

## JULY 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>1 UT</b>	<b>+Nunki</b>	<b>+Altair</b>	<b>+Fomalhaut</b>	<b>+Enif</b>	<b>–Sun</b>
0	96 16.1 2833	77 19.3 3216	49 35.6 3646	49 24.2 3140	80 36.9 3146
3	97 49.8 2847	78 45.2 3224	50 53.3 3622	50 51.5 3139	79 9.7 3161
6	99 23.3 2860	80 10.8 3234	52 11.5 3601	52 18.9 3138	77 42.8 3175
9	100 56.4 2874	81 36.3 3244	53 30.0 3584	53 46.3 3139	76 16.1 3190
12	102 29.3 2887	83 1.6 3253	54 48.9 3567	55 13.6 3140	74 49.8 3204
15	104 1.9 2900	84 26.7 3263	56 8.0 3553	56 41.0 3142	73 23.7 3217
18	105 34.2 2912	85 51.6 3274	57 27.4 3542	58 8.3 3144	71 57.9 3231
21	107 6.2 2925	87 16.3 3284	58 47.1 3531	59 35.5 3147	70 32.4 3243
<b>2 UT</b>	<b>+Altair</b>	<b>+Enif</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>–Sun</b>
0	88 40.8 3295	61 2.7 3150	60 6.9 3523	40 55.8 3267	69 7.1 3256
3	90 5.1 3306	62 29.9 3154	61 26.9 3515	42 20.6 3256	67 42.0 3268
6	91 29.1 3316	63 56.9 3158	62 47.0 3509	43 45.7 3247	66 17.2 3279
9	92 53.0 3328	65 23.9 3162	64 7.2 3503	45 10.9 3240	64 52.6 3291
12	94 16.6 3340	66 50.8 3167	65 27.5 3499	46 36.2 3234	63 28.3 3302
15	95 40.0 3351	68 17.6 3171	66 47.9 3496	48 1.7 3229	62 4.1 3313
18	97 3.2 3363	69 44.3 3176	68 8.4 3493	49 27.2 3226	60 40.2 3323
21	98 26.2 3375	71 11.0 3180	69 28.9 3491	50 52.9 3223	59 16.5 3333
<b>3 UT</b>	<b>+Enif</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>+Diphda</b>	<b>–Sun</b>
0	72 37.5 3185	70 49.5 3489	52 18.6 3221	44 51.4 3840	57 52.9 3342
3	74 3.9 3190	72 10.1 3488	53 44.3 3219	46 5.7 3805	56 29.5 3352
6	75 30.3 3195	73 30.7 3488	55 10.1 3219	47 20.7 3773	55 6.4 3361
9	76 56.5 3200	74 51.3 3488	56 35.9 3217	48 36.2 3744	53 43.3 3369
12	78 22.7 3204	76 11.9 3489	58 1.7 3217	49 52.2 3718	52 20.5 3378
15	79 48.7 3209	77 32.5 3489	59 27.5 3217	51 8.6 3694	50 57.8 3386
18	81 14.7 3213	78 53.1 3491	60 53.3 3217	52 25.5 3673	49 35.3 3393
21	82 40.6 3218	80 13.7 3492	62 19.1 3217	53 42.7 3655	48 12.9 3401
<b>4 UT</b>	<b>+Fomalhaut</b>	<b>+Markab</b>	<b>+Diphda</b>	<b>+Hamal</b>	<b>–Sun</b>
0	81 34.2 3494	63 44.9 3218	55 0.3 3637	20 31.3 3501	46 50.6 3408
3	82 54.7 3496	65 10.7 3219	56 18.2 3621	21 51.7 3448	45 28.5 3415
6	84 15.2 3499	66 36.4 3219	57 36.4 3607	23 13.1 3405	44 6.5 3422
9	85 35.6 3501	68 2.2 3221	58 54.9 3593	24 35.2 3369	42 44.7 3429
12	86 56.0 3505	69 27.9 3221	60 13.5 3582	25 58.1 3340	41 23.0 3435
15	88 16.3 3508	70 53.7 3222	61 32.4 3570	27 21.5 3316	40 1.4 3442
18	89 36.5 3511	72 19.4 3223	62 51.5 3560	28 45.4 3295	38 39.9 3447
21	90 56.7 3516	73 45.1 3224	64 10.8 3551	30 9.7 3277	37 18.5 3454
<b>5 UT</b>	<b>+Markab</b>	<b>+Diphda</b>	<b>+Alpheratz</b>	<b>+Hamal</b>	<b>–Sun</b>
