

Wed Aug 1, 2018 UTC

UTC	+Mars		-Aldebaran		+Saturn		-Betelgeuse		+Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	51°23.9'	2881	75°20.2'	2926	80°56.0'	2909	93°18.1'	3035	103°59.2'	2982
1	51°54.8'	2877	74°49.6'	2923	81°26.7'	2907	92°48.3'	3032	104°29.4'	2979
2	52°25.8'	2874	74°19.0'	2921	81°57.4'	2904	92°18.4'	3029	104°59.6'	2977
3	52°56.7'	2871	73°48.4'	2918	82°28.2'	2901	91°48.6'	3027	105°29.9'	2975
4	53°27.7'	2868	73°17.8'	2915	82°58.9'	2899	91°18.7'	3024	106°00.1'	2972
5	53°58.7'	2865	72°47.1'	2913	83°29.7'	2896	90°48.8'	3021	106°30.4'	2970
6	54°29.7'	2861	72°16.4'	2910	84°00.5'	2893	90°18.9'	3018	107°00.7'	2967
7	55°00.8'	2858	71°45.7'	2907	84°31.3'	2891	89°48.9'	3016	107°30.9'	2965
8	55°31.8'	2855	71°15.0'	2904	85°02.2'	2888	89°18.9'	3013	108°01.3'	2962
9	56°02.9'	2852	70°44.3'	2901	85°33.0'	2885	88°49.0'	3010	108°31.6'	2960
10	56°34.1'	2848	70°13.5'	2899	86°03.9'	2882	88°19.0'	3007	109°01.9'	2957
11	57°05.2'	2845	69°42.7'	2896	86°34.8'	2879	87°48.9'	3004	109°32.3'	2955
12	57°36.4'	2842	69°11.9'	2893	87°05.7'	2876	87°18.9'	3001	110°02.7'	2952
13	58°07.5'	2838	68°41.1'	2890	87°36.7'	2873	86°48.8'	2999	110°33.1'	2950
14	58°38.8'	2835	68°10.2'	2887	88°07.6'	2870	86°18.8'	2996	111°03.5'	2947
15	59°10.0'	2832	67°39.4'	2884	88°38.6'	2867	85°48.7'	2993	111°34.0'	2945
16	59°41.3'	2828	67°08.5'	2881	89°09.6'	2864	85°18.5'	2990	112°04.4'	2942
17	60°12.5'	2825	66°37.6'	2878	89°40.6'	2861	84°48.4'	2987	112°34.9'	2939
18	60°43.8'	2822	66°06.7'	2874	90°11.7'	2858	84°18.2'	2984	113°05.4'	2937
19	61°15.2'	2818	65°35.7'	2871	90°42.8'	2855	83°48.1'	2981	113°35.9'	2934
20	61°46.5'	2815	65°04.7'	2868	91°13.8'	2852	83°17.9'	2978	114°06.4'	2931
21	62°17.9'	2811	64°33.7'	2865	91°45.0'	2849	82°47.6'	2975	114°37.0'	2929
22	62°49.3'	2808	64°02.7'	2862	92°16.1'	2845	82°17.4'	2972	115°07.6'	2926
23	63°20.8'	2804	63°31.7'	2858	92°47.3'	2842	81°47.1'	2969	115°38.1'	2923

Thu Aug 2, 2018 UTC

UTC	+Mars		-Aldebaran		+Formalhaut		-Betelgeuse		+Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	63°52.2'	2801	63°00.6'	2855	35°42.7'	3611	81°16.8'	2966	93°18.4'	2839
1	64°23.7'	2797	62°29.5'	2852	36°08.9'	3589	80°46.5'	2963	93°49.7'	2836
2	64°55.2'	2794	61°58.4'	2848	36°35.1'	3568	80°16.2'	2960	94°20.9'	2832
3	65°26.7'	2790	61°27.2'	2845	37°01.5'	3547	79°45.9'	2957	94°52.1'	2829
4	65°58.3'	2786	60°56.1'	2842	37°28.0'	3527	79°15.5'	2954	95°23.4'	2825
5	66°29.9'	2783	60°24.9'	2838	37°54.7'	3508	78°45.1'	2951	95°54.7'	2822
6	67°01.5'	2779	59°53.7'	2835	38°21.4'	3489	78°14.7'	2948	96°26.1'	2819
7	67°33.1'	2776	59°22.4'	2831	38°48.3'	3471	77°44.2'	2945	96°57.4'	2815
8	68°04.8'	2772	58°51.2'	2827	39°15.3'	3453	77°13.8'	2942	97°28.8'	2812
9	68°36.5'	2768	58°19.9'	2824	39°42.4'	3436	76°43.3'	2939	98°00.2'	2808
10	69°08.2'	2764	57°48.6'	2820	40°09.6'	3419	76°12.8'	2936	98°31.6'	2804
11	69°40.0'	2761	57°17.2'	2817	40°36.9'	3403	75°42.3'	2932	99°03.1'	2801
12	70°11.7'	2757	56°45.9'	2813	41°04.3'	3387	75°11.8'	2929	99°34.6'	2797
13	70°43.5'	2753	56°14.5'	2809	41°31.8'	3371	74°41.2'	2926	100°06.1'	2793
14	71°15.4'	2749	55°43.0'	2805	41°59.4'	3356	74°10.6'	2923	100°37.6'	2790
15	71°47.2'	2745	55°11.6'	2802	42°27.1'	3341	73°40.0'	2920	101°09.2'	2786
16	72°19.1'	2742	54°40.1'	2798	42°54.9'	3327	73°09.4'	2917	101°40.8'	2782
17	72°51.0'	2738	54°08.6'	2794	43°22.8'	3313	72°38.7'	2914	102°12.4'	2778
18	73°23.0'	2734	53°37.1'	2790	43°50.8'	3299	72°08.0'	2910	102°44.0'	2775
19	73°55.0'	2730	53°05.5'	2786	44°18.8'	3286	71°37.3'	2907	103°15.7'	2771
20	74°27.0'	2726	52°33.9'	2782	44°47.0'	3273	71°06.6'	2904	103°47.4'	2767
21	74°59.0'	2722	52°02.3'	2778	45°15.2'	3260	70°35.9'	2901	104°19.1'	2763
22	75°31.0'	2718	51°30.7'	2774	45°43.6'	3247	70°05.1'	2898	104°50.9'	2759
23	76°03.1'	2714	50°59.0'	2770	46°12.0'	3235	69°34.3'	2895	105°22.7'	2755

Fri Aug 3, 2018 UTC

UTC	−Sun		−Aldebaran		+Mars		−Betelgeuse		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	111°11.0′	3104	50°27.3′	2766	76°35.3′	2710	69°03.5′	2891	46°40.5′	3223
1	110°41.6′	3099	49°55.6′	2762	77°07.4′	2706	68°32.7′	2888	47°09.0′	3211
2	110°12.2′	3095	49°23.8′	2758	77°39.6′	2702	68°01.8′	2885	47°37.7′	3199
3	109°42.8′	3091	48°52.0′	2754	78°11.8′	2697	67°30.9′	2882	48°06.4′	3188
4	109°13.3′	3086	48°20.2′	2750	78°44.0′	2693	67°00.0′	2879	48°35.2′	3176
5	108°43.9′	3081	47°48.3′	2746	79°16.3′	2689	66°29.1′	2876	49°04.1′	3165
6	108°14.4′	3077	47°16.4′	2741	79°48.6′	2685	65°58.2′	2872	49°33.0′	3154
7	107°44.8′	3072	46°44.5′	2737	80°20.9′	2681	65°27.2′	2869	50°02.0′	3144
8	107°15.2′	3068	46°12.6′	2733	80°53.3′	2676	64°56.2′	2866	50°31.1′	3133
9	106°45.6′	3063	45°40.6′	2729	81°25.7′	2672	64°25.2′	2863	51°00.3′	3123
10	106°16.0′	3058	45°08.6′	2724	81°58.1′	2668	63°54.2′	2860	51°29.5′	3113
11	105°46.3′	3053	44°36.6′	2720	82°30.6′	2664	63°23.1′	2857	51°58.8′	3103
12	105°16.6′	3049	44°04.5′	2716	83°03.1′	2659	62°52.0′	2854	52°28.2′	3093
13	104°46.9′	3044	43°32.4′	2711	83°35.6′	2655	62°20.9′	2851	52°57.6′	3083
14	104°17.1′	3039	43°00.2′	2707	84°08.2′	2650	61°49.8′	2847	53°27.1′	3073
15	103°47.3′	3034	42°28.1′	2702	84°40.8′	2646	61°18.7′	2844	53°56.7′	3064
16	103°17.5′	3029	41°55.9′	2698	85°13.4′	2642	60°47.5′	2841	54°26.3′	3054
17	102°47.6′	3024	41°23.6′	2693	85°46.1′	2637	60°16.3′	2838	54°56.0′	3045
18	102°17.7′	3019	40°51.3′	2689	86°18.7′	2633	59°45.1′	2835	55°25.8′	3036
19	101°47.8′	3014	40°19.0′	2684	86°51.5′	2628	59°13.9′	2832	55°55.6′	3027
20	101°17.8′	3009	39°46.7′	2679	87°24.2′	2624	58°42.6′	2830	56°25.5′	3018
21	100°47.8′	3004	39°14.3′	2675	87°57.0′	2619	58°11.3′	2827	56°55.5′	3009
22	100°17.7′	2999	38°41.9′	2670	88°29.8′	2615	57°40.0′	2824	57°25.5′	3000
23	99°47.7′	2994	38°09.5′	2665	89°02.7′	2610	57°08.7′	2821	57°55.5′	2992

