3' | 2396 |
| 9 | 68°12.4' | 2739 | 25°56.3' | 2449 | 26°20.4' | 2581 | 22°08.9' | 2698 | 54°27.7' | 2402 |
| 10 | 68°44.3' | 2745 | 25°22.2' | 2456 | 26°53.5' | 2581 | 21°36.7' | 2719 | 53°53.2' | 2408 |
| 11 | 69°16.2' | 2752 | 24°48.1' | 2463 | 27°26.6' | 2580 | 21°04.6' | 2741 | 53°18.8' | 2414 |
| 12 | 69°48.1' | 2758 | 24°14.1' | 2470 | 27°59.8' | 2580 | 20°32.7' | 2764 | 52°44.3' | 2420 |
| 13 | 70°19.9' | 2764 | 23°40.1' | 2477 | 28°32.9' | 2581 | 20°00.9' | 2789 | 52°10.0' | 2426 |
| 14 | 70°51.6' | 2771 | 23°06.2' | 2484 | 29°06.0' | 2581 | 19°29.4' | 2816 | 51°35.6' | 2432 |
| 15 | 71°23.3' | 2777 | 22°32.3' | 2491 | 29°39.1' | 2583 | 18°58.0' | 2844 | 51°01.4' | 2438 |
| 16 | 71°55.0' | 2783 | 21°58.5' | 2498 | 30°12.2' | 2584 | 18°26.8' | 2875 | 50°27.1' | 2443 |
| 17 | 72°26.6' | 2790 | 21°24.7' | 2506 | 30°45.3' | 2585 | 17°55.9' | 2908 | 49°53.0' | 2449 |
| 18 | 72°58.2' | 2796 | 20°51.0' | 2513 | 31°18.4' | 2587 | 17°25.2' | 2943 | 49°18.8' | 2455 |
| 19 | 73°29.7' | 2802 | 20°17.4' | 2520 | 31°51.5' | 2589 | 16°54.7' | 2981 | 48°44.7' | 2461 |
| 20 | 74°01.1' | 2809 | 19°43.8' | 2528 | 32°24.5' | 2591 | 16°24.5' | 3023 | 48°10.7' | 2467 |
| 21 | 74°32.6' | 2815 | 19°10.3' | 2536 | 32°57.6' | 2594 | 15°54.6' | 3068 | 47°36.7' | 2473 |
| 22 | 75°04.0' | 2821 | 18°36.8' | 2544 | 33°30.6' | 2596 | 15°25.0' | 3118 | 47°02.7' | 2479 |
| 23 | 75°35.3' | 2828 | 18°03.4' | 2552 | 34°03.6' | 2599 | 14°55.7' | 3173 | 46°28.8' | 2485 |

Thu Sep 5, 2019 UTC

| UTC | +Sun | | -Jupiter | | +Spica | | -Saturn | | -Antares | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 76°06.6' | 2834 | 17°30.1' | 2560 | 34°36.6' | 2602 | 45°55.0' | 2491 | 14°26.8' | 3233 |
| 1 | 76°37.8' | 2840 | 16°56.8' | 2569 | 35°09.5' | 2605 | 45°21.2' | 2497 | 13°58.3' | 3299 |
| 2 | 77°09.0' | 2846 | 16°23.6' | 2577 | 35°42.5' | 2608 | 44°47.4' | 2503 | 13°30.2' | 3373 |
| 3 | 77°40.2' | 2853 | 15°50.5' | 2586 | 36°15.4' | 2611 | 44°13.7' | 2508 | 13°02.6' | 3456 |
| 4 | 78°11.3' | 2859 | 15°17.4' | 2596 | 36°48.3' | 2615 | 43°40.0' | 2514 | 12°35.6' | 3548 |
| 5 | 78°42.3' | 2865 | 14°44.4' | 2606 | 37°21.1' | 2618 | 43°06.4' | 2520 | 12°09.1' | 3653 |
| 6 | 79°13.4' | 2871 | 14°11.5' | 2616 | 37°54.0' | 2622 | 42°32.8' | 2526 | 11°43.2' | 3771 |
| 7 | 79°44.3' | 2878 | 13°38.6' | 2627 | 38°26.8' | 2625 | 41°59.2' | 2532 | 11°18.0' | 3906 |
| 8 | 80°15.3' | 2884 | 13°05.8' | 2638 | 38°59.5' | 2629 | 41°25.8' | 2537 | – | – |
| 9 | 80°46.2' | 2890 | 12°33.1' | 2650 | 39°32.3' | 2633 | 40°52.3' | 2543 | – | – |
| 10 | 81°17.0' | 2896 | 12°00.6' | 2663 | 40°05.0' | 2636 | 40°18.9' | 2549 | – | – |
| 11 | 81°47.8' | 2902 | 11°28.1' | 2677 | 40°37.7' | 2640 | 39°45.5' | 2555 | – | – |
| 12 | 82°18.5' | 2908 | 10°55.7' | 2693 | 41°10.4' | 2644 | 39°12.2' | 2560 | – | – |
| 13 | 82°49.3' | 2915 | 10°23.4' | 2710 | 41°43.0' | 2648 | 38°38.9' | 2566 | – | – |
| 14 | 83°19.9' | 2921 | 9°51.2' | 2728 | 42°15.6' | 2652 | 38°05.7' | 2572 | – | – |
| 15 | 83°50.6' | 2927 | 9°19.2' | 2750 | 42°48.2' | 2656 | 37°32.5' | 2577 | – | – |
| 16 | 84°21.1' | 2933 | 8°47.4' | 2774 | 43°20.8' | 2661 | 36°59.4' | 2583 | – | – |
| 17 | 84°51.7' | 2939 | 8°15.7' | 2802 | 43°53.3' | 2665 | 36°26.3' | 2588 | – | – |
| 18 | 85°22.2' | 2945 | 7°44.2' | 2835 | 44°25.8' | 2669 | 35°53.2' | 2594 | – | – |
| 19 | 85°52.6' | 2951 | 7°13.0' | 2875 | 44°58.2' | 2673 | 35°20.2' | 2600 | – | – |
| 20 | 86°23.0' | 2957 | 6°42.0' | 2924 | 45°30.6' | 2677 | 34°47.2' | 2605 | – | – |
| 21 | 86°53.4' | 2963 | 6°11.4' | 2984 | 46°03.0' | 2682 | 34°14.3' | 2611 | – | – |
| 22 | 87°23.7' | 2969 | 5°41.3' | 3062 | 46°35.4' | 2686 | 33°41.4' | 2616 | – | – |
| 23 | 87°54.0' | 2975 | 5°11.6' | 3164 | 47°07.7' | 2690 | 33°08.5' | 2621 | – | – |

Fri Sep 6, 2019 UTC

| UTC | +Sun | | -Saturn | | +Spica | | -Formalhaut | | +Arcturus | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 88°24.3' | 2980 | 32°35.7' | 2627 | 47°40.0' | 2695 | 84°09.9' | 2837 | 52°20.6' | 3400 |
| 1 | 88°54.5' | 2986 | 32°03.0' | 2632 | 48°12.3' | 2699 | 83°38.7' | 2842 | 52°48.0' | 3395 |
| 2 | 89°24.7' | 2992 | 31°30.2' | 2638 | 48°44.5' | 2703 | 83°07.5' | 2848 | 53°15.5' | 3389 |
| 3 | 89°54.8' | 2998 | 30°57.5' | 2643 | 49°16.7' | 2708 | 82°36.3' | 2854 | 53°43.0' | 3384 |
| 4 | 90°24.9' | 3004 | 30°24.9' | 2648 | 49°48.8' | 2712 | 82°05.2' | 2860 | 54°10.5' | 3380 |
| 5 | 90°54.9' | 3009 | 29°52.3' | 2654 | 50°21.0' | 2717 | 81°34.2' | 2866 | 54°38.0' | 3375 |
| 6 | 91°24.9' | 3015 | 29°19.7' | 2659 | 50°53.1' | 2721 | 81°03.2' | 2872 | 55°05.6' | 3371 |
| 7 | 91°54.9' | 3021 | 28°47.2' | 2664 | 51°25.1' | 2725 | 80°32.2' | 2878 | 55°33.2' | 3367 |
| 8 | 92°24.8' | 3026 | 28°14.7' | 2669 | 51°57.2' | 2730 | 80°01.3' | 2883 | 56°00.9' | 3364 |
| 9 | 92°54.7' | 3032 | 27°42.2' | 2674 | 52°29.2' | 2734 | 79°30.4' | 2889 | 56°28.5' | 3360 |
| 10 | 93°24.6' | 3038 | 27°09.8' | 2680 | 53°01.2' | 2738 | 78°59.5' | 2895 | 56°56.2' | 3357 |
| 11 | 93°54.4' | 3043 | 26°37.5' | 2685 | 53°33.1' | 2743 | 78°28.7' | 2901 | 57°23.9' | 3354 |
| 12 | 94°24.1' | 3049 | 26°05.1' | 2690 | 54°05.0' | 2747 | 77°58.0' | 2907 | 57°51.6' | 3351 |
| 13 | 94°53.9' | 3054 | 25°32.8' | 2695 | 54°36.9' | 2752 | 77°27.2' | 2913 | 58°19.3' | 3349 |
| 14 | 95°23.6' | 3060 | 25°00.6' | 2700 | 55°08.7' | 2756 | 76°56.6' | 2919 | 58°47.1' | 3346 |
| 15 | 95°53.2' | 3065 | 24°28.3' | 2705 | 55°40.5' | 2760 | 76°25.9' | 2925 | 59°14.9' | 3344 |
| 16 | 96°22.9' | 3070 | 23°56.2' | 2710 | 56°12.3' | 2765 | 75°55.3' | 2931 | 59°42.6' | 3342 |
| 17 | 96°52.5' | 3076 | 23°24.0' | 2715 | 56°44.0' | 2769 | 75°24.8' | 2937 | 60°10.4' | 3340 |
| 18 | 97°22.0' | 3081 | 22°51.9' | 2720 | 57°15.8' | 2773 | 74°54.3' | 2943 | 60°38.2' | 3339 |
| 19 | 97°51.5' | 3086 | 22°19.8' | 2724 | 57°47.4' | 2777 | 74°23.8' | 2949 | 61°06.0' | 3337 |
| 20 | 98°21.0' | 3092 | 21°47.8' | 2729 | 58°19.1' | 2782 | 73°53.4' | 2955 | 61°33.9' | 3336 |
| 21 | 98°50.4' | 3097 | 21°15.8' | 2734 | 58°50.7' | 2786 | 73°23.0' | 2961 | 62°01.7' | 3335 |
| 22 | 99°19.8' | 3102 | 20°43.8' | 2739 | 59°22.3' | 2790 | 72°52.6' | 2967 | 62°29.5' | 3334 |
| 23 | 99°49.2' | 3107 | 20°11.9' | 2744 | 59°53.9' | 2794 | 72°22.3' | 2973 | 62°57.4' | 3333 |

Sat Sep 7, 2019 UTC

| UTC | +Sun | | -Saturn | | +Jupiter | | +Antares | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 100°18.6' | 3112 | 19°40.0' | 2748 | 8°59.2' | 2917 | 15°45.2' | 3317 | 60°25.4' | 2799 |
| 1 | 100°47.9' | 3117 | 19°08.1' | 2753 | 9°29.9' | 2907 | 16°13.1' | 3286 | 60°56.9' | 2803 |
| 2 | 101°17.1' | 3123 | 18°36.3' | 2758 | 10°00.6' | 2900 | 16°41.3' | 3259 | 61°28.4' | 2807 |
| 3 | 101°46.4' | 3128 | 18°04.5' | 2762 | 10°31.4' | 2894 | 17°09.6' | 3235 | 61°59.8' | 2811 |
| 4 | 102°15.6' | 3133 | 17°32.7' | 2767 | 11°02.2' | 2890 | 17°38.1' | 3213 | 62°31.2' | 2815 |
| 5 | 102°44.7' | 3138 | 17°01.0' | 2771 | 11°33.0' | 2887 | 18°06.7' | 3194 | 63°02.6' | 2819 |
| 6 | 103°13.9' | 3142 | 16°29.3' | 2776 | 12°03.9' | 2885 | 18°35.5' | 3176 | 63°33.9' | 2823 |
| 7 | 103°43.0' | 3147 | 15°57.6' | 2780 | 12°34.8' | 2883 | 19°04.4' | 3160 | 64°05.3' | 2827 |
| 8 | 104°12.0' | 3152 | 15°26.0' | 2785 | 13°05.7' | 2882 | 19°33.4' | 3145 | 64°36.5' | 2832 |
| 9 | 104°41.1' | 3157 | 14°54.4' | 2789 | 13°36.5' | 2882 | 20°02.4' | 3132 | 65°07.8' | 2836 |
| 10 | 105°10.1' | 3162 | 14°22.8' | 2793 | 14°07.4' | 2882 | 20°31.6' | 3120 | 65°39.0' | 2840 |
| 11 | 105°39.0' | 3166 | 13°51.3' | 2798 | 14°38.3' | 2883 | 21°00.9' | 3110 | 66°10.2' | 2843 |
| 12 | 106°08.0' | 3171 | 13°19.8' | 2802 | 15°09.2' | 2884 | 21°30.2' | 3100 | 66°41.4' | 2847 |
| 13 | 106°36.9' | 3176 | 12°48.3' | 2806 | 15°40.1' | 2885 | 21°59.6' | 3091 | 67°12.6' | 2851 |
| 14 | 107°05.8' | 3180 | 12°16.8' | 2810 | 16°11.0' | 2887 | 22°29.0' | 3083 | 67°43.7' | 2855 |
| 15 | 107°34.6' | 3185 | 11°45.4' | 2814 | 16°41.9' | 2888 | 22°58.5' | 3076 | 68°14.8' | 2859 |
| 16 | 108°03.4' | 3190 | 11°14.0' | 2818 | 17°12.7' | 2890 | 23°28.1' | 3070 | 68°45.8' | 2863 |
| 17 | 108°32.2' | 3194 | 10°42.7' | 2823 | 17°43.6' | 2892 | 23°57.7' | 3064 | 69°16.9' | 2867 |
| 18 | 109°01.0' | 3199 | 10°11.4' | 2827 | 18°14.4' | 2894 | 24°27.3' | 3059 | 69°47.9' | 2870 |
| 19 | 109°29.7' | 3203 | 9°40.1' | 2831 | 18°45.2' | 2897 | 24°57.0' | 3054 | 70°18.9' | 2874 |
| 20 | 109°58.4' | 3207 | 9°08.8' | 2835 | 19°16.0' | 2899 | 25°26.6' | 3050 | 70°49.8' | 2878 |
| 21 | 110°27.1' | 3212 | 8°37.6' | 2839 | 19°46.8' | 2902 | 25°56.4' | 3046 | 71°20.7' | 2882 |
| 22 | 110°55.7' | 3216 | 8°06.4' | 2842 | 20°17.5' | 2904 | 26°26.1' | 3043 | 71°51.7' | 2885 |
| 23 | 111°24.3' | 3220 | 7°35.2' | 2846 | 20°48.3' | 2907 | 26°55.9' | 3040 | 72°22.5' | 2889 |

