

Sat Sep 1, 2018 UTC

| UTC | −Sun | | −Aldebaran | | −Betelgeuse | | −Pollux | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 116°11.5′ | 2967 | 27°42.7′ | 2633 | 47°08.5′ | 2842 | 72°05.8′ | 2673 | 67°43.2′ | 2902 |
| 1 | 115°41.2′ | 2963 | 27°10.0′ | 2630 | 46°37.3′ | 2842 | 71°33.4′ | 2670 | 68°13.9′ | 2896 |
| 2 | 115°10.8′ | 2959 | 26°37.3′ | 2626 | 46°06.1′ | 2843 | 71°01.0′ | 2666 | 68°44.7′ | 2890 |
| 3 | 114°40.5′ | 2955 | 26°04.5′ | 2623 | 45°34.9′ | 2843 | 70°28.5′ | 2663 | 69°15.6′ | 2884 |
| 4 | 114°10.1′ | 2951 | 25°31.7′ | 2619 | 45°03.8′ | 2844 | 69°56.0′ | 2659 | 69°46.5′ | 2879 |
| 5 | 113°39.7′ | 2947 | 24°58.9′ | 2616 | 44°32.6′ | 2844 | 69°23.5′ | 2656 | 70°17.4′ | 2873 |
| 6 | 113°09.3′ | 2943 | 24°26.0′ | 2612 | 44°01.4′ | 2845 | 68°50.9′ | 2652 | 70°48.3′ | 2868 |
| 7 | 112°38.8′ | 2939 | 23°53.1′ | 2609 | 43°30.3′ | 2846 | 68°18.3′ | 2649 | 71°19.3′ | 2862 |
| 8 | 112°08.3′ | 2935 | 23°20.2′ | 2605 | 42°59.1′ | 2848 | 67°45.7′ | 2646 | 71°50.4′ | 2857 |
| 9 | 111°37.8′ | 2931 | 22°47.3′ | 2601 | 42°28.0′ | 2849 | 67°13.1′ | 2642 | 72°21.5′ | 2851 |
| 10 | 111°07.2′ | 2927 | 22°14.3′ | 2598 | 41°56.8′ | 2851 | 66°40.4′ | 2639 | 72°52.6′ | 2846 |
| 11 | 110°36.6′ | 2923 | 21°41.3′ | 2594 | 41°25.7′ | 2853 | 66°07.8′ | 2635 | 73°23.7′ | 2841 |
| 12 | 110°06.0′ | 2918 | 21°08.3′ | 2591 | 40°54.6′ | 2855 | 65°35.1′ | 2632 | 73°54.9′ | 2836 |
| 13 | 109°35.4′ | 2914 | 20°35.3′ | 2587 | 40°23.5′ | 2857 | 65°02.3′ | 2628 | 74°26.2′ | 2830 |
| 14 | 109°04.7′ | 2910 | 20°02.2′ | 2584 | 39°52.4′ | 2860 | 64°29.6′ | 2625 | 74°57.4′ | 2825 |
| 15 | 108°34.0′ | 2906 | 19°29.1′ | 2581 | 39°21.4′ | 2863 | 63°56.8′ | 2621 | 75°28.7′ | 2820 |
| 16 | 108°03.3′ | 2902 | 18°56.0′ | 2577 | 38°50.3′ | 2866 | 63°24.0′ | 2618 | 76°00.1′ | 2815 |
| 17 | 107°32.5′ | 2897 | 18°22.9′ | 2574 | 38°19.3′ | 2869 | 62°51.1′ | 2615 | 76°31.5′ | 2810 |
| 18 | 107°01.7′ | 2893 | 17°49.7′ | 2570 | 37°48.3′ | 2873 | 62°18.3′ | 2611 | 77°02.9′ | 2805 |
| 19 | 106°30.9′ | 2889 | 17°16.5′ | 2567 | 37°17.4′ | 2877 | 61°45.4′ | 2608 | 77°34.3′ | 2800 |
| 20 | 106°00.1′ | 2885 | 16°43.3′ | 2564 | 36°46.4′ | 2882 | 61°12.5′ | 2604 | 78°05.8′ | 2795 |
| 21 | 105°29.2′ | 2880 | 16°10.0′ | 2561 | 36°15.5′ | 2886 | 60°39.5′ | 2601 | 78°37.4′ | 2790 |
| 22 | 104°58.3′ | 2876 | 15°36.7′ | 2557 | 35°44.7′ | 2892 | 60°06.6′ | 2597 | 79°08.9′ | 2785 |
| 23 | 104°27.3′ | 2872 | 15°03.4′ | 2554 | 35°13.8′ | 2897 | 59°33.6′ | 2594 | 79°40.5′ | 2780 |

Sun Sep 2, 2018 UTC

| UTC | −Sun | | −Aldebaran | | −Betelgeuse | | −Pollux | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 103°56.3′ | 2867 | 14°30.1′ | 2551 | 34°43.0′ | 2903 | 59°00.6′ | 2591 | 80°12.2′ | 2775 |
| 1 | 103°25.3′ | 2863 | 13°56.8′ | 2549 | 34°12.3′ | 2910 | 58°27.5′ | 2587 | 80°43.8′ | 2770 |
| 2 | 102°54.3′ | 2859 | 13°23.4′ | 2546 | 33°41.6′ | 2917 | 57°54.5′ | 2584 | 81°15.5′ | 2766 |
| 3 | 102°23.2′ | 2854 | 12°50.0′ | 2544 | 33°10.9′ | 2925 | 57°21.4′ | 2580 | 81°47.3′ | 2761 |
| 4 | 101°52.1′ | 2850 | 12°16.6′ | 2541 | 32°40.3′ | 2933 | 56°48.2′ | 2577 | 82°19.0′ | 2756 |
| 5 | 101°21.0′ | 2845 | 11°43.2′ | 2539 | 32°09.8′ | 2942 | 56°15.1′ | 2574 | 82°50.8′ | 2751 |
| 6 | 100°49.8′ | 2841 | 11°09.8′ | 2538 | 31°39.3′ | 2952 | 55°41.9′ | 2570 | 83°22.7′ | 2747 |
| 7 | 100°18.7′ | 2837 | 10°36.3′ | 2536 | 31°08.9′ | 2962 | 55°08.7′ | 2567 | 83°54.6′ | 2742 |
| 8 | 99°47.4′ | 2832 | 10°02.9′ | 2536 | 30°38.6′ | 2974 | 54°35.5′ | 2564 | 84°26.5′ | 2738 |
| 9 | 99°16.2′ | 2828 | 9°29.4′ | 2536 | 30°08.3′ | 2986 | 54°02.2′ | 2561 | 84°58.4′ | 2733 |
| 10 | 98°44.9′ | 2823 | 8°55.9′ | 2536 | 29°38.2′ | 2999 | 53°29.0′ | 2557 | 85°30.4′ | 2729 |
| 11 | 98°13.6′ | 2819 | 8°22.5′ | 2538 | 29°08.1′ | 3013 | 52°55.7′ | 2554 | 86°02.4′ | 2724 |
| 12 | 97°42.2′ | 2814 | 7°49.0′ | 2541 | 28°38.1′ | 3028 | 52°22.4′ | 2551 | 86°34.4′ | 2720 |
| 13 | 97°10.8′ | 2810 | 7°15.6′ | 2546 | 28°08.2′ | 3044 | 51°49.0′ | 2548 | 87°06.5′ | 2715 |
| 14 | 96°39.4′ | 2805 | 6°42.2′ | 2553 | 27°38.5′ | 3061 | 51°15.6′ | 2545 | 87°38.6′ | 2711 |
| 15 | 96°08.0′ | 2801 | 6°08.9′ | 2564 | 27°08.8′ | 3080 | 50°42.2′ | 2541 | 88°10.8′ | 2707 |
| 16 | 95°36.5′ | 2796 | 5°35.6′ | 2580 | 26°39.3′ | 3100 | 50°08.8′ | 2538 | 88°42.9′ | 2702 |
| 17 | 95°05.0′ | 2792 | 5°02.5′ | 2604 | 26°09.9′ | 3122 | 49°35.4′ | 2535 | 89°15.2′ | 2698 |
| 18 | 94°33.4′ | 2787 | 4°29.6′ | 2639 | 25°40.7′ | 3145 | 49°01.9′ | 2532 | 89°47.4′ | 2694 |
| 19 | 94°01.8′ | 2783 | 3°56.9′ | 2694 | 25°11.6′ | 3171 | 48°28.4′ | 2529 | 90°19.7′ | 2689 |
| 20 | 93°30.2′ | 2778 | 3°24.6′ | 2785 | 24°42.7′ | 3198 | 47°54.9′ | 2526 | 90°52.0′ | 2685 |
| 21 | 92°58.6′ | 2774 | – | – | 24°13.9′ | 3228 | 47°21.4′ | 2523 | 91°24.3′ | 2681 |
| 22 | 92°26.9′ | 2769 | – | – | 23°45.4′ | 3259 | 46°47.8′ | 2521 | 91°56.7′ | 2677 |
| 23 | 91°55.2′ | 2765 | – | – | 23°17.1′ | 3294 | 46°14.2′ | 2518 | 92°29.0′ | 2673 |

Mon Sep 3, 2018 UTC

| UTC | −Sun | | −Pollux | | −Procyon | | −Betelgeuse | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 91°23.4' | 2760 | 45°40.6' | 2515 | 47°33.7' | 2728 | 22°49.0' | 3331 | 93°01.5' | 2669 |
| 1 | 90°51.7' | 2755 | 45°07.0' | 2512 | 47°01.7' | 2730 | 22°21.1' | 3372 | 93°33.9' | 2665 |
| 2 | 90°19.8' | 2751 | 44°33.4' | 2510 | 46°29.7' | 2731 | 21°53.5' | 3416 | 94°06.4' | 2661 |
| 3 | 89°48.0' | 2746 | 43°59.7' | 2507 | 45°57.7' | 2733 | 21°26.2' | 3464 | 94°38.9' | 2657 |
| 4 | 89°16.1' | 2742 | 43°26.0' | 2505 | 45°25.7' | 2734 | 20°59.1' | 3516 | 95°11.5' | 2653 |
| 5 | 88°44.2' | 2737 | 42°52.3' | 2502 | 44°53.8' | 2737 | 20°32.4' | 3572 | 95°44.0' | 2650 |
| 6 | 88°12.3' | 2733 | 42°18.6' | 2500 | 44°21.8' | 2739 | 20°06.1' | 3634 | 96°16.6' | 2646 |
| 7 | 87°40.3' | 2728 | 41°44.8' | 2498 | 43°49.9' | 2742 | 19°40.1' | 3701 | 96°49.3' | 2642 |
| 8 | 87°08.3' | 2723 | 41°11.1' | 2495 | 43°18.0' | 2745 | 19°14.5' | 3775 | 97°21.9' | 2638 |
| 9 | 86°36.2' | 2719 | 40°37.3' | 2493 | 42°46.1' | 2748 | 18°49.4' | 3855 | 97°54.6' | 2635 |
| 10 | 86°04.1' | 2714 | 40°03.5' | 2491 | 42°14.2' | 2751 | 18°24.7' | 3944 | 98°27.3' | 2631 |
| 11 | 85°32.0' | 2710 | 39°29.7' | 2490 | 41°42.3' | 2755 | 18°00.5' | 4041 | 99°00.0' | 2628 |
| 12 | 84°59.9' | 2705 | 38°55.9' | 2488 | 41°10.5' | 2759 | 17°36.8' | 4148 | 99°32.8' | 2624 |
| 13 | 84°27.7' | 2701 | 38°22.0' | 2486 | 40°38.8' | 2764 | 17°13.7' | 4265 | 100°05.6' | 2621 |
| 14 | 83°55.5' | 2696 | 37°48.2' | 2485 | 40°07.0' | 2769 | 16°51.2' | 4396 | 100°38.4' | 2617 |
| 15 | 83°23.2' | 2691 | 37°14.3' | 2483 | 39°35.3' | 2775 | 16°29.4' | 4540 | 101°11.2' | 2614 |
| 16 | 82°50.9' | 2687 | 36°40.5' | 2482 | 39°03.6' | 2780 | 16°08.3' | 4700 | 101°44.1' | 2611 |
| 17 | 82°18.6' | 2682 | 36°06.6' | 2481 | 38°32.0' | 2787 | – | – | 102°17.0' | 2607 |
| 18 | 81°46.2' | 2678 | 35°32.7' | 2480 | 38°00.4' | 2794 | – | – | 102°49.9' | 2604 |
| 19 | 81°13.9' | 2673 | 34°58.8' | 2479 | 37°28.9' | 2801 | – | – | 103°22.9' | 2601 |
| 20 | 80°41.4' | 2669 | 34°24.9' | 2479 | 36°57.4' | 2809 | – | – | 103°55.8' | 2598 |
| 21 | 80°09.0' | 2664 | 33°51.0' | 2479 | 36°26.0' | 2818 | – | – | 104°28.8' | 2595 |
| 22 | 79°36.5' | 2660 | 33°17.1' | 2478 | 35°54.6' | 2827 | – | – | 105°01.8' | 2592 |
| 23 | 79°04.0' | 2655 | 32°43.2' | 2479 | 35°23.3' | 2837 | – | – | 105°34.9' | 2590 |