Sat Aug 4, 2018 UTC

UTC	−Sun		−Aldebaran		−Betelgeuse		+Formalhaut		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	99°17.6′	2989	37°37.0′	2661	56°37.4′	2818	58°25.7′	2983	81°55.7′	2700
1	98°47.4′	2984	37°04.5′	2656	56°06.0′	2815	58°55.9′	2975	81°23.5′	2695
2	98°17.2′	2979	36°31.9′	2651	55°34.7′	2813	59°26.1′	2966	80°51.3′	2690
3	97°47.0′	2973	35°59.3′	2646	55°03.3′	2810	59°56.4′	2958	80°19.0′	2686
4	97°16.7′	2968	35°26.7′	2642	54°31.8′	2807	60°26.8′	2950	79°46.6′	2681
5	96°46.5′	2963	34°54.0′	2637	54°00.4′	2805	60°57.2′	2941	79°14.3′	2676
6	96°16.1′	2958	34°21.3′	2632	53°29.0′	2802	61°27.7′	2933	78°41.9′	2671
7	95°45.8′	2952	33°48.6′	2627	52°57.5′	2800	61°58.2′	2925	78°09.4′	2667
8	95°15.4′	2947	33°15.8′	2622	52°26.0′	2798	62°28.8′	2917	77°37.0′	2662
9	94°44.9′	2942	32°43.0′	2617	51°54.5′	2795	62°59.5′	2910	77°04.5′	2657
10	94°14.4′	2936	32°10.2′	2612	51°23.0′	2793	63°30.2′	2902	76°31.9′	2652
11	93°43.9′	2931	31°37.3′	2607	50°51.4′	2791	64°00.9′	2894	75°59.3′	2647
12	93°13.4′	2925	31°04.4′	2602	50°19.9′	2789	64°31.7′	2886	75°26.7′	2642
13	92°42.8′	2920	30°31.4′	2597	49°48.3′	2787	65°02.6′	2879	74°54.1′	2638
14	92°12.1′	2914	29°58.5′	2592	49°16.7′	2785	65°33.5′	2871	74°21.4′	2633
15	91°41.5′	2909	29°25.4′	2587	48°45.1′	2783	66°04.5′	2863	73°48.6′	2628
16	91°10.8′	2903	28°52.4′	2582	48°13.5′	2781	66°35.5′	2856	73°15.9′	2623
17	90°40.0′	2898	28°19.2′	2577	47°41.9′	2780	67°06.6′	2849	72°43.1′	2618
18	90°09.2′	2892	27°46.1′	2572	47°10.2′	2778	67°37.8′	2841	72°10.3′	2613
19	89°38.4′	2887	27°12.9′	2567	46°38.6′	2777	68°08.9′	2834	71°37.4′	2608
20	89°07.5′	2881	26°39.7′	2562	46°06.9′	2776	68°40.2′	2827	71°04.5′	2603
21	88°36.6′	2875	26°06.4′	2557	45°35.3′	2775	69°11.5′	2819	70°31.5′	2598
22	88°05.7′	2870	25°33.1′	2552	45°03.6′	2774	69°42.8′	2812	69°58.5′	2593
23	87°34.7′	2864	24°59.8′	2547	44°31.9′	2773	70°14.2′	2805	69°25.5′	2588

Sun Aug 5, 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	87°03.7′	2858	24°26.4′	2542	44°00.3′	2772	68°52.5′	2584	70°45.7′	2798
1	86°32.6′	2853	23°53.0′	2536	43°28.6′	2772	68°19.4′	2579	71°17.2′	2791
2	86°01.5′	2847	23°19.5′	2531	42°56.9′	2772	67°46.2′	2574	71°48.7′	2784
3	85°30.3′	2841	22°46.0′	2526	42°25.2′	2772	67°13.0′	2569	72°20.3′	2777
4	84°59.1′	2835	22°12.5′	2521	41°53.5′	2772	66°39.8′	2564	72°52.0′	2770
5	84°27.9′	2830	21°38.9′	2516	41°21.8′	2772	66°06.6′	2559	73°23.7′	2763
6	83°56.6′	2824	21°05.3′	2511	40°50.1′	2773	65°33.3′	2554	73°55.5′	2756
7	83°25.3′	2818	20°31.6′	2506	40°18.4′	2774	64°60.0′	2549	74°27.3′	2750
8	82°54.0′	2812	19°58.0′	2501	39°46.7′	2775	64°26.6′	2544	74°59.1′	2743
9	82°22.6′	2806	19°24.2′	2496	39°15.1′	2776	63°53.2′	2539	75°31.0′	2736
10	81°51.1′	2800	18°50.4′	2491	38°43.4′	2778	63°19.8′	2534	76°03.0′	2730
11	81°19.6′	2795	18°16.6′	2486	38°11.8′	2780	62°46.3′	2529	76°35.0′	2723
12	80°48.1′	2789	17°42.8′	2481	37°40.1′	2783	62°12.8′	2524	77°07.0′	2716
13	80°16.5′	2783	17°08.9′	2476	37°08.5′	2785	61°39.2′	2519	77°39.1′	2710
14	79°44.9′	2777	16°35.0′	2471	36°36.9′	2788	61°05.6′	2514	78°11.3′	2703
15	79°13.3′	2771	16°01.0′	2466	36°05.3′	2792	60°32.0′	2509	78°43.5′	2697
16	78°41.6′	2765	15°27.0′	2462	35°33.8′	2796	59°58.3′	2504	79°15.7′	2691
17	78°09.8′	2759	14°53.0′	2457	35°02.3′	2800	59°24.6′	2500	79°48.0′	2684
18	77°38.0′	2753	14°18.9′	2452	34°30.8′	2805	58°50.9′	2495	80°20.4′	2678
19	77°06.2′	2747	13°44.8′	2448	33°59.3′	2811	58°17.1′	2490	80°52.7′	2672
20	76°34.3′	2742	13°10.6′	2444	33°27.9′	2817	57°43.3′	2485	81°25.2′	2665
21	76°02.4′	2736	12°36.4′	2440	32°56.6′	2823	57°09.4′	2480	81°57.7′	2659
22	75°30.5′	2730	12°02.2′	2436	32°25.2′	2831	56°35.5′	2476	82°30.2′	2653
23	74°58.5′	2724	11°28.0′	2432	31°54.0′	2839	56°01.6′	2471	83°02.8′	2647

Mon Aug 6, 2018 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	74°26.4′	2718	10°53.7′	2429	55°27.6′	2466	31°22.8′	2848	83°35.4′	2641
1	73°54.3′	2712	10°19.4′	2426	54°53.6′	2461	30°51.6′	2857	84°08.0′	2635
2	73°22.2′	2706	9°45.1′	2424	54°19.6′	2457	30°20.5′	2868	84°40.7′	2629
3	72°50.0′	2700	9°10.8′	2422	53°45.5′	2452	29°49.5′	2879	85°13.5′	2623
4	72°17.8′	2694	8°36.4′	2421	53°11.4′	2448	29°18.6′	2891	85°46.3′	2617
5	71°45.5′	2688	8°02.0′	2421	52°37.2′	2443	28°47.8′	2905	86°19.1′	2611
6	71°13.2′	2682	7°27.7′	2423	52°03.1′	2439	28°17.0′	2919	86°52.0′	2605
7	70°40.9′	2676	6°53.3′	2427	51°28.8′	2434	27°46.4′	2935	87°25.0′	2600
8	70°08.5′	2670	6°19.0′	2433	50°54.6′	2430	27°15.9′	2953	87°57.9′	2594
9	69°36.0′	2665	5°44.8′	2443	50°20.3′	2425	26°45.5′	2971	88°30.9′	2588
10	69°03.5′	2659	5°10.6′	2460	49°46.0′	2421	26°15.2′	2992	89°04.0′	2583
11	68°31.0′	2653	4°36.5′	2486	49°11.6′	2417	25°45.1′	3014	89°37.1′	2577
12	67°58.4′	2647	4°02.7′	2528	48°37.2′	2413	25°15.1′	3038	90°10.3′	2572
13	67°25.8′	2641	3°29.2′	2598	48°02.8′	2408	24°45.3′	3064	90°43.4′	2566
14	66°53.1′	2635	–	–	47°28.3′	2404	24°15.7′	3093	91°16.7′	2561
15	66°20.4′	2629	–	–	46°53.8′	2400	23°46.3′	3124	91°49.9′	2556
16	65°47.7′	2623	–	–	46°19.3′	2396	23°17.0′	3158	92°23.3′	2550
17	65°14.9′	2618	–	–	45°44.8′	2392	22°48.0′	3194	92°56.6′	2545
18	64°42.1′	2612	–	–	45°10.2′	2389	22°19.3′	3235	93°30.0′	2540
19	64°09.2′	2606	–	–	44°35.6′	2385	21°50.8′	3278	94°03.4′	2535
20	63°36.2′	2600	–	–	44°00.9′	2381	21°22.6′	3326	94°36.9′	2530
21	63°03.3′	2594	–	–	43°26.2′	2378	20°54.7′	3378	95°10.4′	2525
22	62°30.3′	2589	–	–	42°51.5′	2374	20°27.1′	3435	95°44.0′	2520
23	61°57.2′	2583	–	–	42°16.8′	2371	19°59.9′	3498	96°17.5′	2515

Tue Aug 7, 2018 UTC

UTC	−Sun		+Aldebaran		−Pollux		−Procyon		−Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	61°24.1′	2577	3°19.9′	2479	41°42.0′	2368	43°43.9′	2609	19°33.1′	3567
1	60°51.0′	2572	3°53.8′	2420	41°07.3′	2365	43°11.0′	2611	19°06.7′	3642
2	60°17.8′	2566	4°28.2′	2380	40°32.5′	2362	42°38.1′	2613	18°40.8′	3725
3	59°44.5′	2560	5°02.9′	2350	39°57.6′	2359	42°05.2′	2616	18°15.3′	3817
4	59°11.3′	2555	5°37.8′	2327	39°22.8′	2356	41°32.4′	2619	17°50.4′	3918
5	58°37.9′	2549	6°12.9′	2309	38°47.9′	2354	40°59.5′	2623	17°26.1′	4030
6	58°04.6′	2544	6°48.2′	2294	38°13.0′	2351	40°26.7′	2627	17°02.3′	4153
7	57°31.2′	2538	7°23.5′	2282	37°38.1′	2349	39°54.0′	2631	16°39.3′	4291
8	56°57.7′	2533	7°59.0′	2270	37°03.2′	2347	39°21.2′	2636	16°16.9′	4444
9	56°24.2′	2527	8°34.6′	2260	36°28.2′	2345	38°48.5′	2642	–	–
10	55°50.7′	2522	9°10.2′	2251	35°53.2′	2344	38°15.9′	2648	–	–
11	55°17.1′	2516	9°46.0′	2243	35°18.3′	2342	37°43.3′	2655	–	–
12	54°43.5′	2511	10°21.8′	2235	34°43.3′	2341	37°10.7′	2662	–	–
13	54°09.9′	2505	10°57.6′	2228	34°08.3′	2340	36°38.2′	2670	–	–
14	53°36.2′	2500	11°33.6′	2221	33°33.3′	2339	36°05.7′	2678	–	–
15	53°02.4′	2495	12°09.5′	2214	32°58.3′	2339	35°33.4′	2687	–	–
16	52°28.6′	2490	12°45.6′	2208	32°23.2′	2339	35°01.0′	2698	–	–
17	51°54.8′	2484	13°21.7′	2202	31°48.2′	2339	34°28.8′	2708	–	–
18	51°21.0′	2479	13°57.8′	2196	31°13.2′	2340	33°56.6′	2720	–	–
19	50°47.1′	2474	14°34.0′	2190	30°38.2′	2340	33°24.6′	2733	–	–
20	50°13.1′	2469	15°10.2′	2184	30°03.2′	2342	32°52.6′	2747	–	–
21	49°39.1′	2464	15°46.5′	2179	29°28.2′	2343	32°20.7′	2762	–	–
22	49°05.1′	2459	16°22.9′	2173	28°53.2′	2346	31°49.0′	2777	–	–
23	48°31.1′	2454	16°59.2′	2168	28°18.3′	2348	31°17.3′	2795	–	–