Sun Sep 8, 2019 UTC

| UTC | +Sun | | -Saturn | | +Jupiter | | +Antares | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 111°52.9' | 3225 | 7°04.0' | 2850 | 21°19.0' | 2909 | 27°25.7' | 3037 | 72°53.4' | 2892 |
| 1 | 112°21.5' | 3229 | 6°32.9' | 2854 | 21°49.7' | 2912 | 27°55.5' | 3035 | 73°24.2' | 2896 |
| 2 | 112°50.0' | 3233 | 6°01.8' | 2858 | 22°20.4' | 2915 | 28°25.3' | 3033 | 73°55.0' | 2900 |
| 3 | 113°18.5' | 3237 | 5°30.7' | 2861 | 22°51.1' | 2918 | 28°55.2' | 3031 | 74°25.8' | 2903 |
| 4 | 113°47.0' | 3241 | 4°59.7' | 2865 | 23°21.7' | 2921 | 29°25.1' | 3030 | 74°56.5' | 2907 |
| 5 | 114°15.4' | 3245 | 4°28.7' | 2869 | 23°52.3' | 2923 | 29°54.9' | 3028 | 75°27.3' | 2910 |
| 6 | 114°43.8' | 3249 | 3°57.7' | 2872 | 24°22.9' | 2926 | 30°24.8' | 3027 | 75°58.0' | 2913 |
| 7 | 115°12.2' | 3253 | 3°26.7' | 2876 | 24°53.5' | 2929 | 30°54.7' | 3026 | 76°28.6' | 2917 |
| 8 | 115°40.6' | 3257 | 2°55.8' | 2880 | 25°24.1' | 2932 | 31°24.6' | 3026 | 76°59.3' | 2920 |
| 9 | 116°08.9' | 3261 | 2°24.8' | 2884 | 25°54.6' | 2935 | 31°54.5' | 3025 | 77°29.9' | 2923 |
| 10 | 116°37.2' | 3265 | 1°54.0' | 2888 | 26°25.2' | 2938 | 32°24.4' | 3025 | 78°00.5' | 2927 |
| 11 | 117°05.5' | 3269 | 1°23.1' | 2893 | 26°55.7' | 2941 | 32°54.3' | 3024 | 78°31.1' | 2930 |
| 12 | 117°33.8' | 3273 | 52.3' | 2904 | 27°26.1' | 2944 | 33°24.2' | 3024 | 79°01.7' | 2933 |
| 13 | 118°02.0' | 3277 | – | – | 27°56.6' | 2946 | 33°54.1' | 3024 | 79°32.2' | 2936 |
| 14 | 118°30.2' | 3280 | – | – | 28°27.1' | 2949 | 34°24.0' | 3024 | 80°02.7' | 2940 |
| 15 | 118°58.4' | 3284 | 40.3' | 2907 | 28°57.5' | 2952 | 34°53.9' | 3025 | 80°33.2' | 2943 |
| 16 | 119°26.6' | 3288 | 1°11.0' | 2908 | 29°27.9' | 2955 | 35°23.8' | 3025 | 81°03.7' | 2946 |
| 17 | 119°54.7' | 3291 | 1°41.7' | 2910 | 29°58.3' | 2958 | 35°53.7' | 3025 | 81°34.1' | 2949 |
| 18 | 120°22.9' | 3295 | 2°12.4' | 2913 | 30°28.6' | 2960 | 36°23.6' | 3026 | 82°04.6' | 2952 |
| 19 | 120°51.0' | 3299 | 2°43.1' | 2916 | 30°59.0' | 2963 | 36°53.5' | 3026 | 82°35.0' | 2955 |
| 20 | 121°19.0' | 3302 | 3°13.7' | 2919 | 31°29.3' | 2966 | 37°23.4' | 3027 | 83°05.3' | 2958 |
| 21 | 121°47.1' | 3306 | 3°44.4' | 2922 | 31°59.6' | 2969 | 37°53.2' | 3028 | 83°35.7' | 2961 |
| 22 | 122°15.1' | 3309 | 4°15.0' | 2925 | 32°29.9' | 2971 | 38°23.1' | 3028 | 84°06.0' | 2964 |
| 23 | 122°43.1' | 3313 | 4°45.6' | 2928 | 33°00.2' | 2974 | 38°53.0' | 3029 | 84°36.4' | 2967 |

Mon Sep 9, 2019 UTC

| UTC | +Saturn | | +Jupiter | | +Antares | | -Formalhaut | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 5°16.1' | 2931 | 33°30.4' | 2977 | 39°22.9' | 3030 | 48°31.2' | 3311 | 85°06.7' | 2970 |
| 1 | 5°46.7' | 2934 | 34°00.7' | 2980 | 39°52.7' | 3031 | 48°03.3' | 3320 | 85°37.0' | 2972 |
| 2 | 6°17.2' | 2936 | 34°30.9' | 2982 | 40°22.6' | 3032 | 47°35.3' | 3329 | 86°07.2' | 2975 |
| 3 | 6°47.8' | 2939 | 35°01.1' | 2985 | 40°52.4' | 3033 | 47°07.4' | 3339 | 86°37.5' | 2978 |
| 4 | 7°18.2' | 2942 | 35°31.2' | 2987 | 41°22.3' | 3034 | 46°39.6' | 3348 | 87°07.7' | 2981 |
| 5 | 7°48.7' | 2945 | 36°01.4' | 2990 | 41°52.1' | 3035 | 46°11.9' | 3358 | 87°37.9' | 2983 |
| 6 | 8°19.2' | 2948 | 36°31.5' | 2992 | 42°21.9' | 3036 | 45°44.2' | 3367 | 88°08.1' | 2986 |
| 7 | 8°49.6' | 2950 | 37°01.7' | 2995 | 42°51.8' | 3037 | 45°16.6' | 3378 | 88°38.2' | 2989 |
| 8 | 9°20.0' | 2953 | 37°31.8' | 2997 | 43°21.6' | 3038 | 44°49.0' | 3388 | 89°08.4' | 2991 |
| 9 | 9°50.4' | 2955 | 38°01.9' | 3000 | 43°51.4' | 3039 | 44°21.5' | 3398 | 89°38.5' | 2994 |
| 10 | 10°20.8' | 2958 | 38°31.9' | 3002 | 44°21.2' | 3040 | 43°54.0' | 3409 | 90°08.6' | 2996 |
| 11 | 10°51.2' | 2961 | 39°02.0' | 3005 | 44°51.0' | 3042 | 43°26.7' | 3420 | 90°38.7' | 2999 |
| 12 | 11°21.5' | 2963 | 39°32.0' | 3007 | 45°20.8' | 3043 | 42°59.4' | 3431 | 91°08.8' | 3001 |
| 13 | 11°51.8' | 2966 | 40°02.1' | 3009 | 45°50.5' | 3044 | 42°32.1' | 3442 | 91°38.9' | 3004 |
| 14 | 12°22.2' | 2968 | 40°32.1' | 3012 | 46°20.3' | 3045 | 42°05.0' | 3454 | 92°08.9' | 3006 |
| 15 | 12°52.5' | 2970 | 41°02.1' | 3014 | 46°50.1' | 3046 | 41°37.9' | 3466 | 92°38.9' | 3009 |
| 16 | 13°22.7' | 2973 | 41°32.0' | 3016 | 47°19.8' | 3047 | 41°10.9' | 3479 | 93°09.0' | 3011 |
| 17 | 13°53.0' | 2975 | 42°02.0' | 3018 | 47°49.6' | 3049 | 40°44.0' | 3491 | 93°38.9' | 3013 |
| 18 | 14°23.2' | 2977 | 42°31.9' | 3021 | 48°19.3' | 3050 | 40°17.1' | 3504 | 94°08.9' | 3016 |
| 19 | 14°53.5' | 2980 | 43°01.9' | 3023 | 48°49.0' | 3051 | 39°50.3' | 3518 | 94°38.9' | 3018 |
| 20 | 15°23.7' | 2982 | 43°31.8' | 3025 | 49°18.8' | 3052 | 39°23.6' | 3531 | 95°08.8' | 3020 |
| 21 | 15°53.9' | 2984 | 44°01.7' | 3027 | 49°48.5' | 3053 | 38°57.0' | 3546 | 95°38.8' | 3023 |
| 22 | 16°24.1' | 2986 | 44°31.6' | 3029 | 50°18.2' | 3055 | 38°30.5' | 3560 | 96°08.7' | 3025 |
| 23 | 16°54.2' | 2988 | 45°01.4' | 3031 | 50°47.9' | 3056 | 38°04.1' | 3575 | 96°38.6' | 3027 |

Tue Sep 10, 2019 UTC

| UTC | +Saturn | | +Jupiter | | +Antares | | -Formalhaut | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 17°24.4' | 2990 | 45°31.3' | 3033 | 51°17.6' | 3057 | 37°37.7' | 3591 | 97°08.5' | 3029 |
| 1 | 17°54.5' | 2992 | 46°01.1' | 3035 | 51°47.2' | 3058 | 37°11.5' | 3607 | 97°38.3' | 3031 |
| 2 | 18°24.6' | 2995 | 46°31.0' | 3037 | 52°16.9' | 3059 | 36°45.3' | 3623 | 98°08.2' | 3033 |
| 3 | 18°54.7' | 2997 | 47°00.8' | 3039 | 52°46.6' | 3061 | 36°19.3' | 3640 | 98°38.0' | 3035 |
| 4 | 19°24.8' | 2998 | 47°30.6' | 3041 | 53°16.2' | 3062 | 35°53.3' | 3658 | 99°07.9' | 3037 |
| 5 | 19°54.9' | 3000 | 48°00.4' | 3043 | 53°45.9' | 3063 | 35°27.5' | 3676 | 99°37.7' | 3039 |
| 6 | 20°25.0' | 3002 | 48°30.1' | 3045 | 54°15.5' | 3064 | 35°01.8' | 3695 | 100°07.5' | 3041 |
| 7 | 20°55.0' | 3004 | 48°59.9' | 3046 | 54°45.1' | 3065 | 34°36.1' | 3715 | 100°37.3' | 3043 |
| 8 | 21°25.1' | 3006 | 49°29.7' | 3048 | 55°14.8' | 3066 | 34°10.6' | 3735 | 101°07.0' | 3045 |
| 9 | 21°55.1' | 3008 | 49°59.4' | 3050 | 55°44.4' | 3067 | 33°45.2' | 3756 | 101°36.8' | 3047 |
| 10 | 22°25.1' | 3010 | 50°29.1' | 3052 | 56°14.0' | 3069 | 33°20.0' | 3778 | 102°06.5' | 3049 |
| 11 | 22°55.1' | 3011 | 50°58.8' | 3053 | 56°43.6' | 3070 | 32°54.8' | 3801 | 102°36.3' | 3051 |
| 12 | 23°25.1' | 3013 | 51°28.5' | 3055 | 57°13.2' | 3071 | 32°29.8' | 3825 | 103°06.0' | 3053 |
| 13 | 23°55.1' | 3015 | 51°58.2' | 3057 | 57°42.8' | 3072 | 32°05.0' | 3849 | 103°35.7' | 3055 |
| 14 | 24°25.1' | 3016 | 52°27.9' | 3058 | 58°12.3' | 3073 | 31°40.2' | 3875 | 104°05.4' | 3056 |
| 15 | 24°55.0' | 3018 | 52°57.6' | 3060 | 58°41.9' | 3074 | 31°15.7' | 3901 | 104°35.1' | 3058 |
| 16 | 25°25.0' | 3020 | 53°27.3' | 3061 | 59°11.5' | 3075 | 30°51.2' | 3929 | 105°04.8' | 3060 |
| 17 | 25°54.9' | 3021 | 53°56.9' | 3063 | 59°41.0' | 3076 | 30°26.9' | 3958 | 105°34.4' | 3062 |
| 18 | 26°24.8' | 3023 | 54°26.5' | 3064 | 60°10.6' | 3077 | 30°02.8' | 3988 | 106°04.1' | 3063 |
| 19 | 26°54.8' | 3024 | 54°56.2' | 3066 | 60°40.1' | 3078 | 29°38.9' | 4020 | 106°33.7' | 3065 |
| 20 | 27°24.7' | 3026 | 55°25.8' | 3067 | 61°09.7' | 3079 | 29°15.1' | 4053 | 107°03.3' | 3066 |
| 21 | 27°54.6' | 3027 | 55°55.4' | 3069 | 61°39.2' | 3080 | 28°51.5' | 4087 | 107°32.9' | 3068 |
| 22 | 28°24.4' | 3029 | 56°25.0' | 3070 | 62°08.7' | 3081 | 28°28.1' | 4124 | 108°02.5' | 3070 |
| 23 | 28°54.3' | 3030 | 56°54.6' | 3071 | 62°38.2' | 3082 | 28°04.9' | 4161 | 108°32.1' | 3071 |

