

## SEPTEMBER 2012

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>1 UT</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>
0	70 16.8 2797	61 59.4 2690	53 31.6 2720	86 24.4 2665	90 35.5 2686
3	71 51.3 2805	63 36.3 2701	51 55.4 2735	84 47.0 2676	88 58.5 2696
6	73 25.6 2815	65 12.9 2711	50 19.5 2749	83 9.8 2688	87 21.8 2708
9	74 59.8 2824	66 49.3 2722	48 43.9 2764	81 32.8 2699	85 45.3 2719
12	76 33.7 2834	68 25.5 2733	47 8.7 2780	79 56.2 2711	84 9.1 2731
15	78 7.4 2844	70 1.4 2744	45 33.8 2797	78 19.7 2723	82 33.1 2743
18	79 40.9 2854	71 37.1 2755	43 59.3 2814	76 43.6 2735	80 57.4 2754
21	81 14.2 2865	73 12.5 2766	42 25.2 2832	75 7.7 2747	79 22.0 2766
<b>2 UT</b>	<b>+Nunki</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Elnath</b>	<b>–Venus</b>
0	74 47.7 2777	73 32.1 2758	77 46.8 2778	85 21.4 2780	118 6.7 3121
3	76 22.7 2788	71 56.7 2770	76 11.9 2790	83 46.5 2792	116 39.0 3134
6	77 57.4 2800	70 21.6 2783	74 37.2 2801	82 11.9 2804	115 11.6 3147
9	79 31.9 2810	68 46.8 2794	73 2.7 2813	80 37.5 2816	113 44.4 3160
12	81 6.1 2822	67 12.2 2806	71 28.6 2824	79 3.4 2828	112 17.4 3173
15	82 40.1 2834	65 37.9 2819	69 54.6 2836	77 29.6 2840	110 50.8 3187
18	84 13.8 2845	64 3.9 2830	68 21.0 2847	75 56.0 2852	109 24.4 3198
21	85 47.3 2857	62 30.0 2842	66 47.5 2860	74 22.6 2864	107 58.2 3212
<b>3 UT</b>	<b>+Nunki</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Betelgeuse</b>	<b>–Venus</b>
0	87 20.5 2867	60 56.5 2854	65 14.4 2870	80 47.0 2961	106 32.3 3224
3	88 53.5 2879	59 23.2 2866	63 41.4 2881	79 16.0 2974	105 6.6 3237
6	90 26.3 2890	57 50.2 2878	62 8.7 2893	77 45.3 2987	103 41.2 3250
9	91 58.8 2901	56 17.4 2889	60 36.3 2903	76 14.8 2999	102 16.0 3261
12	93 31.1 2912	54 44.9 2901	59 4.0 2914	74 44.6 3012	100 51.1 3274
15	95 3.1 2922	53 12.6 2912	57 32.0 2925	73 14.6 3024	99 26.4 3285
18	96 34.9 2933	51 40.5 2924	56 0.2 2935	71 44.9 3038	98 1.9 3298
21	98 6.5 2943	50 8.7 2934	54 28.7 2945	70 15.5 3050	96 37.7 3308
<b>4 UT</b>	<b>+Enif</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Betelgeuse</b>	<b>–Venus</b>
0	52 2.8 3239	48 37.1 2946	52 57.3 2955	68 46.3 3063	95 13.7 3321
3	53 28.2 3236	47 5.8 2957	51 26.2 2965	67 17.4 3076	93 49.9 3331
6	54 53.6 3234	45 34.7 2968	49 55.3 2975	65 48.8 3089	92 26.3 3343
9	56 19.1 3233	44 3.8 2978	48 24.5 2983	64 20.4 3102	91 3.0 3352
12	57 44.6 3233	42 33.2 2989	46 54.0 2993	62 52.3 3115	89 39.8 3363
15	59 10.1 3233	41 2.8 3000	45 23.7 3002	61 24.4 3129	88 16.8 3373
18	60 35.6 3234	39 32.6 3011	43 53.5 3010	59 56.9 3142	86 54.0 3383
21	62 1.0 3235	38 2.6 3021	42 23.5 3018	58 29.6 3155	85 31.4 3392
<b>5 UT</b>	<b>+Markab</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Betelgeuse</b>	<b>–Venus</b>
0	43 12.0 3309	36 32.8 3031	40 53.7 3026	57 2.5 3169	84 9.0 3401
3	44 36.0 3300	35 3.3 3042	39 24.0 3034	55 35.8 3184	82 46.8 3409
6	46 0.1 3292	33 33.9 3053	37 54.5 3041	54 9.3 3198	81 24.7 3418
9	47 24.5 3286	32 4.8 3063	36 25.1 3048	52 43.1 3212	80 2.7 3425
12	48 48.9 3280	30 35.9 3075	34 55.9 3054	51 17.2 3227	78 41.0 3433
15	50 13.5 3275	29 7.2 3086	33 26.8 3061	49 51.6 3243	77 19.3 3440
18	51 38.2 3270	27 38.8 3098	31 57.9 3065	48 26.3 3258	75 57.8 3447
21	53 2.9 3267	26 10.6 3111	30 29.0 3071	47 1.3 3275	74 36.4 3453