Wed Aug 8, 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	47°57.0′	2449	17°35.7′	2163	27°43.3′	2351	30°45.8′	2813	110°27.8′	2422
1	47°22.8′	2444	18°12.1′	2158	27°08.4′	2355	30°14.4′	2833	111°02.1′	2420
2	46°48.6′	2440	18°48.6′	2153	26°33.5′	2360	29°43.1′	2855	111°36.5′	2417
3	46°14.4′	2435	19°25.2′	2148	25°58.7′	2365	29°12.0′	2878	112°10.9′	2415
4	45°40.2′	2430	20°01.8′	2143	25°23.9′	2371	28°41.1′	2903	112°45.3′	2413
5	45°05.9′	2425	20°38.4′	2138	24°49.1′	2377	28°10.4′	2930	113°19.7′	2411
6	44°31.6′	2421	21°15.1′	2133	24°14.4′	2385	27°39.8′	2959	113°54.1′	2410
7	43°57.2′	2416	21°51.8′	2129	23°39.8′	2393	27°09.4′	2990	114°28.6′	2408
8	43°22.8′	2412	22°28.5′	2124	23°05.2′	2403	26°39.3′	3024	115°03.0′	2407
9	42°48.4′	2407	23°05.3′	2120	22°30.7′	2414	26°09.4′	3061	115°37.5′	2406
10	42°13.9′	2403	23°42.2′	2116	21°56.3′	2426	25°39.7′	3100	116°12.0′	2405
11	41°39.4′	2399	24°19.0′	2111	21°21.9′	2440	25°10.4′	3143	116°46.5′	2404
12	41°04.9′	2394	24°55.9′	2107	20°47.7′	2455	24°41.3′	3189	117°21.0′	2403
13	40°30.3′	2390	25°32.9′	2103	20°13.6′	2473	24°12.5′	3239	117°55.5′	2402
14	39°55.7′	2386	26°09.8′	2099	19°39.7′	2492	23°44.0′	3293	118°30.0′	2402
15	39°21.1′	2382	26°46.8′	2095	19°05.9′	2514	23°15.9′	3351	119°04.5′	2402
16	38°46.4′	2378	27°23.9′	2091	18°32.2′	2538	22°48.2′	3415	119°39.0′	2402
17	38°11.7′	2374	28°00.9′	2087	17°58.8′	2565	22°20.8′	3484	120°13.5′	2402
18	37°37.0′	2370	28°38.1′	2083	17°25.6′	2596	21°53.9′	3559	120°48.0′	2403
19	37°02.2′	2366	29°15.2′	2079	16°52.6′	2631	21°27.5′	3641	121°22.5′	2403
20	36°27.4′	2363	29°52.4′	2075	16°19.8′	2670	21°01.5′	3730	121°57.0′	2404
21	35°52.6′	2359	30°29.6′	2072	15°47.4′	2714	20°36.1′	3828	122°31.5′	2405
22	35°17.7′	2355	31°06.8′	2068	15°15.3′	2764	20°11.3′	3934	123°06.0′	2407
23	34°42.8′	2352	31°44.1′	2065	14°43.5′	2821	19°47.0′	4051	123°40.5′	2408

Thu Aug 9, 2018 UTC

UTC	+Aldebaran		-Pollux		+Betelgeuse		+Rigel		-Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	32°21.4'	2061	14°12.2'	2886	19°05.8'	3351	37°31.4'	3809	19°23.4'	4179
1	32°58.7'	2058	13°41.3'	2961	19°33.6'	3270	37°56.4'	3756	19°00.5'	4320
2	33°36.1'	2055	13°11.0'	3047	20°01.8'	3196	38°21.6'	3705	18°38.3'	4476
3	34°13.4'	2051	12°41.2'	3145	20°30.6'	3127	38°47.2'	3657	–	–
4	34°50.9'	2048	12°12.1'	3260	20°59.8'	3064	39°13.0'	3611	–	–
5	35°28.3'	2045	–	–	21°29.4'	3006	39°39.2'	3566	–	–
6	36°05.8'	2042	–	–	21°59.4'	2952	40°05.6'	3524	–	–
7	36°43.3'	2039	–	–	22°29.9'	2902	40°32.2'	3483	–	–
8	37°20.8'	2036	–	–	23°00.6'	2855	40°59.1'	3443	–	–
9	37°58.3'	2034	–	–	23°31.7'	2812	41°26.3'	3406	–	–
10	38°35.9'	2031	–	–	24°03.1'	2772	41°53.7'	3369	–	–
11	39°13.5'	2028	–	–	24°34.8'	2735	42°21.3'	3334	–	–
12	39°51.1'	2026	–	–	25°06.8'	2700	42°49.1'	3301	–	–
13	40°28.7'	2023	–	–	25°39.0'	2667	43°17.2'	3269	–	–
14	41°06.4'	2021	–	–	26°11.5'	2636	43°45.5'	3238	–	–
15	41°44.1'	2018	–	–	26°44.2'	2608	44°13.9'	3208	–	–
16	42°21.7'	2016	–	–	27°17.1'	2581	44°42.6'	3179	–	–
17	42°59.5'	2014	–	–	27°50.2'	2555	45°11.5'	3152	–	–
18	43°37.2'	2012	–	–	28°23.5'	2532	45°40.5'	3125	–	–
19	44°15.0'	2010	–	–	28°57.0'	2509	46°09.7'	3100	–	–
20	44°52.7'	2008	–	–	29°30.7'	2488	46°39.1'	3075	–	–
21	45°30.5'	2006	–	–	30°04.5'	2468	47°08.7'	3051	–	–
22	46°08.3'	2004	–	–	30°38.5'	2450	47°38.4'	3029	–	–
23	46°46.1'	2002	–	–	31°12.6'	2432	48°08.2'	3007	–	–

Fri Aug 10, 2018 UTC

UTC	+Aldebaran		+Betelgeuse		+Rigel		+Capella	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°24.0'	2001	31°46.9'	2415	48°38.3'	2986	41°37.1'	3282
1	48°01.8'	1999	32°21.3'	2400	49°08.4'	2965	42°05.3'	3250
2	48°39.7'	1998	32°55.8'	2385	49°38.8'	2946	42°33.7'	3218
3	49°17.6'	1996	33°30.5'	2371	50°09.2'	2927	43°02.3'	3188
4	49°55.5'	1995	34°05.2'	2357	50°39.8'	2909	43°31.1'	3159
5	50°33.4'	1994	34°40.1'	2345	51°10.5'	2892	44°00.1'	3131
6	51°11.3'	1993	35°15.1'	2333	51°41.3'	2875	44°29.2'	3104
7	51°49.2'	1992	35°50.1'	2321	52°12.3'	2859	44°58.6'	3079
8	52°27.1'	1991	36°25.3'	2311	52°43.3'	2843	45°28.1'	3054
9	53°05.1'	1990	37°00.5'	2301	53°14.5'	2828	45°57.8'	3031
10	53°43.0'	1989	37°35.9'	2291	53°45.8'	2814	46°27.7'	3008
11	54°21.0'	1988	38°11.3'	2282	54°17.2'	2800	46°57.7'	2986
12	54°58.9'	1988	38°46.7'	2273	54°48.7'	2787	47°27.9'	2965
13	55°36.9'	1987	39°22.3'	2265	55°20.3'	2774	47°58.2'	2945
14	56°14.8'	1987	39°57.9'	2257	55°51.9'	2762	48°28.6'	2926
15	56°52.8'	1986	40°33.6'	2250	56°23.7'	2750	48°59.2'	2908
16	57°30.8'	1986	41°09.3'	2243	56°55.5'	2739	49°29.9'	2890
17	58°08.8'	1986	41°45.1'	2237	57°27.5'	2728	50°00.8'	2873
18	58°46.8'	1986	42°21.0'	2231	57°59.5'	2718	50°31.7'	2857
19	59°24.7'	1986	42°56.9'	2225	58°31.6'	2708	51°02.8'	2841
20	60°02.7'	1986	43°32.8'	2219	59°03.7'	2699	51°34.0'	2826
21	60°40.7'	1986	44°08.8'	2214	59°36.0'	2689	52°05.3'	2812
22	61°18.7'	1986	44°44.8'	2209	60°08.3'	2681	52°36.7'	2798
23	61°56.7'	1986	45°20.9'	2205	60°40.6'	2672	53°08.2'	2785

Mon Aug 13, 2018 UTC

UTC	–Spica		–Venus		–Jupiter		–Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	41°58.7'	2181	23°59.8'	2546	62°31.5'	2145	87°51.5'	2155
1	41°22.3'	2187	23°26.4'	2558	61°54.9'	2150	87°15.0'	2159
2	40°46.1'	2193	22°53.1'	2570	61°18.3'	2154	86°38.5'	2164
3	40°09.9'	2200	22°19.9'	2582	60°41.8'	2159	86°02.0'	2168
4	39°33.7'	2207	21°46.8'	2595	60°05.3'	2164	85°25.6'	2173
5	38°57.6'	2213	21°13.8'	2610	59°28.8'	2168	84°49.2'	2177
6	38°21.6'	2220	20°40.9'	2624	58°52.4'	2173	84°12.9'	2182
7	37°45.6'	2228	20°08.1'	2640	58°16.0'	2178	83°36.6'	2186
8	37°09.7'	2235	19°35.4'	2657	57°39.7'	2183	83°00.3'	2191
9	36°33.8'	2242	19°02.9'	2675	57°03.4'	2188	82°24.1'	2196
10	35°58.0'	2250	18°30.4'	2694	56°27.1'	2193	81°47.9'	2201
11	35°22.3'	2258	17°58.2'	2715	55°50.9'	2198	81°11.7'	2206
12	34°46.6'	2266	17°26.1'	2737	55°14.8'	2203	80°35.6'	2211
13	34°11.0'	2275	16°54.1'	2761	54°38.6'	2209	79°59.6'	2216
14	33°35.4'	2283	16°22.4'	2787	54°02.6'	2214	79°23.5'	2221
15	32°60.0'	2292	15°50.8'	2816	53°26.5'	2219	78°47.6'	2227
16	32°24.6'	2301	15°19.4'	2847	52°50.5'	2225	78°11.6'	2232
17	31°49.3'	2311	14°48.3'	2880	52°14.6'	2230	77°35.7'	2237
18	31°14.0'	2321	14°17.3'	2918	51°38.7'	2236	76°59.9'	2243
19	30°38.9'	2331	13°46.7'	2959	51°02.8'	2241	76°24.1'	2248
20	30°03.8'	2341	13°16.3'	3005	50°27.0'	2247	75°48.3'	2254
21	29°28.8'	2352	12°46.3'	3056	49°51.2'	2253	75°12.6'	2259
22	28°53.9'	2363	12°16.6'	3114	49°15.5'	2259	74°37.0'	2265
23	28°19.0'	2374	11°47.3'	3179	48°39.8'	2264	74°01.4'	2271