0	75 10.7 3225	65 30.3 3543	57 55.6 3566	31 34.3 3263	35 57.2 3460
3	76 36.4 3226	66 49.9 3535	59 14.7 3554	32 59.2 3250	34 36.1 3466
6	78 2.0 3226	68 9.6 3527	60 34.1 3542	34 24.3 3239	33 15.1 3472
9	79 27.6 3228	69 29.5 3521	61 53.8 3532	35 49.7 3229	31 54.1 3478
12	80 53.2 3229	70 49.5 3515	63 13.6 3522	37 15.3 3221	30 33.3 3485
15	82 18.8 3229	72 9.6 3509	64 33.6 3513	38 41.0 3213	29 12.7 3491
18	83 44.4 3230	73 29.9 3504	65 53.7 3504	40 6.9 3206	27 52.1 3499
21	85 9.9 3231	74 50.2 3500	67 14.0 3497	41 33.0 3200	26 31.7 3507

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<b>6 UT</b>	+Diphda	+Alpheratz	+Hamal	+Menkar	–Sun
0	76 10.6 3496	68 34.5 3489	42 59.1 3194	35 33.0 3391	25 11.4 3515
3	77 31.0 3491	69 55.1 3482	44 25.4 3189	36 55.5 3371	23 51.3 3525
6	78 51.6 3488	71 15.8 3477	45 51.7 3184	38 18.3 3353	22 31.4 3537
9	80 12.2 3485	72 36.6 3470	47 18.2 3179	39 41.5 3337	21 11.7 3550
12	81 32.9 3482	73 57.6 3465	48 44.7 3175	41 4.9 3322	19 52.2 3565
15	82 53.6 3479	75 18.6 3460	50 11.4 3171	42 28.7 3308	18 33.0 3584
18	84 14.4 3477	76 39.8 3455	51 38.1 3167	43 52.7 3296	17 14.1 3608
21	85 35.2 3475	78 1.0 3451	53 4.9 3163	45 17.0 3285	15 55.7 3637
<b>9 UT</b>	+Sun	–Venus	–Gienah	–Spica	–Saturn
0	8 59.8 3935	20 5.6 3797	75 34.0 3140	89 14.9 3043	100 21.8 3051
3	10 12.5 3808	18 50.5 3835	74 6.7 3138	87 45.6 3040	98 52.6 3048
6	11 27.4 3718	17 36.1 3883	72 39.3 3136	86 16.2 3036	97 23.4 3044
9	12 43.9 3653	16 22.5 3945	71 11.9 3134	84 46.7 3032	95 54.1 3041
12	14 1.5 3604	15 9.9 4024	69 44.4 3132	83 17.2 3028	94 24.7 3036
15	15 20.0 3565	13 58.7 4129	68 16.9 3130	81 47.6 3024	92 55.3 3032
18	16 39.2 3534	12 49.1 4272	66 49.4 3129	80 17.9 3020	91 25.7 3028
21	17 59.0 3508	11 41.8 4469	65 21.8 3127	78 48.1 3015	89 56.1 3024
<b>10 UT</b>	+Sun	–Denebola	–Gienah	–Spica	–Saturn
0	19 19.2 3486	48 8.1 3350	63 54.2 3125	77 18.2 3011	88 26.4 3019
3	20 39.9 3468	46 44.9 3363	62 26.6 3124	75 48.2 3006	86 56.6 3014
6	22 0.9 3451	45 21.9 3377	60 58.9 3122	74 18.1 3001	85 26.7 3010
9	23 22.2 3436	43 59.2 3393	59 31.2 3121	72 48.0 2996	83 56.7 3004
12	24 43.8 3423	42 36.8 3411	58 3.5 3120	71 17.7 2991	82 26.6 3000
15	26 5.6 3409	41 14.7 3431	56 35.7 3118	69 47.3 2985	80 56.4 2993
18	27 27.7 3398	39 53.0 3454	55 7.9 3118	68 16.8 2980	79 26.0 2988
21	28 50.0 3386	38 31.8 3481	53 40.2 3118	66 46.1 2974	77 55.6 2983
<b>11 UT</b>	+Sun	+Venus	–Gienah	–Spica	–Saturn
0	30 12.5 3375	7 10.8 7065	52 12.4 3118	65 15.4 2967	76 25.0 2977
3	31 35.3 3365	7 46.2 5915	50 44.6 3118	63 44.5 2961	74 54.3 2971
6	32 58.2 3354	8 32.3 5205	49 16.8 3119	62 13.5 2955	73 23.5 2964