Tue Sep 4, 2018 UTC

| UTC | −Sun | | +Aldebaran | | −Pollux | | −Procyon | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 78°31.4' | 2651 | 12°58.9' | 2351 | 32°09.3' | 2479 | 34°52.1' | 2847 | 106°07.9' | 2587 |
| 1 | 77°58.8' | 2646 | 13°33.8' | 2345 | 31°35.4' | 2480 | 34°20.9' | 2859 | 106°41.0' | 2584 |
| 2 | 77°26.2' | 2642 | 14°08.8' | 2340 | 31°01.5' | 2481 | 33°49.9' | 2871 | 107°14.1' | 2581 |
| 3 | 76°53.5' | 2637 | 14°43.8' | 2334 | 30°27.6' | 2482 | 33°18.9' | 2884 | 107°47.2' | 2579 |
| 4 | 76°20.9' | 2633 | 15°18.9' | 2329 | 29°53.7' | 2484 | 32°48.0' | 2898 | 108°20.3' | 2576 |
| 5 | 75°48.1' | 2628 | 15°54.0' | 2324 | 29°19.8' | 2486 | 32°17.2' | 2913 | 108°53.5' | 2574 |
| 6 | 75°15.4' | 2624 | 16°29.1' | 2319 | 28°46.0' | 2488 | 31°46.5' | 2929 | 109°26.6' | 2572 |
| 7 | 74°42.6' | 2619 | 17°04.3' | 2314 | 28°12.1' | 2491 | 31°16.0' | 2946 | 109°59.8' | 2570 |
| 8 | 74°09.7' | 2615 | 17°39.5' | 2309 | 27°38.3' | 2494 | 30°45.5' | 2965 | 110°33.0' | 2567 |
| 9 | 73°36.9' | 2611 | 18°14.7' | 2305 | 27°04.6' | 2498 | 30°15.2' | 2984 | 111°06.2' | 2565 |
| 10 | 73°04.0' | 2606 | 18°50.0' | 2300 | 26°30.8' | 2502 | 29°45.0' | 3006 | 111°39.5' | 2564 |
| 11 | 72°31.1' | 2602 | 19°25.4' | 2295 | 25°57.1' | 2507 | 29°15.0' | 3028 | 112°12.7' | 2562 |
| 12 | 71°58.1' | 2597 | 20°00.7' | 2291 | 25°23.4' | 2513 | 28°45.1' | 3053 | 112°46.0' | 2560 |
| 13 | 71°25.1' | 2593 | 20°36.1' | 2286 | 24°49.7' | 2519 | 28°15.4' | 3079 | 113°19.3' | 2558 |
| 14 | 70°52.1' | 2589 | 21°11.6' | 2282 | 24°16.2' | 2527 | 27°45.9' | 3107 | 113°52.6' | 2557 |
| 15 | 70°19.0' | 2585 | 21°47.1' | 2277 | 23°42.6' | 2535 | 27°16.5' | 3137 | 114°25.9' | 2555 |
| 16 | 69°45.9' | 2580 | 22°22.6' | 2273 | 23°09.2' | 2544 | 26°47.4' | 3170 | 114°59.2' | 2554 |
| 17 | 69°12.8' | 2576 | 22°58.1' | 2269 | 22°35.8' | 2554 | 26°18.5' | 3205 | 115°32.5' | 2553 |
| 18 | 68°39.7' | 2572 | 23°33.7' | 2264 | 22°02.4' | 2565 | 25°49.8' | 3242 | 116°05.8' | 2552 |
| 19 | 68°06.5' | 2568 | 24°09.3' | 2260 | 21°29.2' | 2578 | 25°21.4' | 3283 | 116°39.2' | 2551 |
| 20 | 67°33.3' | 2563 | 24°45.0' | 2256 | 20°56.0' | 2592 | 24°53.2' | 3326 | 117°12.5' | 2550 |
| 21 | 67°00.0' | 2559 | 25°20.7' | 2252 | 20°23.0' | 2608 | 24°25.3' | 3373 | 117°45.9' | 2550 |
| 22 | 66°26.7' | 2555 | 25°56.4' | 2248 | 19°50.1' | 2625 | 23°57.7' | 3424 | 118°19.2' | 2549 |
| 23 | 65°53.4' | 2551 | 26°32.2' | 2243 | 19°17.3' | 2645 | 23°30.4' | 3479 | 118°52.6' | 2549 |

Wed Sep 5, 2018 UTC

| UTC | −Sun | | +Aldebaran | | −Pollux | | −Procyon | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 65°20.1′ | 2547 | 27°08.0′ | 2239 | 18°44.7′ | 2667 | 23°03.5′ | 3538 | 119°26.0′ | 2548 |
| 1 | 64°46.7′ | 2543 | 27°43.8′ | 2235 | 18°12.2′ | 2691 | 22°36.9′ | 3602 | 119°59.3′ | 2548 |
| 2 | 64°13.3′ | 2539 | 28°19.6′ | 2231 | 17°39.9′ | 2719 | 22°10.7′ | 3672 | 120°32.7′ | 2549 |
| 3 | 63°39.8′ | 2535 | 28°55.5′ | 2227 | 17°07.8′ | 2749 | 21°45.0′ | 3747 | 121°06.1′ | 2549 |
| 4 | 63°06.4′ | 2531 | 29°31.5′ | 2223 | 16°36.0′ | 2784 | 21°19.7′ | 3829 | 121°39.4′ | 2549 |
| 5 | 62°32.9′ | 2527 | 30°07.4′ | 2220 | 16°04.4′ | 2823 | 20°54.8′ | 3919 | 122°12.8′ | 2550 |
| 6 | 61°59.3′ | 2523 | 30°43.4′ | 2216 | 15°33.1′ | 2867 | 20°30.5′ | 4016 | 122°46.1′ | 2551 |
| 7 | 61°25.8′ | 2519 | 31°19.4′ | 2212 | 15°02.0′ | 2917 | 20°06.7′ | 4122 | 123°19.5′ | 2552 |
| 8 | 60°52.2′ | 2516 | 31°55.5′ | 2208 | 14°31.4′ | 2973 | 19°43.5′ | 4238 | 123°52.8′ | 2553 |
| 9 | 60°18.6′ | 2512 | 32°31.6′ | 2204 | 14°01.1′ | 3037 | 19°20.8′ | 4364 | 124°26.2′ | 2554 |
| 10 | 59°44.9′ | 2508 | 33°07.7′ | 2201 | 13°31.3′ | 3111 | 18°58.9′ | 4504 | 124°59.5′ | 2556 |
| 11 | 59°11.2′ | 2504 | 33°43.8′ | 2197 | 13°02.0′ | 3195 | 18°37.6′ | 4656 | 125°32.8′ | 2558 |
| 12 | 58°37.5′ | 2501 | 34°20.0′ | 2193 | 12°33.2′ | 3292 | 18°17.1′ | 4825 | 126°06.1′ | 2560 |
| 13 | 58°03.8′ | 2497 | 34°56.2′ | 2190 | 12°05.1′ | 3404 | – | – | 126°39.4′ | 2562 |
| 14 | 57°30.0′ | 2494 | 35°32.5′ | 2186 | – | – | – | – | 127°12.6′ | 2565 |
| 15 | 56°56.3′ | 2490 | 36°08.7′ | 2183 | – | – | – | – | 127°45.9′ | 2568 |
| 16 | 56°22.4′ | 2487 | 36°45.0′ | 2179 | – | – | – | – | 128°19.1′ | 2571 |
| 17 | 55°48.6′ | 2483 | 37°21.4′ | 2176 | – | – | – | – | 128°52.3′ | 2574 |
| 18 | 55°14.7′ | 2480 | 37°57.7′ | 2172 | – | – | – | – | 129°25.4′ | 2578 |
| 19 | 54°40.8′ | 2476 | 38°34.1′ | 2169 | – | – | – | – | 129°58.6′ | 2582 |
| 20 | 54°06.9′ | 2473 | 39°10.5′ | 2166 | – | – | – | – | 130°31.7′ | 2586 |
| 21 | 53°32.9′ | 2470 | 39°47.0′ | 2162 | – | – | – | – | 131°04.8′ | 2591 |
| 22 | 52°59.0′ | 2467 | 40°23.4′ | 2159 | – | – | – | – | 131°37.8′ | 2596 |
| 23 | 52°25.0′ | 2463 | 40°59.9′ | 2156 | – | – | – | – | 132°10.8′ | 2602 |

Thu Sep 6, 2018 UTC

| UTC | −Sun | | +Aldebaran | | +Betelgeuse | | +Rigel | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 51°50.9′ | 2460 | 41°36.4′ | 2153 | 26°39.5′ | 2755 | 44°10.7′ | 3356 |
| 1 | 51°16.9′ | 2457 | 42°13.0′ | 2150 | 27°11.3′ | 2728 | 44°38.4′ | 3327 |
| 2 | 50°42.8′ | 2454 | 42°49.6′ | 2147 | 27°43.3′ | 2702 | 45°06.3′ | 3299 |
| 3 | 50°08.7′ | 2451 | 43°26.2′ | 2144 | 28°15.5′ | 2677 | 45°34.4′ | 3272 |
| 4 | 49°34.6′ | 2448 | 44°02.8′ | 2141 | 28°47.9′ | 2654 | 46°02.6′ | 3246 |
| 5 | 49°00.5′ | 2446 | 44°39.5′ | 2138 | 29°20.5′ | 2632 | 46°31.0′ | 3221 |
| 6 | 48°26.3′ | 2443 | 45°16.1′ | 2135 | 29°53.2′ | 2611 | 46°59.6′ | 3196 |
| 7 | 47°52.1′ | 2440 | 45°52.8′ | 2132 | 30°26.1′ | 2591 | 47°28.4′ | 3173 |
| 8 | 47°17.9′ | 2437 | 46°29.6′ | 2129 | 30°59.1′ | 2572 | 47°57.3′ | 3150 |
| 9 | 46°43.7′ | 2435 | 47°06.3′ | 2126 | 31°32.3′ | 2554 | 48°26.3′ | 3128 |
| 10 | 46°09.4′ | 2432 | 47°43.1′ | 2124 | 32°05.6′ | 2537 | 48°55.5′ | 3106 |
| 11 | 45°35.1′ | 2430 | 48°19.9′ | 2121 | 32°39.1′ | 2521 | 49°24.9′ | 3086 |
| 12 | 45°00.9′ | 2428 | 48°56.7′ | 2119 | 33°12.7′ | 2505 | 49°54.4′ | 3066 |
| 13 | 44°26.5′ | 2425 | 49°33.5′ | 2116 | 33°46.4′ | 2490 | 50°24.0′ | 3047 |
| 14 | 43°52.2′ | 2423 | 50°10.4′ | 2114 | 34°20.2′ | 2476 | 50°53.7′ | 3028 |
| 15 | 43°17.9′ | 2421 | 50°47.3′ | 2111 | 34°54.1′ | 2463 | 51°23.6′ | 3010 |
| 16 | 42°43.5′ | 2419 | 51°24.2′ | 2109 | 35°28.1′ | 2450 | 51°53.6′ | 2992 |
| 17 | 42°09.1′ | 2417 | 52°01.1′ | 2107 | 36°02.3′ | 2438 | 52°23.7′ | 2975 |
| 18 | 41°34.7′ | 2415 | 52°38.0′ | 2104 | 36°36.5′ | 2426 | 52°54.0′ | 2959 |
| 19 | 41°00.3′ | 2413 | 53°15.0′ | 2102 | 37°10.8′ | 2415 | 53°24.3′ | 2943 |
| 20 | 40°25.9′ | 2411 | 53°52.0′ | 2100 | 37°45.2′ | 2404 | 53°54.8′ | 2928 |
| 21 | 39°51.5′ | 2409 | 54°29.0′ | 2098 | 38°19.7′ | 2394 | 54°25.4′ | 2913 |
| 22 | 39°17.0′ | 2408 | 55°06.0′ | 2096 | 38°54.3′ | 2384 | 54°56.0′ | 2899 |
| 23 | 38°42.5′ | 2406 | 55°43.0′ | 2094 | 39°28.9′ | 2375 | 55°26.8′ | 2885 |

Fri Sep 7, 2018 UTC

| UTC | +Aldebaran | | +Betelgeuse | | +Pollux | | +Rigel | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 56°20.0' | 2092 | 40°03.7' | 2366 | 14°19.2' | 2821 | 55°57.7' | 2872 |
| 1 | 56°57.1' | 2090 | 40°38.5' | 2357 | 14°50.5' | 2762 | 56°28.7' | 2859 |
| 2 | 57°34.2' | 2088 | 41°13.3' | 2349 | 15°22.3' | 2709 | 56°59.7' | 2846 |
| 3 | 58°11.3' | 2087 | 41°48.3' | 2341 | 15°54.4' | 2662 | 57°30.9' | 2834 |
| 4 | 58°48.4' | 2085 | 42°23.3' | 2333 | 16°26.9' | 2619 | 58°02.1' | 2822 |
| 5 | 59°25.5' | 2083 | 42°58.3' | 2326 | 16°59.8' | 2581 | 58°33.5' | 2811 |
| 6 | 60°02.7' | 2082 | 43°33.5' | 2319 | 17°32.9' | 2547 | 59°04.9' | 2800 |
| 7 | 60°39.8' | 2080 | 44°08.6' | 2312 | 18°06.3' | 2515 | 59°36.4' | 2790 |
| 8 | 61°17.0' | 2079 | 44°43.9' | 2306 | 18°39.9' | 2487 | 60°07.9' | 2779 |
| 9 | 61°54.1' | 2078 | 45°19.1' | 2300 | 19°13.7' | 2461 | 60°39.6' | 2770 |
| 10 | 62°31.3' | 2076 | 45°54.5' | 2294 | 19°47.8' | 2437 | 61°11.3' | 2760 |
| 11 | 63°08.5' | 2075 | 46°29.9' | 2288 | 20°22.0' | 2415 | 61°43.0' | 2751 |
| 12 | 63°45.7' | 2074 | 47°05.3' | 2283 | 20°56.4' | 2395 | 62°14.9' | 2742 |
| 13 | 64°22.9' | 2073 | 47°40.8' | 2278 | 21°31.0' | 2377 | 62°46.8' | 2734 |
| 14 | 65°00.2' | 2072 | 48°16.3' | 2273 | 22°05.7' | 2360 | 63°18.8' | 2726 |
| 15 | 65°37.4' | 2071 | 48°51.8' | 2268 | 22°40.5' | 2345 | 63°50.8' | 2718 |
| 16 | 66°14.7' | 2070 | 49°27.4' | 2263 | 23°15.5' | 2330 | 64°22.9' | 2710 |
| 17 | 66°51.9' | 2069 | 50°03.0' | 2259 | 23°50.6' | 2317 | 64°55.0' | 2703 |
| 18 | 67°29.2' | 2069 | 50°38.7' | 2255 | 24°25.8' | 2305 | 65°27.2' | 2696 |
| 19 | 68°06.4' | 2068 | 51°14.4' | 2251 | 25°01.1' | 2293 | 65°59.5' | 2689 |
| 20 | 68°43.7' | 2067 | 51°50.1' | 2248 | 25°36.5' | 2282 | 66°31.8' | 2683 |
| 21 | 69°21.0' | 2067 | 52°25.9' | 2244 | 26°11.9' | 2273 | 67°04.2' | 2677 |
| 22 | 69°58.2' | 2066 | 53°01.7' | 2241 | 26°47.5' | 2263 | 67°36.5' | 2671 |
| 23 | 70°35.5' | 2066 | 53°37.5' | 2238 | 27°23.1' | 2255 | 68°09.0' | 2665 |