Tue Aug 14, 2018 UTC

UTC	–Spica		–Jupiter		–Antares		–Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	27°44.3'	2386	48°04.2'	2270	73°25.8'	2277	11°18.5'	3252
1	27°09.7'	2399	47°28.7'	2276	72°50.3'	2282	10°50.1'	3337
2	26°35.1'	2412	46°53.1'	2282	72°14.8'	2288	10°22.3'	3434
3	26°00.7'	2425	46°17.7'	2288	71°39.4'	2294	9°55.1'	3546
4	25°26.4'	2439	45°42.2'	2294	71°04.0'	2300	9°28.5'	3678
5	24°52.2'	2454	45°06.9'	2301	70°28.7'	2306	–	–
6	24°18.1'	2470	44°31.5'	2307	69°53.4'	2312	–	–
7	23°44.1'	2486	43°56.3'	2313	69°18.1'	2318	–	–
8	23°10.2'	2503	43°21.0'	2320	68°43.0'	2325	–	–
9	22°36.5'	2521	42°45.9'	2326	68°07.8'	2331	–	–
10	22°02.9'	2540	42°10.7'	2332	67°32.8'	2337	–	–
11	21°29.5'	2560	41°35.7'	2339	66°57.7'	2344	–	–
12	20°56.2'	2581	41°00.7'	2345	66°22.8'	2350	–	–
13	20°23.1'	2604	40°25.7'	2352	65°47.8'	2356	–	–
14	19°50.2'	2628	39°50.8'	2359	65°13.0'	2363	–	–
15	19°17.4'	2654	39°15.9'	2366	64°38.1'	2370	–	–
16	18°44.8'	2682	38°41.1'	2372	64°03.4'	2376	–	–
17	18°12.5'	2711	38°06.4'	2379	63°28.6'	2383	–	–
18	17°40.3'	2744	37°31.7'	2386	62°54.0'	2389	–	–
19	17°08.4'	2779	36°57.1'	2393	62°19.4'	2396	–	–
20	16°36.8'	2817	36°22.5'	2400	61°44.8'	2403	–	–
21	16°05.4'	2858	35°47.9'	2407	61°10.3'	2410	–	–
22	15°34.4'	2903	35°13.5'	2415	60°35.9'	2417	–	–
23	15°03.6'	2953	34°39.1'	2422	60°01.5'	2424	–	–

Wed Aug 15, 2018 UTC

UTC	+Sun		-Jupiter		-Spica		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	49°16.8'	2669	34°04.7'	2429	14°33.2'	3008	59°27.1'	2430
1	49°49.3'	2676	33°30.4'	2437	14°03.2'	3070	58°52.8'	2437
2	50°21.7'	2682	32°56.2'	2444	13°33.6'	3138	58°18.6'	2444
3	50°54.0'	2689	32°22.0'	2452	13°04.5'	3214	57°44.4'	2452
4	51°26.3'	2696	31°47.9'	2459	12°35.8'	3300	57°10.3'	2459
5	51°58.6'	2702	31°13.8'	2467	12°07.8'	3397	56°36.3'	2466
6	52°30.8'	2709	30°39.8'	2475	11°40.3'	3508	56°02.2'	2473
7	53°03.0'	2715	30°05.9'	2483	11°13.6'	3634	55°28.3'	2480
8	53°35.1'	2722	29°32.0'	2491	–	–	54°54.4'	2488
9	54°07.1'	2729	28°58.2'	2499	–	–	54°20.6'	2495
10	54°39.1'	2735	28°24.5'	2507	–	–	53°46.8'	2502
11	55°11.1'	2742	27°50.8'	2516	–	–	53°13.1'	2510
12	55°43.0'	2749	27°17.2'	2524	–	–	52°39.4'	2517
13	56°14.9'	2755	26°43.6'	2533	–	–	52°05.8'	2525
14	56°46.7'	2762	26°10.1'	2542	–	–	51°32.2'	2532
15	57°18.5'	2769	25°36.7'	2551	–	–	50°58.8'	2540
16	57°50.2'	2775	25°03.4'	2560	–	–	50°25.3'	2548
17	58°21.8'	2782	24°30.1'	2569	–	–	49°52.0'	2556
18	58°53.5'	2789	23°56.9'	2579	–	–	49°18.6'	2563
19	59°25.0'	2795	23°23.7'	2589	–	–	48°45.4'	2571
20	59°56.5'	2802	22°50.7'	2599	–	–	48°12.2'	2579
21	60°28.0'	2809	22°17.7'	2609	–	–	47°39.1'	2587
22	60°59.4'	2815	21°44.8'	2620	–	–	47°06.0'	2595
23	61°30.8'	2822	21°12.0'	2631	–	–	46°33.0'	2603

Thu Aug 16, 2018 UTC

UTC	+Sun		-Jupiter		-Antares		+Venus		-Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	62°02.2'	2829	20°39.2'	2643	46°00.0'	2611	17°16.7'	3099	67°55.3'	2500
1	62°33.4'	2835	20°06.6'	2654	45°27.2'	2619	17°46.1'	3091	67°21.6'	2506
2	63°04.7'	2842	19°34.0'	2667	44°54.3'	2628	18°15.5'	3084	66°47.9'	2512
3	63°35.8'	2849	19°01.6'	2680	44°21.6'	2636	18°45.0'	3078	66°14.2'	2518
4	64°07.0'	2855	18°29.2'	2693	43°48.9'	2645	19°14.6'	3073	65°40.6'	2525
5	64°38.1'	2862	17°56.9'	2707	43°16.2'	2653	19°44.1'	3069	65°07.1'	2531
6	65°09.1'	2869	17°24.7'	2722	42°43.7'	2662	20°13.7'	3066	64°33.6'	2537
7	65°40.1'	2875	16°52.7'	2738	42°11.1'	2670	20°43.3'	3064	64°00.1'	2543
8	66°11.1'	2882	16°20.7'	2754	41°38.7'	2679	21°13.0'	3062	63°26.7'	2549
9	66°42.0'	2888	15°48.9'	2772	41°06.3'	2688	21°42.6'	3060	62°53.3'	2555
10	67°12.8'	2895	15°17.2'	2791	40°34.0'	2697	22°12.3'	3060	62°20.0'	2561
11	67°43.6'	2901	14°45.7'	2812	40°01.8'	2706	22°41.9'	3059	61°46.8'	2568
12	68°14.4'	2908	14°14.3'	2834	39°29.6'	2715	23°11.6'	3059	61°13.5'	2574
13	68°45.1'	2915	13°43.0'	2858	38°57.5'	2724	23°41.3'	3060	60°40.4'	2580
14	69°15.8'	2921	13°12.0'	2884	38°25.4'	2734	24°10.9'	3061	60°07.2'	2586
15	69°46.4'	2927	12°41.1'	2913	37°53.5'	2743	24°40.6'	3062	59°34.2'	2592
16	70°17.0'	2934	12°10.4'	2945	37°21.6'	2753	25°10.2'	3063	59°01.1'	2598
17	70°47.5'	2940	11°39.9'	2980	36°49.7'	2763	25°39.9'	3065	58°28.1'	2604
18	71°18.0'	2947	11°09.7'	3020	36°18.0'	2773	26°09.5'	3067	57°55.2'	2610
19	71°48.4'	2953	10°39.8'	3065	35°46.3'	2783	26°39.1'	3069	57°22.3'	2616
20	72°18.8'	2959	10°10.2'	3117	35°14.7'	2793	27°08.7'	3072	56°49.4'	2622
21	72°49.2'	2966	9°40.9'	3176	34°43.1'	2803	27°38.3'	3074	56°16.6'	2628
22	73°19.5'	2972	9°12.0'	3245	34°11.7'	2814	28°07.8'	3077	55°43.9'	2634
23	73°49.8'	2978	8°43.6'	3326	33°40.3'	2825	28°37.4'	3080	55°11.2'	2639

Fri Aug 17, 2018 UTC

UTC	+Sun		-Antares		+Spica		-Saturn		+Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	74°20.0'	2985	33°09.0'	2836	15°59.4'	3142	54°38.5'	2645	29°06.9'	3083
1	74°50.2'	2991	32°37.8'	2847	16°28.5'	3117	54°05.9'	2651	29°36.4'	3086
2	75°20.3'	2997	32°06.6'	2859	16°57.8'	3095	53°33.3'	2657	30°05.9'	3090
3	75°50.4'	3003	31°35.5'	2871	17°27.2'	3075	53°00.7'	2663	30°35.3'	3093
4	76°20.4'	3009	31°04.6'	2883	17°56.7'	3058	52°28.2'	2669	31°04.8'	3097
5	76°50.4'	3016	30°33.7'	2895	18°26.4'	3042	51°55.8'	2674	31°34.2'	3100
6	77°20.4'	3022	30°02.9'	2908	18°56.2'	3029	51°23.4'	2680	32°03.5'	3104
7	77°50.3'	3028	29°32.1'	2921	19°26.0'	3017	50°51.0'	2686	32°32.9'	3108
8	78°20.2'	3034	29°01.5'	2935	19°56.0'	3006	50°18.7'	2691	33°02.2'	3112
9	78°50.0'	3040	28°31.0'	2949	20°26.0'	2996	49°46.4'	2697	33°31.5'	3116
10	79°19.8'	3046	28°00.6'	2963	20°56.1'	2987	49°14.1'	2703	34°00.8'	3120
11	79°49.6'	3052	27°30.2'	2978	21°26.3'	2980	48°41.9'	2708	34°30.1'	3124
12	80°19.3'	3058	27°00.0'	2993	21°56.5'	2973	48°09.8'	2714	34°59.3'	3128
13	80°49.0'	3063	26°29.9'	3009	22°26.8'	2967	47°37.6'	2719	35°28.5'	3132
14	81°18.6'	3069	25°59.9'	3025	22°57.1'	2962	47°05.6'	2725	35°57.7'	3136
15	81°48.2'	3075	25°30.0'	3043	23°27.4'	2958	46°33.5'	2730	36°26.8'	3140
16	82°17.8'	3081	25°00.2'	3060	23°57.8'	2954	46°01.5'	2736	36°55.9'	3145
17	82°47.3'	3087	24°30.6'	3079	24°28.1'	2951	45°29.6'	2741	37°25.0'	3149
18	83°16.8'	3092	24°01.0'	3098	24°58.6'	2948	44°57.6'	2746	37°54.1'	3153
19	83°46.2'	3098	23°31.6'	3119	25°29.0'	2946	44°25.8'	2752	38°23.1'	3157
20	84°15.6'	3103	23°02.4'	3140	25°59.4'	2944	43°53.9'	2757	38°52.1'	3162
21	84°45.0'	3109	22°33.3'	3163	26°29.9'	2942	43°22.1'	2762	39°21.1'	3166
22	85°14.3'	3115	22°04.3'	3186	27°00.4'	2941	42°50.3'	2767	39°50.0'	3170
23	85°43.6'	3120	21°35.5'	3211	27°30.9'	2940	42°18.6'	2773	40°18.9'	3175