Wed Sep 11, 2019 UTC

| UTC | +Saturn | | +Jupiter | | +Antares | | -Formalhaut | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 29°24.2' | 3031 | 57°24.2' | 3073 | 63°07.7' | 3083 | 27°41.9' | 4201 | 109°01.7' | 3073 |
| 1 | 29°54.0' | 3033 | 57°53.7' | 3074 | 63°37.2' | 3084 | 27°19.0' | 4243 | 109°31.3' | 3074 |
| 2 | 30°23.9' | 3034 | 58°23.3' | 3075 | 64°06.7' | 3084 | 26°56.5' | 4287 | 110°00.8' | 3076 |
| 3 | 30°53.7' | 3035 | 58°52.9' | 3077 | 64°36.2' | 3085 | 26°34.1' | 4333 | 110°30.4' | 3077 |
| 4 | 31°23.6' | 3036 | 59°22.4' | 3078 | 65°05.7' | 3086 | 26°12.0' | 4381 | 110°59.9' | 3079 |
| 5 | 31°53.4' | 3038 | 59°51.9' | 3079 | 65°35.2' | 3087 | 25°50.1' | 4432 | 111°29.5' | 3080 |
| 6 | 32°23.2' | 3039 | 60°21.5' | 3080 | 66°04.7' | 3088 | 25°28.5' | 4486 | 111°59.0' | 3082 |
| 7 | 32°53.0' | 3040 | 60°51.0' | 3081 | 66°34.1' | 3089 | 25°07.1' | 4542 | 112°28.5' | 3083 |
| 8 | 33°22.8' | 3041 | 61°20.5' | 3082 | 67°03.6' | 3089 | 24°46.0' | 4602 | 112°58.0' | 3085 |
| 9 | 33°52.6' | 3042 | 61°50.0' | 3084 | 67°33.1' | 3090 | 24°25.2' | 4665 | 113°27.5' | 3086 |
| 10 | 34°22.3' | 3043 | 62°19.5' | 3085 | 68°02.5' | 3091 | 24°04.7' | 4731 | 113°57.0' | 3087 |
| 11 | 34°52.1' | 3044 | 62°49.0' | 3086 | 68°32.0' | 3092 | 23°44.5' | 4802 | 114°26.4' | 3089 |
| 12 | 35°21.9' | 3045 | 63°18.5' | 3087 | 69°01.4' | 3092 | 23°24.7' | 4876 | 114°55.9' | 3090 |
| 13 | 35°51.6' | 3046 | 63°48.0' | 3088 | 69°30.8' | 3093 | 23°05.2' | 4956 | 115°25.4' | 3091 |
| 14 | 36°21.4' | 3047 | 64°17.4' | 3089 | 70°00.3' | 3094 | 22°46.0' | 5040 | 115°54.8' | 3093 |
| 15 | 36°51.1' | 3048 | 64°46.9' | 3090 | 70°29.7' | 3094 | 22°27.2' | 5129 | 116°24.2' | 3094 |
| 16 | 37°20.9' | 3049 | 65°16.3' | 3091 | 70°59.1' | 3095 | 22°08.8' | 5223 | 116°53.7' | 3095 |
| 17 | 37°50.6' | 3050 | 65°45.8' | 3091 | 71°28.6' | 3096 | 21°50.8' | 5324 | 117°23.1' | 3096 |
| 18 | 38°20.3' | 3051 | 66°15.2' | 3092 | 71°58.0' | 3096 | 21°33.1' | 5432 | 117°52.5' | 3098 |
| 19 | 38°50.1' | 3052 | 66°44.7' | 3093 | 72°27.4' | 3097 | 21°16.0' | 5546 | 118°21.9' | 3099 |
| 20 | 39°19.8' | 3053 | 67°14.1' | 3094 | 72°56.8' | 3097 | 20°59.2' | 5669 | 118°51.3' | 3100 |
| 21 | 39°49.5' | 3054 | 67°43.5' | 3095 | 73°26.2' | 3098 | 20°43.0' | 5800 | 119°20.7' | 3101 |
| 22 | 40°19.2' | 3054 | 68°13.0' | 3096 | 73°55.6' | 3099 | 20°27.2' | 5940 | 119°50.1' | 3102 |
| 23 | 40°48.9' | 3055 | 68°42.4' | 3096 | 74°25.0' | 3099 | 20°11.9' | 6091 | 120°19.4' | 3104 |

Thu Sep 12, 2019 UTC

| UTC | +Saturn | | +Jupiter | | +Antares | | -Aldebaran | | -Rigel | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 41°18.6' | 3056 | 69°11.8' | 3097 | 74°54.4' | 3100 | 104°31.2' | 3064 | 106°54.4' | 3683 |
| 1 | 41°48.3' | 3057 | 69°41.2' | 3098 | 75°23.8' | 3100 | 104°01.6' | 3065 | 106°28.7' | 3681 |
| 2 | 42°17.9' | 3057 | 70°10.6' | 3098 | 75°53.2' | 3101 | 103°32.0' | 3065 | 106°03.0' | 3678 |
| 3 | 42°47.6' | 3058 | 70°40.0' | 3099 | 76°22.5' | 3101 | 103°02.4' | 3066 | 105°37.3' | 3676 |
| 4 | 43°17.3' | 3059 | 71°09.4' | 3100 | 76°51.9' | 3102 | 102°32.7' | 3067 | 105°11.6' | 3674 |
| 5 | 43°47.0' | 3059 | 71°38.8' | 3100 | 77°21.3' | 3102 | 102°03.1' | 3067 | 104°45.8' | 3672 |
| 6 | 44°16.6' | 3060 | 72°08.2' | 3101 | 77°50.7' | 3102 | 101°33.5' | 3068 | 104°20.0' | 3669 |
| 7 | 44°46.3' | 3060 | 72°37.5' | 3101 | 78°20.0' | 3103 | 101°03.9' | 3068 | 103°54.3' | 3667 |
| 8 | 45°15.9' | 3061 | 73°06.9' | 3102 | 78°49.4' | 3103 | 100°34.3' | 3069 | 103°28.5' | 3665 |
| 9 | 45°45.6' | 3061 | 73°36.3' | 3103 | 79°18.8' | 3104 | 100°04.7' | 3069 | 103°02.7' | 3664 |
| 10 | 46°15.2' | 3062 | 74°05.7' | 3103 | 79°48.1' | 3104 | 99°35.1' | 3070 | 102°36.9' | 3662 |
| 11 | 46°44.9' | 3062 | 74°35.0' | 3104 | 80°17.5' | 3104 | 99°05.5' | 3070 | 102°11.1' | 3660 |
| 12 | 47°14.5' | 3063 | 75°04.4' | 3104 | 80°46.9' | 3105 | 98°35.9' | 3071 | 101°45.2' | 3658 |
| 13 | 47°44.2' | 3063 | 75°33.8' | 3104 | 81°16.2' | 3105 | 98°06.3' | 3071 | 101°19.4' | 3657 |
| 14 | 48°13.8' | 3064 | 76°03.1' | 3105 | 81°45.6' | 3105 | 97°36.8' | 3071 | 100°53.5' | 3655 |
| 15 | 48°43.4' | 3064 | 76°32.5' | 3105 | 82°14.9' | 3105 | 97°07.2' | 3072 | 100°27.7' | 3654 |
| 16 | 49°13.1' | 3064 | 77°01.8' | 3106 | 82°44.3' | 3106 | 96°37.6' | 3072 | 100°01.8' | 3652 |
| 17 | 49°42.7' | 3065 | 77°31.2' | 3106 | 83°13.6' | 3106 | 96°08.0' | 3072 | 99°35.9' | 3651 |
| 18 | 50°12.3' | 3065 | 78°00.5' | 3106 | 83°43.0' | 3106 | 95°38.4' | 3073 | 99°10.0' | 3650 |
| 19 | 50°41.9' | 3065 | 78°29.9' | 3107 | 84°12.3' | 3106 | 95°08.9' | 3073 | 98°44.1' | 3649 |
| 20 | 51°11.6' | 3066 | 78°59.2' | 3107 | 84°41.7' | 3107 | 94°39.3' | 3073 | 98°18.2' | 3647 |
| 21 | 51°41.2' | 3066 | 79°28.5' | 3107 | 85°11.0' | 3107 | 94°09.7' | 3073 | 97°52.3' | 3646 |
| 22 | 52°10.8' | 3066 | 79°57.9' | 3107 | 85°40.3' | 3107 | 93°40.2' | 3074 | 97°26.4' | 3645 |
| 23 | 52°40.4' | 3066 | 80°27.2' | 3108 | 86°09.7' | 3107 | 93°10.6' | 3074 | 97°00.5' | 3644 |

Fri Sep 13, 2019 UTC

| UTC | +Saturn | | +Jupiter | | +Antares | | -Aldebaran | | -Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 53°10.0' | 3067 | 80°56.5' | 3108 | 86°39.0' | 3107 | 92°41.0' | 3074 | 109°55.9' | 3230 |
| 1 | 53°39.7' | 3067 | 81°25.9' | 3108 | 87°08.4' | 3107 | 92°11.5' | 3074 | 109°27.4' | 3229 |
| 2 | 54°09.3' | 3067 | 81°55.2' | 3108 | 87°37.7' | 3107 | 91°41.9' | 3074 | 108°58.8' | 3228 |
| 3 | 54°38.9' | 3067 | 82°24.5' | 3108 | 88°07.0' | 3107 | 91°12.3' | 3074 | 108°30.3' | 3227 |
| 4 | 55°08.5' | 3067 | 82°53.9' | 3108 | 88°36.4' | 3108 | 90°42.8' | 3075 | 108°01.8' | 3226 |
| 5 | 55°38.1' | 3067 | 83°23.2' | 3109 | 89°05.7' | 3108 | 90°13.2' | 3075 | 107°33.2' | 3226 |
| 6 | 56°07.7' | 3067 | 83°52.5' | 3109 | 89°35.0' | 3108 | 89°43.7' | 3075 | 107°04.7' | 3225 |
| 7 | 56°37.3' | 3068 | 84°21.9' | 3109 | 90°04.4' | 3108 | 89°14.1' | 3075 | 106°36.1' | 3224 |
| 8 | 57°06.9' | 3068 | 84°51.2' | 3109 | 90°33.7' | 3108 | 88°44.6' | 3075 | 106°07.6' | 3224 |
| 9 | 57°36.5' | 3068 | 85°20.5' | 3109 | 91°03.0' | 3108 | 88°15.0' | 3075 | 105°39.0' | 3223 |
| 10 | 58°06.1' | 3068 | 85°49.8' | 3109 | 91°32.4' | 3108 | 87°45.4' | 3075 | 105°10.4' | 3222 |
| 11 | 58°35.7' | 3068 | 86°19.2' | 3109 | 92°01.7' | 3108 | 87°15.9' | 3075 | 104°41.9' | 3221 |
| 12 | 59°05.3' | 3068 | 86°48.5' | 3109 | 92°31.0' | 3108 | 86°46.3' | 3075 | 104°13.3' | 3221 |
| 13 | 59°35.0' | 3068 | 87°17.8' | 3109 | 93°00.4' | 3108 | 86°16.8' | 3075 | 103°44.7' | 3220 |
| 14 | 60°04.6' | 3067 | 87°47.1' | 3109 | 93°29.7' | 3108 | 85°47.2' | 3074 | 103°16.1' | 3219 |
| 15 | 60°34.2' | 3067 | 88°16.5' | 3109 | 93°59.1' | 3107 | 85°17.6' | 3074 | 102°47.5' | 3219 |
| 16 | 61°03.8' | 3067 | 88°45.8' | 3109 | 94°28.4' | 3107 | 84°48.1' | 3074 | 102°18.9' | 3218 |
| 17 | 61°33.4' | 3067 | 89°15.1' | 3108 | 94°57.7' | 3107 | 84°18.5' | 3074 | 101°50.3' | 3217 |
| 18 | 62°03.0' | 3067 | 89°44.5' | 3108 | 95°27.1' | 3107 | 83°49.0' | 3074 | 101°21.7' | 3217 |
| 19 | 62°32.6' | 3067 | 90°13.8' | 3108 | 95°56.4' | 3107 | 83°19.4' | 3074 | 100°53.1' | 3216 |
| 20 | 63°02.2' | 3067 | 90°43.1' | 3108 | 96°25.7' | 3107 | 82°49.8' | 3074 | 100°24.5' | 3215 |
| 21 | 63°31.8' | 3066 | 91°12.5' | 3108 | 96°55.1' | 3107 | 82°20.3' | 3073 | 99°55.9' | 3215 |
| 22 | 64°01.4' | 3066 | 91°41.8' | 3108 | 97°24.4' | 3107 | 81°50.7' | 3073 | 99°27.3' | 3214 |
| 23 | 64°31.1' | 3066 | 92°11.1' | 3107 | 97°53.8' | 3106 | 81°21.1' | 3073 | 98°58.7' | 3213 |