Sat Sep 8, 2018 UTC

| UTC | +Pollux | | +Betelgeuse | | +Aldebaran | | +Procyon | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 27°58.8' | 2247 | 54°13.3' | 2235 | 71°12.8' | 2066 | 30°12.5' | 2731 |
| 1 | 28°34.6' | 2240 | 54°49.2' | 2232 | 71°50.1' | 2065 | 30°44.5' | 2707 |
| 2 | 29°10.4' | 2233 | 55°25.1' | 2229 | 72°27.4' | 2065 | 31°16.7' | 2684 |
| 3 | 29°46.3' | 2226 | 56°01.0' | 2227 | 73°04.7' | 2065 | 31°49.0' | 2663 |
| 4 | 30°22.2' | 2220 | 56°37.0' | 2224 | 73°42.0' | 2065 | 32°21.5' | 2642 |
| 5 | 30°58.2' | 2215 | 57°12.9' | 2222 | 74°19.3' | 2065 | 32°54.2' | 2623 |
| 6 | 31°34.2' | 2210 | 57°48.9' | 2220 | 74°56.6' | 2065 | 33°27.0' | 2605 |
| 7 | 32°10.3' | 2205 | 58°24.9' | 2218 | 75°33.9' | 2065 | 33°59.9' | 2588 |
| 8 | 32°46.4' | 2201 | 59°00.9' | 2216 | 76°11.2' | 2066 | 34°33.0' | 2572 |
| 9 | 33°22.6' | 2196 | 59°36.9' | 2215 | 76°48.5' | 2066 | 35°06.1' | 2557 |
| 10 | 33°58.7' | 2193 | 60°12.9' | 2213 | 77°25.7' | 2066 | 35°39.4' | 2543 |
| 11 | 34°35.0' | 2189 | 60°49.0' | 2212 | 78°03.0' | 2067 | 36°12.8' | 2530 |
| 12 | 35°11.2' | 2186 | 61°25.0' | 2211 | 78°40.3' | 2067 | 36°46.4' | 2517 |
| 13 | 35°47.5' | 2183 | 62°01.1' | 2210 | 79°17.6' | 2068 | 37°20.0' | 2505 |
| 14 | 36°23.8' | 2180 | 62°37.1' | 2209 | 79°54.8' | 2069 | 37°53.7' | 2493 |
| 15 | 37°00.1' | 2178 | 63°13.2' | 2208 | 80°32.1' | 2069 | 38°27.5' | 2483 |
| 16 | 37°36.4' | 2176 | 63°49.3' | 2208 | 81°09.4' | 2070 | 39°01.3' | 2473 |
| 17 | 38°12.8' | 2174 | 64°25.4' | 2207 | 81°46.6' | 2071 | 39°35.3' | 2463 |
| 18 | 38°49.2' | 2172 | 65°01.5' | 2207 | 82°23.9' | 2072 | 40°09.3' | 2454 |
| 19 | 39°25.5' | 2170 | 65°37.6' | 2207 | 83°01.1' | 2073 | 40°43.4' | 2446 |
| 20 | 40°01.9' | 2169 | 66°13.7' | 2206 | 83°38.3' | 2074 | 41°17.6' | 2438 |
| 21 | 40°38.4' | 2168 | 66°49.8' | 2206 | 84°15.5' | 2076 | 41°51.8' | 2430 |
| 22 | 41°14.8' | 2167 | 67°25.9' | 2206 | 84°52.7' | 2077 | 42°26.1' | 2423 |
| 23 | 41°51.2' | 2166 | 68°02.0' | 2207 | 85°29.9' | 2078 | 43°00.4' | 2417 |

Sun Sep 9, 2018 UTC

| UTC | +Regulus | | +Pollux | | +Procyon | | +Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 6°12.0' | 2233 | 42°27.6' | 2165 | 43°34.8' | 2410 | 68°38.1' | 2207 |
| 1 | 6°47.9' | 2209 | 43°04.1' | 2165 | 44°09.3' | 2405 | 69°14.2' | 2208 |
| 2 | 7°23.9' | 2191 | 43°40.5' | 2165 | 44°43.8' | 2399 | 69°50.3' | 2208 |
| 3 | 8°00.2' | 2177 | 44°17.0' | 2164 | 45°18.3' | 2394 | 70°26.4' | 2209 |
| 4 | 8°36.5' | 2166 | 44°53.4' | 2164 | 45°52.9' | 2389 | 71°02.4' | 2210 |
| 5 | 9°13.0' | 2158 | 45°29.9' | 2165 | 46°27.5' | 2385 | 71°38.5' | 2210 |
| 6 | 9°49.5' | 2151 | 46°06.3' | 2165 | 47°02.1' | 2381 | 72°14.6' | 2212 |
| 7 | 10°26.0' | 2146 | 46°42.8' | 2165 | 47°36.8' | 2377 | 72°50.6' | 2213 |
| 8 | 11°02.6' | 2143 | 47°19.2' | 2166 | 48°11.5' | 2374 | 73°26.7' | 2214 |
| 9 | 11°39.3' | 2140 | 47°55.7' | 2166 | 48°46.2' | 2371 | 74°02.7' | 2215 |
| 10 | 12°15.9' | 2138 | 48°32.1' | 2167 | 49°21.0' | 2368 | 74°38.7' | 2217 |
| 11 | 12°52.6' | 2136 | 49°08.5' | 2168 | 49°55.8' | 2365 | 75°14.8' | 2218 |
| 12 | 13°29.3' | 2135 | 49°44.9' | 2169 | 50°30.6' | 2363 | 75°50.8' | 2220 |
| 13 | 14°06.0' | 2135 | 50°21.4' | 2170 | 51°05.4' | 2361 | 76°26.8' | 2222 |
| 14 | 14°42.7' | 2135 | 50°57.8' | 2172 | 51°40.3' | 2359 | 77°02.7' | 2223 |
| 15 | 15°19.4' | 2135 | 51°34.2' | 2173 | 52°15.1' | 2357 | 77°38.7' | 2225 |
| 16 | 15°56.1' | 2136 | 52°10.5' | 2174 | 52°50.0' | 2356 | 78°14.6' | 2227 |
| 17 | 16°32.8' | 2137 | 52°46.9' | 2176 | 53°24.9' | 2354 | 78°50.6' | 2230 |
| 18 | 17°09.5' | 2138 | 53°23.3' | 2178 | 53°59.8' | 2353 | 79°26.5' | 2232 |
| 19 | 17°46.1' | 2139 | 53°59.6' | 2180 | 54°34.7' | 2353 | 80°02.3' | 2234 |
| 20 | 18°22.8' | 2141 | 54°35.9' | 2182 | 55°09.6' | 2352 | 80°38.2' | 2237 |
| 21 | 18°59.4' | 2143 | 55°12.2' | 2184 | 55°44.5' | 2352 | 81°14.1' | 2239 |
| 22 | 19°36.1' | 2145 | 55°48.5' | 2186 | 56°19.4' | 2351 | 81°49.9' | 2242 |
| 23 | 20°12.7' | 2147 | 56°24.8' | 2188 | 56°54.3' | 2351 | 82°25.7' | 2245 |

Tue Sep 11, 2018 UTC

| UTC | -Spica | | -Jupiter | | -Venus | | -Antares | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 19°57.1' | 2543 | 43°30.3' | 2300 | 27°22.7' | 2771 | 65°21.2' | 2290 |
| 1 | 19°23.7' | 2567 | 42°54.9' | 2305 | 26°51.0' | 2789 | 64°45.8' | 2295 |
| 2 | 18°50.4' | 2593 | 42°19.6' | 2310 | 26°19.4' | 2808 | 64°10.4' | 2300 |
| 3 | 18°17.4' | 2621 | 41°44.4' | 2316 | 25°48.0' | 2827 | 63°35.1' | 2306 |
| 4 | 17°44.6' | 2651 | 41°09.2' | 2321 | 25°16.7' | 2848 | 62°59.8' | 2311 |
| 5 | 17°12.0' | 2684 | 40°34.0' | 2327 | 24°45.5' | 2870 | 62°24.5' | 2317 |
| 6 | 16°39.7' | 2720 | 39°58.9' | 2332 | 24°14.5' | 2893 | 61°49.3' | 2322 |
| 7 | 16°07.6' | 2760 | 39°23.8' | 2338 | 23°43.7' | 2918 | 61°14.2' | 2328 |
| 8 | 15°35.8' | 2803 | 38°48.8' | 2343 | 23°13.1' | 2944 | 60°39.1' | 2333 |
| 9 | 15°04.4' | 2851 | 38°13.8' | 2349 | 22°42.6' | 2971 | 60°04.0' | 2339 |
| 10 | 14°33.2' | 2904 | 37°38.9' | 2355 | 22°12.3' | 3000 | 59°29.0' | 2345 |
| 11 | 14°02.5' | 2964 | 37°04.0' | 2361 | 21°42.3' | 3031 | 58°54.0' | 2351 |
| 12 | 13°32.2' | 3030 | 36°29.2' | 2367 | 21°12.4' | 3064 | 58°19.1' | 2357 |
| 13 | 13°02.3' | 3105 | 35°54.4' | 2373 | 20°42.8' | 3100 | 57°44.2' | 2363 |
| 14 | 12°33.0' | 3190 | 35°19.7' | 2380 | 20°13.4' | 3138 | 57°09.4' | 2369 |
| 15 | 12°04.2' | 3286 | 34°45.0' | 2386 | 19°44.3' | 3178 | 56°34.7' | 2375 |
| 16 | 11°36.0' | 3396 | 34°10.3' | 2392 | 19°15.4' | 3222 | 55°59.9' | 2381 |
| 17 | 11°08.6' | 3522 | 33°35.7' | 2399 | 18°46.8' | 3269 | 55°25.3' | 2388 |
| 18 | - | - | 33°01.2' | 2405 | 18°18.6' | 3320 | 54°50.6' | 2394 |
| 19 | - | - | 32°26.7' | 2412 | 17°50.6' | 3375 | 54°16.1' | 2401 |
| 20 | - | - | 31°52.3' | 2419 | 17°23.1' | 3434 | 53°41.5' | 2407 |
| 21 | - | - | 31°17.9' | 2426 | 16°55.8' | 3499 | 53°07.1' | 2414 |
| 22 | - | - | 30°43.6' | 2433 | 16°29.0' | 3570 | 52°32.6' | 2420 |
| 23 | - | - | 30°09.3' | 2440 | 16°02.7' | 3647 | 51°58.3' | 2427 |

Wed Sep 12, 2018 UTC

| UTC | −Jupiter | | −Antares | | −Saturn | | −Mars | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 29°35.1′ | 2447 | 51°24.0′ | 2434 | 73°07.2′ | 2355 | 101°05.7′ | 2431 |
| 1 | 29°01.0′ | 2455 | 50°49.7′ | 2441 | 72°32.3′ | 2360 | 100°31.4′ | 2436 |
| 2 | 28°26.9′ | 2462 | 50°15.5′ | 2448 | 71°57.4′ | 2366 | 99°57.2′ | 2442 |
| 3 | 27°52.8′ | 2470 | 49°41.4′ | 2455 | 71°22.6′ | 2372 | 99°23.0′ | 2448 |
| 4 | 27°18.9′ | 2478 | 49°07.3′ | 2462 | 70°47.9′ | 2377 | 98°48.9′ | 2453 |
| 5 | 26°44.9′ | 2486 | 48°33.2′ | 2469 | 70°13.2′ | 2383 | 98°14.8′ | 2459 |
| 6 | 26°11.1′ | 2494 | 47°59.3′ | 2477 | 69°38.5′ | 2388 | 97°40.7′ | 2465 |
| 7 | 25°37.3′ | 2502 | 47°25.3′ | 2484 | 69°03.9′ | 2394 | 97°06.7′ | 2471 |
| 8 | 25°03.6′ | 2511 | 46°51.5′ | 2492 | 68°29.3′ | 2400 | 96°32.7′ | 2476 |
| 9 | 24°29.9′ | 2519 | 46°17.7′ | 2499 | 67°54.8′ | 2406 | 95°58.8′ | 2482 |
| 10 | 23°56.3′ | 2528 | 45°43.9′ | 2507 | 67°20.3′ | 2411 | 95°24.9′ | 2488 |
| 11 | 23°22.8′ | 2538 | 45°10.2′ | 2515 | 66°45.9′ | 2417 | 94°51.1′ | 2494 |
| 12 | 22°49.4′ | 2547 | 44°36.6′ | 2523 | 66°11.5′ | 2423 | 94°17.3′ | 2500 |
| 13 | 22°16.0′ | 2557 | 44°03.0′ | 2531 | 65°37.1′ | 2429 | 93°43.6′ | 2506 |
| 14 | 21°42.7′ | 2567 | 43°29.5′ | 2539 | 65°02.8′ | 2435 | 93°09.9′ | 2512 |
| 15 | 21°09.5′ | 2578 | 42°56.1′ | 2547 | 64°28.6′ | 2441 | 92°36.2′ | 2518 |
| 16 | 20°36.3′ | 2589 | 42°22.7′ | 2555 | 63°54.4′ | 2447 | 92°02.6′ | 2524 |
| 17 | 20°03.2′ | 2600 | 41°49.4′ | 2564 | 63°20.2′ | 2452 | 91°29.1′ | 2530 |
| 18 | 19°30.3′ | 2612 | 41°16.2′ | 2572 | 62°46.1′ | 2458 | 90°55.5′ | 2536 |
| 19 | 18°57.4′ | 2624 | 40°43.0′ | 2581 | 62°12.1′ | 2464 | 90°22.1′ | 2542 |
| 20 | 18°24.6′ | 2637 | 40°09.9′ | 2590 | 61°38.0′ | 2470 | 89°48.7′ | 2548 |
| 21 | 17°51.9′ | 2651 | 39°36.8′ | 2599 | 61°04.1′ | 2476 | 89°15.3′ | 2554 |
| 22 | 17°19.3′ | 2665 | 39°03.8′ | 2608 | 60°30.1′ | 2482 | 88°42.0′ | 2560 |
| 23 | 16°46.8′ | 2680 | 38°30.9′ | 2617 | 59°56.3′ | 2488 | 88°08.7′ | 2566 |

Thu Sep 13, 2018 UTC

| UTC | +Sun | | −Jupiter | | −Antares | | −Saturn | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 43°21.1′ | 2828 | 16°14.5′ | 2697 | 37°58.1′ | 2626 | 59°22.4′ | 2494 | 11°39.6′ | 3462 |
| 1 | 43°52.4′ | 2834 | 15°42.2′ | 2714 | 37°25.3′ | 2636 | 58°48.6′ | 2500 | 12°06.6′ | 3382 |
| 2 | 44°23.7′ | 2840 | 15°10.1′ | 2733 | 36°52.6′ | 2646 | 58°14.9′ | 2506 | 12°34.1′ | 3312 |
| 3 | 44°54.9′ | 2846 | 14°38.1′ | 2753 | 36°20.0′ | 2656 | 57°41.2′ | 2512 | 13°02.1′ | 3252 |
| 4 | 45°26.0′ | 2852 | 14°06.3′ | 2774 | 35°47.4′ | 2666 | 57°07.6′ | 2518 | 13°30.5′ | 3199 |
| 5 | 45°57.1′ | 2859 | 13°34.6′ | 2798 | 35°14.9′ | 2676 | 56°34.0′ | 2524 | 13°59.2′ | 3152 |
| 6 | 46°28.2′ | 2865 | 13°03.1′ | 2824 | 34°42.5′ | 2686 | 56°00.4′ | 2530 | 14°28.3′ | 3112 |
| 7 | 46°59.2′ | 2871 | 12°31.8′ | 2853 | 34°10.2′ | 2697 | 55°26.9′ | 2536 | 14°57.6′ | 3076 |
| 8 | 47°30.2′ | 2877 | 12°00.7′ | 2885 | 33°38.0′ | 2708 | 54°53.4′ | 2542 | 15°27.1′ | 3045 |
| 9 | 48°01.1′ | 2883 | 11°29.8′ | 2920 | 33°05.8′ | 2719 | 54°20.0′ | 2548 | 15°56.9′ | 3017 |
| 10 | 48°32.0′ | 2889 | 10°59.2′ | 2960 | 32°33.7′ | 2731 | 53°46.6′ | 2554 | 16°26.9′ | 2992 |
| 11 | 49°02.9′ | 2896 | 10°28.8′ | 3006 | 32°01.7′ | 2742 | 53°13.3′ | 2560 | 16°57.0′ | 2971 |
| 12 | 49°33.7′ | 2902 | 9°58.8′ | 3058 | 31°29.8′ | 2754 | 52°40.0′ | 2566 | 17°27.2′ | 2952 |
| 13 | 50°04.4′ | 2908 | 9°29.1′ | 3119 | 30°58.0′ | 2767 | 52°06.8′ | 2572 | 17°57.7′ | 2935 |
| 14 | 50°35.2′ | 2914 | 8°59.9′ | 3189 | 30°26.3′ | 2780 | 51°33.6′ | 2578 | 18°28.2′ | 2920 |
| 15 | 51°05.8′ | 2921 | 8°31.1′ | 3272 | 29°54.6′ | 2793 | 51°00.5′ | 2584 | 18°58.8′ | 2906 |
| 16 | 51°36.4′ | 2927 | 8°02.8′ | 3372 | 29°23.1′ | 2806 | 50°27.4′ | 2590 | 19°29.5′ | 2895 |
| 17 | 52°07.0′ | 2933 | 7°35.2′ | 3491 | 28°51.6′ | 2820 | 49°54.4′ | 2596 | 20°00.4′ | 2885 |
| 18 | 52°37.6′ | 2939 | – | – | 28°20.3′ | 2834 | 49°21.4′ | 2602 | 20°31.2′ | 2876 |
| 19 | 53°08.1′ | 2945 | – | – | 27°49.1′ | 2849 | 48°48.4′ | 2608 | 21°02.2′ | 2868 |
| 20 | 53°38.5′ | 2952 | – | – | 27°17.9′ | 2864 | 48°15.5′ | 2614 | 21°33.2′ | 2861 |
| 21 | 54°08.9′ | 2958 | – | – | 26°46.9′ | 2880 | 47°42.6′ | 2620 | 22°04.2′ | 2855 |
| 22 | 54°39.3′ | 2964 | – | – | 26°16.0′ | 2897 | 47°09.8′ | 2626 | 22°35.3′ | 2850 |
| 23 | 55°09.6′ | 2970 | – | – | 25°45.2′ | 2914 | 46°37.0′ | 2632 | 23°06.5′ | 2845 |