9	34 21.4 3344	9 26.6 4741	47 49.0 3120	60 42.3 2948	71 52.6 2958
12	35 44.7 3334	10 27.0 4425	46 21.3 3122	59 11.1 2941	70 21.5 2951
15	37 8.2 3323	11 31.9 4199	44 53.6 3125	57 39.6 2934	68 50.3 2944
18	38 32.0 3314	12 40.4 4036	43 26.0 3129	56 8.0 2927	67 18.9 2937
21	39 55.9 3304	13 51.4 3910	41 58.4 3134	54 36.3 2919	65 47.4 2930
<b>12 UT</b>	+Sun	+Venus	–Spica	–Saturn	–Antares
0	41 20.0 3293	15 4.6 3813	53 4.4 2911	64 15.7 2922	98 34.9 2941
3	42 44.3 3283	16 19.4 3736	51 32.3 2903	62 43.8 2914	97 3.5 2934
6	44 8.8 3273	17 35.5 3673	50 0.1 2895	61 11.8 2907	95 31.9 2925
9	45 33.5 3262	18 52.8 3620	48 27.7 2886	59 39.7 2898	94 0.1 2916
12	46 58.4 3252	20 11.0 3575	46 55.1 2878	58 7.3 2890	92 28.2 2908
15	48 23.6 3241	21 30.0 3536	45 22.3 2869	56 34.8 2882	90 56.0 2899
18	49 48.9 3230	22 49.7 3502	43 49.3 2859	55 2.1 2872	89 23.7 2889
21	51 14.4 3219	24 10.1 3472	42 16.1 2850	53 29.2 2864	87 51.2 2880

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<b>13 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Antares</b>
0	52 40.2 3207	25 31.0 3443	40 42.8 2840	51 56.1 2854	86 18.5 2870
3	54 6.2 3196	26 52.5 3418	39 9.2 2830	50 22.8 2845	84 45.5 2861
6	55 32.4 3185	28 14.4 3394	37 35.4 2820	48 49.3 2835	83 12.4 2851
9	56 58.9 3172	29 36.8 3371	36 1.3 2809	47 15.7 2826	81 39.0 2840
12	58 25.6 3161	30 59.6 3349	34 27.1 2799	45 41.8 2816	80 5.4 2830
15	59 52.5 3148	32 22.8 3329	32 52.6 2788	44 7.6 2805	78 31.6 2819
18	61 19.7 3136	33 46.4 3309	31 17.9 2777	42 33.3 2795	76 57.6 2809
21	62 47.1 3123	35 10.4 3290	29 42.9 2765	40 58.7 2784	75 23.3 2797
<b>14 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Antares</b>
0	64 14.8 3109	36 34.8 3271	28 7.7 2753	39 23.9 2774	73 48.8 2786
3	65 42.7 3097	37 59.5 3253	26 32.2 2742	37 48.9 2764	72 14.0 2775
6	67 11.0 3082	39 24.6 3234	24 56.5 2729	36 13.7 2753	70 39.0 2763
9	68 39.5 3069	40 50.1 3217	23 20.5 2717	34 38.2 2742	69 3.8 2751
12	70 8.3 3054	42 15.9 3198	21 44.2 2704	33 2.5 2731	67 28.3 2739
15	71 37.3 3041	43 42.1 3181	20 7.6 2691	31 26.5 2721	65 52.5 2728
18	73 6.7 3026	45 8.6 3163	18 30.8 2678	29 50.3 2710	64 16.4 2715
21	74 36.4 3011	46 35.5 3146	16 53.6 2665	28 13.9 2701	62 40.1 2703
<b>15 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Saturn</b>	<b>–Antares</b>	<b>–Sabik</b>
0	76 6.3 2996	48 2.7 3128	26 37.2 2691	61 3.5 2690	69 58.9 2664
3	77 36.6 2981	49 30.3 3110	25 0.4 2682	59 26.7 2678	68 21.4 2651
6	79 7.2 2966	50 58.2 3093	23 23.3 2674	57 49.5 2666	66 43.7 2637
9	80 38.1 2950	52 26.5 3074	21 46.1 2666	56 12.1 2653	65 5.6 2623
12	82 9.3 2935	53 55.2 3057	20 8.7 2661	54 34.4 2640	63 27.2 2609
