

## JULY 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>1 UT</b>	<b>+Sun</b>	<b>–Mars</b>	<b>–Spica</b>	<b>–Sabik</b>	<b>–Shaula</b>
0	40 33.4 3481	58 58.2 3226	64 31.1 3083	119 2.1 3088	122 44.9 3393
3	41 54.2 3480	57 32.6 3227	63 2.6 3083	117 33.7 3088	121 22.5 3384
6	43 15.0 3478	56 7.0 3227	61 34.1 3083	116 5.3 3088	119 60.0 3375
9	44 35.8 3477	54 41.4 3227	60 5.6 3083	114 36.9 3087	118 37.2 3367
12	45 56.6 3474	53 15.8 3227	58 37.1 3082	113 8.5 3086	117 14.3 3358
15	47 17.5 3472	51 50.2 3226	57 8.5 3081	111 40.1 3085	115 51.3 3350
18	48 38.4 3469	50 24.6 3225	55 40.0 3080	110 11.6 3084	114 28.1 3343
21	49 59.3 3467	48 58.9 3223	54 11.5 3078	108 43.1 3081	113 4.7 3335
<b>2 UT</b>	<b>+Sun</b>	<b>–Mars</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Kaus Aust.</b>
0	51 20.3 3463	47 33.2 3222	52 42.9 3076	75 51.7 3062	122 16.1 3306
3	52 41.4 3460	46 7.5 3219	51 14.2 3074	74 22.7 3059	120 52.0 3296
6	54 2.6 3456	44 41.7 3216	49 45.5 3071	72 53.8 3056	119 27.7 3287
9	55 23.8 3452	43 15.9 3213	48 16.8 3068	71 24.7 3053	118 3.3 3278
12	56 45.1 3447	41 50.0 3209	46 48.0 3065	69 55.6 3049	116 38.7 3268
15	58 6.5 3442	40 24.1 3206	45 19.1 3061	68 26.4 3046	115 13.9 3260
18	59 27.9 3436	38 58.1 3202	43 50.2 3057	66 57.2 3041	113 48.9 3250
21	60 49.5 3431	37 32.0 3197	42 21.2 3052	65 27.8 3036	112 23.8 3241
<b>3 UT</b>	<b>+Sun</b>	<b>–Mars</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Nunki</b>
0	62 11.2 3425	36 5.8 3192	40 52.0 3048	63 58.3 3031	119 5.9 3102
3	63 33.0 3418	34 39.4 3186	39 22.8 3042	62 28.8 3026	117 37.7 3094
6	64 54.9 3411	33 13.0 3180	37 53.5 3036	60 59.1 3019	116 9.5 3087
9	66 17.0 3404	31 46.5 3173	36 24.0 3031	59 29.3 3013	114 41.1 3079
12	67 39.2 3395	30 19.8 3167	34 54.5 3024	57 59.4 3006	113 12.5 3071
15	69 1.5 3388	28 53.0 3160	33 24.8 3018	56 29.3 2999	111 43.7 3063
18	70 24.0 3378	27 26.1 3151	31 54.9 3010	54 59.1 2991	110 14.8 3053
21	71 46.7 3370	25 58.9 3144	30 24.9 3003	53 28.7 2983	108 45.7 3044
<b>4 UT</b>	<b>+Sun</b>	<b>+Regulus</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Antares</b>
0	73 9.6 3360	25 15.2 3057	28 54.8 2995	51 58.1 2974	74 42.9 3031
3	74 32.6 3350	26 44.2 3041	27 24.5 2988	50 27.4 2966	73 13.3 3023
6	75 55.8 3339	28 13.6 3025	25 54.0 2979	48 56.5 2956	71 43.6 3015
9	77 19.2 3328	29 43.3 3010	24 23.4 2972	47 25.3 2946	70 13.7 3006