Sat Aug 18, 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	86°12.8'	3126	28°01.3'	2940	41°46.9'	2778	21°06.8'	3237	68°50.4'	2773
1	86°42.0'	3131	28°31.8'	2939	41°15.3'	2783	20°38.4'	3265	68°18.7'	2778
2	87°11.2'	3136	29°02.3'	2939	40°43.7'	2788	20°10.1'	3295	67°47.1'	2784
3	87°40.4'	3142	29°32.8'	2940	40°12.1'	2793	19°42.0'	3326	67°15.5'	2789
4	88°09.5'	3147	30°03.3'	2940	39°40.6'	2798	19°14.1'	3360	66°43.9'	2794
5	88°38.5'	3152	30°33.8'	2941	39°09.1'	2803	18°46.4'	3395	66°12.4'	2799
6	89°07.6'	3157	31°04.3'	2941	38°37.6'	2808	18°18.9'	3434	65°40.9'	2805
7	89°36.6'	3163	31°34.8'	2942	38°06.2'	2813	17°51.7'	3475	65°09.4'	2810
8	90°05.5'	3168	32°05.2'	2943	37°34.8'	2818	17°24.8'	3519	64°38.0'	2815
9	90°34.5'	3173	32°35.7'	2945	37°03.4'	2823	16°58.1'	3567	64°06.6'	2820
10	91°03.4'	3178	33°06.2'	2946	36°32.1'	2828	16°31.7'	3619	63°35.3'	2825
11	91°32.2'	3183	33°36.6'	2947	36°00.8'	2833	16°05.6'	3676	63°04.0'	2830
12	92°01.1'	3188	34°07.1'	2949	35°29.5'	2837	15°39.9'	3737	62°32.7'	2835
13	92°29.9'	3193	34°37.5'	2951	34°58.3'	2842	15°14.5'	3804	62°01.5'	2840
14	92°58.6'	3198	35°07.9'	2952	34°27.1'	2847	14°49.5'	3877	61°30.3'	2845
15	93°27.4'	3202	35°38.3'	2954	33°56.0'	2852	14°24.9'	3957	60°59.1'	2850
16	93°56.1'	3207	36°08.7'	2956	33°24.9'	2856	14°00.8'	4046	60°28.0'	2855
17	94°24.7'	3212	36°39.1'	2958	32°53.8'	2861	13°37.2'	4144	59°56.9'	2860
18	94°53.4'	3217	37°09.4'	2960	32°22.7'	2865	13°14.1'	4252	59°25.9'	2865
19	95°22.0'	3221	37°39.8'	2962	31°51.7'	2870	12°51.5'	4372	58°54.8'	2870
20	95°50.6'	3226	38°10.1'	2964	31°20.7'	2875	12°29.6'	4507	58°23.8'	2875
21	96°19.1'	3230	38°40.4'	2966	30°49.8'	2879	12°08.4'	4658	57°52.9'	2879
22	96°47.6'	3235	39°10.7'	2968	30°18.9'	2884	11°47.8'	4827	57°22.0'	2884
23	97°16.1'	3239	39°41.0'	2971	29°48.0'	2888	-	-	56°51.1'	2889



## Sun Aug 19, 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	97°44.6'	3244	29°17.1'	2893	18°32.8'	3049	40°11.3'	2973	56°20.2'	2893
1	98°13.0'	3248	28°46.3'	2897	19°02.5'	3047	40°41.6'	2975	55°49.4'	2898
2	98°41.4'	3252	28°15.5'	2901	19°32.3'	3045	41°11.8'	2977	55°18.6'	2903
3	99°09.8'	3257	27°44.7'	2906	20°02.0'	3044	41°42.0'	2980	54°47.9'	2907
4	99°38.1'	3261	27°14.0'	2910	20°31.8'	3043	42°12.3'	2982	54°17.2'	2912
5	100°06.5'	3265	26°43.3'	2914	21°01.6'	3043	42°42.4'	2984	53°46.5'	2917
6	100°34.7'	3269	26°12.6'	2919	21°31.3'	3042	43°12.6'	2987	53°15.8'	2921
7	101°03.0'	3273	25°42.0'	2923	22°01.1'	3042	43°42.8'	2989	52°45.2'	2926
8	101°31.2'	3277	25°11.4'	2927	22°30.9'	3043	44°12.9'	2992	52°14.6'	2930
9	101°59.5'	3281	24°40.8'	2932	23°00.7'	3043	44°43.1'	2994	51°44.0'	2935
10	102°27.6'	3285	24°10.3'	2936	23°30.4'	3043	45°13.2'	2996	51°13.5'	2939
11	102°55.8'	3289	23°39.8'	2940	24°00.2'	3044	45°43.3'	2999	50°43.0'	2943
12	103°23.9'	3293	23°09.3'	2945	24°30.0'	3045	46°13.4'	3001	50°12.6'	2948
13	103°52.1'	3297	22°38.8'	2949	24°59.7'	3046	46°43.4'	3003	49°42.1'	2952
14	104°20.1'	3300	22°08.4'	2953	25°29.5'	3047	47°13.5'	3006	49°11.7'	2957
15	104°48.2'	3304	21°38.0'	2958	25°59.3'	3048	47°43.5'	3008	48°41.3'	2961
16	105°16.2'	3308	21°07.6'	2962	26°29.0'	3049	48°13.5'	3010	48°11.0'	2965
17	105°44.3'	3311	20°37.3'	2967	26°58.7'	3050	48°43.5'	3013	47°40.7'	2970
18	106°12.3'	3315	20°07.0'	2971	27°28.5'	3052	49°13.5'	3015	47°10.4'	2974
19	106°40.2'	3318	19°36.7'	2976	27°58.2'	3053	49°43.5'	3017	46°40.2'	2978
20	107°08.2'	3322	19°06.5'	2980	28°27.9'	3054	50°13.4'	3019	46°09.9'	2982
21	107°36.1'	3325	18°36.3'	2985	28°57.6'	3056	50°43.4'	3022	45°39.7'	2987
22	108°04.0'	3328	18°06.1'	2990	29°27.3'	3057	51°13.3'	3024	45°09.6'	2991
23	108°31.9'	3332	17°35.9'	2994	29°56.9'	3059	51°43.2'	3026	44°39.4'	2995

## Mon Aug 20, 2018 UTC

UTC	+Sun		-Saturn		+Jupiter		-Mars		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	108°59.7'	3335	17°05.8'	2999	30°26.6'	3061	44°09.3'	2999	52°13.1'	3028
1	109°27.6'	3338	16°35.8'	3004	30°56.3'	3062	43°39.3'	3004	52°43.0'	3030
2	109°55.4'	3341	16°05.7'	3010	31°25.9'	3064	43°09.2'	3008	53°12.8'	3033
3	110°23.2'	3344	15°35.7'	3015	31°55.5'	3065	42°39.2'	3012	53°42.7'	3035
4	110°51.0'	3347	15°05.7'	3021	32°25.2'	3067	42°09.2'	3016	54°12.5'	3037
5	111°18.7'	3350	14°35.8'	3027	32°54.8'	3069	41°39.3'	3021	54°42.3'	3039
6	111°46.5'	3353	14°05.9'	3033	33°24.4'	3070	41°09.3'	3025	55°12.1'	3041
7	112°14.2'	3356	13°36.1'	3040	33°54.0'	3072	40°39.4'	3029	55°41.9'	3043
8	112°41.9'	3359	13°06.3'	3047	34°23.5'	3074	40°09.6'	3033	56°11.7'	3045
9	113°09.6'	3362	12°36.5'	3054	34°53.1'	3075	39°39.7'	3038	56°41.4'	3047
10	113°37.3'	3365	12°06.8'	3063	35°22.7'	3077	39°09.9'	3042	57°11.2'	3049
11	114°04.9'	3367	11°37.2'	3071	35°52.2'	3079	38°40.1'	3046	57°40.9'	3051
12	114°32.5'	3370	11°07.6'	3081	36°21.7'	3080	38°10.4'	3051	58°10.6'	3053
13	115°00.2'	3373	10°38.1'	3092	36°51.3'	3082	37°40.6'	3055	58°40.4'	3054
14	115°27.8'	3375	10°08.7'	3104	37°20.8'	3083	37°10.9'	3059	59°10.0'	3056
15	115°55.3'	3378	9°39.3'	3117	37°50.3'	3085	36°41.3'	3064	59°39.7'	3058
16	116°22.9'	3380	9°10.0'	3133	38°19.7'	3087	36°11.6'	3068	60°09.4'	3060
17	116°50.5'	3382	8°40.9'	3151	38°49.2'	3088	35°42.0'	3073	60°39.1'	3062
18	117°18.0'	3385	8°11.8'	3171	39°18.7'	3090	35°12.5'	3077	61°08.7'	3063
19	117°45.5'	3387	7°42.9'	3196	39°48.1'	3091	34°42.9'	3082	61°38.3'	3065
20	118°13.0'	3389	7°14.2'	3225	40°17.6'	3093	34°13.4'	3087	62°08.0'	3067
21	118°40.5'	3392	6°45.6'	3261	40°47.0'	3094	33°43.9'	3091	62°37.6'	3068
22	119°08.0'	3394	6°17.3'	3305	41°16.5'	3096	33°14.5'	3096	63°07.2'	3070
23	119°35.5'	3396	5°49.3'	3361	41°45.9'	3097	32°45.1'	3101	63°36.8'	3071