15	83 40.9 2919	55 24.2 3039	18 31.1 2659	52 56.4 2627	61 48.5 2595
18	85 12.8 2903	56 53.6 3021	16 53.6 2660	51 18.1 2615	60 9.5 2581
21	86 45.1 2887	58 23.4 3003	15 16.0 2667	49 39.5 2602	58 30.2 2566
<b>16 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Antares</b>	<b>–Sabik</b>	<b>–Nunki</b>
0	88 17.7 2870	59 53.5 2985	48 0.7 2590	56 50.5 2552	80 33.2 2575
3	89 50.6 2853	61 24.0 2967	46 21.5 2578	55 10.5 2537	78 53.8 2560
6	91 23.9 2838	62 54.9 2949	44 42.1 2566	53 30.1 2522	77 13.9 2545
9	92 57.5 2820	64 26.2 2931	43 2.5 2554	51 49.4 2507	75 33.8 2530
12	94 31.5 2804	65 57.9 2913	41 22.5 2544	50 8.4 2493	73 53.3 2515
15	96 5.9 2787	67 29.9 2894	39 42.3 2533	48 27.0 2478	72 12.4 2500
18	97 40.7 2770	69 2.3 2876	38 1.9 2524	46 45.3 2464	70 31.2 2485
21	99 15.8 2753	70 35.1 2858	36 21.2 2515	45 3.2 2449	68 49.6 2470
<b>17 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>+Spica</b>	<b>–Antares</b>	<b>–Nunki</b>
0	100 51.3 2736	72 8.3 2840	11 29.2 2409	34 40.4 2507	67 7.7 2456
3	102 27.1 2719	73 41.9 2822	13 12.5 2393	32 59.3 2501	65 25.5 2441
6	104 3.3 2702	75 15.9 2804	14 56.3 2377	31 18.1 2496	63 42.9 2426
9	105 39.9 2685	76 50.3 2785	16 40.4 2360	29 36.8 2494	61 59.9 2412
12	107 16.9 2669	78 25.1 2768	18 24.9 2345	27 55.5 2495	60 16.6 2398
15	108 54.3 2652	80 0.2 2750	20 9.8 2328	26 14.2 2498	58 33.0 2384
18	110 32.0 2636	81 35.8 2732	21 55.1 2313	24 32.9 2507	56 49.1 2371
21	112 10.1 2619	83 11.7 2715	23 40.8 2297	22 51.9 2522	55 4.8 2358

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<b>18 UT</b>	<b>+Venus</b>	<b>+Gienah</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>–Nunki</b>
0	84 48.0 2698	40 52.3 2493	25 26.8 2281	14 35.5 2386	53 20.2 2345
3	86 24.7 2681	42 33.6 2463	27 13.3 2266	16 19.4 2351	51 35.3 2333
6	88 1.8 2664	44 15.7 2436	29 0.1 2251	18 4.1 2322	49 50.2 2321
9	89 39.3 2647	45 58.4 2410	30 47.3 2235	19 49.6 2296	48 4.7 2310
12	91 17.1 2631	47 41.7 2386	32 34.9 2221	21 35.6 2273	46 19.0 2300
15	92 55.3 2615	49 25.7 2362	34 22.8 2206	23 22.3 2252	44 33.0 2291
18	94 33.9 2600	51 10.1 2340	36 11.1 2192	25 9.4 2233	42 46.8 2282
21	96 12.8 2585	52 55.1 2319	37 59.7 2178	26 57.0 2215	41 0.4 2275
<b>19 UT</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Zubenelgen</b>	<b>–Nunki</b>
0	97 52.0 2570	39 48.7 2164	28 45.1 2198	18 26.8 2164	39 13.8 2269
3	99 31.6 2556	41 38.1 2151	30 33.6 2181	20 16.1 2151	37 27.1 2265
6	101 11.5 2541	43 27.8 2138	32 22.5 2166	22 5.8 2138	35 40.2 2263
9	102 51.8 2528	45 17.8 2126	34 11.8 2152	23 55.8 2126	33 53.3 2263
12	104 32.3 2515	47 8.1 2113	36 1.5 2138	25 46.1 2113	32 6.4 2266