12	78 42.9 3317	31 13.3 2995	22 52.6 2963	45 54.0 2936	68 43.6 2996
15	80 6.7 3305	32 43.6 2981	21 21.6 2956	44 22.5 2926	67 13.3 2987
18	81 30.8 3293	34 14.2 2965	19 50.5 2947	42 50.7 2914	65 42.9 2976
21	82 55.2 3280	35 45.1 2951	18 19.2 2940	41 18.7 2903	64 12.2 2967
<b>5 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Zubenelgen</b>	<b>–Antares</b>	<b>–Sabik</b>
0	84 19.7 3267	16 47.7 2933	38 4.8 2903	62 41.3 2956	71 17.6 2907
3	85 44.5 3254	15 16.1 2929	36 32.6 2891	61 10.1 2946	69 45.5 2895
6	87 9.6 3239	13 44.5 2926	35 0.1 2878	59 38.8 2934	68 13.0 2882
9	88 35.0 3226	12 12.7 2928	33 27.3 2865	58 7.2 2923	66 40.4 2869
12	90 0.6 3210	10 41.0 2937	31 54.3 2852	56 35.4 2912	65 7.4 2855
15	91 26.6 3196	9 9.5 2959	30 21.0 2839	55 3.4 2900	63 34.1 2842
18	92 52.8 3180	7 38.4 3009	28 47.4 2825	53 31.1 2888	62 0.6 2827
21	94 19.3 3165	6 8.4 3124	27 13.4 2811	51 58.5 2877	60 26.7 2813

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<b>6 UT</b>	<b>+Sun</b>	<b>–Sabik</b>	<b>–Shaula</b>	<b>–Kaus Aust.</b>	<b>–Nunki</b>
0	95 46.2 3147	58 52.5 2798	65 47.5 3062	75 49.4 2969	82 56.0 2836
3	97 13.4 3132	57 18.0 2783	64 18.6 3054	74 18.5 2956	81 22.3 2822
6	98 40.9 3115	55 43.2 2768	62 49.5 3046	72 47.4 2944	79 48.3 2807
9	100 8.7 3097	54 8.0 2752	61 20.2 3039	71 16.0 2931	78 14.0 2791
12	101 37.0 3080	52 32.5 2736	59 50.8 3032	69 44.4 2919	76 39.4 2775
15	103 5.5 3062	50 56.7 2720	58 21.3 3026	68 12.5 2906	75 4.4 2759
18	104 34.4 3044	49 20.5 2704	56 51.6 3021	66 40.3 2895	73 29.0 2743
21	106 3.7 3026	47 43.9 2687	55 21.9 3017	65 7.9 2883	71 53.3 2727
<b>7 UT</b>	<b>+Sun</b>	<b>–Sabik</b>	<b>–Shaula</b>	<b>–Kaus Aust.</b>	<b>–Nunki</b>
0	107 33.4 3007	46 6.9 2670	53 52.0 3014	63 35.2 2871	70 17.3 2711
3	109 3.5 2988	44 29.6 2653	52 22.1 3012	62 2.3 2860	68 40.8 2694
6	110 33.9 2970	42 51.9 2637	50 52.2 3013	60 29.1 2849	67 4.0 2678
9	112 4.7 2950	41 13.8 2619	49 22.2 3014	58 55.7 2839	65 26.9 2661
12	113 36.0 2932	39 35.4 2602	47 52.3 3018	57 22.1 2830	63 49.4 2644
15	115 7.6 2912	37 56.5 2585	46 22.5 3024	55 48.3 2821	62 11.5 2628
18	116 39.7 2893	36 17.3 2568	44 52.8 3033	54 14.3 2814	60 33.2 2611
21	118 12.1 2873	34 37.6 2551	43 23.3 3045	52 40.2 2807	58 54.5 2595
<b>8 UT</b>	<b>+Mars</b>	<b>–Sabik</b>	<b>–Kaus Aust.</b>	<b>–Nunki</b>	<b>–Altair</b>
0	24 23.3 2654	32 57.6 2534	51 5.9 2802	57 15.5 2579	77 18.7 2940