Tue Aug 21, 2018 UTC

UTC	−Saturn		−Mars		+Jupiter		+Antares		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	5°21.6′	3433	32°15.7′	3106	42°15.3′	3099	19°35.7′	3540	64°06.4′	3073
1	4°54.4′	3528	31°46.4′	3111	42°44.7′	3100	20°02.3′	3518	64°35.9′	3074
2	4°27.8′	3656	31°17.0′	3116	43°14.1′	3101	20°29.0′	3498	65°05.5′	3076
3	—	—	30°47.8′	3122	43°43.4′	3103	20°55.8′	3479	65°35.1′	3077
4	—	—	30°18.5′	3127	44°12.8′	3104	21°22.7′	3461	66°04.6′	3078
5	—	—	29°49.3′	3133	44°42.2′	3105	21°49.8′	3445	66°34.1′	3080
6	—	—	29°20.2′	3138	45°11.5′	3106	22°16.9′	3430	67°03.7′	3081
7	—	—	28°51.0′	3144	45°40.9′	3108	22°44.2′	3415	67°33.2′	3082
8	—	—	28°21.9′	3150	46°10.2′	3109	23°11.5′	3402	68°02.7′	3084
9	—	—	27°52.9′	3157	46°39.5′	3110	23°38.9′	3390	68°32.2′	3085
10	—	—	27°23.9′	3163	47°08.9′	3111	24°06.4′	3378	69°01.7′	3086
11	—	—	26°54.9′	3170	47°38.2′	3112	24°34.0′	3367	69°31.1′	3087
12	—	—	26°26.0′	3177	48°07.5′	3113	25°01.6′	3357	70°00.6′	3088
13	—	—	25°57.1′	3184	48°36.8′	3114	25°29.3′	3347	70°30.1′	3089
14	—	—	25°28.3′	3192	49°06.1′	3115	25°57.1′	3338	70°59.5′	3090
15	—	—	24°59.6′	3200	49°35.3′	3116	26°24.9′	3329	71°29.0′	3091
16	—	—	24°30.8′	3208	50°04.6′	3117	26°52.7′	3321	71°58.4′	3092
17	—	—	24°02.2′	3217	50°33.9′	3118	27°20.7′	3314	72°27.9′	3093
18	4°33.4′	3530	23°33.6′	3226	51°03.2′	3119	27°48.7′	3306	72°57.3′	3094
19	5°00.0′	3444	23°05.0′	3235	51°32.4′	3120	28°16.7′	3300	73°26.7′	3095
20	5°27.2′	3380	22°36.5′	3245	52°01.7′	3120	28°44.7′	3293	73°56.2′	3096
21	5°54.7′	3330	22°08.1′	3256	52°30.9′	3121	29°12.9′	3287	74°25.6′	3097
22	6°22.6′	3291	21°39.7′	3267	53°00.2′	3122	29°41.0′	3281	74°55.0′	3097
23	6°50.7′	3259	21°11.5′	3279	53°29.4′	3123	30°09.2′	3275	75°24.4′	3098

Wed Aug 22, 2018 UTC

UTC	+Saturn		−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	7°19.0′	3234	20°43.3′	3291	30°37.4′	3270	53°58.6′	3123	75°53.8′	3099
1	7°47.5′	3214	20°15.1′	3305	31°05.7′	3265	54°27.9′	3124	76°23.2′	3099
2	8°16.2′	3196	19°47.1′	3319	31°34.0′	3260	54°57.1′	3125	76°52.6′	3100
3	8°44.9′	3182	19°19.2′	3334	32°02.3′	3256	55°26.3′	3125	77°22.0′	3101
4	9°13.7′	3170	18°51.3′	3351	32°30.6′	3251	55°55.5′	3126	77°51.4′	3101
5	9°42.7′	3160	18°23.6′	3369	32°59.0′	3247	56°24.7′	3126	78°20.7′	3102
6	10°11.6′	3151	17°56.0′	3388	33°27.4′	3243	56°53.9′	3127	78°50.1′	3102
7	10°40.7′	3144	17°28.5′	3408	33°55.9′	3239	57°23.1′	3127	79°19.5′	3103
8	11°09.8′	3137	17°01.1′	3430	34°24.3′	3236	57°52.4′	3128	79°48.8′	3103
9	11°38.9′	3131	16°33.9′	3454	34°52.8′	3232	58°21.6′	3128	80°18.2′	3104
10	12°08.1′	3126	16°06.8′	3481	35°21.3′	3229	58°50.7′	3128	80°47.6′	3104
11	12°37.3′	3122	15°39.9′	3509	35°49.8′	3225	59°19.9′	3129	81°16.9′	3104
12	13°06.5′	3118	15°13.1′	3541	36°18.4′	3222	59°49.1′	3129	81°46.3′	3105
13	13°35.8′	3114	14°46.6′	3575	36°47.0′	3219	60°18.3′	3129	82°15.6′	3105
14	14°05.1′	3111	14°20.2′	3613	37°15.6′	3216	60°47.5′	3130	82°45.0′	3105
15	14°34.4′	3108	13°54.1′	3655	37°44.2′	3213	61°16.7′	3130	83°14.3′	3106
16	15°03.7′	3106	13°28.2′	3701	38°12.8′	3210	61°45.9′	3130	83°43.7′	3106
17	15°33.1′	3104	13°02.6′	3753	38°41.4′	3207	62°15.1′	3130	84°13.0′	3106
18	16°02.4′	3101	12°37.4′	3810	39°10.1′	3205	62°44.3′	3130	84°42.4′	3106
19	16°31.8′	3099	12°12.4′	3874	39°38.8′	3202	63°13.4′	3130	85°11.7′	3106
20	17°01.2′	3098	11°47.8′	3947	40°07.5′	3200	63°42.6′	3130	85°41.1′	3106
21	17°30.6′	3096	11°23.6′	4028	40°36.2′	3197	64°11.8′	3130	86°10.4′	3106
22	18°00.0′	3094	10°59.9′	4121	41°05.0′	3195	64°41.0′	3130	86°39.8′	3106
23	18°29.5′	3093	10°36.7′	4226	41°33.7′	3193	65°10.2′	3130	87°09.1′	3106

Thu Aug 23, 2018 UTC

UTC	+Saturn		+Antares		+Jupiter		-Formalhaut		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	18°58.9'	3091	42°02.5'	3190	65°39.4'	3130	47°09.1'	3530	10°14.0'	4347
1	19°28.3'	3090	42°31.3'	3188	66°08.5'	3130	46°42.4'	3538	9°51.9'	4485
2	19°57.8'	3089	43°00.1'	3186	66°37.7'	3130	46°15.9'	3545	9°30.6'	4645
3	20°27.2'	3088	43°28.9'	3184	67°06.9'	3130	45°49.3'	3553	—	—
4	20°56.7'	3087	43°57.7'	3182	67°36.1'	3130	45°22.9'	3561	—	—
5	21°26.2'	3085	44°26.5'	3180	68°05.3'	3129	44°56.4'	3570	—	—
6	21°55.7'	3084	44°55.4'	3178	68°34.5'	3129	44°30.1'	3578	—	—
7	22°25.2'	3083	45°24.3'	3176	69°03.7'	3129	44°03.7'	3587	—	—
8	22°54.7'	3082	45°53.1'	3174	69°32.9'	3129	43°37.5'	3597	—	—
9	23°24.2'	3081	46°22.0'	3172	70°02.0'	3128	43°11.3'	3606	—	—
10	23°53.7'	3080	46°50.9'	3170	70°31.2'	3128	42°45.1'	3616	—	—
11	24°23.2'	3079	47°19.8'	3168	71°00.4'	3128	42°19.0'	3626	—	—
12	24°52.7'	3078	47°48.8'	3166	71°29.6'	3127	41°53.0'	3636	—	—
13	25°22.3'	3077	48°17.7'	3164	71°58.8'	3127	41°27.0'	3647	—	—
14	25°51.8'	3076	48°46.7'	3162	72°28.1'	3126	41°01.1'	3658	—	—
15	26°21.4'	3075	49°15.6'	3160	72°57.3'	3126	40°35.3'	3670	—	—
16	26°50.9'	3074	49°44.6'	3159	73°26.5'	3125	40°09.5'	3682	—	—
17	27°20.5'	3074	50°13.6'	3157	73°55.7'	3125	39°43.8'	3694	—	—
18	27°50.0'	3073	50°42.6'	3155	74°24.9'	3124	39°18.2'	3707	—	—
19	28°19.6'	3072	51°11.6'	3153	74°54.1'	3124	38°52.6'	3721	—	—
20	28°49.2'	3071	51°40.7'	3151	75°23.4'	3123	38°27.1'	3734	—	—
21	29°18.8'	3070	52°09.7'	3150	75°52.6'	3122	38°01.7'	3749	—	—
22	29°48.4'	3069	52°38.8'	3148	76°21.8'	3122	37°36.4'	3764	—	—
23	30°18.0'	3068	53°07.8'	3146	76°51.1'	3121	37°11.2'	3779	—	—

Fri Aug 24, 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	30°47.6'	3067	53°36.9'	3145	77°20.3'	3120	36°46.1'	3795	99°23.1'	3098
1	31°17.2'	3066	54°06.0'	3143	77°49.6'	3120	36°21.0'	3812	99°52.5'	3098
2	31°46.8'	3065	54°35.1'	3141	78°18.8'	3119	35°56.1'	3830	100°21.9'	3097
3	32°16.4'	3064	55°04.2'	3139	78°48.1'	3118	35°31.3'	3848	100°51.3'	3097
4	32°46.1'	3063	55°33.3'	3138	79°17.3'	3117	35°06.5'	3867	101°20.7'	3096
5	33°15.7'	3062	56°02.5'	3136	79°46.6'	3116	34°41.9'	3886	101°50.2'	3095
6	33°45.4'	3060	56°31.6'	3134	80°15.9'	3115	34°17.4'	3907	102°19.6'	3095
7	34°15.0'	3059	57°00.8'	3132	80°45.2'	3115	33°53.0'	3928	102°49.0'	3094
8	34°44.7'	3058	57°29.9'	3131	81°14.5'	3114	33°28.7'	3950	103°18.4'	3093
9	35°14.4'	3057	57°59.1'	3129	81°43.8'	3113	33°04.5'	3974	103°47.9'	3092
10	35°44.0'	3056	58°28.3'	3127	82°13.1'	3112	32°40.5'	3998	104°17.3'	3092
11	36°13.7'	3055	58°57.5'	3126	82°42.4'	3111	32°16.6'	4024	104°46.7'	3091
12	36°43.4'	3054	59°26.7'	3124	83°11.7'	3110	31°52.8'	4050	105°16.2'	3090
13	37°13.1'	3053	59°55.9'	3122	83°41.0'	3109	31°29.2'	4078	105°45.6'	3089
14	37°42.8'	3051	60°25.2'	3121	84°10.3'	3108	31°05.8'	4107	106°15.1'	3088
15	38°12.5'	3050	60°54.4'	3119	84°39.7'	3107	30°42.5'	4138	106°44.6'	3087
16	38°42.3'	3049	61°23.7'	3117	85°09.0'	3106	30°19.3'	4170	107°14.0'	3087
17	39°12.0'	3048	61°53.0'	3115	85°38.3'	3105	29°56.3'	4203	107°43.5'	3086
18	39°41.7'	3047	62°22.2'	3114	86°07.7'	3104	29°33.5'	4238	108°13.0'	3085
19	40°11.5'	3045	62°51.5'	3112	86°37.1'	3102	29°10.9'	4275	108°42.5'	3084
20	40°41.2'	3044	63°20.8'	3110	87°06.4'	3101	28°48.5'	4314	109°12.0'	3083
21	41°11.0'	3043	63°50.2'	3108	87°35.8'	3100	28°26.3'	4355	109°41.5'	3082
22	41°40.8'	3042	64°19.5'	3107	88°05.2'	3099	28°04.3'	4397	110°11.0'	3081
23	42°10.6'	3040	64°48.8'	3105	88°34.6'	3098	27°42.5'	4442	110°40.5'	3080