Sat Sep 14, 2019 UTC

| UTC | +Saturn | | -Aldebaran | | +Jupiter | | +Antares | | -Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 65°00.7' | 3066 | 80°51.6' | 3073 | 92°40.5' | 3107 | 98°23.1' | 3106 | 98°30.0' | 3213 |
| 1 | 65°30.3' | 3065 | 80°22.0' | 3072 | 93°09.8' | 3107 | 98°52.5' | 3106 | 98°01.4' | 3212 |
| 2 | 65°59.9' | 3065 | 79°52.4' | 3072 | 93°39.1' | 3107 | 99°21.8' | 3106 | 97°32.8' | 3211 |
| 3 | 66°29.5' | 3065 | 79°22.8' | 3072 | 94°08.5' | 3106 | 99°51.2' | 3105 | 97°04.1' | 3211 |
| 4 | 66°59.2' | 3064 | 78°53.3' | 3071 | 94°37.8' | 3106 | 100°20.5' | 3105 | 96°35.5' | 3210 |
| 5 | 67°28.8' | 3064 | 78°23.7' | 3071 | 95°07.2' | 3106 | 100°49.9' | 3105 | 96°06.8' | 3210 |
| 6 | 67°58.4' | 3064 | 77°54.1' | 3071 | 95°36.5' | 3105 | 101°19.2' | 3105 | 95°38.2' | 3209 |
| 7 | 68°28.1' | 3063 | 77°24.5' | 3070 | 96°05.9' | 3105 | 101°48.6' | 3104 | 95°09.5' | 3208 |
| 8 | 68°57.7' | 3063 | 76°54.9' | 3070 | 96°35.2' | 3104 | 102°17.9' | 3104 | 94°40.8' | 3208 |
| 9 | 69°27.3' | 3063 | 76°25.3' | 3069 | 97°04.6' | 3104 | 102°47.3' | 3104 | 94°12.2' | 3207 |
| 10 | 69°57.0' | 3062 | 75°55.7' | 3069 | 97°33.9' | 3104 | 103°16.6' | 3104 | 93°43.5' | 3206 |
| 11 | 70°26.6' | 3062 | 75°26.1' | 3068 | 98°03.3' | 3103 | 103°46.0' | 3103 | 93°14.8' | 3206 |
| 12 | 70°56.3' | 3061 | 74°56.5' | 3068 | 98°32.7' | 3103 | 104°15.4' | 3103 | 92°46.1' | 3205 |
| 13 | 71°25.9' | 3061 | 74°26.9' | 3068 | 99°02.0' | 3102 | 104°44.7' | 3103 | 92°17.5' | 3205 |
| 14 | 71°55.6' | 3060 | 73°57.3' | 3067 | 99°31.4' | 3102 | 105°14.1' | 3102 | 91°48.8' | 3204 |
| 15 | 72°25.2' | 3060 | 73°27.7' | 3066 | 100°00.8' | 3101 | 105°43.5' | 3102 | 91°20.1' | 3203 |
| 16 | 72°54.9' | 3059 | 72°58.1' | 3066 | 100°30.2' | 3101 | 106°12.9' | 3101 | 90°51.4' | 3203 |
| 17 | 73°24.6' | 3058 | 72°28.5' | 3065 | 100°59.6' | 3100 | 106°42.2' | 3101 | 90°22.7' | 3202 |
| 18 | 73°54.2' | 3058 | 71°58.9' | 3065 | 101°28.9' | 3100 | 107°11.6' | 3101 | 89°54.0' | 3202 |
| 19 | 74°23.9' | 3057 | 71°29.2' | 3064 | 101°58.3' | 3099 | 107°41.0' | 3100 | 89°25.3' | 3201 |
| 20 | 74°53.6' | 3057 | 70°59.6' | 3064 | 102°27.7' | 3098 | 108°10.4' | 3100 | 88°56.6' | 3200 |
| 21 | 75°23.3' | 3056 | 70°30.0' | 3063 | 102°57.1' | 3098 | 108°39.8' | 3099 | 88°27.9' | 3200 |
| 22 | 75°52.9' | 3055 | 70°00.3' | 3062 | 103°26.5' | 3097 | 109°09.2' | 3099 | 87°59.1' | 3199 |
| 23 | 76°22.6' | 3055 | 69°30.7' | 3062 | 103°55.9' | 3096 | 109°38.6' | 3098 | 87°30.4' | 3199 |

Sun Sep 15, 2019 UTC

| UTC | −Aldebaran | | +Saturn | | +Formalhaut | | −Betelgeuse | | +Jupiter | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 69°01.0′ | 3061 | 76°52.3′ | 3054 | 30°29.5′ | 3958 | 87°01.7′ | 3198 | 104°25.3′ | 3096 |
| 1 | 68°31.4′ | 3060 | 77°22.0′ | 3053 | 30°53.6′ | 3931 | 86°33.0′ | 3198 | 104°54.8′ | 3095 |
| 2 | 68°01.7′ | 3059 | 77°51.7′ | 3052 | 31°17.9′ | 3906 | 86°04.2′ | 3197 | 105°24.2′ | 3094 |
| 3 | 67°32.1′ | 3059 | 78°21.4′ | 3052 | 31°42.3′ | 3881 | 85°35.5′ | 3196 | 105°53.6′ | 3094 |
| 4 | 67°02.4′ | 3058 | 78°51.2′ | 3051 | 32°06.9′ | 3858 | 85°06.7′ | 3196 | 106°23.0′ | 3093 |
| 5 | 66°32.7′ | 3057 | 79°20.9′ | 3050 | 32°31.5′ | 3835 | 84°38.0′ | 3195 | 106°52.5′ | 3092 |
| 6 | 66°03.0′ | 3056 | 79°50.6′ | 3049 | 32°56.4′ | 3814 | 84°09.3′ | 3195 | 107°21.9′ | 3091 |
| 7 | 65°33.4′ | 3056 | 80°20.3′ | 3049 | 33°21.3′ | 3793 | 83°40.5′ | 3194 | 107°51.4′ | 3090 |
| 8 | 65°03.7′ | 3055 | 80°50.1′ | 3048 | 33°46.3′ | 3773 | 83°11.7′ | 3194 | 108°20.8′ | 3090 |
| 9 | 64°34.0′ | 3054 | 81°19.8′ | 3047 | 34°11.5′ | 3754 | 82°43.0′ | 3193 | 108°50.3′ | 3089 |
| 10 | 64°04.3′ | 3053 | 81°49.6′ | 3046 | 34°36.8′ | 3735 | 82°14.2′ | 3192 | 109°19.7′ | 3088 |
| 11 | 63°34.6′ | 3052 | 82°19.3′ | 3045 | 35°02.2′ | 3718 | 81°45.5′ | 3192 | 109°49.2′ | 3087 |
| 12 | 63°04.9′ | 3051 | 82°49.1′ | 3044 | 35°27.7′ | 3700 | 81°16.7′ | 3191 | 110°18.7′ | 3086 |
| 13 | 62°35.1′ | 3050 | 83°18.9′ | 3043 | 35°53.3′ | 3684 | 80°47.9′ | 3191 | 110°48.2′ | 3085 |
| 14 | 62°05.4′ | 3049 | 83°48.6′ | 3042 | 36°19.0′ | 3668 | 80°19.1′ | 3190 | 111°17.6′ | 3084 |
| 15 | 61°35.7′ | 3048 | 84°18.4′ | 3041 | 36°44.7′ | 3652 | 79°50.3′ | 3190 | 111°47.1′ | 3083 |
| 16 | 61°05.9′ | 3047 | 84°48.2′ | 3040 | 37°10.6′ | 3638 | 79°21.6′ | 3189 | 112°16.6′ | 3082 |
| 17 | 60°36.2′ | 3046 | 85°18.0′ | 3039 | 37°36.6′ | 3623 | 78°52.8′ | 3189 | 112°46.1′ | 3081 |
| 18 | 60°06.4′ | 3045 | 85°47.8′ | 3038 | 38°02.6′ | 3609 | 78°24.0′ | 3188 | 113°15.7′ | 3080 |
| 19 | 59°36.7′ | 3044 | 86°17.6′ | 3037 | 38°28.8′ | 3596 | 77°55.2′ | 3188 | 113°45.2′ | 3079 |
| 20 | 59°06.9′ | 3043 | 86°47.4′ | 3036 | 38°55.0′ | 3583 | 77°26.4′ | 3187 | 114°14.7′ | 3078 |
| 21 | 58°37.1′ | 3042 | 87°17.2′ | 3035 | 39°21.3′ | 3570 | 76°57.6′ | 3187 | 114°44.2′ | 3077 |
| 22 | 58°07.4′ | 3041 | 87°47.1′ | 3034 | 39°47.6′ | 3558 | 76°28.8′ | 3186 | 115°13.8′ | 3076 |
| 23 | 57°37.6′ | 3040 | 88°16.9′ | 3033 | 40°14.1′ | 3546 | 75°60.0′ | 3185 | 115°43.3′ | 3075 |

Mon Sep 16, 2019 UTC

| UTC | −Aldebaran | | +Formalhaut | | −Betelgeuse | | +Saturn | | −Pollux | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 57°07.8′ | 3039 | 40°40.6′ | 3535 | 75°31.1′ | 3185 | 88°46.8′ | 3031 | 101°17.4′ | 3057 |
| 1 | 56°38.0′ | 3038 | 41°07.2′ | 3523 | 75°02.3′ | 3185 | 89°16.6′ | 3030 | 100°47.7′ | 3056 |
| 2 | 56°08.2′ | 3037 | 41°33.9′ | 3513 | 74°33.5′ | 3184 | 89°46.5′ | 3029 | 100°18.0′ | 3054 |
| 3 | 55°38.4′ | 3035 | 42°00.6′ | 3502 | 74°04.7′ | 3184 | 90°16.3′ | 3028 | 99°48.3′ | 3053 |
| 4 | 55°08.5′ | 3034 | 42°27.4′ | 3492 | 73°35.9′ | 3183 | 90°46.2′ | 3026 | 99°18.6′ | 3052 |
| 5 | 54°38.7′ | 3033 | 42°54.2′ | 3482 | 73°07.0′ | 3183 | 91°16.1′ | 3025 | 98°48.9′ | 3050 |
| 6 | 54°08.8′ | 3032 | 43°21.1′ | 3472 | 72°38.2′ | 3182 | 91°46.0′ | 3024 | 98°19.2′ | 3049 |
| 7 | 53°39.0′ | 3031 | 43°48.1′ | 3463 | 72°09.4′ | 3182 | 92°15.9′ | 3023 | 97°49.5′ | 3047 |
| 8 | 53°09.1′ | 3029 | 44°15.1′ | 3454 | 71°40.5′ | 3181 | 92°45.8′ | 3021 | 97°19.7′ | 3046 |
| 9 | 52°39.3′ | 3028 | 44°42.2′ | 3445 | 71°11.7′ | 3181 | 93°15.8′ | 3020 | 96°50.0′ | 3044 |
| 10 | 52°09.4′ | 3027 | 45°09.4′ | 3436 | 70°42.8′ | 3180 | 93°45.7′ | 3018 | 96°20.2′ | 3043 |
| 11 | 51°39.5′ | 3025 | 45°36.6′ | 3427 | 70°14.0′ | 3180 | 94°15.6′ | 3017 | 95°50.4′ | 3042 |
| 12 | 51°09.6′ | 3024 | 46°03.8′ | 3419 | 69°45.1′ | 3180 | 94°45.6′ | 3016 | 95°20.6′ | 3040 |
| 13 | 50°39.7′ | 3023 | 46°31.1′ | 3411 | 69°16.3′ | 3179 | 95°15.6′ | 3014 | 94°50.8′ | 3039 |
| 14 | 50°09.8′ | 3021 | 46°58.5′ | 3403 | 68°47.4′ | 3179 | 95°45.5′ | 3013 | 94°21.0′ | 3037 |
| 15 | 49°39.9′ | 3020 | 47°25.9′ | 3395 | 68°18.6′ | 3179 | 96°15.5′ | 3011 | 93°51.2′ | 3035 |
| 16 | 49°09.9′ | 3018 | 47°53.3′ | 3388 | 67°49.7′ | 3178 | 96°45.5′ | 3010 | 93°21.4′ | 3034 |
| 17 | 48°40.0′ | 3017 | 48°20.8′ | 3380 | 67°20.8′ | 3178 | 97°15.5′ | 3008 | 92°51.5′ | 3032 |
| 18 | 48°10.0′ | 3015 | 48°48.4′ | 3373 | 66°52.0′ | 3178 | 97°45.5′ | 3007 | 92°21.7′ | 3031 |
| 19 | 47°40.1′ | 3014 | 49°16.0′ | 3366 | 66°23.1′ | 3177 | 98°15.6′ | 3005 | 91°51.8′ | 3029 |
| 20 | 47°10.1′ | 3013 | 49°43.6′ | 3359 | 65°54.2′ | 3177 | 98°45.6′ | 3003 | 91°22.0′ | 3027 |
| 21 | 46°40.1′ | 3011 | 50°11.3′ | 3352 | 65°25.4′ | 3177 | 99°15.6′ | 3002 | 90°52.1′ | 3026 |
| 22 | 46°10.1′ | 3009 | 50°39.0′ | 3346 | 64°56.5′ | 3176 | 99°45.7′ | 3000 | 90°22.2′ | 3024 |
| 23 | 45°40.1′ | 3008 | 51°06.8′ | 3339 | 64°27.6′ | 3176 | 100°15.8′ | 2998 | 89°52.3′ | 3022 |