3	26 1.0 2635	31 17.2 2518	49 31.4 2798	55 36.1 2563	75 47.2 2928
6	27 39.1 2616	29 36.4 2502	47 57.0 2796	53 56.4 2547	74 15.5 2916
9	29 17.7 2597	27 55.3 2487	46 22.4 2796	52 16.3 2532	72 43.5 2906
12	30 56.7 2577	26 13.7 2472	44 47.9 2798	50 35.8 2517	71 11.3 2896
15	32 36.1 2558	24 31.9 2459	43 13.4 2804	48 55.0 2503	69 38.9 2888
18	34 15.9 2539	22 49.7 2446	41 39.0 2812	47 13.8 2488	68 6.4 2881
21	35 56.2 2520	21 7.2 2436	40 4.8 2824	45 32.3 2476	66 33.7 2875
<b>9 UT</b>	<b>+Mars</b>	<b>–Nunki</b>	<b>–Altair</b>	<b>–Enif</b>	<b>–Fomalhaut</b>
0	37 37.0 2501	43 50.6 2463	65 0.8 2871	91 37.1 2582	95 34.9 2792
3	39 18.2 2483	42 8.5 2452	63 27.9 2868	89 57.8 2563	94 0.3 2772
6	40 59.8 2464	40 26.1 2442	61 54.9 2868	88 18.0 2546	92 25.2 2753
9	42 41.8 2446	38 43.6 2433	60 21.9 2870	86 37.9 2529	90 49.7 2735
12	44 24.3 2428	37 0.8 2426	58 49.0 2873	84 57.3 2512	89 13.8 2717
15	46 7.2 2410	35 17.8 2421	57 16.1 2879	83 16.4 2496	87 37.5 2701
18	47 50.5 2393	33 34.8 2419	55 43.4 2889	81 35.1 2482	86 0.9 2686
21	49 34.3 2376	31 51.7 2419	54 10.8 2902	79 53.5 2467	84 23.9 2671
<b>10 UT</b>	<b>+Mars</b>	<b>–Altair</b>	<b>–Enif</b>	<b>–Fomalhaut</b>	<b>–Markab</b>
0	51 18.4 2358	52 38.6 2918	78 11.5 2454	82 46.6 2658	98 29.6 2414
3	53 3.0 2342	51 6.6 2938	76 29.2 2441	81 9.0 2646	96 46.4 2397
6	54 47.9 2327	49 35.1 2963	74 46.6 2430	79 31.2 2636	95 2.8 2380
9	56 33.3 2311	48 4.2 2994	73 3.7 2419	77 53.1 2626	93 18.7 2364
12	58 19.0 2295	46 33.8 3030	71 20.6 2410	76 14.7 2618	91 34.3 2349
15	60 5.1 2281	45 4.2 3073	69 37.3 2401	74 36.3 2612	89 49.5 2335
18	61 51.5 2267	43 35.6 3124	67 53.8 2394	72 57.6 2608	88 4.4 2321
21	63 38.3 2253	42 7.9 3185	66 10.0 2389	71 18.9 2605	86 18.9 2309

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<b>11 UT</b>	<b>+Mars</b>	<b>+Sabik</b>	<b>–Enif</b>	<b>–Fomalhaut</b>	<b>–Markab</b>
0	65 25.4 2240	10 2.4 2298	64 26.2 2384	69 40.1 2603	84 33.1 2297
3	67 12.9 2228	11 48.5 2234	62 42.3 2381	68 1.3 2604	82 47.1 2286
6	69 0.6 2216	13 36.1 2190	60 58.2 2381	66 22.5 2607	81 0.8 2277
9	70 48.7 2205	15 24.8 2155	59 14.2 2381	64 43.7 2612	79 14.2 2268
12	72 37.0 2195	17 14.3 2129	57 30.2 2384	63 5.1 2621	77 27.5 2261
15	74 25.6 2185	19 4.6 2108	55 46.2 2389	61 26.7 2631	75 40.6 2255
18	76 14.4 2175	20 55.3 2089	54 2.4 2397	59 48.5 2644	73 53.5 2249