Fri Sep 14, 2018 UTC

| UTC | +Sun | | +Spica | | -Saturn | | -Antares | | -Mars | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 55°39.9' | 2976 | 23°37.6' | 2842 | 46°04.3' | 2638 | 25°14.5' | 2932 | 74°32.0' | 2721 |
| 1 | 56°10.1' | 2982 | 24°08.8' | 2839 | 45°31.6' | 2644 | 24°44.0' | 2950 | 73°59.9' | 2727 |
| 2 | 56°40.3' | 2989 | 24°40.0' | 2836 | 44°59.0' | 2650 | 24°13.6' | 2970 | 73°27.9' | 2733 |
| 3 | 57°10.5' | 2995 | 25°11.2' | 2834 | 44°26.4' | 2656 | 23°43.3' | 2990 | 72°55.9' | 2739 |
| 4 | 57°40.6' | 3001 | 25°42.5' | 2833 | 43°53.8' | 2662 | 23°13.1' | 3011 | 72°24.0' | 2745 |
| 5 | 58°10.6' | 3007 | 26°13.7' | 2832 | 43°21.3' | 2668 | 22°43.1' | 3034 | 71°52.1' | 2751 |
| 6 | 58°40.7' | 3013 | 26°45.0' | 2831 | 42°48.9' | 2673 | 22°13.3' | 3057 | 71°20.2' | 2757 |
| 7 | 59°10.7' | 3019 | 27°16.3' | 2830 | 42°16.4' | 2679 | 21°43.6' | 3082 | 70°48.4' | 2763 |
| 8 | 59°40.6' | 3025 | 27°47.5' | 2830 | 41°44.1' | 2685 | 21°14.1' | 3109 | 70°16.7' | 2769 |
| 9 | 60°10.5' | 3031 | 28°18.8' | 2831 | 41°11.7' | 2691 | 20°44.8' | 3136 | 69°45.0' | 2775 |
| 10 | 60°40.3' | 3037 | 28°50.1' | 2831 | 40°39.4' | 2697 | 20°15.7' | 3166 | 69°13.3' | 2781 |
| 11 | 61°10.2' | 3043 | 29°21.3' | 2832 | 40°07.2' | 2702 | 19°46.7' | 3197 | 68°41.7' | 2787 |
| 12 | 61°39.9' | 3049 | 29°52.6' | 2833 | 39°35.0' | 2708 | 19°18.0' | 3231 | 68°10.1' | 2793 |
| 13 | 62°09.7' | 3055 | 30°23.8' | 2834 | 39°02.8' | 2714 | 18°49.5' | 3267 | 67°38.6' | 2799 |
| 14 | 62°39.4' | 3061 | 30°55.1' | 2836 | 38°30.7' | 2720 | 18°21.2' | 3305 | 67°07.1' | 2805 |
| 15 | 63°09.0' | 3067 | 31°26.3' | 2838 | 37°58.6' | 2725 | 17°53.1' | 3347 | 66°35.6' | 2811 |
| 16 | 63°38.6' | 3073 | 31°57.5' | 2839 | 37°26.6' | 2731 | 17°25.4' | 3391 | 66°04.2' | 2817 |
| 17 | 64°08.2' | 3079 | 32°28.7' | 2841 | 36°54.6' | 2737 | 16°57.9' | 3439 | 65°32.8' | 2823 |
| 18 | 64°37.7' | 3085 | 32°59.9' | 2844 | 36°22.7' | 2743 | 16°30.7' | 3491 | 65°01.5' | 2828 |
| 19 | 65°07.2' | 3090 | 33°31.1' | 2846 | 35°50.7' | 2748 | 16°03.9' | 3548 | 64°30.2' | 2834 |
| 20 | 65°36.7' | 3096 | 34°02.2' | 2848 | 35°18.9' | 2754 | 15°37.4' | 3609 | 63°59.0' | 2840 |
| 21 | 66°06.1' | 3102 | 34°33.4' | 2851 | 34°47.1' | 2759 | 15°11.2' | 3676 | 63°27.8' | 2846 |
| 22 | 66°35.5' | 3108 | 35°04.5' | 2853 | 34°15.3' | 2765 | 14°45.5' | 3750 | 62°56.6' | 2851 |
| 23 | 67°04.8' | 3113 | 35°35.6' | 2856 | 33°43.5' | 2771 | 14°20.2' | 3831 | 62°25.5' | 2857 |

Sat Sep 15, 2018 UTC

| UTC | +Sun | | -Saturn | | +Jupiter | | +Spica | | +Venus | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 67°34.1' | 3119 | 33°11.8' | 2776 | 11°01.2' | 3144 | 36°06.7' | 2859 | 27°34.6' | 3296 |
| 1 | 68°03.3' | 3125 | 32°40.2' | 2782 | 11°30.3' | 3122 | 36°37.8' | 2862 | 28°02.7' | 3291 |
| 2 | 68°32.6' | 3130 | 32°08.5' | 2787 | 11°59.5' | 3102 | 37°08.8' | 2865 | 28°30.8' | 3287 |
| 3 | 69°01.8' | 3136 | 31°37.0' | 2793 | 12°28.9' | 3086 | 37°39.8' | 2868 | 28°59.0' | 3283 |
| 4 | 69°30.9' | 3141 | 31°05.4' | 2798 | 12°58.4' | 3072 | 38°10.8' | 2871 | 29°27.2' | 3279 |
| 5 | 70°00.0' | 3147 | 30°33.9' | 2804 | 13°27.9' | 3060 | 38°41.8' | 2874 | 29°55.4' | 3276 |
| 6 | 70°29.1' | 3152 | 30°02.5' | 2809 | 13°57.6' | 3050 | 39°12.8' | 2877 | 30°23.6' | 3273 |
| 7 | 70°58.1' | 3158 | 29°31.0' | 2815 | 14°27.3' | 3042 | 39°43.7' | 2880 | 30°51.8' | 3271 |
| 8 | 71°27.1' | 3163 | 28°59.7' | 2820 | 14°57.1' | 3035 | 40°14.6' | 2883 | 31°20.1' | 3269 |
| 9 | 71°56.1' | 3168 | 28°28.3' | 2825 | 15°26.9' | 3029 | 40°45.5' | 2887 | 31°48.3' | 3267 |
| 10 | 72°25.0' | 3174 | 27°57.0' | 2831 | 15°56.8' | 3024 | 41°16.4' | 2890 | 32°16.6' | 3265 |
| 11 | 72°53.9' | 3179 | 27°25.7' | 2836 | 16°26.7' | 3019 | 41°47.2' | 2893 | 32°44.9' | 3264 |
| 12 | 73°22.8' | 3184 | 26°54.5' | 2842 | 16°56.7' | 3016 | 42°18.0' | 2897 | 33°13.2' | 3263 |
| 13 | 73°51.6' | 3189 | 26°23.3' | 2847 | 17°26.6' | 3013 | 42°48.8' | 2900 | 33°41.5' | 3262 |
| 14 | 74°20.4' | 3195 | 25°52.2' | 2852 | 17°56.6' | 3011 | 43°19.6' | 2903 | 34°09.8' | 3261 |
| 15 | 74°49.1' | 3200 | 25°21.1' | 2858 | 18°26.6' | 3010 | 43°50.3' | 2907 | 34°38.1' | 3261 |
| 16 | 75°17.8' | 3205 | 24°50.0' | 2863 | 18°56.6' | 3009 | 44°21.1' | 2910 | 35°06.4' | 3261 |
| 17 | 75°46.5' | 3210 | 24°19.0' | 2868 | 19°26.6' | 3008 | 44°51.8' | 2914 | 35°34.8' | 3261 |
| 18 | 76°15.2' | 3215 | 23°48.0' | 2874 | 19°56.6' | 3008 | 45°22.4' | 2917 | 36°03.1' | 3261 |
| 19 | 76°43.8' | 3220 | 23°17.0' | 2879 | 20°26.6' | 3008 | 45°53.1' | 2920 | 36°31.4' | 3261 |
| 20 | 77°12.4' | 3225 | 22°46.1' | 2884 | 20°56.7' | 3008 | 46°23.7' | 2924 | 36°59.7' | 3261 |
| 21 | 77°40.9' | 3230 | 22°15.2' | 2890 | 21°26.7' | 3009 | 46°54.3' | 2927 | 37°28.0' | 3262 |
| 22 | 78°09.5' | 3235 | 21°44.4' | 2895 | 21°56.7' | 3009 | 47°24.9' | 2931 | 37°56.4' | 3262 |
| 23 | 78°37.9' | 3239 | 21°13.6' | 2901 | 22°26.7' | 3011 | 47°55.5' | 2934 | 38°24.7' | 3263 |

Sun Sep 16, 2018 UTC

| UTC | +Sun | | -Saturn | | +Jupiter | | +Spica | | -Mars | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 79°06.4' | 3244 | 20°42.8' | 2906 | 22°56.7' | 3012 | 48°26.0' | 2938 | 49°40.2' | 2991 |
| 1 | 79°34.8' | 3249 | 20°12.1' | 2912 | 23°26.7' | 3013 | 48°56.5' | 2941 | 49°10.1' | 2996 |
| 2 | 80°03.2' | 3253 | 19°41.4' | 2917 | 23°56.7' | 3015 | 49°27.0' | 2944 | 48°40.0' | 3001 |
| 3 | 80°31.6' | 3258 | 19°10.7' | 2923 | 24°26.6' | 3016 | 49°57.4' | 2948 | 48°09.9' | 3006 |
| 4 | 80°59.9' | 3263 | 18°40.1' | 2929 | 24°56.6' | 3018 | 50°27.9' | 2951 | 47°39.9' | 3010 |
| 5 | 81°28.2' | 3267 | 18°09.5' | 2934 | 25°26.5' | 3020 | 50°58.3' | 2954 | 47°09.9' | 3015 |
| 6 | 81°56.5' | 3272 | 17°39.0' | 2940 | 25°56.5' | 3022 | 51°28.7' | 2958 | 46°39.9' | 3020 |
| 7 | 82°24.8' | 3276 | 17°08.5' | 2946 | 26°26.4' | 3024 | 51°59.0' | 2961 | 46°10.0' | 3025 |
| 8 | 82°53.0' | 3280 | 16°38.1' | 2952 | 26°56.3' | 3026 | 52°29.4' | 2964 | 45°40.1' | 3030 |
| 9 | 83°21.2' | 3285 | 16°07.7' | 2959 | 27°26.2' | 3028 | 52°59.7' | 2968 | 45°10.2' | 3034 |
| 10 | 83°49.3' | 3289 | 15°37.3' | 2965 | 27°56.1' | 3030 | 53°30.0' | 2971 | 44°40.4' | 3039 |
| 11 | 84°17.5' | 3293 | 15°07.0' | 2972 | 28°25.9' | 3033 | 54°00.3' | 2974 | 44°10.6' | 3044 |
| 12 | 84°45.6' | 3297 | 14°36.7' | 2979 | 28°55.8' | 3035 | 54°30.5' | 2977 | 43°40.8' | 3048 |
| 13 | 85°13.7' | 3302 | 14°06.5' | 2986 | 29°25.6' | 3037 | 55°00.8' | 2980 | 43°11.1' | 3053 |
| 14 | 85°41.7' | 3306 | 13°36.3' | 2993 | 29°55.4' | 3040 | 55°31.0' | 2983 | 42°41.4' | 3057 |
| 15 | 86°09.7' | 3310 | 13°06.2' | 3001 | 30°25.2' | 3042 | 56°01.2' | 2987 | 42°11.7' | 3062 |
| 16 | 86°37.7' | 3314 | 12°36.2' | 3010 | 30°55.0' | 3045 | 56°31.3' | 2990 | 41°42.1' | 3066 |
| 17 | 87°05.7' | 3318 | 12°06.2' | 3019 | 31°24.8' | 3047 | 57°01.5' | 2993 | 41°12.4' | 3071 |
| 18 | 87°33.7' | 3321 | 11°36.2' | 3028 | 31°54.5' | 3049 | 57°31.6' | 2996 | 40°42.9' | 3075 |
| 19 | 88°01.6' | 3325 | 11°06.3' | 3039 | 32°24.2' | 3052 | 58°01.7' | 2999 | 40°13.3' | 3080 |
| 20 | 88°29.5' | 3329 | 10°36.5' | 3050 | 32°53.9' | 3054 | 58°31.8' | 3002 | 39°43.8' | 3084 |
| 21 | 88°57.4' | 3333 | 10°06.8' | 3063 | 33°23.6' | 3057 | 59°01.8' | 3004 | 39°14.3' | 3089 |
| 22 | 89°25.2' | 3336 | 9°37.2' | 3077 | 33°53.3' | 3059 | 59°31.9' | 3007 | 38°44.8' | 3093 |
| 23 | 89°53.1' | 3340 | 9°07.6' | 3093 | 34°23.0' | 3062 | 60°01.9' | 3010 | 38°15.4' | 3097 |