## SEPTEMBER 2012

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<b>6 UT</b>	<b>+Markab</b>	<b>–Jupiter</b>	<b>–Procyon</b>	<b>–Venus</b>	<b>–Sun</b>
0	54 27.7 3263	29 0.3 3076	70 59.1 3147	73 15.2 3459	117 40.6 3433
3	55 52.6 3260	27 31.6 3081	69 31.9 3153	71 54.0 3465	116 18.9 3438
6	57 17.6 3257	26 3.1 3085	68 4.8 3160	70 33.0 3469	114 57.4 3442
9	58 42.6 3255	24 34.6 3089	66 37.9 3166	69 12.0 3474	113 35.9 3445
12	60 7.7 3252	23 6.3 3093	65 11.0 3172	67 51.1 3479	112 14.5 3449
15	61 32.8 3249	21 38.0 3095	63 44.3 3177	66 30.3 3482	110 53.1 3451
18	62 58.0 3247	20 9.7 3098	62 17.7 3183	65 9.6 3485	109 31.8 3454
21	64 23.2 3244	18 41.5 3100	60 51.3 3189	63 48.9 3488	108 10.6 3455
<b>7 UT</b>	<b>+Hamal</b>	<b>–Jupiter</b>	<b>–Procyon</b>	<b>–Venus</b>	<b>–Sun</b>
0	22 18.5 3369	17 13.4 3101	59 24.9 3193	62 28.3 3490	106 49.3 3456
3	23 41.3 3337	15 45.2 3104	57 58.6 3199	61 7.7 3492	105 28.1 3458
6	25 4.8 3309	14 17.2 3105	56 32.5 3204	59 47.2 3493	104 7.0 3458
9	26 28.8 3286	12 49.1 3105	55 6.4 3209	58 26.7 3493	102 45.8 3458
12	27 53.2 3265	11 21.1 3107	53 40.4 3214	57 6.1 3494	101 24.6 3457
15	29 18.1 3247	9 53.1 3108	52 14.6 3219	55 45.6 3493	100 3.4 3456
18	30 43.3 3231	8 25.1 3112	50 48.8 3225	54 25.1 3493	98 42.2 3455
21	32 8.9 3215	6 57.1 3117	49 23.1 3229	53 4.6 3491	97 21.0 3452
<b>8 UT</b>	<b>+Hamal</b>	<b>–Pollux</b>	<b>–Procyon</b>	<b>–Venus</b>	<b>–Sun</b>
0	33 34.7 3202	44 12.7 3229	47 57.6 3235	51 44.0 3490	95 59.7 3450
3	35 0.8 3189	42 47.1 3236	46 32.1 3241	50 23.4 3488	94 38.3 3447
6	36 27.2 3177	41 21.7 3243	45 6.8 3247	49 2.8 3484	93 17.0 3443
9	37 53.8 3165	39 56.4 3251	43 41.6 3255	47 42.1 3481	91 55.5 3439
12	39 20.6 3154	38 31.3 3260	42 16.5 3262	46 21.4 3478	90 34.0 3434
15	40 47.7 3143	37 6.3 3271	40 51.6 3271	45 0.6 3473	89 12.3 3429
18	42 15.0 3133	35 41.6 3283	39 26.9 3281	43 39.7 3469	87 50.6 3423
21	43 42.5 3121	34 17.1 3297	38 2.3 3291	42 18.7 3464	86 28.8 3417
<b>9 UT</b>	<b>+Hamal</b>	<b>+Aldebaran</b>	<b>+Jupiter</b>	<b>–Venus</b>	<b>–Sun</b>
0	45 10.2 3111	12 7.8 3313	6 23.3 3072	40 57.7 3458	85 6.8 3410
3	46 38.1 3100	13 31.7 3251	7 52.1 3060	39 36.5 3453	83 44.8 3403
6	48 6.2 3089	14 56.9 3202	9 21.0 3049	38 15.2 3446	82 22.6 3396
9	49 34.6 3078	16 23.0 3163	10 50.2 3039	36 53.8 3440	81 0.2 3387
12	51 3.2 3067	17 49.8 3132	12 19.6 3030	35 32.3 3433	79 37.7 3379
15	52 32.0 3056	19 17.4 3104	13 49.2 3020	34 10.7 3426	78 15.0 3370
18	54 1.1 3045	20 45.4 3080	15 19.0 3011	32 48.9 3419	76 52.2 3360
21	55 30.4 3033	22 14.0 3058	16 49.0 3000	31 27.0 3411	75 29.2 3350
<b>10 UT</b>	<b>+Hamal</b>	<b>+Aldebaran</b>	<b>+Jupiter</b>	<b>–Venus</b>	<b>–Sun</b>
0	56 59.9 3021	23 43.0 3039	18 19.2 2990	30 4.9 3404	74 5.9 3340
3	58 29.6 3009	25 12.4 3020	19 49.6 2979	28 42.7 3396	72 42.5 3329
6	59 59.7 2996	26 42.2 3002	21 20.2 2968	27 20.4 3388	71 18.9 3318
9	61 29.9 2984	28 12.3 2985	22 51.1 2957	25 57.9 3381	69 55.1 3306
12	63 0.5 2971	29 42.8 2969	24 22.2 2945	24 35.3 3374	68 31.0 3294
15	64 31.3 2958	31 13.7 2953	25 53.5 2933	23 12.5 3368	67 6.7 3282
18	66 2.4 2945	32 44.9 2937	27 25.1 2921	21 49.7 3362	65 42.2 3269
21	67 33.7 2931	34 16.4 2921	28 57.0 2908	20 26.7 3358	64 17.4 3256