15	106 13.2 2503	48 58.7 2102	37 51.5 2124	27 36.8 2102	30 19.6 2272
18	107 54.3 2491	50 49.7 2090	39 41.9 2112	29 27.7 2090	28 33.0 2282
21	109 35.8 2480	52 40.9 2080	41 32.5 2101	31 18.9 2080	26 46.5 2298
<b>20 UT</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Zubenelgen</b>	<b>–Enif</b>
0	111 17.4 2469	54 32.4 2070	43 23.5 2089	33 10.4 2070	73 50.6 2291
3	112 59.3 2460	56 24.1 2060	45 14.7 2079	35 2.2 2060	72 4.4 2286
6	114 41.5 2451	58 16.1 2051	47 6.3 2069	36 54.2 2051	70 18.1 2282
9	116 23.9 2443	60 8.4 2043	48 58.0 2060	38 46.4 2042	68 31.6 2279
12	118 6.4 2435	62 0.8 2035	50 50.1 2051	40 38.9 2035	66 45.2 2278
15	119 49.1 2428	63 53.5 2027	52 42.3 2043	42 31.5 2027	64 58.6 2279
18	121 32.1 2422	65 46.3 2021	54 34.7 2037	44 24.4 2021	63 12.1 2281
21	123 15.1 2418	67 39.3 2015	56 27.3 2030	46 17.4 2015	61 25.7 2285
<b>21 UT</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Zubenelgen</b>	<b>+Antares</b>	<b>–Markab</b>
0	69 32.5 2009	58 20.1 2025	48 10.5 2009	24 51.0 2175	79 36.0 2177
3	71 25.8 2005	60 13.0 2019	50 3.9 2005	26 40.1 2150	77 47.0 2175
6	73 19.3 2001	62 6.0 2015	51 57.3 2001	28 29.8 2130	75 57.9 2174
9	75 12.8 1998	63 59.2 2012	53 50.8 1998	30 20.0 2113	74 8.8 2175
12	77 6.4 1996	65 52.4 2010	55 44.4 1995	32 10.6 2099	72 19.7 2176
15	79 0.1 1994	67 45.7 2008	57 38.1 1994	34 1.6 2088	70 30.7 2178
18	80 53.8 1993	69 39.1 2006	59 31.8 1993	35 52.9 2079	68 41.7 2182
21	82 47.5 1992	71 32.5 2006	61 25.6 1992	37 44.4 2071	66 52.8 2187
<b>22 UT</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>–Markab</b>
0	84 41.3 1993	73 25.9 2007	39 36.1 2066	30 19.2 2040	65 4.0 2194
3	86 35.0 1994	75 19.3 2008	41 28.0 2062	32 11.7 2036	63 15.4 2202
6	88 28.7 1997	77 12.6 2010	43 19.9 2060	34 4.3 2035	61 27.0 2212
9	90 22.4 1999	79 5.9 2012	45 12.0 2058	35 57.0 2034	59 38.9 2223
12	92 16.0 2003	80 59.2 2016	47 4.0 2058	37 49.7 2035	57 51.0 2236
15	94 9.5 2007	82 52.3 2021	48 56.1 2060	39 42.3 2037	56 3.4 2252
18	96 2.8 2012	84 45.3 2025	50 48.1 2062	41 34.9 2039	54 16.3 2268
21	97 56.1 2018	86 38.2 2031	52 40.0 2065	43 27.5 2044	52 29.5 2288

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<b>23 UT</b>	<b>+Saturn</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Nunki</b>	<b>–Hamal</b>
0	88 31.0 2037	54 31.9 2069	45 19.9 2048	22 43.3 2286	93 12.3 2084
3	90 23.6 2045	56 23.6 2075	47 12.2 2054	24 29.6 2258	91 20.9 2091
6	92 15.9 2053	58 15.3 2081	49 4.4 2061	26 16.6 2238	89 29.7 2099
9	94 8.1 2062	60 6.7 2088	50 56.4 2068	28 4.1 2224	87 38.7 2107
12	96 0.1 2071	61 58.0 2096	52 48.1 2076	29 51.9 2214	85 47.9 2117
15	97 51.8 2081	63 49.1 2105	54 39.7 2086	31 40.0 2209	83 57.3 2128