Mon Sep 17, 2018 UTC

| UTC | +Sun | | -Saturn | | +Jupiter | | -Mars | | +Antares | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 90°20.9' | 3344 | 8°38.2' | 3111 | 34°52.6' | 3064 | 37°46.0' | 3102 | 16°24.8' | 3694 |
| 1 | 90°48.7' | 3347 | 8°08.9' | 3132 | 35°22.3' | 3067 | 37°16.6' | 3106 | 16°50.4' | 3656 |
| 2 | 91°16.4' | 3351 | 7°39.7' | 3157 | 35°51.9' | 3069 | 36°47.3' | 3110 | 17°16.3' | 3622 |
| 3 | 91°44.2' | 3354 | 7°10.7' | 3186 | 36°21.5' | 3071 | 36°17.9' | 3115 | 17°42.3' | 3590 |
| 4 | 92°11.9' | 3357 | 6°41.9' | 3222 | 36°51.1' | 3074 | 35°48.7' | 3119 | 18°08.6' | 3561 |
| 5 | 92°39.6' | 3361 | 6°13.3' | 3266 | 37°20.6' | 3076 | 35°19.4' | 3123 | 18°35.0' | 3534 |
| 6 | 93°07.2' | 3364 | 5°45.0' | 3321 | 37°50.2' | 3078 | 34°50.2' | 3128 | 19°01.6' | 3510 |
| 7 | 93°34.9' | 3367 | 5°17.1' | 3392 | 38°19.7' | 3081 | 34°21.0' | 3132 | 19°28.3' | 3488 |
| 8 | 94°02.5' | 3370 | 4°49.6' | 3487 | 38°49.2' | 3083 | 33°51.8' | 3136 | 19°55.2' | 3467 |
| 9 | 94°30.1' | 3373 | 4°22.7' | 3616 | 39°18.7' | 3085 | 33°22.7' | 3140 | 20°22.2' | 3448 |
| 10 | 94°57.7' | 3376 | – | – | 39°48.2' | 3087 | 32°53.5' | 3145 | 20°49.4' | 3430 |
| 11 | 95°25.3' | 3379 | – | – | 40°17.7' | 3090 | 32°24.5' | 3149 | 21°16.6' | 3414 |
| 12 | 95°52.9' | 3382 | – | – | 40°47.1' | 3092 | 31°55.4' | 3153 | 21°43.9' | 3399 |
| 13 | 96°20.4' | 3385 | – | – | 41°16.6' | 3094 | 31°26.4' | 3158 | 22°11.4' | 3385 |
| 14 | 96°47.9' | 3388 | – | – | 41°46.0' | 3096 | 30°57.4' | 3162 | 22°38.9' | 3372 |
| 15 | 97°15.4' | 3391 | – | – | 42°15.4' | 3098 | 30°28.4' | 3166 | 23°06.5' | 3360 |
| 16 | 97°42.9' | 3393 | – | – | 42°44.8' | 3100 | 29°59.5' | 3171 | 23°34.2' | 3348 |
| 17 | 98°10.4' | 3396 | – | – | 43°14.2' | 3102 | 29°30.6' | 3175 | 24°01.9' | 3338 |
| 18 | 98°37.8' | 3399 | – | – | 43°43.6' | 3104 | 29°01.7' | 3180 | 24°29.7' | 3328 |
| 19 | 99°05.3' | 3401 | – | – | 44°12.9' | 3106 | 28°32.8' | 3184 | 24°57.6' | 3319 |
| 20 | 99°32.7' | 3404 | – | – | 44°42.3' | 3108 | 28°04.0' | 3189 | 25°25.6' | 3311 |
| 21 | 100°00.1' | 3406 | – | – | 45°11.6' | 3110 | 27°35.2' | 3194 | 25°53.6' | 3303 |
| 22 | 100°27.5' | 3409 | – | – | 45°40.9' | 3111 | 27°06.4' | 3198 | 26°21.6' | 3295 |
| 23 | 100°54.8' | 3411 | – | – | 46°10.3' | 3113 | 26°37.7' | 3203 | 26°49.7' | 3288 |

Tue Sep 18, 2018 UTC

| UTC | +Sun | | -Mars | | +Antares | | +Jupiter | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 101°22.2' | 3413 | 26°09.0' | 3208 | 27°17.8' | 3282 | 46°39.6' | 3115 | 72°26.7' | 3068 |
| 1 | 101°49.5' | 3415 | 25°40.4' | 3213 | 27°46.0' | 3276 | 47°08.8' | 3117 | 72°56.3' | 3070 |
| 2 | 102°16.9' | 3418 | 25°11.7' | 3218 | 28°14.2' | 3270 | 47°38.1' | 3118 | 73°25.9' | 3072 |
| 3 | 102°44.2' | 3420 | 24°43.1' | 3223 | 28°42.5' | 3264 | 48°07.4' | 3120 | 73°55.5' | 3074 |
| 4 | 103°11.5' | 3422 | 24°14.6' | 3229 | 29°10.8' | 3259 | 48°36.6' | 3121 | 74°25.1' | 3075 |
| 5 | 103°38.8' | 3424 | 23°46.0' | 3234 | 29°39.1' | 3254 | 49°05.9' | 3123 | 74°54.6' | 3077 |
| 6 | 104°06.0' | 3426 | 23°17.5' | 3240 | 30°07.5' | 3250 | 49°35.1' | 3124 | 75°24.2' | 3078 |
| 7 | 104°33.3' | 3428 | 22°49.1' | 3246 | 30°35.9' | 3245 | 50°04.3' | 3126 | 75°53.7' | 3080 |
| 8 | 105°00.6' | 3429 | 22°20.7' | 3252 | 31°04.3' | 3241 | 50°33.5' | 3127 | 76°23.2' | 3081 |
| 9 | 105°27.8' | 3431 | 21°52.3' | 3258 | 31°32.8' | 3237 | 51°02.7' | 3129 | 76°52.7' | 3083 |
| 10 | 105°55.0' | 3433 | 21°24.0' | 3265 | 32°01.2' | 3234 | 51°31.9' | 3130 | 77°22.2' | 3084 |
| 11 | 106°22.2' | 3435 | 20°55.7' | 3272 | 32°29.7' | 3230 | 52°01.1' | 3131 | 77°51.7' | 3086 |
| 12 | 106°49.5' | 3436 | 20°27.4' | 3279 | 32°58.2' | 3227 | 52°30.3' | 3132 | 78°21.2' | 3087 |
| 13 | 107°16.7' | 3438 | 19°59.2' | 3287 | 33°26.8' | 3224 | 52°59.5' | 3134 | 78°50.7' | 3088 |
| 14 | 107°43.8' | 3439 | 19°31.1' | 3295 | 33°55.3' | 3221 | 53°28.6' | 3135 | 79°20.2' | 3089 |
| 15 | 108°11.0' | 3441 | 19°03.0' | 3303 | 34°23.9' | 3218 | 53°57.8' | 3136 | 79°49.6' | 3090 |
| 16 | 108°38.2' | 3442 | 18°34.9' | 3312 | 34°52.5' | 3215 | 54°26.9' | 3137 | 80°19.1' | 3092 |
| 17 | 109°05.3' | 3444 | 18°06.9' | 3322 | 35°21.1' | 3212 | 54°56.1' | 3138 | 80°48.5' | 3093 |
| 18 | 109°32.5' | 3445 | 17°39.0' | 3332 | 35°49.8' | 3210 | 55°25.2' | 3139 | 81°17.9' | 3094 |
| 19 | 109°59.6' | 3446 | 17°11.2' | 3342 | 36°18.4' | 3207 | 55°54.3' | 3140 | 81°47.4' | 3095 |
| 20 | 110°26.8' | 3447 | 16°43.4' | 3354 | 36°47.1' | 3205 | 56°23.4' | 3140 | 82°16.8' | 3095 |
| 21 | 110°53.9' | 3449 | 16°15.7' | 3367 | 37°15.8' | 3203 | 56°52.6' | 3141 | 82°46.2' | 3096 |
| 22 | 111°21.0' | 3450 | 15°48.0' | 3380 | 37°44.5' | 3201 | 57°21.7' | 3142 | 83°15.6' | 3097 |
| 23 | 111°48.1' | 3451 | 15°20.5' | 3395 | 38°13.2' | 3199 | 57°50.8' | 3143 | 83°45.0' | 3098 |

Wed Sep 19, 2018 UTC

| UTC | +Sun | | +Saturn | | -Mars | | +Antares | | +Jupiter | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 112°15.2' | 3452 | 15°37.3' | 3110 | 14°53.0' | 3411 | 38°41.9' | 3196 | 58°19.9' | 3143 |
| 1 | 112°42.3' | 3453 | 16°06.6' | 3109 | 14°25.6' | 3428 | 39°10.7' | 3194 | 58°49.0' | 3144 |
| 2 | 113°09.4' | 3454 | 16°36.0' | 3108 | 13°58.4' | 3447 | 39°39.4' | 3193 | 59°18.1' | 3145 |
| 3 | 113°36.5' | 3454 | 17°05.3' | 3106 | 13°31.3' | 3468 | 40°08.2' | 3191 | 59°47.1' | 3145 |
| 4 | 114°03.6' | 3455 | 17°34.7' | 3105 | 13°04.3' | 3492 | 40°37.0' | 3189 | 60°16.2' | 3146 |
| 5 | 114°30.7' | 3456 | 18°04.0' | 3104 | 12°37.4' | 3517 | 41°05.7' | 3187 | 60°45.3' | 3146 |
| 6 | 114°57.8' | 3457 | 18°33.4' | 3104 | 12°10.7' | 3546 | 41°34.6' | 3185 | 61°14.4' | 3147 |
| 7 | 115°24.8' | 3457 | 19°02.7' | 3103 | 11°44.2' | 3578 | 42°03.4' | 3183 | 61°43.4' | 3147 |
| 8 | 115°51.9' | 3458 | 19°32.1' | 3102 | 11°17.9' | 3615 | 42°32.2' | 3182 | 62°12.5' | 3147 |
| 9 | 116°19.0' | 3458 | 20°01.5' | 3101 | 10°51.8' | 3656 | 43°01.0' | 3180 | 62°41.6' | 3148 |
| 10 | 116°46.0' | 3459 | 20°30.8' | 3100 | 10°25.9' | 3703 | 43°29.9' | 3178 | 63°10.7' | 3148 |
| 11 | 117°13.1' | 3459 | 21°00.2' | 3100 | 10°00.4' | 3756 | 43°58.7' | 3177 | 63°39.7' | 3148 |
| 12 | 117°40.1' | 3460 | 21°29.6' | 3099 | 9°35.1' | 3817 | 44°27.6' | 3175 | 64°08.8' | 3148 |
| 13 | 118°07.2' | 3460 | 21°59.0' | 3099 | 9°10.2' | 3889 | 44°56.5' | 3174 | 64°37.8' | 3148 |
| 14 | 118°34.2' | 3460 | 22°28.4' | 3098 | 8°45.7' | 3972 | 45°25.4' | 3172 | 65°06.9' | 3148 |
| 15 | 119°01.3' | 3461 | 22°57.8' | 3097 | 8°21.6' | 4069 | 45°54.3' | 3170 | 65°36.0' | 3148 |
| 16 | 119°28.3' | 3461 | 23°27.2' | 3097 | 7°58.1' | 4184 | 46°23.2' | 3169 | 66°05.0' | 3148 |
| 17 | 119°55.4' | 3461 | 23°56.6' | 3096 | 7°35.2' | 4321 | 46°52.1' | 3167 | 66°34.1' | 3148 |
| 18 | 120°22.4' | 3461 | 24°26.0' | 3095 | – | – | 47°21.1' | 3166 | 67°03.2' | 3148 |
| 19 | 120°49.4' | 3461 | 24°55.5' | 3095 | – | – | 47°50.0' | 3164 | 67°32.2' | 3148 |
| 20 | 121°16.5' | 3461 | 25°24.9' | 3094 | – | – | 48°19.0' | 3163 | 68°01.3' | 3148 |
| 21 | 121°43.5' | 3461 | 25°54.3' | 3093 | – | – | 48°47.9' | 3161 | 68°30.4' | 3147 |
| 22 | 122°10.6' | 3461 | 26°23.7' | 3093 | – | – | 49°16.9' | 3159 | 68°59.4' | 3147 |
| 23 | 122°37.6' | 3461 | 26°53.2' | 3092 | – | – | 49°45.9' | 3158 | 69°28.5' | 3147 |

Thu Sep 20, 2018 UTC

| UTC | +Saturn | | +Antares | | +Jupiter | | -Formalhaut | | +Spica | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 27°22.6' | 3091 | 50°14.9' | 3156 | 69°57.6' | 3146 | 39°38.3' | 3698 | 95°59.2' | 3104 |
| 1 | 27°52.1' | 3090 | 50°43.9' | 3155 | 70°26.6' | 3146 | 39°12.7' | 3711 | 96°28.6' | 3104 |
| 2 | 28°21.5' | 3090 | 51°12.9' | 3153 | 70°55.7' | 3145 | 38°47.2' | 3724 | 96°57.9' | 3103 |
| 3 | 28°51.0' | 3089 | 51°42.0' | 3152 | 71°24.8' | 3145 | 38°21.7' | 3738 | 97°27.3' | 3103 |
| 4 | 29°20.4' | 3088 | 52°11.0' | 3150 | 71°53.9' | 3144 | 37°56.4' | 3753 | 97°56.6' | 3102 |
| 5 | 29°49.9' | 3087 | 52°40.0' | 3148 | 72°23.0' | 3144 | 37°31.1' | 3768 | 98°26.0' | 3102 |
| 6 | 30°19.4' | 3086 | 53°09.1' | 3147 | 72°52.1' | 3143 | 37°05.9' | 3783 | 98°55.4' | 3102 |
| 7 | 30°48.8' | 3085 | 53°38.2' | 3145 | 73°21.2' | 3143 | 36°40.8' | 3800 | 99°24.8' | 3101 |
| 8 | 31°18.3' | 3085 | 54°07.3' | 3144 | 73°50.3' | 3142 | 36°15.8' | 3817 | 99°54.1' | 3100 |
| 9 | 31°47.8' | 3084 | 54°36.4' | 3142 | 74°19.4' | 3141 | 35°50.9' | 3834 | 100°23.5' | 3100 |
| 10 | 32°17.3' | 3083 | 55°05.5' | 3140 | 74°48.5' | 3140 | 35°26.0' | 3852 | 100°52.9' | 3099 |
| 11 | 32°46.8' | 3082 | 55°34.6' | 3139 | 75°17.6' | 3140 | 35°01.3' | 3871 | 101°22.3' | 3099 |
| 12 | 33°16.3' | 3081 | 56°03.7' | 3137 | 75°46.7' | 3139 | 34°36.7' | 3891 | 101°51.7' | 3098 |
| 13 | 33°45.9' | 3079 | 56°32.8' | 3135 | 76°15.8' | 3138 | 34°12.2' | 3912 | 102°21.1' | 3097 |
| 14 | 34°15.4' | 3078 | 57°02.0' | 3133 | 76°45.0' | 3137 | 33°47.9' | 3933 | 102°50.5' | 3096 |
| 15 | 34°44.9' | 3077 | 57°31.2' | 3132 | 77°14.1' | 3136 | 33°23.6' | 3956 | 103°19.9' | 3096 |
| 16 | 35°14.5' | 3076 | 58°00.3' | 3130 | 77°43.3' | 3135 | 32°59.5' | 3979 | 103°49.3' | 3095 |
| 17 | 35°44.0' | 3075 | 58°29.5' | 3128 | 78°12.4' | 3134 | 32°35.5' | 4003 | 104°18.8' | 3094 |
| 18 | 36°13.6' | 3074 | 58°58.7' | 3126 | 78°41.6' | 3133 | 32°11.6' | 4029 | 104°48.2' | 3093 |
| 19 | 36°43.1' | 3072 | 59°27.9' | 3125 | 79°10.7' | 3132 | 31°47.9' | 4055 | 105°17.6' | 3092 |
| 20 | 37°12.7' | 3071 | 59°57.1' | 3123 | 79°39.9' | 3130 | 31°24.3' | 4083 | 105°47.1' | 3091 |
| 21 | 37°42.3' | 3070 | 60°26.4' | 3121 | 80°09.1' | 3129 | 31°00.9' | 4112 | 106°16.5' | 3090 |
| 22 | 38°11.9' | 3069 | 60°55.6' | 3119 | 80°38.3' | 3128 | 30°37.6' | 4143 | 106°46.0' | 3089 |
| 23 | 38°41.5' | 3067 | 61°24.9' | 3117 | 81°07.5' | 3127 | 30°14.5' | 4175 | 107°15.4' | 3088 |