21	78 3.5 2167	22 46.6 2074	52 18.8 2407	58 10.6 2661	72 6.2 2246
<b>12 UT</b>	<b>+Saturn</b>	<b>+Shaula</b>	<b>–Enif</b>	<b>–Fomalhaut</b>	<b>–Markab</b>
0	56 4.7 2022	25 54.0 3465	50 35.4 2420	56 33.0 2681	70 18.9 2243
3	57 57.7 2015	27 15.0 3283	48 52.3 2436	54 56.0 2705	68 31.6 2242
6	59 50.9 2009	28 39.5 3132	47 9.5 2456	53 19.4 2734	66 44.2 2242
9	61 44.2 2003	30 7.0 3004	45 27.3 2481	51 43.5 2766	64 56.8 2244
12	63 37.7 1998	31 37.1 2898	43 45.7 2510	50 8.3 2805	63 9.4 2247
15	65 31.3 1994	33 9.5 2807	42 4.7 2544	48 34.0 2850	61 22.1 2252
18	67 25.0 1991	34 43.8 2730	40 24.5 2586	47 0.6 2900	59 35.0 2259
21	69 18.8 1988	36 19.8 2664	38 45.3 2634	45 28.3 2959	57 48.0 2268
<b>13 UT</b>	<b>+Antares</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Markab</b>	<b>–Hamal</b>
0	48 56.6 2066	27 44.7 2844	17 34.7 2508	56 1.2 2279	98 46.6 2075
3	50 48.5 2062	29 18.2 2747	19 15.8 2417	54 14.7 2292	96 55.0 2073
6	52 40.4 2058	30 53.8 2667	20 58.9 2349	52 28.5 2308	95 3.3 2072
9	54 32.5 2055	32 31.2 2601	22 43.7 2297	50 42.7 2325	93 11.6 2072
12	56 24.6 2054	34 10.1 2545	24 29.8 2257	48 57.4 2347	91 19.9 2073
15	58 16.8 2053	35 50.3 2499	26 16.8 2225	47 12.5 2372	89 28.3 2075
18	60 8.9 2054	37 31.5 2459	28 4.6 2201	45 28.3 2400	87 36.7 2078
21	62 1.1 2055	39 13.7 2427	29 53.1 2182	43 44.7 2432	85 45.1 2082
<b>14 UT</b>	<b>+Antares</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Markab</b>	<b>–Hamal</b>
0	63 53.2 2058	40 56.6 2400	31 42.0 2168	42 1.9 2470	83 53.7 2087
3	65 45.3 2061	42 40.2 2377	33 31.2 2157	40 20.0 2512	82 2.4 2093
6	67 37.3 2065	44 24.3 2358	35 20.7 2149	38 39.1 2561	80 11.2 2099
9	69 29.2 2070	46 8.9 2344	37 10.5 2144	36 59.3 2618	78 20.2 2107
12	71 20.9 2076	47 53.8 2332	39 0.3 2142	35 20.8 2683	76 29.4 2115
15	73 12.5 2083	49 39.0 2323	40 50.2 2141	33 43.8 2759	74 38.8 2124
18	75 3.9 2090	51 24.4 2317	42 40.2 2142	32 8.4 2847	72 48.5 2134
21	76 55.2 2098	53 10.0 2312	44 30.1 2144	30 35.0 2951	70 58.4 2145
<b>15 UT</b>	<b>+Rasalhague</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>+Altair</b>	<b>–Venus</b>
0	67 57.4 2880	54 55.6 2310	46 19.9 2148	35 26.2 3519	117 19.9 2435
3	69 30.1 2870	56 41.4 2309	48 9.7 2153	36 46.3 3406	115 37.2 2445
6	71 3.1 2863	58 27.1 2311	49 59.3 2159	38 8.4 3309	113 54.7 2457
9	72 36.1 2858	60 12.9 2313	51 48.8 2166	39 32.4 3226	112 12.4 2469