Tue Sep 17, 2019 UTC

| UTC | −Aldebaran | | +Formalhaut | | −Betelgeuse | | −Pollux | | −Capella | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 45°10.1′ | 3006 | 51°34.6′ | 3333 | 63°58.8′ | 3176 | 89°22.4′ | 3021 | 62°34.4′ | 3545 |
| 1 | 44°40.1′ | 3005 | 52°02.5′ | 3326 | 63°29.9′ | 3176 | 88°52.4′ | 3019 | 62°07.9′ | 3548 |
| 2 | 44°10.0′ | 3003 | 52°30.4′ | 3320 | 63°01.0′ | 3176 | 88°22.5′ | 3017 | 61°41.4′ | 3552 |
| 3 | 43°40.0′ | 3001 | 52°58.3′ | 3314 | 62°32.1′ | 3176 | 87°52.5′ | 3015 | 61°14.9′ | 3555 |
| 4 | 43°09.9′ | 3000 | 53°26.3′ | 3308 | 62°03.2′ | 3175 | 87°22.6′ | 3013 | 60°48.5′ | 3559 |
| 5 | 42°39.8′ | 2998 | 53°54.3′ | 3302 | 61°34.4′ | 3175 | 86°52.6′ | 3012 | 60°22.0′ | 3563 |
| 6 | 42°09.8′ | 2996 | 54°22.3′ | 3296 | 61°05.5′ | 3175 | 86°22.6′ | 3010 | 59°55.6′ | 3567 |
| 7 | 41°39.7′ | 2995 | 54°50.4′ | 3290 | 60°36.6′ | 3175 | 85°52.6′ | 3008 | 59°29.2′ | 3571 |
| 8 | 41°09.5′ | 2993 | 55°18.6′ | 3285 | 60°07.7′ | 3175 | 85°22.6′ | 3006 | 59°02.9′ | 3575 |
| 9 | 40°39.4′ | 2991 | 55°46.7′ | 3279 | 59°38.8′ | 3175 | 84°52.6′ | 3004 | 58°36.5′ | 3580 |
| 10 | 40°09.3′ | 2990 | 56°14.9′ | 3274 | 59°10.0′ | 3176 | 84°22.5′ | 3002 | 58°10.2′ | 3584 |
| 11 | 39°39.2′ | 2988 | 56°43.2′ | 3268 | 58°41.1′ | 3176 | 83°52.5′ | 3000 | 57°43.9′ | 3589 |
| 12 | 39°09.0′ | 2986 | 57°11.4′ | 3263 | 58°12.2′ | 3176 | 83°22.4′ | 2998 | 57°17.7′ | 3594 |
| 13 | 38°38.8′ | 2984 | 57°39.7′ | 3258 | 57°43.3′ | 3176 | 82°52.3′ | 2996 | 56°51.4′ | 3599 |
| 14 | 38°08.7′ | 2982 | 58°08.1′ | 3252 | 57°14.4′ | 3176 | 82°22.2′ | 2994 | 56°25.2′ | 3604 |
| 15 | 37°38.5′ | 2981 | 58°36.4′ | 3247 | 56°45.6′ | 3177 | 81°52.1′ | 2992 | 55°59.1′ | 3610 |
| 16 | 37°08.3′ | 2979 | 59°04.8′ | 3242 | 56°16.7′ | 3177 | 81°22.0′ | 2990 | 55°32.9′ | 3616 |
| 17 | 36°38.0′ | 2977 | 59°33.3′ | 3237 | 55°47.8′ | 3177 | 80°51.8′ | 2988 | 55°06.8′ | 3621 |
| 18 | 36°07.8′ | 2975 | 60°01.8′ | 3232 | 55°19.0′ | 3178 | 80°21.7′ | 2986 | 54°40.8′ | 3628 |
| 19 | 35°37.6′ | 2973 | 60°30.3′ | 3227 | 54°50.1′ | 3178 | 79°51.5′ | 2984 | 54°14.8′ | 3634 |
| 20 | 35°07.3′ | 2971 | 60°58.8′ | 3222 | 54°21.2′ | 3179 | 79°21.3′ | 2981 | 53°48.8′ | 3640 |
| 21 | 34°37.0′ | 2969 | 61°27.4′ | 3218 | 53°52.4′ | 3179 | 78°51.1′ | 2979 | 53°22.8′ | 3647 |
| 22 | 34°06.7′ | 2967 | 61°56.0′ | 3213 | 53°23.5′ | 3180 | 78°20.9′ | 2977 | 52°56.9′ | 3654 |
| 23 | 33°36.4′ | 2965 | 62°24.6′ | 3208 | 52°54.7′ | 3181 | 77°50.7′ | 2975 | 52°31.0′ | 3661 |

Wed Sep 18, 2019 UTC

| UTC | −Aldebaran | | −Betelgeuse | | −Pollux | | +Formalhaut | | −Procyon | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 33°06.1′ | 2963 | 52°25.8′ | 3182 | 77°20.4′ | 2972 | 62°53.3′ | 3203 | 78°21.8′ | 3150 |
| 1 | 32°35.8′ | 2961 | 51°57.0′ | 3183 | 76°50.2′ | 2970 | 63°22.0′ | 3199 | 77°52.8′ | 3148 |
| 2 | 32°05.5′ | 2959 | 51°28.1′ | 3183 | 76°19.9′ | 2968 | 63°50.7′ | 3194 | 77°23.7′ | 3147 |
| 3 | 31°35.1′ | 2958 | 50°59.3′ | 3185 | 75°49.6′ | 2966 | 64°19.4′ | 3190 | 76°54.7′ | 3145 |
| 4 | 31°04.7′ | 2956 | 50°30.5′ | 3186 | 75°19.3′ | 2963 | 64°48.2′ | 3185 | 76°25.6′ | 3144 |
| 5 | 30°34.4′ | 2954 | 50°01.7′ | 3187 | 74°48.9′ | 2961 | 65°17.0′ | 3180 | 75°56.5′ | 3142 |
| 6 | 30°04.0′ | 2952 | 49°32.9′ | 3188 | 74°18.6′ | 2958 | 65°45.9′ | 3176 | 75°27.4′ | 3141 |
| 7 | 29°33.6′ | 2950 | 49°04.1′ | 3190 | 73°48.2′ | 2956 | 66°14.8′ | 3172 | 74°58.3′ | 3139 |
| 8 | 29°03.1′ | 2948 | 48°35.3′ | 3191 | 73°17.9′ | 2953 | 66°43.7′ | 3167 | 74°29.2′ | 3137 |
| 9 | 28°32.7′ | 2946 | 48°06.5′ | 3193 | 72°47.5′ | 2951 | 67°12.6′ | 3163 | 74°00.0′ | 3136 |
| 10 | 28°02.3′ | 2944 | 47°37.8′ | 3195 | 72°17.1′ | 2948 | 67°41.6′ | 3158 | 73°30.9′ | 3134 |
| 11 | 27°31.8′ | 2942 | 47°09.0′ | 3196 | 71°46.6′ | 2946 | 68°10.6′ | 3154 | 73°01.7′ | 3133 |
| 12 | 27°01.3′ | 2940 | 46°40.3′ | 3198 | 71°16.2′ | 2943 | 68°39.6′ | 3150 | 72°32.6′ | 3131 |
| 13 | 26°30.8′ | 2938 | 46°11.5′ | 3201 | 70°45.7′ | 2941 | 69°08.7′ | 3145 | 72°03.4′ | 3130 |
| 14 | 26°00.3′ | 2936 | 45°42.8′ | 3203 | 70°15.2′ | 2938 | 69°37.7′ | 3141 | 71°34.2′ | 3128 |
| 15 | 25°29.8′ | 2934 | 45°14.1′ | 3205 | 69°44.7′ | 2936 | 70°06.8′ | 3137 | 71°05.0′ | 3127 |
| 16 | 24°59.3′ | 2932 | 44°45.4′ | 3208 | 69°14.2′ | 2933 | 70°36.0′ | 3132 | 70°35.8′ | 3126 |
| 17 | 24°28.7′ | 2930 | 44°16.8′ | 3211 | 68°43.7′ | 2930 | 71°05.2′ | 3128 | 70°06.6′ | 3124 |
| 18 | 23°58.2′ | 2929 | 43°48.1′ | 3213 | 68°13.1′ | 2928 | 71°34.4′ | 3124 | 69°37.4′ | 3123 |
| 19 | 23°27.6′ | 2927 | 43°19.5′ | 3217 | 67°42.5′ | 2925 | 72°03.6′ | 3120 | 69°08.1′ | 3121 |
| 20 | 22°57.0′ | 2925 | 42°50.9′ | 3220 | 67°11.9′ | 2922 | 72°32.8′ | 3116 | 68°38.9′ | 3120 |
| 21 | 22°26.4′ | 2924 | 42°22.3′ | 3223 | 66°41.3′ | 2919 | 73°02.1′ | 3111 | 68°09.6′ | 3119 |
| 22 | 21°55.8′ | 2922 | 41°53.7′ | 3227 | 66°10.7′ | 2917 | 73°31.4′ | 3107 | 67°40.4′ | 3117 |
| 23 | 21°25.2′ | 2921 | 41°25.2′ | 3231 | 65°40.0′ | 2914 | 74°00.8′ | 3103 | 67°11.1′ | 3116 |

Thu Sep 19, 2019 UTC

| UTC | −Aldebaran | | −Betelgeuse | | −Pollux | | −Procyon | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 20°54.6′ | 2919 | 40°56.7′ | 3235 | 65°09.4′ | 2911 | 66°41.8′ | 3115 | 74°30.1′ | 3099 |
| 1 | 20°23.9′ | 2918 | 40°28.2′ | 3240 | 64°38.7′ | 2908 | 66°12.5′ | 3114 | 74°59.5′ | 3095 |
| 2 | 19°53.3′ | 2917 | 39°59.7′ | 3244 | 64°07.9′ | 2905 | 65°43.2′ | 3112 | 75°28.9′ | 3091 |
| 3 | 19°22.6′ | 2916 | 39°31.3′ | 3249 | 63°37.2′ | 2902 | 65°13.9′ | 3111 | 75°58.4′ | 3086 |
| 4 | 18°52.0′ | 2915 | 39°02.9′ | 3255 | 63°06.5′ | 2899 | 64°44.6′ | 3110 | 76°27.9′ | 3082 |
| 5 | 18°21.3′ | 2914 | 38°34.6′ | 3260 | 62°35.7′ | 2896 | 64°15.3′ | 3109 | 76°57.4′ | 3078 |
| 6 | 17°50.6′ | 2913 | 38°06.2′ | 3266 | 62°04.9′ | 2893 | 63°46.0′ | 3108 | 77°26.9′ | 3074 |
| 7 | 17°20.0′ | 2913 | 37°37.9′ | 3272 | 61°34.1′ | 2890 | 63°16.6′ | 3107 | 77°56.5′ | 3070 |
| 8 | 16°49.3′ | 2913 | 37°09.7′ | 3279 | 61°03.2′ | 2887 | 62°47.3′ | 3106 | 78°26.1′ | 3066 |
| 9 | 16°18.6′ | 2913 | 36°41.5′ | 3286 | 60°32.4′ | 2884 | 62°18.0′ | 3105 | 78°55.7′ | 3062 |
| 10 | 15°47.9′ | 2914 | 36°13.3′ | 3293 | 60°01.5′ | 2881 | 61°48.6′ | 3104 | 79°25.3′ | 3058 |
| 11 | 15°17.3′ | 2915 | 35°45.2′ | 3301 | 59°30.6′ | 2878 | 61°19.2′ | 3103 | 79°55.0′ | 3054 |
| 12 | 14°46.6′ | 2916 | 35°17.2′ | 3310 | 58°59.6′ | 2875 | 60°49.9′ | 3102 | 80°24.7′ | 3050 |
| 13 | 14°15.9′ | 2918 | 34°49.2′ | 3319 | 58°28.7′ | 2872 | 60°20.5′ | 3101 | 80°54.4′ | 3045 |
| 14 | 13°45.3′ | 2920 | 34°21.2′ | 3328 | 57°57.7′ | 2869 | 59°51.1′ | 3101 | 81°24.2′ | 3041 |
| 15 | 13°14.7′ | 2924 | 33°53.4′ | 3338 | 57°26.7′ | 2866 | 59°21.7′ | 3100 | 81°54.0′ | 3037 |
| 16 | 12°44.0′ | 2928 | 33°25.5′ | 3349 | 56°55.7′ | 2862 | 58°52.4′ | 3099 | 82°23.8′ | 3033 |
| 17 | 12°13.5′ | 2933 | 32°57.8′ | 3360 | 56°24.7′ | 2859 | 58°23.0′ | 3099 | 82°53.6′ | 3029 |
| 18 | 11°42.9′ | 2939 | 32°30.1′ | 3372 | 55°53.6′ | 2856 | 57°53.6′ | 3098 | 83°23.5′ | 3025 |
| 19 | 11°12.4′ | 2946 | 32°02.5′ | 3384 | 55°22.5′ | 2853 | 57°24.2′ | 3098 | 83°53.4′ | 3021 |
| 20 | 10°42.0′ | 2956 | 31°35.0′ | 3398 | 54°51.4′ | 2849 | 56°54.8′ | 3098 | 84°23.3′ | 3017 |
| 21 | 10°11.6′ | 2967 | 31°07.5′ | 3412 | 54°20.3′ | 2846 | 56°25.4′ | 3097 | 84°53.3′ | 3013 |
| 22 | 9°41.3′ | 2981 | 30°40.2′ | 3427 | 53°49.1′ | 2843 | 55°56.0′ | 3097 | 85°23.3′ | 3009 |
| 23 | 9°11.1′ | 2998 | 30°12.9′ | 3443 | 53°18.0′ | 2840 | 55°26.6′ | 3097 | 85°53.3′ | 3005 |