18	99 43.3 2092	65 39.9 2114	56 31.1 2095	33 28.3 2206	82 7.0 2138
21	101 34.4 2103	67 30.5 2125	58 22.2 2106	35 16.6 2206	80 17.0 2150
<b>24 UT</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>
0	69 20.9 2136	60 13.0 2117	46 7.5 2391	37 4.9 2208	78 27.4 2163
3	71 11.0 2147	62 3.5 2129	47 51.3 2387	38 53.1 2212	76 38.0 2177
6	73 0.7 2160	63 53.8 2142	49 35.1 2386	40 41.3 2218	74 48.9 2191
9	74 50.2 2172	65 43.7 2154	51 19.1 2386	42 29.3 2225	73 0.3 2205
12	76 39.3 2186	67 33.3 2168	53 3.0 2388	44 17.1 2234	71 12.0 2221
15	78 28.1 2200	69 22.6 2182	54 46.8 2393	46 4.7 2244	69 24.0 2237
18	80 16.6 2215	71 11.4 2197	56 30.5 2398	47 52.1 2254	67 36.5 2254
21	82 4.7 2230	72 60.0 2212	58 14.1 2406	49 39.2 2266	65 49.4 2271
<b>25 UT</b>	<b>+Antares</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Aldebaran</b>
0	83 52.4 2245	59 57.6 2414	51 26.0 2279	64 2.7 2289	96 58.1 2221
3	85 39.7 2261	61 40.8 2424	53 12.5 2292	62 16.5 2308	95 10.2 2237
6	87 26.6 2278	63 23.8 2434	54 58.6 2306	60 30.7 2328	93 22.7 2254
9	89 13.1 2295	65 6.6 2446	56 44.5 2321	58 45.4 2347	91 35.6 2271
12	90 59.2 2312	66 49.0 2458	58 30.0 2335	57 0.5 2368	89 48.9 2288
15	92 44.9 2330	68 31.2 2472	60 15.1 2351	55 16.2 2389	88 2.6 2306
18	94 30.2 2348	70 13.1 2486	61 59.8 2367	53 32.4 2411	86 16.7 2323
21	96 15.0 2365	71 54.6 2500	63 44.2 2383	51 49.1 2434	84 31.3 2341
<b>26 UT</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Menkar</b>	<b>–Aldebaran</b>
0	73 35.9 2516	65 28.1 2401	50 6.3 2457	58 54.1 2497	82 46.4 2359
3	75 16.7 2531	67 11.7 2417	48 24.1 2481	57 12.8 2520	81 1.8 2378
6	76 57.2 2547	68 54.8 2435	46 42.5 2506	55 32.1 2545	79 17.7 2396
9	78 37.3 2564	70 37.6 2453	45 1.4 2532	53 51.9 2571	77 34.0 2415
12	80 17.0 2581	72 19.9 2470	43 20.9 2559	52 12.3 2597	75 50.8 2434
15	81 56.4 2599	74 1.8 2488	41 41.1 2587	50 33.4 2625	74 8.1 2452
18	83 35.3 2616	75 43.3 2506	40 1.9 2616	48 55.0 2653	72 25.7 2471
21	85 13.9 2634	77 24.3 2525	38 23.4 2647	47 17.3 2682	70 43.8 2490
<b>27 UT</b>	<b>+Nunki</b>	<b>–Aldebaran</b>	<b>–Elnath</b>	<b>–Bellatrix</b>	<b>–Sun</b>
0	79 5.0 2543	69 2.4 2509	81 4.7 2552	81 9.4 2630	122 39.3 2844
3	80 45.2 2561	67 21.4 2528	79 24.6 2571	79 31.2 2650	121 5.8 2863
6	82 25.0 2579	65 40.8 2547	77 45.1 2590	77 53.4 2670	119 32.8 2883
9	84 4.4 2598	64 0.7 2565	76 5.9 2609	76 16.1 2690	118 0.1 2902
12	85 43.3 2616	62 21.0 2584	74 27.3 2629	74 39.2 2711	116 27.8 2922
15	87 21.9 2634	60 41.7 2602	72 49.0 2648	73 2.8 2731	114 56.0 2941
18	89 0.0 2652	59 2.9 2621	71 11.2 2667	71 26.8 2752	113 24.5 2960
21	90 37.8 2670	57 24.5 2639	69 33.8 2686	69 51.3 2773	111 53.5 2979