12	74 9.3 2855	61 58.5 2317	53 38.1 2174	40 58.1 3155	110 30.5 2481
15	75 42.6 2855	63 44.1 2322	55 27.2 2183	42 25.1 3094	108 48.9 2494
18	77 15.9 2857	65 29.5 2329	57 16.1 2193	43 53.4 3043	107 7.5 2508
21	78 49.1 2860	67 14.8 2336	59 4.7 2203	45 22.7 2999	105 26.5 2521

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<b>16 UT</b>	<b>+Shaula</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>+Altair</b>	<b>–Venus</b>
0	79 30.1 2382	68 59.9 2345	60 53.1 2214	46 52.9 2962	103 45.7 2536
3	81 14.1 2394	70 44.8 2354	62 41.2 2225	48 23.9 2931	102 5.4 2550
6	82 57.8 2406	72 29.4 2364	64 29.0 2238	49 55.6 2905	100 25.3 2566
9	84 41.2 2419	74 13.9 2375	66 16.5 2250	51 27.8 2883	98 45.6 2581
12	86 24.3 2433	75 58.0 2387	68 3.7 2263	53 0.4 2865	97 6.3 2597
15	88 7.1 2447	77 41.9 2399	69 50.6 2277	54 33.5 2852	95 27.3 2614
18	89 49.6 2462	79 25.5 2412	71 37.2 2291	56 6.8 2841	93 48.7 2630
21	91 31.7 2478	81 8.8 2426	73 23.4 2305	57 40.4 2832	92 10.5 2647
<b>17 UT</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>+Altair</b>	<b>–Venus</b>	<b>–Sun</b>
0	82 51.7 2440	75 9.2 2320	59 14.2 2827	90 32.7 2664	116 46.3 2594
3	84 34.3 2455	76 54.7 2335	60 48.0 2823	88 55.2 2681	115 7.2 2610
6	86 16.6 2470	78 39.8 2350	62 22.0 2822	87 18.1 2698	113 28.6 2626
9	87 58.5 2485	80 24.6 2365	63 56.0 2822	85 41.4 2715	111 50.2 2643
12	89 40.1 2501	82 9.0 2381	65 29.9 2824	84 5.1 2733	110 12.3 2659
15	91 21.3 2518	83 53.1 2397	67 3.9 2828	82 29.2 2752	108 34.7 2676
18	93 2.1 2534	85 36.7 2412	68 37.7 2832	80 53.7 2769	106 57.5 2693
21	94 42.5 2551	87 20.0 2428	70 11.5 2838	79 18.5 2787	105 20.7 2710
<b>18 UT</b>	<b>+Nunki</b>	<b>+Altair</b>	<b>+Enif</b>	<b>–Venus</b>	<b>–Sun</b>
0	89 2.9 2444	71 45.1 2845	43 47.1 2873	77 43.8 2805	103 44.3 2727
3	90 45.4 2460	73 18.6 2853	45 20.0 2861	76 9.5 2823	102 8.2 2744
6	92 27.5 2477	74 51.9 2862	46 53.1 2853	74 35.5 2840	100 32.6 2761
9	94 9.3 2493	76 25.0 2872	48 26.5 2847	73 1.9 2859	98 57.3 2779
12	95 50.7 2509	77 57.9 2883	49 59.9 2843	71 28.7 2877	97 22.3 2796
15	97 31.7 2525	79 30.6 2894	51 33.4 2842	69 55.9 2895	95 47.8 2812
18	99 12.3 2542	81 3.0 2906	53 7.0 2842	68 23.5 2912	94 13.6 2830
21	100 52.5 2558	82 35.2 2918	54 40.5 2843	66 51.5 2930	92 39.8 2846
<b>19 UT</b>	<b>+Enif</b>	<b>+Markab</b>	<b>–Aldebaran</b>	<b>–Venus</b>	<b>–Sun</b>
0	56 14.1 2846	36 31.1 3089	45 4.0 2529	65 19.8 2948	91 6.3 2863