Fri Sep 21, 2018 UTC

| UTC | +Saturn | | +Mars | | +Antares | | +Jupiter | | -Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 39°11.1' | 3066 | 10°09.3' | 3670 | 61°54.1' | 3115 | 81°36.7' | 3125 | 29°51.5' | 4208 |
| 1 | 39°40.7' | 3064 | 10°35.1' | 3625 | 62°23.4' | 3113 | 82°05.9' | 3124 | 29°28.7' | 4244 |
| 2 | 40°10.3' | 3063 | 11°01.1' | 3585 | 62°52.7' | 3112 | 82°35.1' | 3123 | 29°06.2' | 4280 |
| 3 | 40°40.0' | 3061 | 11°27.4' | 3549 | 63°22.0' | 3110 | 83°04.4' | 3121 | 28°43.8' | 4319 |
| 4 | 41°09.6' | 3060 | 11°53.9' | 3517 | 63°51.3' | 3108 | 83°33.6' | 3120 | 28°21.6' | 4360 |
| 5 | 41°39.3' | 3058 | 12°20.6' | 3489 | 64°20.7' | 3106 | 84°02.8' | 3118 | 27°59.6' | 4403 |
| 6 | 42°09.0' | 3057 | 12°47.5' | 3463 | 64°50.0' | 3104 | 84°32.1' | 3117 | 27°37.8' | 4448 |
| 7 | 42°38.6' | 3055 | 13°14.5' | 3440 | 65°19.4' | 3102 | 85°01.4' | 3115 | 27°16.3' | 4495 |
| 8 | 43°08.3' | 3053 | 13°41.7' | 3419 | 65°48.8' | 3100 | 85°30.7' | 3114 | 26°55.0' | 4545 |
| 9 | 43°38.0' | 3052 | 14°09.0' | 3400 | 66°18.2' | 3098 | 85°60.0' | 3112 | 26°33.9' | 4598 |
| 10 | 44°07.7' | 3050 | 14°36.4' | 3383 | 66°47.6' | 3096 | 86°29.3' | 3111 | 26°13.1' | 4654 |
| 11 | 44°37.5' | 3048 | 15°03.9' | 3367 | 67°17.0' | 3093 | 86°58.6' | 3109 | 25°52.5' | 4713 |
| 12 | 45°07.2' | 3047 | 15°31.6' | 3352 | 67°46.4' | 3091 | 87°27.9' | 3107 | 25°32.3' | 4775 |
| 13 | 45°37.0' | 3045 | 15°59.3' | 3338 | 68°15.9' | 3089 | 87°57.2' | 3106 | 25°12.3' | 4841 |
| 14 | 46°06.7' | 3043 | 16°27.1' | 3326 | 68°45.3' | 3087 | 88°26.6' | 3104 | 24°52.6' | 4910 |
| 15 | 46°36.5' | 3041 | 16°55.0' | 3314 | 69°14.8' | 3085 | 88°56.0' | 3102 | 24°33.2' | 4984 |
| 16 | 47°06.3' | 3039 | 17°23.0' | 3303 | 69°44.3' | 3083 | 89°25.3' | 3100 | 24°14.2' | 5062 |
| 17 | 47°36.1' | 3037 | 17°51.0' | 3292 | 70°13.8' | 3081 | 89°54.7' | 3098 | 23°55.5' | 5145 |
| 18 | 48°05.9' | 3036 | 18°19.1' | 3283 | 70°43.3' | 3078 | 90°24.1' | 3097 | 23°37.1' | 5233 |
| 19 | 48°35.7' | 3034 | 18°47.3' | 3274 | 71°12.8' | 3076 | 90°53.5' | 3095 | 23°19.2' | 5327 |
| 20 | 49°05.6' | 3032 | 19°15.6' | 3265 | 71°42.4' | 3074 | 91°22.9' | 3093 | 23°01.6' | 5426 |
| 21 | 49°35.4' | 3030 | 19°43.9' | 3257 | 72°11.9' | 3072 | 91°52.4' | 3091 | 22°44.4' | 5532 |
| 22 | 50°05.3' | 3028 | 20°12.2' | 3249 | 72°41.5' | 3069 | 92°21.8' | 3089 | 22°27.6' | 5645 |
| 23 | 50°35.2' | 3026 | 20°40.6' | 3242 | 73°11.1' | 3067 | 92°51.3' | 3087 | 22°11.2' | 5766 |

Sat Sep 22, 2018 UTC

| UTC | +Mars | | +Saturn | | +Antares | | +Jupiter | | -Aldebaran | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 21°09.0' | 3235 | 51°05.1' | 3024 | 73°40.7' | 3065 | 93°20.8' | 3085 | 106°01.4' | 3011 |
| 1 | 21°37.5' | 3228 | 51°35.0' | 3021 | 74°10.4' | 3062 | 93°50.3' | 3083 | 105°31.4' | 3009 |
| 2 | 22°06.1' | 3221 | 52°04.9' | 3019 | 74°40.0' | 3060 | 94°19.8' | 3081 | 105°01.4' | 3007 |
| 3 | 22°34.6' | 3215 | 52°34.8' | 3017 | 75°09.7' | 3058 | 94°49.3' | 3079 | 104°31.4' | 3005 |
| 4 | 23°03.3' | 3209 | 53°04.8' | 3015 | 75°39.3' | 3055 | 95°18.8' | 3076 | 104°01.4' | 3003 |
| 5 | 23°31.9' | 3203 | 53°34.8' | 3013 | 76°09.0' | 3053 | 95°48.4' | 3074 | 103°31.3' | 3000 |
| 6 | 24°00.6' | 3198 | 54°04.7' | 3011 | 76°38.7' | 3051 | 96°17.9' | 3072 | 103°01.3' | 2998 |
| 7 | 24°29.3' | 3192 | 54°34.7' | 3008 | 77°08.4' | 3048 | 96°47.5' | 3070 | 102°31.2' | 2996 |
| 8 | 24°58.1' | 3187 | 55°04.7' | 3006 | 77°38.2' | 3046 | 97°17.1' | 3068 | 102°01.1' | 2994 |
| 9 | 25°26.9' | 3182 | 55°34.8' | 3004 | 78°07.9' | 3043 | 97°46.7' | 3065 | 101°31.0' | 2992 |
| 10 | 25°55.7' | 3177 | 56°04.8' | 3002 | 78°37.7' | 3041 | 98°16.3' | 3063 | 101°00.8' | 2989 |
| 11 | 26°24.6' | 3172 | 56°34.9' | 2999 | 79°07.5' | 3038 | 98°45.9' | 3061 | 100°30.7' | 2987 |
| 12 | 26°53.5' | 3167 | 57°05.0' | 2997 | 79°37.3' | 3036 | 99°15.6' | 3059 | 100°00.5' | 2985 |
| 13 | 27°22.5' | 3163 | 57°35.1' | 2995 | 80°07.1' | 3033 | 99°45.3' | 3056 | 99°30.3' | 2982 |
| 14 | 27°51.4' | 3158 | 58°05.2' | 2992 | 80°37.0' | 3031 | 100°15.0' | 3054 | 99°00.2' | 2980 |
| 15 | 28°20.4' | 3154 | 58°35.3' | 2990 | 81°06.8' | 3028 | 100°44.7' | 3052 | 98°29.9' | 2978 |
| 16 | 28°49.4' | 3150 | 59°05.4' | 2987 | 81°36.7' | 3026 | 101°14.4' | 3049 | 97°59.7' | 2975 |
| 17 | 29°18.5' | 3145 | 59°35.6' | 2985 | 82°06.6' | 3023 | 101°44.1' | 3047 | 97°29.5' | 2973 |
| 18 | 29°47.6' | 3141 | 60°05.8' | 2982 | 82°36.5' | 3021 | 102°13.8' | 3044 | 96°59.2' | 2970 |
| 19 | 30°16.7' | 3137 | 60°36.0' | 2980 | 83°06.5' | 3018 | 102°43.6' | 3042 | 96°28.9' | 2968 |
| 20 | 30°45.8' | 3133 | 61°06.2' | 2977 | 83°36.4' | 3015 | 103°13.4' | 3040 | 95°58.6' | 2965 |
| 21 | 31°15.0' | 3129 | 61°36.4' | 2975 | 84°06.4' | 3013 | 103°43.2' | 3037 | 95°28.3' | 2963 |
| 22 | 31°44.2' | 3125 | 62°06.6' | 2972 | 84°36.3' | 3010 | 104°13.0' | 3035 | 94°58.0' | 2960 |
| 23 | 32°13.4' | 3121 | 62°36.9' | 2970 | 85°06.3' | 3008 | 104°42.8' | 3032 | 94°27.7' | 2958 |

Sun Sep 23, 2018 UTC

| UTC | +Mars | | +Saturn | | +Antares | | -Aldebaran | | +Jupiter | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 32°42.6' | 3117 | 63°07.2' | 2967 | 85°36.4' | 3005 | 93°57.3' | 2955 | 105°12.7' | 3030 |
| 1 | 33°11.9' | 3113 | 63°37.5' | 2965 | 86°06.4' | 3002 | 93°26.9' | 2953 | 105°42.6' | 3027 |
| 2 | 33°41.2' | 3110 | 64°07.8' | 2962 | 86°36.5' | 3000 | 92°56.5' | 2950 | 106°12.4' | 3025 |
| 3 | 34°10.5' | 3106 | 64°38.1' | 2959 | 87°06.5' | 2997 | 92°26.1' | 2948 | 106°42.3' | 3022 |
| 4 | 34°39.9' | 3102 | 65°08.5' | 2957 | 87°36.6' | 2994 | 91°55.7' | 2945 | 107°12.3' | 3019 |
| 5 | 35°09.2' | 3099 | 65°38.9' | 2954 | 88°06.7' | 2992 | 91°25.2' | 2942 | 107°42.2' | 3017 |
| 6 | 35°38.6' | 3095 | 66°09.2' | 2952 | 88°36.9' | 2989 | 90°54.7' | 2940 | 108°12.2' | 3014 |
| 7 | 36°08.1' | 3091 | 66°39.7' | 2949 | 89°07.0' | 2986 | 90°24.2' | 2937 | 108°42.1' | 3012 |
| 8 | 36°37.5' | 3088 | 67°10.1' | 2946 | 89°37.2' | 2984 | 89°53.7' | 2934 | 109°12.1' | 3009 |
| 9 | 37°07.0' | 3084 | 67°40.5' | 2944 | 90°07.4' | 2981 | 89°23.2' | 2932 | 109°42.1' | 3006 |
| 10 | 37°36.5' | 3081 | 68°11.0' | 2941 | 90°37.6' | 2978 | 88°52.7' | 2929 | 110°12.2' | 3004 |
| 11 | 38°06.0' | 3077 | 68°41.5' | 2938 | 91°07.8' | 2976 | 88°22.1' | 2926 | 110°42.2' | 3001 |
| 12 | 38°35.5' | 3073 | 69°12.0' | 2935 | 91°38.0' | 2973 | 87°51.5' | 2924 | 111°12.3' | 2998 |
| 13 | 39°05.1' | 3070 | 69°42.5' | 2933 | 92°08.3' | 2970 | 87°20.9' | 2921 | 111°42.3' | 2996 |
| 14 | 39°34.7' | 3067 | 70°13.0' | 2930 | 92°38.6' | 2967 | 86°50.3' | 2918 | 112°12.4' | 2993 |
| 15 | 40°04.3' | 3063 | 70°43.6' | 2927 | 93°08.9' | 2965 | 86°19.6' | 2915 | 112°42.6' | 2990 |
| 16 | 40°33.9' | 3060 | 71°14.2' | 2924 | 93°39.2' | 2962 | 85°49.0' | 2913 | 113°12.7' | 2988 |
| 17 | 41°03.6' | 3056 | 71°44.8' | 2921 | 94°09.5' | 2959 | 85°18.3' | 2910 | 113°42.9' | 2985 |
| 18 | 41°33.3' | 3053 | 72°15.4' | 2919 | 94°39.9' | 2957 | 84°47.6' | 2907 | 114°13.0' | 2982 |
| 19 | 42°03.0' | 3049 | 72°46.0' | 2916 | 95°10.2' | 2954 | 84°16.9' | 2904 | 114°43.2' | 2980 |
| 20 | 42°32.7' | 3046 | 73°16.7' | 2913 | 95°40.6' | 2951 | 83°46.1' | 2901 | 115°13.4' | 2977 |
| 21 | 43°02.5' | 3043 | 73°47.4' | 2910 | 96°11.0' | 2948 | 83°15.3' | 2898 | 115°43.7' | 2974 |
| 22 | 43°32.3' | 3039 | 74°18.1' | 2907 | 96°41.5' | 2946 | 82°44.6' | 2896 | 116°13.9' | 2971 |
| 23 | 44°02.1' | 3036 | 74°48.8' | 2905 | 97°11.9' | 2943 | 82°13.8' | 2893 | 116°44.2' | 2969 |