Sat Aug 25, 2018 UTC

UTC	+Mars		+Saturn		+Antares		+Jupiter		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	17°24.3'	3376	42°40.4'	3039	65°18.2'	3103	89°04.0'	3097	27°20.9'	4490
1	17°51.9'	3357	43°10.2'	3038	65°47.5'	3101	89°33.4'	3095	26°59.6'	4540
2	18°19.6'	3338	43°40.0'	3036	66°16.9'	3100	90°02.8'	3094	26°38.5'	4593
3	18°47.4'	3322	44°09.8'	3035	66°46.3'	3098	90°32.2'	3093	26°17.6'	4648
4	19°15.3'	3306	44°39.6'	3033	67°15.7'	3096	91°01.7'	3092	25°57.1'	4707
5	19°43.3'	3291	45°09.5'	3032	67°45.1'	3094	91°31.1'	3090	25°36.8'	4769
6	20°11.5'	3277	45°39.3'	3031	68°14.5'	3093	92°00.6'	3089	25°16.7'	4834
7	20°39.7'	3265	46°09.2'	3029	68°44.0'	3091	92°30.0'	3088	24°57.0'	4904
8	21°08.0'	3252	46°39.1'	3028	69°13.4'	3089	92°59.5'	3086	24°37.6'	4977
9	21°36.3'	3241	47°08.9'	3026	69°42.9'	3087	93°29.0'	3085	24°18.6'	5055
10	22°04.8'	3230	47°38.8'	3025	70°12.4'	3085	93°58.5'	3083	23°59.8'	5138
11	22°33.3'	3220	48°08.7'	3023	70°41.9'	3084	94°28.0'	3082	23°41.4'	5225
12	23°01.9'	3211	48°38.6'	3022	71°11.3'	3082	94°57.5'	3081	23°23.4'	5318
13	23°30.5'	3201	49°08.6'	3020	71°40.9'	3080	95°27.0'	3079	23°05.8'	5417
14	23°59.2'	3193	49°38.5'	3019	72°10.4'	3078	95°56.5'	3078	22°48.6'	5523
15	24°28.0'	3184	50°08.4'	3017	72°39.9'	3076	96°26.1'	3076	22°31.7'	5635
16	24°56.8'	3177	50°38.4'	3016	73°09.5'	3075	96°55.6'	3075	22°15.3'	5755
17	25°25.7'	3169	51°08.4'	3014	73°39.0'	3073	97°25.2'	3073	21°59.4'	5883
18	25°54.6'	3162	51°38.3'	3012	74°08.6'	3071	97°54.7'	3072	21°43.9'	6019
19	26°23.6'	3155	52°08.3'	3011	74°38.2'	3069	98°24.3'	3070	21°28.9'	6166
20	26°52.6'	3148	52°38.3'	3009	75°07.8'	3067	98°53.9'	3069	21°14.4'	6323
21	27°21.7'	3142	53°08.3'	3008	75°37.4'	3065	99°23.5'	3067	21°00.4'	6493
22	27°50.8'	3136	53°38.3'	3006	76°07.0'	3064	99°53.1'	3066	20°47.0'	6675
23	28°19.9'	3130	54°08.4'	3004	76°36.6'	3062	100°22.7'	3064	20°34.1'	6871

Sun Aug 26, 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	28°49.1'	3125	54°38.4'	3003	77°06.3'	3060	102°33.6'	3006	100°52.4'	3062
1	29°18.3'	3119	55°08.5'	3001	77°35.9'	3058	102°03.6'	3004	101°22.0'	3061
2	29°47.6'	3114	55°38.5'	2999	78°05.6'	3056	101°33.5'	3002	101°51.7'	3059
3	30°16.9'	3109	56°08.6'	2997	78°35.3'	3054	101°03.5'	3000	102°21.3'	3058
4	30°46.2'	3104	56°38.7'	2996	79°05.0'	3052	100°33.4'	2999	102°51.0'	3056
5	31°15.6'	3099	57°08.8'	2994	79°34.7'	3050	100°03.3'	2997	103°20.7'	3054
6	31°45.0'	3094	57°38.9'	2992	80°04.4'	3048	99°33.2'	2995	103°50.4'	3053
7	32°14.4'	3090	58°09.0'	2990	80°34.2'	3047	99°03.1'	2994	104°20.1'	3051
8	32°43.8'	3085	58°39.2'	2989	81°03.9'	3045	98°33.0'	2992	104°49.8'	3049
9	33°13.3'	3081	59°09.3'	2987	81°33.7'	3043	98°02.9'	2990	105°19.5'	3048
10	33°42.8'	3077	59°39.5'	2985	82°03.5'	3041	97°32.7'	2988	105°49.3'	3046
11	34°12.4'	3073	60°09.7'	2983	82°33.3'	3039	97°02.6'	2986	106°19.0'	3044
12	34°42.0'	3069	60°39.9'	2981	83°03.1'	3037	96°32.4'	2985	106°48.8'	3042
13	35°11.6'	3065	61°10.1'	2980	83°32.9'	3035	96°02.2'	2983	107°18.6'	3041
14	35°41.2'	3061	61°40.3'	2978	84°02.7'	3033	95°32.0'	2981	107°48.4'	3039
15	36°10.8'	3057	62°10.5'	2976	84°32.6'	3031	95°01.8'	2979	108°18.2'	3037
16	36°40.5'	3053	62°40.7'	2974	85°02.4'	3029	94°31.6'	2977	108°48.0'	3035
17	37°10.2'	3050	63°11.0'	2972	85°32.3'	3027	94°01.4'	2975	109°17.8'	3034
18	37°40.0'	3046	63°41.2'	2970	86°02.2'	3025	93°31.1'	2973	109°47.7'	3032
19	38°09.7'	3043	64°11.5'	2968	86°32.1'	3023	93°00.9'	2972	110°17.5'	3030
20	38°39.5'	3039	64°41.8'	2966	87°02.0'	3021	92°30.6'	2970	110°47.4'	3028
21	39°09.3'	3036	65°12.1'	2964	87°31.9'	3019	92°00.3'	2968	111°17.3'	3026
22	39°39.1'	3033	65°42.4'	2962	88°01.8'	3017	91°30.0'	2966	111°47.2'	3024
23	40°09.0'	3029	66°12.8'	2960	88°31.8'	3015	90°59.7'	2964	112°17.1'	3023

Mon Aug 27, 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	40°38.8'	3026	66°43.1'	2958	90°29.4'	2962	89°01.8'	3013	108°04.3'	3083
1	41°08.7'	3023	67°13.5'	2956	89°59.1'	2960	89°31.7'	3011	107°34.8'	3080
2	41°38.6'	3020	67°43.9'	2954	89°28.7'	2958	90°01.7'	3009	107°05.2'	3078
3	42°08.6'	3016	68°14.2'	2952	88°58.4'	2956	90°31.7'	3007	106°35.7'	3075
4	42°38.5'	3013	68°44.6'	2950	88°28.0'	2954	91°01.8'	3005	106°06.1'	3072
5	43°08.5'	3010	69°15.1'	2948	87°57.6'	2952	91°31.8'	3003	105°36.6'	3070
6	43°38.5'	3007	69°45.5'	2946	87°27.2'	2950	92°01.8'	3001	105°07.0'	3067
7	44°08.5'	3004	70°15.9'	2944	86°56.8'	2948	92°31.9'	2999	104°37.4'	3064
8	44°38.6'	3001	70°46.4'	2942	86°26.3'	2946	93°02.0'	2997	104°07.7'	3062
9	45°08.6'	2998	71°16.9'	2940	85°55.9'	2943	93°32.1'	2995	103°38.1'	3059
10	45°38.7'	2995	71°47.4'	2938	85°25.4'	2941	94°02.2'	2993	103°08.4'	3057
11	46°08.8'	2992	72°17.9'	2936	84°54.9'	2939	94°32.3'	2991	102°38.7'	3054
12	46°38.9'	2990	72°48.4'	2934	84°24.4'	2937	95°02.4'	2989	102°09.0'	3052
13	47°09.1'	2987	73°18.9'	2932	83°53.9'	2935	95°32.6'	2987	101°39.3'	3049
14	47°39.2'	2984	73°49.5'	2930	83°23.4'	2933	96°02.7'	2985	101°09.6'	3047
15	48°09.4'	2981	74°20.0'	2927	82°52.9'	2931	96°32.9'	2983	100°39.8'	3044
16	48°39.6'	2978	74°50.6'	2925	82°22.3'	2929	97°03.1'	2981	100°10.1'	3041
17	49°09.9'	2975	75°21.2'	2923	81°51.7'	2926	97°33.3'	2979	99°40.3'	3039
18	49°40.1'	2973	75°51.8'	2921	81°21.1'	2924	98°03.5'	2977	99°10.5'	3036
19	50°10.4'	2970	76°22.4'	2919	80°50.5'	2922	98°33.8'	2975	98°40.7'	3034
20	50°40.6'	2967	76°53.1'	2917	80°19.9'	2920	99°04.0'	2973	98°10.8'	3031
21	51°10.9'	2964	77°23.7'	2914	79°49.3'	2918	99°34.3'	2970	97°41.0'	3029
22	51°41.3'	2961	77°54.4'	2912	79°18.6'	2915	100°04.6'	2968	97°11.1'	3026
23	52°11.6'	2959	78°25.1'	2910	78°48.0'	2913	100°34.8'	2966	96°41.2'	3024

Tue Aug 28, 2018 UTC

UTC	+Mars		-Aldebaran		+Saturn		-Betelgeuse		+Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	52°42.0'	2956	78°17.3'	2911	78°55.8'	2908	96°11.3'	3022	101°05.1'	2964
1	53°12.3'	2953	77°46.6'	2909	79°26.5'	2905	95°41.4'	3019	101°35.5'	2962
2	53°42.7'	2951	77°15.9'	2906	79°57.2'	2903	95°11.5'	3017	102°05.8'	2960
3	54°13.2'	2948	76°45.2'	2904	80°28.0'	2901	94°41.5'	3014	102°36.2'	2958
4	54°43.6'	2945	76°14.4'	2902	80°58.7'	2899	94°11.5'	3012	103°06.5'	2956
5	55°14.0'	2942	75°43.7'	2899	81°29.5'	2896	93°41.5'	3009	103°36.9'	2954
6	55°44.5'	2940	75°12.9'	2897	82°00.3'	2894	93°11.5'	3007	104°07.3'	2952
7	56°15.0'	2937	74°42.1'	2895	82°31.1'	2892	92°41.5'	3004	104°37.7'	2950
8	56°45.5'	2934	74°11.3'	2892	83°02.0'	2889	92°11.5'	3002	105°08.1'	2948
9	57°16.0'	2932	73°40.5'	2890	83°32.8'	2887	91°41.4'	3000	105°38.6'	2945
10	57°46.6'	2929	73°09.6'	2888	84°03.7'	2885	91°11.3'	2997	106°09.0'	2943
11	58°17.2'	2926	72°38.8'	2885	84°34.6'	2882	90°41.2'	2995	106°39.5'	2941
12	58°47.7'	2924	72°07.9'	2883	85°05.5'	2880	90°11.1'	2992	107°09.9'	2939
13	59°18.4'	2921	71°37.0'	2880	85°36.4'	2877	89°41.0'	2990	107°40.4'	2937
14	59°49.0'	2918	71°06.1'	2878	86°07.3'	2875	89°10.9'	2988	108°11.0'	2935
15	60°19.6'	2916	70°35.1'	2876	86°38.3'	2873	88°40.7'	2985	108°41.5'	2933
16	60°50.3'	2913	70°04.2'	2873	87°09.2'	2870	88°10.5'	2983	109°12.0'	2931
17	61°21.0'	2910	69°33.2'	2871	87°40.2'	2868	87°40.3'	2980	109°42.6'	2929
18	61°51.7'	2908	69°02.3'	2868	88°11.2'	2865	87°10.1'	2978	110°13.1'	2927
19	62°22.4'	2905	68°31.3'	2866	88°42.2'	2863	86°39.9'	2976	110°43.7'	2925
20	62°53.1'	2902	68°00.2'	2863	89°13.3'	2860	86°09.7'	2973	111°14.3'	2922
21	63°23.9'	2899	67°29.2'	2861	89°44.3'	2858	85°39.4'	2971	111°44.9'	2920
22	63°54.6'	2897	66°58.2'	2858	90°15.4'	2855	85°09.1'	2969	112°15.6'	2918
23	64°25.4'	2894	66°27.1'	2856	90°46.5'	2853	84°38.9'	2966	112°46.2'	2916