3	57 47.5 2849	37 59.5 3063	43 23.5 2545	63 48.5 2965	89 33.3 2880
6	59 20.9 2854	39 28.4 3043	41 43.3 2560	62 17.6 2982	88 0.5 2896
9	60 54.2 2860	40 57.7 3027	40 3.5 2576	60 47.0 3000	86 28.1 2913
12	62 27.3 2867	42 27.3 3013	38 24.1 2591	59 16.8 3016	84 56.1 2928
15	64 0.4 2873	43 57.2 3004	36 45.0 2607	57 46.9 3034	83 24.4 2945
18	65 33.2 2880	45 27.4 2995	35 6.2 2621	56 17.4 3050	81 53.0 2960
21	67 5.9 2889	46 57.7 2990	33 27.8 2637	54 48.2 3067	80 22.0 2977
<b>20 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>–Aldebaran</b>	<b>–Venus</b>	<b>–Sun</b>
0	65 38.6 3160	48 28.1 2986	31 49.7 2651	53 19.4 3083	78 51.3 2992
3	67 5.6 3161	49 58.6 2984	30 12.0 2666	51 50.9 3100	77 20.9 3007
6	68 32.5 3164	51 29.1 2984	28 34.6 2681	50 22.8 3116	75 50.9 3023
9	69 59.3 3168	52 59.6 2984	26 57.5 2696	48 55.0 3132	74 21.1 3037
12	71 26.1 3172	54 30.1 2985	25 20.7 2711	47 27.5 3147	72 51.7 3051
15	72 52.8 3176	56 0.7 2988	23 44.3 2725	46 0.3 3164	71 22.5 3066
18	74 19.4 3182	57 31.1 2991	22 8.2 2740	44 33.4 3179	69 53.7 3080
21	75 45.9 3188	59 1.5 2995	20 32.5 2755	43 6.8 3194	68 25.1 3094

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<b>21 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>–Aldebaran</b>	<b>–Venus</b>	<b>–Sun</b>
0	77 12.3 3194	60 31.8 2999	18 57.0 2771	41 40.6 3210	66 56.9 3108
3	78 38.6 3201	62 2.0 3004	17 21.9 2787	40 14.6 3225	65 28.9 3121
6	80 4.7 3209	63 32.2 3009	15 47.2 2805	38 49.0 3240	64 1.1 3134
9	81 30.7 3217	65 2.2 3014	14 12.8 2824	37 23.6 3255	62 33.7 3147
12	82 56.5 3225	66 32.1 3020	12 38.9 2847	35 58.6 3270	61 6.5 3160
15	84 22.1 3234	68 1.9 3026	11 5.5 2875	34 33.8 3285	59 39.5 3172
18	85 47.6 3243	69 31.5 3032	9 32.6 2913	33 9.3 3301	58 12.8 3184
21	87 12.9 3252	71 1.1 3039	8 0.6 2970	31 45.2 3316	56 46.4 3197
<b>22 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>+Hamal</b>	<b>–Venus</b>	<b>–Sun</b>
0	88 38.0 3261	72 30.5 3045	29 4.3 3195	30 21.3 3331	55 20.2 3208
3	90 3.0 3272	73 59.7 3053	30 30.6 3173	28 57.7 3348	53 54.2 3220
6	91 27.7 3282	75 28.8 3059	31 57.3 3156	27 34.4 3364	52 28.5 3232
9	92 52.2 3292	76 57.8 3066	33 24.3 3141	26 11.5 3381	51 2.9 3243
12	94 16.6 3303	78 26.7 3073	34 51.6 3130	24 48.9 3400	49 37.6 3254
15	95 40.7 3314	79 55.4 3080	36 19.1 3121	23 26.6 3419	48 12.6 3265
18	97 4.6 3326	81 23.9 3087	37 46.8 3114	22 4.7 3439	46 47.7 3276