Mon Sep 24, 2018 UTC

| UTC | +Mars | | +Saturn | | -Aldebaran | | +Antares | | -Betelgeuse | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 44°31.9' | 3033 | 75°19.5' | 2902 | 81°42.9' | 2890 | 97°42.4' | 2940 | 99°31.8' | 3005 |
| 1 | 45°01.7' | 3029 | 75°50.3' | 2899 | 81°12.1' | 2887 | 98°12.9' | 2937 | 99°01.8' | 3002 |
| 2 | 45°31.6' | 3026 | 76°21.1' | 2896 | 80°41.2' | 2884 | 98°43.4' | 2935 | 98°31.7' | 2999 |
| 3 | 46°01.5' | 3023 | 76°51.9' | 2893 | 80°10.3' | 2881 | 99°13.9' | 2932 | 98°01.7' | 2996 |
| 4 | 46°31.4' | 3019 | 77°22.7' | 2890 | 79°39.4' | 2878 | 99°44.5' | 2929 | 97°31.6' | 2992 |
| 5 | 47°01.4' | 3016 | 77°53.5' | 2887 | 79°08.5' | 2876 | 100°15.0' | 2926 | 97°01.4' | 2989 |
| 6 | 47°31.3' | 3013 | 78°24.4' | 2884 | 78°37.6' | 2873 | 100°45.6' | 2924 | 96°31.3' | 2986 |
| 7 | 48°01.3' | 3009 | 78°55.3' | 2881 | 78°06.6' | 2870 | 101°16.2' | 2921 | 96°01.1' | 2983 |
| 8 | 48°31.3' | 3006 | 79°26.2' | 2879 | 77°35.6' | 2867 | 101°46.8' | 2918 | 95°30.9' | 2980 |
| 9 | 49°01.3' | 3003 | 79°57.1' | 2876 | 77°04.6' | 2864 | 102°17.5' | 2915 | 95°00.7' | 2977 |
| 10 | 49°31.4' | 2999 | 80°28.1' | 2873 | 76°33.6' | 2861 | 102°48.1' | 2913 | 94°30.5' | 2974 |
| 11 | 50°01.5' | 2996 | 80°59.0' | 2870 | 76°02.5' | 2858 | 103°18.8' | 2910 | 94°00.2' | 2971 |
| 12 | 50°31.6' | 2993 | 81°30.0' | 2867 | 75°31.5' | 2855 | 103°49.5' | 2907 | 93°30.0' | 2968 |
| 13 | 51°01.7' | 2990 | 82°01.0' | 2864 | 75°00.4' | 2852 | 104°20.2' | 2905 | 92°59.7' | 2965 |
| 14 | 51°31.8' | 2986 | 82°32.1' | 2861 | 74°29.3' | 2849 | 104°51.0' | 2902 | 92°29.3' | 2962 |
| 15 | 52°02.0' | 2983 | 83°03.1' | 2858 | 73°58.1' | 2846 | 105°21.7' | 2899 | 91°59.0' | 2959 |
| 16 | 52°32.2' | 2980 | 83°34.2' | 2855 | 73°27.0' | 2843 | 105°52.5' | 2897 | 91°28.6' | 2956 |
| 17 | 53°02.4' | 2977 | 84°05.3' | 2852 | 72°55.8' | 2840 | 106°23.3' | 2894 | 90°58.3' | 2953 |
| 18 | 53°32.6' | 2973 | 84°36.4' | 2849 | 72°24.6' | 2837 | 106°54.1' | 2891 | 90°27.9' | 2950 |
| 19 | 54°02.9' | 2970 | 85°07.5' | 2846 | 71°53.4' | 2835 | 107°25.0' | 2889 | 89°57.4' | 2947 |
| 20 | 54°33.2' | 2967 | 85°38.7' | 2843 | 71°22.1' | 2832 | 107°55.8' | 2886 | 89°27.0' | 2944 |
| 21 | 55°03.5' | 2964 | 86°09.8' | 2840 | 70°50.9' | 2829 | 108°26.7' | 2883 | 88°56.5' | 2941 |
| 22 | 55°33.8' | 2961 | 86°41.0' | 2837 | 70°19.6' | 2826 | 108°57.6' | 2881 | 88°26.1' | 2938 |
| 23 | 56°04.1' | 2957 | 87°12.3' | 2834 | 69°48.3' | 2823 | 109°28.5' | 2878 | 87°55.5' | 2935 |

Tue Sep 25, 2018 UTC

| UTC | +Mars | | -Aldebaran | | +Saturn | | -Betelgeuse | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 56°34.5' | 2954 | 69°17.0' | 2820 | 87°43.5' | 2831 | 87°25.0' | 2932 | 30°41.3' | 3871 |
| 1 | 57°04.9' | 2951 | 68°45.6' | 2817 | 88°14.8' | 2828 | 86°54.5' | 2929 | 31°05.9' | 3836 |
| 2 | 57°35.3' | 2948 | 68°14.3' | 2814 | 88°46.0' | 2825 | 86°23.9' | 2926 | 31°30.7' | 3803 |
| 3 | 58°05.7' | 2945 | 67°42.9' | 2811 | 89°17.3' | 2822 | 85°53.3' | 2924 | 31°55.7' | 3771 |
| 4 | 58°36.2' | 2941 | 67°11.5' | 2808 | 89°48.7' | 2820 | 85°22.7' | 2921 | 32°20.9' | 3740 |
| 5 | 59°06.7' | 2938 | 66°40.0' | 2805 | 90°20.0' | 2817 | 84°52.1' | 2918 | 32°46.2' | 3711 |
| 6 | 59°37.2' | 2935 | 66°08.6' | 2802 | 90°51.4' | 2814 | 84°21.5' | 2915 | 33°11.8' | 3683 |
| 7 | 60°07.7' | 2932 | 65°37.1' | 2799 | 91°22.8' | 2811 | 83°50.8' | 2912 | 33°37.5' | 3656 |
| 8 | 60°38.2' | 2929 | 65°05.6' | 2796 | 91°54.2' | 2808 | 83°20.1' | 2910 | 34°03.3' | 3629 |
| 9 | 61°08.8' | 2926 | 64°34.1' | 2793 | 92°25.6' | 2805 | 82°49.4' | 2907 | 34°29.3' | 3604 |
| 10 | 61°39.4' | 2922 | 64°02.5' | 2790 | 92°57.1' | 2802 | 82°18.7' | 2904 | 34°55.5' | 3580 |
| 11 | 62°10.0' | 2919 | 63°31.0' | 2787 | 93°28.6' | 2799 | 81°47.9' | 2902 | 35°21.8' | 3557 |
| 12 | 62°40.6' | 2916 | 62°59.4' | 2784 | 94°00.1' | 2796 | 81°17.2' | 2899 | 35°48.3' | 3534 |
| 13 | 63°11.3' | 2913 | 62°27.8' | 2781 | 94°31.6' | 2793 | 80°46.4' | 2896 | 36°14.9' | 3512 |
| 14 | 63°42.0' | 2910 | 61°56.2' | 2778 | 95°03.1' | 2790 | 80°15.6' | 2894 | 36°41.6' | 3491 |
| 15 | 64°12.7' | 2907 | 61°24.5' | 2775 | 95°34.7' | 2787 | 79°44.8' | 2891 | 37°08.4' | 3471 |
| 16 | 64°43.4' | 2904 | 60°52.9' | 2772 | 96°06.3' | 2784 | 79°14.0' | 2889 | 37°35.4' | 3452 |
| 17 | 65°14.1' | 2901 | 60°21.2' | 2769 | 96°37.9' | 2781 | 78°43.1' | 2886 | 38°02.5' | 3433 |
| 18 | 65°44.9' | 2898 | 59°49.4' | 2766 | 97°09.5' | 2778 | 78°12.2' | 2884 | 38°29.7' | 3414 |
| 19 | 66°15.7' | 2894 | 59°17.7' | 2763 | 97°41.1' | 2775 | 77°41.3' | 2881 | 38°57.1' | 3397 |
| 20 | 66°46.5' | 2891 | 58°46.0' | 2760 | 98°12.8' | 2772 | 77°10.4' | 2879 | 39°24.5' | 3379 |
| 21 | 67°17.3' | 2888 | 58°14.2' | 2757 | 98°44.5' | 2769 | 76°39.5' | 2876 | 39°52.1' | 3363 |
| 22 | 67°48.2' | 2885 | 57°42.4' | 2754 | 99°16.2' | 2766 | 76°08.6' | 2874 | 40°19.7' | 3347 |
| 23 | 68°19.1' | 2882 | 57°10.6' | 2751 | 99°48.0' | 2763 | 75°37.6' | 2871 | 40°47.5' | 3331 |

Wed Sep 26, 2018 UTC

| UTC | −Aldebaran | | +Mars | | +Formalhaut | | −Betelgeuse | | +Saturn | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 56°38.7′ | 2748 | 68°50.0′ | 2879 | 41°15.4′ | 3316 | 75°06.6′ | 2869 | 100°19.7′ | 2760 |
| 1 | 56°06.9′ | 2745 | 69°20.9′ | 2876 | 41°43.3′ | 3301 | 74°35.7′ | 2867 | 100°51.5′ | 2757 |
| 2 | 55°35.0′ | 2743 | 69°51.8′ | 2873 | 42°11.4′ | 3287 | 74°04.6′ | 2864 | 101°23.3′ | 2754 |
| 3 | 55°03.1′ | 2740 | 70°22.8′ | 2870 | 42°39.5′ | 3273 | 73°33.6′ | 2862 | 101°55.1′ | 2751 |
| 4 | 54°31.1′ | 2737 | 70°53.8′ | 2867 | 43°07.8′ | 3259 | 73°02.6′ | 2860 | 102°27.0′ | 2748 |
| 5 | 53°59.2′ | 2734 | 71°24.8′ | 2864 | 43°36.1′ | 3246 | 72°31.5′ | 2858 | 102°58.8′ | 2745 |
| 6 | 53°27.2′ | 2731 | 71°55.8′ | 2861 | 44°04.5′ | 3233 | 72°00.5′ | 2856 | 103°30.7′ | 2743 |
| 7 | 52°55.2′ | 2728 | 72°26.9′ | 2858 | 44°33.0′ | 3221 | 71°29.4′ | 2853 | 104°02.6′ | 2740 |
| 8 | 52°23.2′ | 2725 | 72°58.0′ | 2855 | 45°01.6′ | 3209 | 70°58.3′ | 2851 | 104°34.5′ | 2737 |
| 9 | 51°51.2′ | 2722 | 73°29.0′ | 2852 | 45°30.3′ | 3197 | 70°27.1′ | 2849 | 105°06.5′ | 2734 |
| 10 | 51°19.1′ | 2719 | 74°00.2′ | 2849 | 45°59.0′ | 3185 | 69°56.0′ | 2847 | 105°38.5′ | 2731 |
| 11 | 50°47.0′ | 2716 | 74°31.3′ | 2846 | 46°27.8′ | 3174 | 69°24.9′ | 2845 | 106°10.5′ | 2728 |
| 12 | 50°14.9′ | 2713 | 75°02.5′ | 2843 | 46°56.7′ | 3163 | 68°53.7′ | 2843 | 106°42.5′ | 2725 |
| 13 | 49°42.8′ | 2710 | 75°33.6′ | 2840 | 47°25.7′ | 3153 | 68°22.5′ | 2841 | 107°14.5′ | 2722 |
| 14 | 49°10.7′ | 2708 | 76°04.8′ | 2837 | 47°54.7′ | 3142 | 67°51.3′ | 2839 | 107°46.6′ | 2719 |
| 15 | 48°38.5′ | 2705 | 76°36.1′ | 2834 | 48°23.8′ | 3132 | 67°20.1′ | 2838 | 108°18.6′ | 2716 |
| 16 | 48°06.3′ | 2702 | 77°07.3′ | 2831 | 48°53.0′ | 3122 | 66°48.9′ | 2836 | 108°50.7′ | 2714 |
| 17 | 47°34.1′ | 2699 | 77°38.6′ | 2828 | 49°22.2′ | 3112 | 66°17.7′ | 2834 | 109°22.9′ | 2711 |
| 18 | 47°01.9′ | 2696 | 78°09.9′ | 2825 | 49°51.5′ | 3103 | 65°46.4′ | 2832 | 109°55.0′ | 2708 |
| 19 | 46°29.6′ | 2693 | 78°41.2′ | 2822 | 50°20.9′ | 3094 | 65°15.2′ | 2831 | 110°27.2′ | 2705 |
| 20 | 45°57.3′ | 2690 | 79°12.5′ | 2819 | 50°50.3′ | 3085 | 64°43.9′ | 2829 | 110°59.4′ | 2702 |
| 21 | 45°25.0′ | 2688 | 79°43.9′ | 2816 | 51°19.8′ | 3076 | 64°12.6′ | 2827 | 111°31.6′ | 2699 |
| 22 | 44°52.7′ | 2685 | 80°15.2′ | 2813 | 51°49.4′ | 3067 | 63°41.3′ | 2826 | 112°03.8′ | 2696 |
| 23 | 44°20.4′ | 2682 | 80°46.6′ | 2810 | 52°19.0′ | 3059 | 63°10.0′ | 2824 | 112°36.0′ | 2693 |

Thu Sep 27, 2018 UTC

| UTC | −Aldebaran | | −Betelgeuse | | +Formalhaut | | −Pollux | | +Mars | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 43°48.0′ | 2679 | 62°38.7′ | 2823 | 52°48.6′ | 3050 | 88°01.5′ | 2715 | 81°18.0′ | 2807 |
| 1 | 43°15.7′ | 2676 | 62°07.4′ | 2821 | 53°18.4′ | 3042 | 87°29.3′ | 2712 | 81°49.5′ | 2804 |
| 2 | 42°43.3′ | 2673 | 61°36.1′ | 2820 | 53°48.1′ | 3034 | 86°57.2′ | 2709 | 82°20.9′ | 2801 |
| 3 | 42°10.8′ | 2671 | 61°04.7′ | 2819 | 54°18.0′ | 3026 | 86°25.1′ | 2706 | 82°52.4′ | 2799 |
| 4 | 41°38.4′ | 2668 | 60°33.4′ | 2818 | 54°47.9′ | 3019 | 85°52.9′ | 2703 | 83°23.9′ | 2796 |
| 5 | 41°05.9′ | 2665 | 60°02.0′ | 2816 | 55°17.8′ | 3011 | 85°20.7′ | 2701 | 83°55.4′ | 2793 |
| 6 | 40°33.5′ | 2662 | 59°30.6′ | 2815 | 55°47.8′ | 3004 | 84°48.5′ | 2698 | 84°27.0′ | 2790 |
| 7 | 40°01.0′ | 2659 | 58°59.3′ | 2814 | 56°17.8′ | 2997 | 84°16.2′ | 2695 | 84°58.5′ | 2787 |
| 8 | 39°28.4′ | 2657 | 58°27.9′ | 2813 | 56°47.9′ | 2990 | 83°44.0′ | 2692 | 85°30.1′ | 2784 |
| 9 | 38°55.9′ | 2654 | 57°56.5′ | 2812 | 57°18.1′ | 2983 | 83°11.7′ | 2689 | 86°01.7′ | 2781 |
| 10 | 38°23.3′ | 2651 | 57°25.1′ | 2811 | 57°48.3′ | 2976 | 82°39.4′ | 2687 | 86°33.3′ | 2778 |
| 11 | 37°50.7′ | 2648 | 56°53.7′ | 2811 | 58°18.5′ | 2969 | 82°07.1′ | 2684 | 87°05.0′ | 2776 |
| 12 | 37°18.1′ | 2646 | 56°22.3′ | 2810 | 58°48.8′ | 2963 | 81°34.7′ | 2681 | 87°36.6′ | 2773 |
| 13 | 36°45.5′ | 2643 | 55°50.9′ | 2809 | 59°19.1′ | 2956 | 81°02.4′ | 2678 | 88°08.3′ | 2770 |
| 14 | 36°12.8′ | 2640 | 55°19.4′ | 2809 | 59°49.5′ | 2950 | 80°30.0′ | 2676 | 88°40.0′ | 2767 |
| 15 | 35°40.2′ | 2637 | 54°48.0′ | 2808 | 60°19.9′ | 2944 | 79°57.6′ | 2673 | 89°11.8′ | 2764 |
| 16 | 35°07.5′ | 2635 | 54°16.6′ | 2808 | 60°50.4′ | 2938 | 79°25.2′ | 2670 | 89°43.5′ | 2762 |
| 17 | 34°34.8′ | 2632 | 53°45.1′ | 2808 | 61°20.9′ | 2932 | 78°52.7′ | 2668 | 90°15.3′ | 2759 |
| 18 | 34°02.0′ | 2629 | 53°13.7′ | 2807 | 61°51.4′ | 2926 | 78°20.3′ | 2665 | 90°47.1′ | 2756 |
| 19 | 33°29.3′ | 2627 | 52°42.3′ | 2807 | 62°22.0′ | 2920 | 77°47.8′ | 2662 | 91°18.9′ | 2753 |
| 20 | 32°56.5′ | 2624 | 52°10.8′ | 2807 | 62°52.7′ | 2914 | 77°15.3′ | 2660 | 91°50.7′ | 2750 |
| 21 | 32°23.7′ | 2621 | 51°39.4′ | 2807 | 63°23.3′ | 2909 | 76°42.7′ | 2657 | 92°22.6′ | 2748 |
| 22 | 31°50.9′ | 2619 | 51°08.0′ | 2807 | 63°54.0′ | 2903 | 76°10.2′ | 2655 | 92°54.4′ | 2745 |
| 23 | 31°18.1′ | 2616 | 50°36.5′ | 2808 | 64°24.8′ | 2898 | 75°37.6′ | 2652 | 93°26.3′ | 2742 |