Wed Aug 29, 2018 UTC

UTC	−Aldebaran		+Mars		+Formalhaut		+Saturn		−Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	65°56.0′	2853	64°56.3′	2891	33°19.9′	3730	91°17.6′	2850	84°08.5′	2964
1	65°24.9′	2850	65°27.1′	2889	33°45.3′	3704	91°48.7′	2848	83°38.2′	2962
2	64°53.8′	2848	65°57.9′	2886	34°10.9′	3679	92°19.9′	2845	83°07.9′	2959
3	64°22.6′	2845	66°28.8′	2883	34°36.6′	3654	92°51.0′	2843	82°37.5′	2957
4	63°51.5′	2843	66°59.7′	2881	35°02.5′	3631	93°22.2′	2840	82°07.2′	2955
5	63°20.3′	2840	67°30.6′	2878	35°28.5′	3608	93°53.4′	2837	81°36.8′	2952
6	62°49.1′	2837	68°01.5′	2875	35°54.6′	3587	94°24.6′	2835	81°06.4′	2950
7	62°17.9′	2835	68°32.5′	2872	36°20.9′	3565	94°55.9′	2832	80°35.9′	2948
8	61°46.6′	2832	69°03.5′	2870	36°47.3′	3545	95°27.1′	2830	80°05.5′	2945
9	61°15.4′	2830	69°34.4′	2867	37°13.8′	3525	95°58.4′	2827	79°35.1′	2943
10	60°44.1′	2827	70°05.5′	2864	37°40.5′	3506	96°29.7′	2824	79°04.6′	2941
11	60°12.8′	2824	70°36.5′	2861	38°07.2′	3488	97°01.0′	2822	78°34.1′	2938
12	59°41.5′	2821	71°07.5′	2859	38°34.1′	3470	97°32.3′	2819	78°03.6′	2936
13	59°10.2′	2819	71°38.6′	2856	39°01.1′	3453	98°03.7′	2816	77°33.1′	2934
14	58°38.8′	2816	72°09.7′	2853	39°28.2′	3436	98°35.1′	2813	77°02.6′	2932
15	58°07.4′	2813	72°40.8′	2850	39°55.4′	3420	99°06.5′	2811	76°32.0′	2929
16	57°36.0′	2811	73°11.9′	2847	40°22.7′	3404	99°37.9′	2808	76°01.4′	2927
17	57°04.6′	2808	73°43.1′	2845	40°50.1′	3389	100°09.3′	2805	75°30.9′	2925
18	56°33.2′	2805	74°14.2′	2842	41°17.6′	3374	100°40.7′	2802	75°00.3′	2923
19	56°01.7′	2802	74°45.4′	2839	41°45.2′	3360	101°12.2′	2800	74°29.7′	2921
20	55°30.3′	2799	75°16.6′	2836	42°12.8′	3346	101°43.7′	2797	73°59.0′	2918
21	54°58.8′	2797	75°47.8′	2833	42°40.6′	3332	102°15.2′	2794	73°28.4′	2916
22	54°27.3′	2794	76°19.1′	2831	43°08.5′	3319	102°46.8′	2791	72°57.7′	2914
23	53°55.7′	2791	76°50.4′	2828	43°36.4′	3306	103°18.3′	2788	72°27.1′	2912

Thu Aug 30, 2018 UTC

UTC	−Aldebaran		+Formalhaut		+Mars		−Betelgeuse		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	53°24.2′	2788	44°04.4′	3293	77°21.6′	2825	71°56.4′	2910	97°33.7′	2827
1	52°52.6′	2785	44°32.5′	3281	77°53.0′	2822	71°25.7′	2908	97°02.4′	2824
2	52°21.0′	2782	45°00.7′	3269	78°24.3′	2819	70°55.0′	2905	96°31.1′	2821
3	51°49.4′	2779	45°29.0′	3257	78°55.6′	2816	70°24.2′	2903	95°59.8′	2818
4	51°17.7′	2776	45°57.3′	3246	79°27.0′	2813	69°53.5′	2901	95°28.4′	2815
5	50°46.1′	2773	46°25.8′	3234	79°58.4′	2810	69°22.7′	2899	94°57.0′	2812
6	50°14.4′	2770	46°54.3′	3223	80°29.8′	2807	68°51.9′	2897	94°25.6′	2809
7	49°42.7′	2767	47°22.8′	3213	81°01.2′	2804	68°21.1′	2895	93°54.2′	2806
8	49°11.0′	2764	47°51.5′	3202	81°32.7′	2802	67°50.3′	2893	93°22.7′	2803
9	48°39.2′	2761	48°20.2′	3192	82°04.2′	2799	67°19.5′	2891	92°51.3′	2800
10	48°07.5′	2758	48°48.9′	3182	82°35.7′	2796	66°48.7′	2889	92°19.8′	2797
11	47°35.7′	2755	49°17.8′	3172	83°07.2′	2793	66°17.8′	2887	91°48.3′	2794
12	47°03.9′	2752	49°46.7′	3163	83°38.7′	2790	65°47.0′	2885	91°16.7′	2790
13	46°32.0′	2749	50°15.6′	3153	84°10.3′	2787	65°16.1′	2883	90°45.2′	2787
14	46°00.2′	2746	50°44.7′	3144	84°41.9′	2784	64°45.2′	2881	90°13.6′	2784
15	45°28.3′	2743	51°13.7′	3135	85°13.5′	2781	64°14.3′	2879	89°42.0′	2781
16	44°56.4′	2740	51°42.9′	3126	85°45.1′	2778	63°43.4′	2878	89°10.4′	2778
17	44°24.4′	2737	52°12.1′	3117	86°16.8′	2774	63°12.4′	2876	88°38.7′	2775
18	43°52.5′	2734	52°41.4′	3109	86°48.5′	2771	62°41.5′	2874	88°07.0′	2772
19	43°20.5′	2731	53°10.7′	3100	87°20.1′	2768	62°10.5′	2872	87°35.4′	2768
20	42°48.5′	2727	53°40.1′	3092	87°51.9′	2765	61°39.6′	2870	87°03.6′	2765
21	42°16.5′	2724	54°09.5′	3084	88°23.6′	2762	61°08.6′	2869	86°31.9′	2762
22	41°44.5′	2721	54°39.0′	3076	88°55.4′	2759	60°37.6′	2867	86°00.1′	2759
23	41°12.4′	2718	55°08.6′	3068	89°27.2′	2756	60°06.6′	2865	85°28.3′	2756

Fri Aug 31, 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	40°40.3′	2715	59°35.6′	2864	55°38.2′	3060	84°56.5′	2753	89°59.0′	2753
1	40°08.2′	2711	59°04.5′	2862	56°07.8′	3053	84°24.7′	2749	90°30.8′	2750
2	39°36.1′	2708	58°33.5′	2861	56°37.5′	3045	83°52.8′	2746	91°02.7′	2746
3	39°03.9′	2705	58°02.4′	2859	57°07.3′	3038	83°21.0′	2743	91°34.5′	2743
4	38°31.7′	2702	57°31.4′	2858	57°37.1′	3030	82°49.1′	2740	92°06.4′	2740
5	37°59.5′	2698	57°00.3′	2856	58°07.0′	3023	82°17.1′	2736	92°38.4′	2737
6	37°27.3′	2695	56°29.2′	2855	58°36.9′	3016	81°45.2′	2733	93°10.3′	2734
7	36°55.0′	2692	55°58.1′	2854	59°06.9′	3009	81°13.2′	2730	93°42.3′	2731
8	36°22.7′	2688	55°27.0′	2852	59°36.9′	3002	80°41.2′	2727	94°14.3′	2727
9	35°50.4′	2685	54°55.9′	2851	60°06.9′	2995	80°09.2′	2723	94°46.3′	2724
10	35°18.1′	2682	54°24.8′	2850	60°37.0′	2989	79°37.1′	2720	95°18.3′	2721
11	34°45.7′	2678	53°53.7′	2849	61°07.2′	2982	79°05.0′	2717	95°50.4′	2717
12	34°13.3′	2675	53°22.5′	2848	61°37.4′	2975	78°32.9′	2713	96°22.5′	2714
13	33°40.9′	2671	52°51.4′	2847	62°07.6′	2969	78°00.8′	2710	96°54.6′	2711
14	33°08.5′	2668	52°20.2′	2846	62°37.9′	2962	77°28.7′	2707	97°26.8′	2708
15	32°36.0′	2665	51°49.1′	2845	63°08.2′	2956	76°56.5′	2703	97°58.9′	2704
16	32°03.6′	2661	51°17.9′	2845	63°38.6′	2950	76°24.3′	2700	98°31.1′	2701
17	31°31.0′	2658	50°46.8′	2844	64°09.0′	2943	75°52.1′	2697	99°03.3′	2698
18	30°58.5′	2654	50°15.6′	2843	64°39.5′	2937	75°19.8′	2693	99°35.6′	2694
19	30°25.9′	2651	49°44.4′	2843	65°10.0′	2931	74°47.6′	2690	100°07.8′	2691
20	29°53.4′	2647	49°13.2′	2842	65°40.6′	2925	74°15.3′	2687	100°40.1′	2687
21	29°20.7′	2644	48°42.0′	2842	66°11.1′	2919	73°42.9′	2683	101°12.4′	2684
22	28°48.1′	2640	48°10.9′	2842	66°41.8′	2913	73°10.6′	2680	101°44.8′	2681
23	28°15.4′	2637	47°39.7′	2842	67°12.5′	2907	72°38.2′	2676	102°17.1′	2677