21	98 28.3 3337	82 52.3 3094	39 14.7 3108	20 43.2 3462	45 23.1 3287
<b>23 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>+Aldebaran</b>	<b>–Venus</b>	<b>–Sun</b>
0	99 51.8 3350	84 20.6 3102	6 25.0 3057	19 22.1 3488	43 58.6 3297
3	101 15.0 3362	85 48.7 3109	7 54.1 3017	18 1.4 3517	42 34.4 3307
6	102 38.0 3376	87 16.7 3116	9 23.9 2997	16 41.4 3552	41 10.3 3319
9	104 0.7 3389	88 44.5 3124	10 54.2 2987	15 21.9 3594	39 46.5 3328
12	105 23.2 3403	90 12.2 3131	12 24.6 2983	14 3.3 3647	38 22.9 3339
15	106 45.4 3417	91 39.7 3138	13 55.2 2981	12 45.5 3714	36 59.5 3350
18	108 7.3 3433	93 7.1 3146	15 25.8 2982	11 29.0 3805	35 36.2 3361
21	109 29.0 3448	94 34.3 3153	16 56.4 2984	10 14.1 3933	34 13.2 3371
<b>24 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>+Mirfak</b>	<b>+Aldebaran</b>	<b>–Sun</b>
0	110 50.3 3464	96 1.4 3161	42 47.7 5177	18 26.9 2988	32 50.4 3383
3	112 11.4 3481	97 28.3 3169	43 42.3 5059	19 57.4 2991	31 27.8 3394
6	113 32.1 3499	98 55.1 3176	44 38.5 4953	21 27.8 2994	30 5.4 3405
9	114 52.5 3518	100 21.7 3184	45 36.0 4856	22 58.1 2999	28 43.3 3419
12	116 12.6 3538	101 48.1 3192	46 34.8 4769	24 28.3 3003	27 21.4 3432
15	117 32.3 3558	103 14.5 3200	47 34.9 4689	25 58.5 3007	25 59.7 3446
18	118 51.6 3580	104 40.6 3209	48 36.0 4616	27 28.5 3011	24 38.3 3462
21	120 10.6 3602	106 6.6 3216	49 38.2 4549	28 58.5 3015	23 17.2 3478
<b>25 UT</b>	<b>+Markab</b>	<b>+Rigel</b>	<b>+Capella</b>	<b>+Aldebaran</b>	<b>–Sun</b>
0	107 32.4 3224	34 19.1 5202	33 7.9 5489	30 28.4 3020	21 56.4 3498
3	108 58.1 3233	35 13.5 5044	33 58.8 5300	31 58.2 3023	20 36.0 3520
6	110 23.6 3242	36 9.8 4903	34 51.9 5132	33 27.9 3027	19 15.9 3545
9	111 48.9 3251	37 8.0 4778	35 47.1 4984	34 57.6 3031	17 56.4 3577
12	113 14.0 3261	38 7.9 4668	36 44.2 4853	36 27.1 3035	16 37.4 3614
15	114 39.0 3270	39 9.3 4567	37 43.1 4734	37 56.6 3038	15 19.1 3661
18	116 3.7 3280	40 12.2 4477	38 43.6 4629	39 26.0 3042	14 1.6 3721
21	117 28.3 3290	41 16.4 4396	39 45.6 4534	40 55.4 3045	12 45.2 3800

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	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>28 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Mars</b>	<b>–Sabik</b>	<b>–Shaula</b>
0	12 22.5 3784	67 34.8 3080	74 35.6 3276	122 5.0 3084	125 37.6 3417
3	13 37.8 3724	66 6.3 3080	73 10.9 3277	120 36.5 3085	124 15.7 3406