Fri Sep 20, 2019 UTC

| UTC | −Sun | | −Aldebaran | | −Pollux | | −Betelgeuse | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 115°06.5′ | 3170 | 8°41.0′ | 3019 | 52°46.8′ | 2836 | 29°45.8′ | 3460 | 86°23.3′ | 3001 |
| 1 | 114°37.5′ | 3165 | 8°11.1′ | 3045 | 52°15.5′ | 2833 | 29°18.7′ | 3478 | 86°53.4′ | 2997 |
| 2 | 114°08.6′ | 3161 | 7°41.3′ | 3077 | 51°44.3′ | 2830 | 28°51.8′ | 3498 | 87°23.5′ | 2993 |
| 3 | 113°39.6′ | 3157 | 7°11.8′ | 3118 | 51°13.0′ | 2826 | 28°25.0′ | 3518 | 87°53.6′ | 2988 |
| 4 | 113°10.6′ | 3152 | 6°42.5′ | 3170 | 50°41.7′ | 2823 | 27°58.3′ | 3540 | 88°23.8′ | 2984 |
| 5 | 112°41.6′ | 3148 | 6°13.6′ | 3237 | 50°10.4′ | 2819 | 27°31.7′ | 3564 | 88°53.9′ | 2980 |
| 6 | 112°12.5′ | 3143 | 5°45.1′ | 3325 | 49°39.0′ | 2816 | 27°05.3′ | 3588 | 89°24.1′ | 2976 |
| 7 | 111°43.4′ | 3139 | 5°17.2′ | 3443 | 49°07.7′ | 2813 | 26°39.1′ | 3615 | 89°54.4′ | 2972 |
| 8 | 111°14.3′ | 3134 | – | – | 48°36.3′ | 2809 | 26°13.0′ | 3643 | 90°24.6′ | 2968 |
| 9 | 110°45.1′ | 3130 | – | – | 48°04.8′ | 2806 | 25°47.0′ | 3674 | 90°54.9′ | 2964 |
| 10 | 110°16.0′ | 3125 | – | – | 47°33.4′ | 2802 | 25°21.3′ | 3706 | 91°25.3′ | 2960 |
| 11 | 109°46.7′ | 3121 | – | – | 47°01.9′ | 2799 | 24°55.7′ | 3740 | 91°55.6′ | 2956 |
| 12 | 109°17.5′ | 3116 | – | – | 46°30.4′ | 2795 | 24°30.4′ | 3777 | 92°26.0′ | 2952 |
| 13 | 108°48.2′ | 3111 | – | – | 45°58.9′ | 2792 | 24°05.2′ | 3817 | 92°56.4′ | 2948 |
| 14 | 108°18.9′ | 3107 | – | – | 45°27.4′ | 2789 | 23°40.3′ | 3860 | 93°26.8′ | 2944 |
| 15 | 107°49.6′ | 3102 | – | – | 44°55.8′ | 2785 | 23°15.6′ | 3905 | 93°57.3′ | 2940 |
| 16 | 107°20.2′ | 3097 | – | – | 44°24.2′ | 2782 | 22°51.2′ | 3954 | 94°27.8′ | 2936 |
| 17 | 106°50.8′ | 3093 | – | – | 43°52.6′ | 2778 | 22°27.1′ | 4007 | 94°58.3′ | 2932 |
| 18 | 106°21.3′ | 3088 | – | – | 43°20.9′ | 2775 | 22°03.2′ | 4063 | 95°28.8′ | 2928 |
| 19 | 105°51.9′ | 3083 | – | – | 42°49.3′ | 2771 | 21°39.7′ | 4124 | 95°59.4′ | 2924 |
| 20 | 105°22.4′ | 3078 | – | – | 42°17.6′ | 2768 | 21°16.5′ | 4190 | 96°30.0′ | 2920 |
| 21 | 104°52.8′ | 3073 | – | – | 41°45.8′ | 2765 | 20°53.6′ | 4261 | 97°00.7′ | 2916 |
| 22 | 104°23.3′ | 3068 | – | – | 41°14.1′ | 2761 | 20°31.1′ | 4338 | 97°31.3′ | 2912 |
| 23 | 103°53.7′ | 3063 | – | – | 40°42.3′ | 2758 | 20°09.0′ | 4421 | 98°02.0′ | 2908 |

Sat Sep 21, 2019 UTC

| UTC | −Sun | | −Pollux | | −Procyon | | −Regulus | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 103°24.0′ | 3058 | 40°10.5′ | 2754 | 43°13.3′ | 3139 | 75°49.2′ | 2706 | 98°32.7′ | 2904 |
| 1 | 102°54.4′ | 3053 | 39°38.7′ | 2751 | 42°44.1′ | 3143 | 75°17.0′ | 2701 | 99°03.5′ | 2900 |
| 2 | 102°24.7′ | 3048 | 39°06.9′ | 2748 | 42°15.0′ | 3148 | 74°44.8′ | 2696 | 99°34.3′ | 2896 |
| 3 | 101°54.9′ | 3043 | 38°35.0′ | 2745 | 41°46.0′ | 3153 | 74°12.5′ | 2692 | 100°05.1′ | 2892 |
| 4 | 101°25.1′ | 3038 | 38°03.1′ | 2741 | 41°17.0′ | 3158 | 73°40.2′ | 2687 | 100°35.9′ | 2888 |
| 5 | 100°55.3′ | 3033 | 37°31.2′ | 2738 | 40°48.0′ | 3164 | 73°07.9′ | 2683 | 101°06.7′ | 2884 |
| 6 | 100°25.5′ | 3028 | 36°59.2′ | 2735 | 40°19.0′ | 3171 | 72°35.6′ | 2678 | 101°37.6′ | 2880 |
| 7 | 99°55.6′ | 3023 | 36°27.3′ | 2732 | 39°50.1′ | 3177 | 72°03.2′ | 2673 | 102°08.5′ | 2876 |
| 8 | 99°25.7′ | 3017 | 35°55.3′ | 2729 | 39°21.2′ | 3184 | 71°30.8′ | 2668 | 102°39.5′ | 2872 |
| 9 | 98°55.7′ | 3012 | 35°23.3′ | 2726 | 38°52.4′ | 3192 | 70°58.3′ | 2664 | 103°10.5′ | 2868 |
| 10 | 98°25.8′ | 3007 | 34°51.2′ | 2723 | 38°23.6′ | 3200 | 70°25.8′ | 2659 | 103°41.5′ | 2864 |
| 11 | 97°55.7′ | 3002 | 34°19.2′ | 2720 | 37°54.9′ | 3209 | 69°53.3′ | 2654 | 104°12.5′ | 2860 |
| 12 | 97°25.7′ | 2996 | 33°47.1′ | 2717 | 37°26.3′ | 3218 | 69°20.7′ | 2649 | 104°43.5′ | 2857 |
| 13 | 96°55.6′ | 2991 | 33°15.0′ | 2715 | 36°57.7′ | 3228 | 68°48.1′ | 2644 | 105°14.6′ | 2853 |
| 14 | 96°25.4′ | 2986 | 32°42.9′ | 2712 | 36°29.1′ | 3239 | 68°15.5′ | 2639 | 105°45.7′ | 2849 |
| 15 | 95°55.3′ | 2980 | 32°10.8′ | 2709 | 36°00.7′ | 3250 | 67°42.8′ | 2634 | 106°16.9′ | 2845 |
| 16 | 95°25.1′ | 2975 | 31°38.6′ | 2707 | 35°32.3′ | 3262 | 67°10.1′ | 2630 | 106°48.0′ | 2841 |
| 17 | 94°54.8′ | 2969 | 31°06.5′ | 2705 | 35°04.0′ | 3274 | 66°37.3′ | 2625 | 107°19.2′ | 2838 |
| 18 | 94°24.5′ | 2964 | 30°34.3′ | 2703 | 34°35.7′ | 3288 | 66°04.6′ | 2620 | 107°50.4′ | 2834 |
| 19 | 93°54.2′ | 2958 | 30°02.1′ | 2701 | 34°07.6′ | 3302 | 65°31.7′ | 2615 | 108°21.7′ | 2830 |
| 20 | 93°23.8′ | 2953 | 29°29.9′ | 2699 | 33°39.5′ | 3318 | 64°58.9′ | 2610 | 108°52.9′ | 2827 |
| 21 | 92°53.4′ | 2947 | 28°57.6′ | 2697 | 33°11.6′ | 3334 | 64°26.0′ | 2604 | 109°24.2′ | 2823 |
| 22 | 92°23.0′ | 2942 | 28°25.4′ | 2696 | 32°43.8′ | 3351 | 63°53.0′ | 2599 | 109°55.6′ | 2820 |
| 23 | 91°52.5′ | 2936 | 27°53.1′ | 2694 | 32°16.0′ | 3370 | 63°20.1′ | 2594 | 110°26.9′ | 2816 |

Sun Sep 22, 2019 UTC

| UTC | −Sun | | +Aldebaran | | −Pollux | | −Regulus | | −Procyon | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 91°22.0′ | 2931 | 17°41.4′ | 2628 | 27°20.9′ | 2693 | 62°47.0′ | 2589 | 31°48.4′ | 3390 |
| 1 | 90°51.5′ | 2925 | 18°14.2′ | 2621 | 26°48.6′ | 2692 | 62°14.0′ | 2584 | 31°20.9′ | 3410 |
| 2 | 90°20.9′ | 2919 | 18°47.0′ | 2613 | 26°16.3′ | 2692 | 61°40.9′ | 2579 | 30°53.5′ | 3433 |
| 3 | 89°50.2′ | 2914 | 19°19.9′ | 2605 | 25°44.0′ | 2691 | 61°07.8′ | 2574 | 30°26.3′ | 3457 |
| 4 | 89°19.6′ | 2908 | 19°52.8′ | 2598 | 25°11.7′ | 2691 | 60°34.6′ | 2569 | 29°59.3′ | 3482 |
| 5 | 88°48.8′ | 2902 | 20°25.8′ | 2591 | 24°39.5′ | 2692 | 60°01.4′ | 2563 | 29°32.3′ | 3509 |
| 6 | 88°18.1′ | 2897 | 20°58.8′ | 2584 | 24°07.2′ | 2693 | 59°28.1′ | 2558 | 29°05.6′ | 3538 |
| 7 | 87°47.3′ | 2891 | 21°31.9′ | 2577 | 23°34.9′ | 2694 | 58°54.8′ | 2553 | 28°39.0′ | 3569 |
| 8 | 87°16.5′ | 2885 | 22°05.1′ | 2570 | 23°02.6′ | 2696 | 58°21.5′ | 2548 | 28°12.7′ | 3601 |
| 9 | 86°45.6′ | 2880 | 22°38.3′ | 2563 | 22°30.4′ | 2698 | 57°48.1′ | 2543 | 27°46.5′ | 3636 |
| 10 | 86°14.7′ | 2874 | 23°11.5′ | 2556 | 21°58.1′ | 2700 | 57°14.7′ | 2537 | 27°20.5′ | 3674 |
| 11 | 85°43.7′ | 2868 | 23°44.8′ | 2550 | 21°25.9′ | 2704 | 56°41.3′ | 2532 | 26°54.7′ | 3714 |
| 12 | 85°12.7′ | 2862 | 24°18.2′ | 2543 | 20°53.7′ | 2708 | 56°07.8′ | 2527 | 26°29.2′ | 3757 |
| 13 | 84°41.7′ | 2856 | 24°51.6′ | 2537 | 20°21.6′ | 2713 | 55°34.2′ | 2521 | 26°04.0′ | 3803 |
| 14 | 84°10.6′ | 2851 | 25°25.1′ | 2530 | 19°49.4′ | 2719 | 55°00.7′ | 2516 | 25°39.0′ | 3852 |
| 15 | 83°39.5′ | 2845 | 25°58.6′ | 2524 | 19°17.3′ | 2726 | 54°27.0′ | 2511 | 25°14.3′ | 3905 |
| 16 | 83°08.3′ | 2839 | 26°32.1′ | 2517 | 18°45.3′ | 2733 | 53°53.4′ | 2505 | 24°49.8′ | 3961 |
| 17 | 82°37.1′ | 2833 | 27°05.7′ | 2511 | 18°13.3′ | 2743 | 53°19.7′ | 2500 | 24°25.7′ | 4022 |
| 18 | 82°05.8′ | 2827 | 27°39.4′ | 2505 | 17°41.4′ | 2753 | 52°46.0′ | 2495 | 24°02.0′ | 4087 |
| 19 | 81°34.6′ | 2821 | 28°13.1′ | 2499 | 17°09.6′ | 2765 | 52°12.2′ | 2489 | 23°38.6′ | 4157 |
| 20 | 81°03.2′ | 2815 | 28°46.8′ | 2492 | 16°37.9′ | 2780 | 51°38.4′ | 2484 | 23°15.5′ | 4233 |
| 21 | 80°31.8′ | 2810 | 29°20.6′ | 2486 | 16°06.2′ | 2796 | 51°04.5′ | 2479 | 22°52.9′ | 4314 |
| 22 | 80°00.4′ | 2804 | 29°54.5′ | 2480 | 15°34.7′ | 2814 | 50°30.6′ | 2473 | 22°30.7′ | 4402 |
| 23 | 79°29.0′ | 2798 | 30°28.4′ | 2474 | 15°03.3′ | 2836 | 49°56.6′ | 2468 | 22°08.9′ | 4496 |