Fri Sep 28, 2018 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 | 30°45.2′ | 2613 | 50°05.1′ | 2808 | 75°05.1′ | 2649 | 64°55.6′ | 2892 | 76°00.8′ | 2775 |
| 1 | 30°12.4′ | 2611 | 49°33.7′ | 2809 | 74°32.5′ | 2647 | 65°26.4′ | 2887 | 75°29.1′ | 2773 |
| 2 | 29°39.5′ | 2608 | 49°02.2′ | 2809 | 73°59.8′ | 2644 | 65°57.3′ | 2882 | 74°57.4′ | 2771 |
| 3 | 29°06.6′ | 2606 | 48°30.8′ | 2810 | 73°27.2′ | 2642 | 66°28.2′ | 2877 | 74°25.7′ | 2769 |
| 4 | 28°33.6′ | 2603 | 47°59.4′ | 2811 | 72°54.6′ | 2639 | 66°59.1′ | 2872 | 73°54.0′ | 2768 |
| 5 | 28°00.7′ | 2600 | 47°28.0′ | 2812 | 72°21.9′ | 2637 | 67°30.1′ | 2867 | 73°22.3′ | 2766 |
| 6 | 27°27.7′ | 2598 | 46°56.6′ | 2813 | 71°49.2′ | 2634 | 68°01.1′ | 2862 | 72°50.5′ | 2764 |
| 7 | 26°54.7′ | 2595 | 46°25.2′ | 2815 | 71°16.5′ | 2632 | 68°32.1′ | 2857 | 72°18.8′ | 2762 |
| 8 | 26°21.7′ | 2593 | 45°53.8′ | 2816 | 70°43.7′ | 2629 | 69°03.2′ | 2852 | 71°47.0′ | 2761 |
| 9 | 25°48.7′ | 2590 | 45°22.5′ | 2818 | 70°11.0′ | 2627 | 69°34.3′ | 2848 | 71°15.2′ | 2759 |
| 10 | 25°15.6′ | 2588 | 44°51.1′ | 2820 | 69°38.2′ | 2624 | 70°05.5′ | 2843 | 70°43.5′ | 2758 |
| 11 | 24°42.6′ | 2586 | 44°19.7′ | 2822 | 69°05.4′ | 2622 | 70°36.7′ | 2839 | 70°11.7′ | 2756 |
| 12 | 24°09.5′ | 2583 | 43°48.4′ | 2824 | 68°32.6′ | 2620 | 71°07.9′ | 2834 | 69°39.8′ | 2755 |
| 13 | 23°36.4′ | 2581 | 43°17.1′ | 2826 | 67°59.8′ | 2617 | 71°39.1′ | 2830 | 69°08.0′ | 2753 |
| 14 | 23°03.3′ | 2578 | 42°45.8′ | 2829 | 67°27.0′ | 2615 | 72°10.4′ | 2825 | 68°36.2′ | 2752 |
| 15 | 22°30.1′ | 2576 | 42°14.5′ | 2832 | 66°54.1′ | 2612 | 72°41.7′ | 2821 | 68°04.4′ | 2751 |
| 16 | 21°57.0′ | 2574 | 41°43.3′ | 2835 | 66°21.2′ | 2610 | 73°13.0′ | 2817 | 67°32.5′ | 2749 |
| 17 | 21°23.8′ | 2571 | 41°12.0′ | 2838 | 65°48.3′ | 2608 | 73°44.4′ | 2813 | 67°00.7′ | 2748 |
| 18 | 20°50.6′ | 2569 | 40°40.8′ | 2842 | 65°15.4′ | 2605 | 74°15.8′ | 2809 | 66°28.8′ | 2747 |
| 19 | 20°17.4′ | 2567 | 40°09.6′ | 2846 | 64°42.5′ | 2603 | 74°47.2′ | 2805 | 65°56.9′ | 2746 |
| 20 | 19°44.2′ | 2565 | 39°38.5′ | 2850 | 64°09.5′ | 2601 | 75°18.7′ | 2801 | 65°25.0′ | 2745 |
| 21 | 19°11.0′ | 2563 | 39°07.3′ | 2854 | 63°36.6′ | 2599 | 75°50.1′ | 2797 | 64°53.1′ | 2744 |
| 22 | 18°37.7′ | 2561 | 38°36.2′ | 2859 | 63°03.6′ | 2596 | 76°21.7′ | 2793 | 64°21.2′ | 2743 |
| 23 | 18°04.4′ | 2559 | 38°05.2′ | 2864 | 62°30.6′ | 2594 | 76°53.2′ | 2789 | 63°49.3′ | 2742 |

Sat Sep 29, 2018 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 | 17°31.1′ | 2557 | 37°34.2′ | 2870 | 61°57.6′ | 2592 | 63°17.4′ | 2742 | 77°24.8′ | 2785 |
| 1 | 16°57.8′ | 2555 | 37°03.2′ | 2876 | 61°24.5′ | 2590 | 62°45.5′ | 2741 | 77°56.4′ | 2782 |
| 2 | 16°24.5′ | 2554 | 36°32.2′ | 2882 | 60°51.5′ | 2588 | 62°13.6′ | 2740 | 78°28.0′ | 2778 |
| 3 | 15°51.2′ | 2552 | 36°01.3′ | 2889 | 60°18.4′ | 2586 | 61°41.7′ | 2740 | 78°59.6′ | 2774 |
| 4 | 15°17.9′ | 2551 | 35°30.5′ | 2896 | 59°45.3′ | 2583 | 61°09.7′ | 2739 | 79°31.3′ | 2771 |
| 5 | 14°44.5′ | 2550 | 34°59.7′ | 2903 | 59°12.2′ | 2581 | 60°37.8′ | 2739 | 80°03.0′ | 2767 |
| 6 | 14°11.2′ | 2549 | 34°28.9′ | 2911 | 58°39.1′ | 2579 | 60°05.9′ | 2739 | 80°34.7′ | 2764 |
| 7 | 13°37.8′ | 2548 | 33°58.2′ | 2920 | 58°06.0′ | 2577 | 59°33.9′ | 2738 | 81°06.5′ | 2760 |
| 8 | 13°04.4′ | 2547 | 33°27.6′ | 2929 | 57°32.8′ | 2575 | 59°02.0′ | 2738 | 81°38.3′ | 2757 |
| 9 | 12°31.1′ | 2547 | 32°57.0′ | 2939 | 56°59.7′ | 2573 | 58°30.1′ | 2738 | 82°10.1′ | 2754 |
| 10 | 11°57.7′ | 2547 | 32°26.5′ | 2950 | 56°26.5′ | 2571 | 57°58.1′ | 2738 | 82°41.9′ | 2750 |
| 11 | 11°24.3′ | 2547 | 31°56.1′ | 2961 | 55°53.3′ | 2569 | 57°26.2′ | 2738 | 83°13.7′ | 2747 |
| 12 | 10°50.9′ | 2548 | 31°25.8′ | 2973 | 55°20.1′ | 2567 | 56°54.3′ | 2739 | 83°45.6′ | 2744 |
| 13 | 10°17.6′ | 2550 | 30°55.5′ | 2985 | 54°46.9′ | 2565 | 56°22.3′ | 2739 | 84°17.5′ | 2741 |
| 14 | 9°44.2′ | 2552 | 30°25.3′ | 2999 | 54°13.7′ | 2564 | 55°50.4′ | 2739 | 84°49.4′ | 2738 |
| 15 | 9°10.9′ | 2556 | 29°55.3′ | 3014 | 53°40.4′ | 2562 | 55°18.4′ | 2740 | 85°21.4′ | 2735 |
| 16 | 8°37.5′ | 2560 | 29°25.3′ | 3029 | 53°07.1′ | 2560 | 54°46.5′ | 2741 | 85°53.4′ | 2732 |
| 17 | 8°04.3′ | 2567 | 28°55.4′ | 3046 | 52°33.9′ | 2558 | 54°14.6′ | 2741 | 86°25.3′ | 2729 |
| 18 | 7°31.0′ | 2575 | 28°25.7′ | 3063 | 52°00.6′ | 2557 | 53°42.7′ | 2742 | 86°57.3′ | 2726 |
| 19 | 6°57.9′ | 2586 | 27°56.0′ | 3082 | 51°27.3′ | 2555 | 53°10.8′ | 2743 | 87°29.4′ | 2723 |
| 20 | 6°24.8′ | 2602 | 27°26.5′ | 3102 | 50°53.9′ | 2553 | 52°38.9′ | 2744 | 88°01.4′ | 2720 |
| 21 | 5°51.8′ | 2623 | 26°57.1′ | 3124 | 50°20.6′ | 2552 | 52°07.0′ | 2746 | 88°33.5′ | 2717 |
| 22 | 5°19.1′ | 2653 | 26°27.9′ | 3147 | 49°47.3′ | 2550 | 51°35.1′ | 2747 | 89°05.6′ | 2715 |
| 23 | 4°46.5′ | 2695 | 25°58.8′ | 3172 | 49°13.9′ | 2548 | 51°03.2′ | 2749 | 89°37.7′ | 2712 |

Sun Sep 30, 2018 UTC

| UTC | −Aldebaran | | −Pollux | | −Procyon | | −Betelgeuse | | +Formalhaut | |
|-----|-------------|------|-------------|------|-------------|------|-------------|------|-------------|------|
| | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. | Lunar Dist. | P.L. |
| 0 | 4°14.2' | 2758 | 48°40.6' | 2547 | 50°31.4' | 2750 | 25°29.9' | 3199 | 90°09.8' | 2709 |
| 1 | 3°42.4' | 2856 | 48°07.2' | 2546 | 49°59.5' | 2752 | 25°01.2' | 3227 | 90°42.0' | 2707 |
| 2 | − | − | 47°33.8' | 2544 | 49°27.7' | 2754 | 24°32.7' | 3258 | 91°14.2' | 2704 |
| 3 | − | − | 47°00.4' | 2543 | 48°55.8' | 2757 | 24°04.3' | 3291 | 91°46.4' | 2702 |
| 4 | − | − | 46°27.0' | 2542 | 48°24.0' | 2759 | 23°36.2' | 3327 | 92°18.6' | 2699 |
| 5 | − | − | 45°53.6' | 2540 | 47°52.3' | 2762 | 23°08.3' | 3365 | 92°50.8' | 2697 |
| 6 | − | − | 45°20.1' | 2539 | 47°20.5' | 2765 | 22°40.7' | 3406 | 93°23.0' | 2694 |
| 7 | − | − | 44°46.7' | 2538 | 46°48.7' | 2768 | 22°13.3' | 3451 | 93°55.3' | 2692 |
| 8 | − | − | 44°13.2' | 2537 | 46°17.0' | 2771 | 21°46.2' | 3499 | 94°27.6' | 2690 |
| 9 | − | − | 43°39.8' | 2536 | 45°45.3' | 2774 | 21°19.4' | 3551 | 94°59.9' | 2687 |
| 10 | − | − | 43°06.3' | 2535 | 45°13.6' | 2778 | 20°52.9' | 3608 | 95°32.2' | 2685 |
| 11 | − | − | 42°32.9' | 2534 | 44°42.0' | 2782 | 20°26.7' | 3669 | 96°04.5' | 2683 |
| 12 | − | − | 41°59.4' | 2534 | 44°10.4' | 2786 | 20°01.0' | 3736 | 96°36.9' | 2681 |
| 13 | − | − | 41°25.9' | 2533 | 43°38.8' | 2791 | 19°35.6' | 3809 | 97°09.2' | 2679 |
| 14 | 4°10.1' | 2662 | 40°52.4' | 2532 | 43°07.2' | 2796 | 19°10.6' | 3888 | 97°41.6' | 2677 |
| 15 | 4°42.6' | 2612 | 40°18.9' | 2532 | 42°35.7' | 2801 | 18°46.1' | 3974 | 98°14.0' | 2675 |
| 16 | 5°15.5' | 2576 | 39°45.4' | 2531 | 42°04.2' | 2806 | 18°22.1' | 4069 | 98°46.4' | 2673 |
| 17 | 5°48.6' | 2548 | 39°11.9' | 2531 | 41°32.8' | 2812 | 17°58.6' | 4172 | 99°18.9' | 2671 |
| 18 | 6°22.0' | 2527 | 38°38.4' | 2531 | 41°01.4' | 2818 | 17°35.6' | 4286 | 99°51.3' | 2669 |
| 19 | 6°55.5' | 2510 | 38°04.9' | 2531 | 40°30.0' | 2825 | 17°13.3' | 4411 | 100°23.7' | 2668 |
| 20 | 7°29.2' | 2496 | 37°31.4' | 2531 | 39°58.7' | 2832 | 16°51.5' | 4548 | 100°56.2' | 2666 |
| 21 | 8°02.9' | 2484 | 36°57.9' | 2531 | 39°27.5' | 2839 | 16°30.5' | 4700 | 101°28.7' | 2664 |
| 22 | 8°36.8' | 2474 | 36°24.4' | 2531 | 38°56.3' | 2847 | 16°10.1' | 4868 | 102°01.2' | 2663 |
| 23 | 9°10.8' | 2465 | 35°50.9' | 2532 | 38°25.1' | 2855 | − | − | 102°33.7' | 2661 |