6	14 54.2 3679	64 37.7 3081	71 46.3 3278	119 8.1 3085	122 53.5 3396
9	16 11.3 3643	63 9.2 3081	70 21.7 3278	117 39.6 3085	121 31.1 3386
12	17 29.1 3616	61 40.6 3081	68 57.1 3278	116 11.1 3084	120 8.6 3377
15	18 47.4 3593	60 12.1 3081	67 32.5 3278	114 42.7 3084	118 45.9 3368
18	20 6.1 3575	58 43.5 3080	66 7.9 3278	113 14.2 3083	117 23.0 3360
21	21 25.1 3559	57 15.0 3080	64 43.3 3278	111 45.7 3082	115 60.0 3352
<b>29 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Mars</b>	<b>–Rasalhague</b>	<b>–Kaus Aust.</b>
0	22 44.4 3546	55 46.4 3079	63 18.7 3277	112 5.6 3893	125 12.4 3327
3	24 4.0 3533	54 17.9 3078	61 54.0 3276	110 52.2 3876	123 48.7 3317
6	25 23.8 3524	52 49.2 3077	60 29.4 3275	109 38.5 3860	122 24.9 3309
9	26 43.7 3514	51 20.6 3075	59 4.7 3274	108 24.5 3844	121 0.8 3299
12	28 3.8 3506	49 52.0 3074	57 40.0 3272	107 10.2 3830	119 36.6 3291
15	29 24.1 3498	48 23.3 3072	56 15.3 3271	105 55.7 3817	118 12.3 3283
18	30 44.6 3490	46 54.6 3070	54 50.5 3268	104 41.0 3804	116 47.8 3275
21	32 5.1 3483	45 25.8 3068	53 25.7 3266	103 26.0 3792	115 23.1 3267
<b>30 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Mars</b>	<b>–Saturn</b>	<b>–Nunki</b>
0	33 25.8 3476	43 57.0 3066	52 0.9 3264	66 51.3 3064	122 9.9 3124
3	34 46.7 3469	42 28.2 3063	50 36.0 3260	65 22.4 3061	120 42.2 3118
6	36 7.6 3463	40 59.3 3060	49 11.0 3258	63 53.4 3057	119 14.4 3113
9	37 28.7 3456	39 30.3 3057	47 46.0 3254	62 24.4 3054	117 46.5 3108
12	38 49.9 3449	38 1.3 3053	46 20.9 3250	60 55.3 3050	116 18.5 3102
15	40 11.3 3443	36 32.2 3050	44 55.8 3246	59 26.2 3046	114 50.4 3097
18	41 32.7 3436	35 3.0 3046	43 30.5 3242	57 56.9 3042	113 22.2 3091
21	42 54.3 3428	33 33.7 3042	42 5.2 3237	56 27.6 3036	111 53.9 3085
<b>31 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Mars</b>	<b>–Saturn</b>	<b>–Antares</b>
0	44 16.1 3422	32 4.4 3038	40 39.8 3233	54 58.1 3032	77 51.9 3074
3	45 37.9 3414	30 35.0 3033	39 14.3 3228	53 28.6 3026	76 23.3 3069
6	46 59.9 3406	29 5.5 3029	37 48.7 3222	51 58.9 3020	74 54.5 3064
9	48 22.1 3399	27 35.9 3025	36 23.0 3217	50 29.1 3014	73 25.6 3059
12	49 44.4 3390	26 6.2 3020	34 57.2 3211	48 59.2 3008	71 56.6 3053
15	51 6.8 3382	24 36.4 3015	33 31.3 3205	47 29.2 3001	70 27.5 3047
18	52 29.5 3373	23 6.5 3011	32 5.2 3199	45 59.0 2995	68 58.3 3042
21	53 52.2 3364	21 36.5 3006	30 39.1 3192	44 28.7 2986	67 28.9 3035