Mon Sep 23, 2019 UTC

| UTC | −Sun | | +Aldebaran | | −Pollux | | −Regulus | | +Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 78°57.5′ | 2792 | 31°02.3′ | 2468 | 14°32.1′ | 2860 | 49°22.6′ | 2463 | 19°28.9′ | 4248 |
| 1 | 78°25.9′ | 2786 | 31°36.3′ | 2462 | 14°01.0′ | 2889 | 48°48.6′ | 2457 | 19°51.5′ | 4143 |
| 2 | 77°54.3′ | 2780 | 32°10.3′ | 2456 | 13°30.2′ | 2922 | 48°14.5′ | 2452 | 20°14.6′ | 4047 |
| 3 | 77°22.7′ | 2774 | 32°44.4′ | 2450 | 12°59.6′ | 2960 | 47°40.4′ | 2447 | 20°38.2′ | 3957 |
| 4 | 76°51.0′ | 2768 | 33°18.6′ | 2444 | 12°29.2′ | 3004 | 47°06.3′ | 2441 | 21°02.3′ | 3873 |
| 5 | 76°19.3′ | 2762 | 33°52.8′ | 2438 | 11°59.2′ | 3055 | 46°32.1′ | 2436 | 21°26.9′ | 3794 |
| 6 | 75°47.5′ | 2756 | 34°27.0′ | 2432 | 11°29.5′ | 3115 | 45°57.8′ | 2431 | 21°52.0′ | 3721 |
| 7 | 75°15.7′ | 2751 | 35°01.3′ | 2426 | 11°00.2′ | 3185 | 45°23.5′ | 2425 | 22°17.5′ | 3653 |
| 8 | 74°43.9′ | 2745 | 35°35.6′ | 2420 | 10°31.4′ | 3269 | 44°49.2′ | 2420 | 22°43.3′ | 3588 |
| 9 | 74°12.0′ | 2739 | 36°10.0′ | 2414 | 10°03.1′ | 3367 | 44°14.8′ | 2415 | 23°09.6′ | 3528 |
| 10 | 73°40.0′ | 2733 | 36°44.4′ | 2408 | 9°35.5′ | 3485 | 43°40.4′ | 2409 | 23°36.2′ | 3471 |
| 11 | 73°08.1′ | 2727 | 37°18.8′ | 2402 | – | – | 43°06.0′ | 2404 | 24°03.2′ | 3418 |
| 12 | 72°36.0′ | 2721 | 37°53.3′ | 2396 | – | – | 42°31.5′ | 2399 | 24°30.5′ | 3367 |
| 13 | 72°04.0′ | 2715 | 38°27.9′ | 2390 | – | – | 41°56.9′ | 2393 | 24°58.2′ | 3320 |
| 14 | 71°31.9′ | 2709 | 39°02.5′ | 2384 | – | – | 41°22.4′ | 2388 | 25°26.1′ | 3275 |
| 15 | 70°59.7′ | 2703 | 39°37.2′ | 2378 | – | – | 40°47.7′ | 2383 | 25°54.3′ | 3232 |
| 16 | 70°27.5′ | 2697 | 40°11.9′ | 2372 | – | – | 40°13.1′ | 2378 | 26°22.8′ | 3192 |
| 17 | 69°55.3′ | 2692 | 40°46.6′ | 2367 | – | – | 39°38.4′ | 2373 | 26°51.6′ | 3153 |
| 18 | 69°23.0′ | 2686 | 41°21.4′ | 2361 | – | – | 39°03.6′ | 2367 | 27°20.6′ | 3117 |
| 19 | 68°50.7′ | 2680 | 41°56.2′ | 2355 | – | – | 38°28.8′ | 2362 | 27°49.9′ | 3082 |
| 20 | 68°18.3′ | 2674 | 42°31.1′ | 2349 | – | – | 37°54.0′ | 2357 | 28°19.4′ | 3049 |
| 21 | 67°45.9′ | 2668 | 43°06.1′ | 2343 | – | – | 37°19.2′ | 2352 | 28°49.1′ | 3018 |
| 22 | 67°13.4′ | 2662 | 43°41.0′ | 2338 | – | – | 36°44.2′ | 2347 | 29°19.1′ | 2988 |
| 23 | 66°40.9′ | 2657 | 44°16.1′ | 2332 | – | – | 36°09.3′ | 2342 | 29°49.2′ | 2959 |

Tue Sep 24, 2019 UTC

| UTC | −Sun | | −Regulus | | +Aldebaran | | +Betelgeuse | | +Capella | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 66°08.4′ | 2651 | 35°34.3′ | 2337 | 44°51.1′ | 2326 | 30°19.6′ | 2932 | 38°22.4′ | 3610 |
| 1 | 65°35.8′ | 2645 | 34°59.3′ | 2332 | 45°26.2′ | 2321 | 30°50.2′ | 2905 | 38°48.5′ | 3571 |
| 2 | 65°03.1′ | 2639 | 34°24.2′ | 2327 | 46°01.4′ | 2315 | 31°20.9′ | 2880 | 39°14.9′ | 3534 |
| 3 | 64°30.5′ | 2634 | 33°49.1′ | 2322 | 46°36.6′ | 2309 | 31°51.8′ | 2856 | 39°41.5′ | 3498 |
| 4 | 63°57.8′ | 2628 | 33°13.9′ | 2318 | 47°11.9′ | 2304 | 32°22.9′ | 2833 | 40°08.3′ | 3464 |
| 5 | 63°25.0′ | 2622 | 32°38.8′ | 2313 | 47°47.2′ | 2298 | 32°54.1′ | 2810 | 40°35.3′ | 3430 |
| 6 | 62°52.2′ | 2617 | 32°03.5′ | 2308 | 48°22.5′ | 2292 | 33°25.6′ | 2789 | 41°02.6′ | 3398 |
| 7 | 62°19.3′ | 2611 | 31°28.3′ | 2304 | 48°57.9′ | 2287 | 33°57.1′ | 2768 | 41°30.0′ | 3366 |
| 8 | 61°46.5′ | 2606 | 30°53.0′ | 2299 | 49°33.4′ | 2281 | 34°28.8′ | 2748 | 41°57.6′ | 3336 |
| 9 | 61°13.5′ | 2600 | 30°17.6′ | 2294 | 50°08.8′ | 2276 | 35°00.7′ | 2729 | 42°25.5′ | 3306 |
| 10 | 60°40.6′ | 2594 | 29°42.2′ | 2290 | 50°44.4′ | 2270 | 35°32.7′ | 2711 | 42°53.5′ | 3278 |
| 11 | 60°07.5′ | 2589 | 29°06.8′ | 2286 | 51°19.9′ | 2265 | 36°04.9′ | 2693 | 43°21.7′ | 3250 |
| 12 | 59°34.5′ | 2584 | 28°31.4′ | 2282 | 51°55.6′ | 2259 | 36°37.1′ | 2675 | 43°50.1′ | 3224 |
| 13 | 59°01.4′ | 2578 | 27°55.9′ | 2277 | 52°31.2′ | 2254 | 37°09.5′ | 2659 | 44°18.6′ | 3198 |
| 14 | 58°28.2′ | 2573 | 27°20.4′ | 2273 | 53°06.9′ | 2249 | 37°42.1′ | 2642 | 44°47.4′ | 3172 |
| 15 | 57°55.1′ | 2567 | 26°44.8′ | 2269 | 53°42.7′ | 2243 | 38°14.7′ | 2627 | 45°16.3′ | 3148 |
| 16 | 57°21.8′ | 2562 | 26°09.3′ | 2266 | 54°18.5′ | 2238 | 38°47.5′ | 2611 | 45°45.3′ | 3124 |
| 17 | 56°48.6′ | 2557 | 25°33.6′ | 2262 | 54°54.3′ | 2233 | 39°20.4′ | 2597 | 46°14.6′ | 3101 |
| 18 | 56°15.3′ | 2552 | 24°58.0′ | 2258 | 55°30.2′ | 2227 | 39°53.4′ | 2582 | 46°43.9′ | 3079 |
| 19 | 55°41.9′ | 2546 | 24°22.3′ | 2255 | 56°06.1′ | 2222 | 40°26.5′ | 2568 | 47°13.5′ | 3057 |
| 20 | 55°08.6′ | 2541 | 23°46.6′ | 2252 | 56°42.1′ | 2217 | 40°59.7′ | 2555 | 47°43.2′ | 3036 |
| 21 | 54°35.1′ | 2536 | 23°10.9′ | 2249 | 57°18.1′ | 2212 | 41°33.0′ | 2542 | 48°13.0′ | 3015 |
| 22 | 54°01.7′ | 2531 | 22°35.2′ | 2246 | 57°54.2′ | 2207 | 42°06.4′ | 2529 | 48°42.9′ | 2995 |
| 23 | 53°28.2′ | 2526 | 21°59.4′ | 2243 | 58°30.3′ | 2201 | 42°40.0′ | 2516 | 49°13.0′ | 2976 |

Wed Sep 25, 2019 UTC

| UTC | -Sun | | -Regulus | | +Pollux | | +Aldebaran | | +Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 52°54.6' | 2521 | 21°23.6' | 2241 | 15°54.3' | 2504 | 59°06.4' | 2196 | 43°13.6' | 2504 |
| 1 | 52°21.1' | 2516 | 20°47.8' | 2239 | 16°28.0' | 2477 | 59°42.6' | 2191 | 43°47.3' | 2492 |
| 2 | 51°47.4' | 2511 | 20°12.0' | 2237 | 17°01.9' | 2453 | 60°18.8' | 2186 | 44°21.1' | 2481 |
| 3 | 51°13.8' | 2506 | 19°36.1' | 2236 | 17°36.0' | 2430 | 60°55.1' | 2181 | 44°55.0' | 2470 |
| 4 | 50°40.1' | 2502 | 19°00.3' | 2235 | 18°10.3' | 2409 | 61°31.4' | 2176 | 45°28.9' | 2459 |
| 5 | 50°06.4' | 2497 | 18°24.4' | 2234 | 18°44.8' | 2390 | 62°07.7' | 2172 | 46°03.0' | 2448 |
| 6 | 49°32.6' | 2492 | 17°48.5' | 2234 | 19°19.4' | 2372 | 62°44.1' | 2167 | 46°37.1' | 2438 |
| 7 | 48°58.8' | 2488 | 17°12.7' | 2235 | 19°54.1' | 2355 | 63°20.6' | 2162 | 47°11.4' | 2428 |
| 8 | 48°25.0' | 2483 | 16°36.8' | 2236 | 20°29.0' | 2340 | 63°57.0' | 2157 | 47°45.7' | 2418 |
| 9 | 47°51.1' | 2479 | 16°00.9' | 2238 | 21°04.0' | 2325 | 64°33.5' | 2153 | 48°20.1' | 2408 |
| 10 | 47°17.2' | 2475 | 15°25.1' | 2240 | 21°39.1' | 2311 | 65°10.1' | 2148 | 48°54.5' | 2399 |
| 11 | 46°43.3' | 2470 | 14°49.3' | 2244 | 22°14.4' | 2298 | 65°46.7' | 2143 | 49°29.1' | 2390 |
| 12 | 46°09.3' | 2466 | 14°13.5' | 2249 | 22°49.7' | 2285 | 66°23.3' | 2139 | 50°03.7' | 2381 |
| 13 | 45°35.3' | 2462 | 13°37.7' | 2255 | 23°25.2' | 2274 | 66°60.0' | 2134 | 50°38.3' | 2372 |
| 14 | 45°01.2' | 2458 | 13°02.0' | 2263 | 24°00.7' | 2262 | 67°36.7' | 2130 | 51°13.1' | 2363 |
| 15 | 44°27.2' | 2454 | 12°26.4' | 2272 | 24°36.4' | 2252 | 68°13.4' | 2125 | 51°47.9' | 2355 |
| 16 | 43°53.1' | 2450 | 11°50.8' | 2284 | 25°12.1' | 2242 | 68°50.2' | 2121 | 52°22.8' | 2347 |
| 17 | 43°18.9' | 2446 | 11°15.4' | 2299 | 25°47.9' | 2232 | 69°27.0' | 2117 | 52°57.8' | 2339 |
| 18 | 42°44.8' | 2442 | 10°40.0' | 2318 | 26°23.8' | 2222 | 70°03.9' | 2112 | 53°32.8' | 2331 |
| 19 | 42°10.6' | 2439 | 10°04.9' | 2341 | 26°59.8' | 2213 | 70°40.8' | 2108 | 54°07.8' | 2324 |
| 20 | 41°36.4' | 2435 | 9°29.9' | 2369 | 27°35.8' | 2205 | 71°17.7' | 2104 | 54°43.0' | 2316 |
| 21 | 41°02.1' | 2432 | 8°55.1' | 2405 | 28°11.9' | 2197 | 71°54.7' | 2100 | 55°18.2' | 2309 |
| 22 | 40°27.8' | 2428 | 8°20.6' | 2450 | 28°48.1' | 2189 | 72°31.7' | 2096 | 55°53.4' | 2302 |
| 23 | 39°53.5' | 2425 | 7°46.5' | 2508 | 29°24.3' | 2181 | 73°08.7' | 2092 | 56°28.8' | 2295 |