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	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>28 UT</b>	<b>+Enif</b>	<b>–Aldebaran</b>	<b>–Elnath</b>	<b>–Bellatrix</b>	<b>–Sun</b>
0	45 48.8 3047	55 46.4 2657	67 56.8 2706	68 16.3 2794	110 22.9 2998
3	47 18.0 3044	54 8.8 2675	66 20.3 2724	66 41.7 2815	108 52.6 3016
6	48 47.3 3043	52 31.6 2693	64 44.2 2743	65 7.6 2837	107 22.7 3035
9	50 16.6 3044	50 54.8 2711	63 8.5 2762	63 33.9 2858	105 53.3 3053
12	51 45.9 3046	49 18.4 2728	61 33.2 2781	62 0.7 2880	104 24.1 3071
15	53 15.2 3049	47 42.4 2745	59 58.3 2800	60 28.0 2901	102 55.4 3088
18	54 44.3 3053	46 6.7 2762	58 23.9 2818	58 55.7 2923	101 27.0 3106
21	56 13.5 3057	44 31.4 2779	56 49.8 2836	57 23.9 2945	99 59.0 3123
<b>29 UT</b>	<b>+Enif</b>	<b>–Aldebaran</b>	<b>–Elnath</b>	<b>–Bellatrix</b>	<b>–Sun</b>
0	57 42.5 3063	42 56.5 2796	55 16.1 2855	55 52.5 2968	98 31.3 3140
3	59 11.4 3069	41 21.9 2811	53 42.9 2873	54 21.7 2991	97 4.0 3156
6	60 40.2 3076	39 47.7 2827	52 10.0 2892	52 51.3 3014	95 36.9 3172
9	62 8.8 3083	38 13.9 2843	50 37.5 2910	51 21.4 3038	94 10.2 3188
12	63 37.3 3090	36 40.3 2859	49 5.4 2929	49 52.0 3062	92 43.9 3204
15	65 5.7 3098	35 7.2 2874	47 33.7 2947	48 23.0 3087	91 17.8 3218
18	66 33.9 3105	33 34.3 2889	46 2.4 2965	46 54.6 3112	89 52.0 3233
21	68 1.9 3113	32 1.8 2904	44 31.5 2984	45 26.7 3139	88 26.5 3247
<b>30 UT</b>	<b>+Markab</b>	<b>–Aldebaran</b>	<b>–Elnath</b>	<b>–Bellatrix</b>	<b>–Sun</b>
0	49 13.4 3177	30 29.5 2919	43 0.9 3003	43 59.3 3167	87 1.3 3261
3	50 40.0 3176	28 57.6 2934	41 30.8 3022	42 32.5 3195	85 36.4 3274
6	52 6.6 3177	27 26.1 2949	40 1.0 3041	41 6.3 3226	84 11.7 3287
9	53 33.2 3178	25 54.8 2965	38 31.7 3061	39 40.7 3257	82 47.3 3300
12	54 59.8 3180	24 23.9 2980	37 2.7 3082	38 15.7 3292	81 23.1 3312
15	56 26.3 3182	22 53.2 2996	35 34.2 3104	36 51.3 3328	79 59.1 3323
18	57 52.8 3185	21 23.0 3013	34 6.1 3127	35 27.7 3368	78 35.4 3335
21	59 19.3 3188	19 53.0 3032	32 38.5 3151	34 4.8 3411	77 11.9 3346
<b>31 UT</b>	<b>+Markab</b>	<b>+Hamal</b>	<b>–Aldebaran</b>	<b>–Elnath</b>	<b>–Sun</b>
0	60 45.7 3191	17 51.0 3661	18 23.5 3051	31 11.4 3176	75 48.6 3356
3	62 12.0 3194	19 8.5 3574	16 54.3 3074	29 44.8 3204	74 25.5 3366
6	63 38.3 3197	20 27.5 3505	15 25.7 3101	28 18.7 3235	73 2.6 3375
9	65 4.5 3200	21 47.8 3450	13 57.5 3134	26 53.3 3269	71 39.8 3384
12	66 30.6 3204	23 9.1 3406	12 30.1 3177	25 28.5 3308	70 17.3 3393
15	67 56.7 3206	24 31.3 3370	11 3.5 3234	24 4.5 3351	68 54.9 3401
18	69 22.7 3209	25 54.1 3341	9 38.0 3320	22 41.3 3403	67 32.6 3409
21	70 48.6 3212	27 17.5 3317	8 14.2 3455	21 19.0 3463	66 10.5 3416