Thu Sep 26, 2019 UTC

| UTC | +Pollux | | -Regulus | | +Aldebaran | | +Betelgeuse | | +Procyon | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 30°00.6' | 2174 | 7°12.8' | 2583 | 73°45.8' | 2088 | 57°04.1' | 2288 | 33°09.9' | 2800 |
| 1 | 30°37.0' | 2167 | 6°39.7' | 2681 | 74°22.9' | 2084 | 57°39.6' | 2281 | 33°41.4' | 2773 |
| 2 | 31°13.5' | 2160 | - | - | 74°60.0' | 2080 | 58°15.0' | 2275 | 34°13.1' | 2747 |
| 3 | 31°49.9' | 2153 | - | - | 75°37.2' | 2077 | 58°50.6' | 2269 | 34°45.0' | 2723 |
| 4 | 32°26.5' | 2147 | - | - | 76°14.3' | 2073 | 59°26.2' | 2262 | 35°17.0' | 2699 |
| 5 | 33°03.1' | 2141 | - | - | 76°51.6' | 2069 | 60°01.8' | 2256 | 35°49.3' | 2677 |
| 6 | 33°39.7' | 2135 | - | - | 77°28.8' | 2066 | 60°37.5' | 2251 | 36°21.6' | 2656 |
| 7 | 34°16.4' | 2129 | - | - | 78°06.1' | 2062 | 61°13.2' | 2245 | 36°54.2' | 2635 |
| 8 | 34°53.2' | 2123 | - | - | 78°43.4' | 2059 | 61°49.0' | 2239 | 37°26.9' | 2616 |
| 9 | 35°30.0' | 2118 | - | - | 79°20.8' | 2055 | 62°24.8' | 2234 | 37°59.8' | 2597 |
| 10 | 36°06.8' | 2112 | - | - | 79°58.2' | 2052 | 63°00.7' | 2229 | 38°32.8' | 2579 |
| 11 | 36°43.7' | 2107 | - | - | 80°35.6' | 2049 | 63°36.6' | 2223 | 39°05.9' | 2562 |
| 12 | 37°20.7' | 2102 | - | - | 81°13.0' | 2046 | 64°12.6' | 2218 | 39°39.2' | 2545 |
| 13 | 37°57.6' | 2098 | - | - | 81°50.5' | 2043 | 64°48.6' | 2214 | 40°12.5' | 2529 |
| 14 | 38°34.6' | 2093 | - | - | 82°28.0' | 2040 | 65°24.6' | 2209 | 40°46.1' | 2514 |
| 15 | 39°11.7' | 2089 | - | - | 83°05.5' | 2037 | 66°00.7' | 2204 | 41°19.7' | 2499 |
| 16 | 39°48.8' | 2084 | - | - | 83°43.0' | 2034 | 66°36.8' | 2200 | 41°53.4' | 2485 |
| 17 | 40°25.9' | 2080 | - | - | 84°20.6' | 2031 | 67°13.0' | 2195 | 42°27.3' | 2471 |
| 18 | 41°03.1' | 2076 | - | - | 84°58.2' | 2028 | 67°49.2' | 2191 | 43°01.3' | 2458 |
| 19 | 41°40.3' | 2072 | - | - | 85°35.8' | 2026 | 68°25.4' | 2187 | 43°35.3' | 2446 |
| 20 | 42°17.5' | 2068 | 6°44.8' | 2504 | 86°13.4' | 2023 | 69°01.7' | 2183 | 44°09.5' | 2434 |
| 21 | 42°54.8' | 2065 | 7°18.5' | 2425 | 86°51.1' | 2020 | 69°37.9' | 2179 | 44°43.8' | 2422 |
| 22 | 43°32.1' | 2061 | 7°52.8' | 2363 | 87°28.8' | 2018 | 70°14.3' | 2176 | 45°18.1' | 2411 |
| 23 | 44°09.4' | 2058 | 8°27.6' | 2312 | 88°06.5' | 2016 | 70°50.6' | 2172 | 45°52.5' | 2400 |

Fri Sep 27, 2019 UTC

| UTC | +Regulus | | +Pollux | | +Procyon | | +Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 9°02.9' | 2271 | 44°46.8' | 2054 | 46°27.1' | 2390 | 71°27.0' | 2169 |
| 1 | 9°38.4' | 2237 | 45°24.2' | 2051 | 47°01.7' | 2380 | 72°03.4' | 2165 |
| 2 | 10°14.3' | 2208 | 46°01.6' | 2048 | 47°36.4' | 2370 | 72°39.9' | 2162 |
| 3 | 10°50.3' | 2184 | 46°39.0' | 2045 | 48°11.1' | 2361 | 73°16.4' | 2159 |
| 4 | 11°26.6' | 2163 | 47°16.5' | 2042 | 48°46.0' | 2352 | 73°52.8' | 2156 |
| 5 | 12°03.1' | 2146 | 47°54.0' | 2039 | 49°20.9' | 2344 | 74°29.4' | 2153 |
| 6 | 12°39.7' | 2130 | 48°31.5' | 2037 | 49°55.8' | 2336 | 75°05.9' | 2151 |
| 7 | 13°16.4' | 2116 | 49°09.0' | 2034 | 50°30.9' | 2328 | 75°42.5' | 2148 |
| 8 | 13°53.3' | 2104 | 49°46.6' | 2032 | 51°06.0' | 2321 | 76°19.1' | 2145 |
| 9 | 14°30.3' | 2094 | 50°24.2' | 2030 | 51°41.1' | 2313 | 76°55.7' | 2143 |
| 10 | 15°07.3' | 2084 | 51°01.8' | 2028 | 52°16.4' | 2306 | 77°32.3' | 2141 |
| 11 | 15°44.4' | 2076 | 51°39.4' | 2026 | 52°51.6' | 2300 | 78°09.0' | 2139 |
| 12 | 16°21.6' | 2068 | 52°17.0' | 2024 | 53°27.0' | 2293 | 78°45.6' | 2137 |
| 13 | 16°58.9' | 2061 | 52°54.7' | 2022 | 54°02.4' | 2287 | 79°22.3' | 2135 |
| 14 | 17°36.2' | 2055 | 53°32.4' | 2020 | 54°37.8' | 2282 | 79°59.0' | 2133 |
| 15 | 18°13.6' | 2050 | 54°10.0' | 2018 | 55°13.3' | 2276 | 80°35.7' | 2132 |
| 16 | 18°51.0' | 2044 | 54°47.7' | 2017 | 55°48.8' | 2271 | 81°12.4' | 2130 |
| 17 | 19°28.5' | 2040 | 55°25.4' | 2015 | 56°24.4' | 2266 | 81°49.2' | 2129 |
| 18 | 20°06.0' | 2036 | 56°03.2' | 2014 | 56°60.0' | 2261 | 82°25.9' | 2128 |
| 19 | 20°43.6' | 2032 | 56°40.9' | 2013 | 57°35.6' | 2256 | 83°02.7' | 2127 |
| 20 | 21°21.2' | 2028 | 57°18.6' | 2012 | 58°11.3' | 2252 | 83°39.5' | 2126 |
| 21 | 21°58.8' | 2025 | 57°56.4' | 2011 | 58°47.1' | 2248 | 84°16.2' | 2125 |
| 22 | 22°36.4' | 2022 | 58°34.2' | 2010 | 59°22.8' | 2244 | 84°53.0' | 2124 |
| 23 | 23°14.1' | 2020 | 59°11.9' | 2009 | 59°58.6' | 2240 | 85°29.8' | 2123 |

Sat Sep 28, 2019 UTC

| UTC | +Regulus | | +Pollux | | +Procyon | | +Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 23°51.8' | 2018 | 59°49.7' | 2008 | 60°34.4' | 2236 | 86°06.6' | 2123 |
| 1 | 24°29.5' | 2015 | 60°27.5' | 2008 | 61°10.3' | 2233 | 86°43.4' | 2122 |
| 2 | 25°07.2' | 2014 | 61°05.3' | 2007 | 61°46.2' | 2230 | 87°20.2' | 2122 |
| 3 | 25°44.9' | 2012 | 61°43.1' | 2007 | 62°22.1' | 2227 | 87°57.0' | 2122 |
| 4 | 26°22.7' | 2011 | 62°20.9' | 2007 | 62°58.0' | 2224 | 88°33.8' | 2122 |
| 5 | 27°00.4' | 2009 | 62°58.7' | 2006 | 63°34.0' | 2222 | 89°10.7' | 2122 |
| 6 | 27°38.2' | 2008 | 63°36.5' | 2006 | 64°09.9' | 2219 | 89°47.5' | 2122 |
| 7 | 28°16.0' | 2007 | 64°14.3' | 2006 | 64°45.9' | 2217 | 90°24.3' | 2123 |
| 8 | 28°53.8' | 2007 | 64°52.1' | 2006 | 65°21.9' | 2215 | 91°01.1' | 2123 |
| 9 | 29°31.6' | 2006 | 65°29.9' | 2007 | 65°58.0' | 2213 | 91°37.9' | 2124 |
| 10 | 30°09.4' | 2006 | 66°07.7' | 2007 | 66°34.0' | 2212 | 92°14.7' | 2124 |
| 11 | 30°47.2' | 2005 | 66°45.5' | 2007 | 67°10.1' | 2210 | 92°51.5' | 2125 |
| 12 | 31°25.0' | 2005 | 67°23.3' | 2008 | 67°46.1' | 2209 | 93°28.2' | 2126 |
| 13 | 32°02.8' | 2005 | 68°01.1' | 2008 | 68°22.2' | 2208 | 94°05.0' | 2127 |
| 14 | 32°40.6' | 2005 | 68°38.9' | 2009 | 68°58.3' | 2207 | 94°41.8' | 2128 |
| 15 | 33°18.5' | 2006 | 69°16.6' | 2010 | 69°34.4' | 2206 | 95°18.5' | 2130 |
| 16 | 33°56.3' | 2006 | 69°54.4' | 2011 | 70°10.5' | 2205 | 95°55.3' | 2131 |
| 17 | 34°34.1' | 2006 | 70°32.2' | 2012 | 70°46.6' | 2205 | 96°32.0' | 2133 |
| 18 | 35°11.9' | 2007 | 71°09.9' | 2013 | 71°22.7' | 2204 | 97°08.7' | 2134 |
| 19 | 35°49.7' | 2008 | 71°47.7' | 2014 | 71°58.8' | 2204 | 97°45.4' | 2136 |
| 20 | 36°27.5' | 2009 | 72°25.4' | 2015 | 72°35.0' | 2204 | 98°22.1' | 2138 |
| 21 | 37°05.2' | 2010 | 73°03.1' | 2016 | 73°11.1' | 2204 | 98°58.8' | 2140 |
| 22 | 37°43.0' | 2011 | 73°40.9' | 2018 | 73°47.2' | 2205 | 99°35.4' | 2142 |
| 23 | 38°20.8' | 2012 | 74°18.6' | 2019 | 74°23.3' | 2205 | 100°12.1' | 2145 |

Mon Sep 30, 2019 UTC

| UTC | –Antares | | –Jupiter | | –Saturn | | –Altair | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 46°58.4' | 2132 | 54°11.8' | 2107 | 80°04.0' | 2069 | 94°35.3' | 2727 |
| 1 | 46°21.6' | 2137 | 53°34.8' | 2111 | 79°26.8' | 2073 | 94°03.3' | 2730 |
| 2 | 45°45.0' | 2142 | 52°57.9' | 2115 | 78°49.6' | 2077 | 93°31.3' | 2733 |
| 3 | 45°08.3' | 2148 | 52°21.1' | 2119 | 78°12.4' | 2081 | 92°59.3' | 2736 |
| 4 | 44°31.7' | 2153 | 51°44.2' | 2123 | 77°35.2' | 2085 | 92°27.4' | 2739 |
| 5 | 43°55.2' | 2159 | 51°07.4' | 2127 | 76°58.1' | 2089 | 91°55.5' | 2743 |
| 6 | 43°18.7' | 2165 | 50°30.7' | 2131 | 76°21.0' | 2093 | 91°23.6' | 2747 |
| 7 | 42°42.2' | 2171 | 49°53.9' | 2135 | 75°43.9' | 2097 | 90°51.7' | 2751 |
| 8 | 42°05.8' | 2177 | 49°17.2' | 2140 | 75°06.9' | 2101 | 90°19.8' | 2755 |
| 9 | 41°29.5' | 2183 | 48°40.6' | 2144 | 74°29.9' | 2106 | 89°48.0' | 2759 |
| 10 | 40°53.2' | 2189 | 48°03.9' | 2149 | 73°53.0' | 2110 | 89°16.2' | 2764 |
| 11 | 40°17.0' | 2196 | 47°27.4' | 2153 | 73°16.1' | 2115 | 88°44.5' | 2768 |
| 12 | 39°40.8' | 2203 | 46°50.8' | 2158 | 72°39.2' | 2119 | 88°12.8' | 2773 |
| 13 | 39°04.6' | 2210 | 46°14.3' | 2163 | 72°02.4' | 2124 | 87°41.1' | 2779 |
| 14 | 38°28.6' | 2217 | 45°37.8' | 2167 | 71°25.6' | 2128 | 87°09.4' | 2784 |
| 15 | 37°52.5' | 2224 | 45°01.4' | 2172 | 70°48.8' | 2133 | 86°37.8' | 2789 |
| 16 | 37°16.6' | 2231 | 44°25.0' | 2177 | 70°12.1' | 2138 | 86°06.3' | 2795 |
| 17 | 36°40.7' | 2239 | 43°48.7' | 2182 | 69°35.4' | 2142 | 85°34.7' | 2801 |
| 18 | 36°04.9' | 2247 | 43°12.4' | 2187 | 68°58.8' | 2147 | 85°03.3' | 2807 |
| 19 | 35°29.1' | 2255 | 42°36.1' | 2192 | 68°22.2' | 2152 | 84°31.8' | 2813 |
| 20 | 34°53.4' | 2263 | 41°59.9' | 2197 | 67°45.6' | 2157 | 84°00.4' | 2820 |
| 21 | 34°17.8' | 2272 | 41°23.7' | 2202 | 67°09.1' | 2162 | 83°29.1' | 2826 |
| 22 | 33°42.2' | 2281 | 40°47.6' | 2207 | 66°32.7' | 2167 | 82°57.8' | 2833 |
| 23 | 33°06.7' | 2290 | 40°11.5' | 2213 | 65°56.2' | 2172 | 82°26.5' | 2840 |