## SEPTEMBER 2012

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<b>11 UT</b>	+Aldebaran	+Jupiter	+Elnath	–Venus	–Sun
0	35 48.3 2906	30 29.1 2895	24 47.8 3072	19 3.6 3356	62 52.4 3243
3	37 20.5 2890	32 1.5 2882	26 16.6 3038	17 40.5 3357	61 27.1 3229
6	38 53.0 2875	33 34.2 2868	27 46.0 3006	16 17.4 3362	60 1.5 3215
9	40 25.8 2858	35 7.2 2854	29 16.1 2977	14 54.4 3372	58 35.6 3201
12	41 59.0 2843	36 40.5 2840	30 46.7 2951	13 31.6 3390	57 9.5 3186
15	43 32.5 2827	38 14.1 2825	32 18.0 2925	12 9.2 3422	55 43.1 3171
18	45 6.4 2811	39 48.0 2811	33 49.7 2901	10 47.3 3476	54 16.4 3157
21	46 40.6 2795	41 22.2 2796	35 22.0 2877	9 26.5 3565	52 49.4 3142
<b>12 UT</b>	+Aldebaran	+Jupiter	+Elnath	+Betelgeuse	–Sun
0	48 15.2 2779	42 56.7 2781	36 54.8 2855	31 11.8 3223	51 22.1 3127
3	49 50.1 2763	44 31.6 2766	38 28.1 2834	32 37.4 3169	49 54.5 3112
6	51 25.4 2747	46 6.8 2750	40 1.8 2812	34 4.2 3119	48 26.5 3096
9	53 1.0 2731	47 42.3 2735	41 36.0 2791	35 32.0 3074	46 58.3 3081
12	54 36.9 2715	49 18.2 2719	43 10.6 2772	37 0.6 3033	45 29.8 3065
15	56 13.3 2698	50 54.4 2703	44 45.7 2751	38 30.2 2994	44 0.9 3050
18	57 50.0 2682	52 31.0 2687	46 21.2 2733	40 0.5 2958	42 31.7 3035
21	59 27.0 2665	54 7.9 2672	47 57.2 2713	41 31.6 2924	41 2.3 3020
<b>13 UT</b>	+Aldebaran	+Jupiter	+Betelgeuse	+Venus	–Sun
0	61 4.5 2649	55 45.2 2656	43 3.4 2892	5 44.3 3863	39 32.5 3005
3	62 42.2 2633	57 22.9 2640	44 35.9 2861	6 58.2 3547	38 2.4 2991
6	64 20.4 2616	59 0.9 2623	46 9.0 2832	8 17.8 3362	36 32.0 2976
9	65 58.9 2601	60 39.3 2607	47 42.7 2805	9 40.8 3244	35 1.3 2962
12	67 37.8 2585	62 18.0 2592	49 17.1 2778	11 6.0 3160	33 30.3 2949
15	69 17.1 2568	63 57.1 2575	50 52.0 2753	12 33.0 3098	31 59.0 2936
18	70 56.7 2552	65 36.6 2560	52 27.5 2728	14 1.2 3048	30 27.5 2925
21	72 36.7 2537	67 16.4 2544	54 3.6 2705	15 30.4 3008	28 55.7 2914
<b>14 UT</b>	+Aldebaran	+Jupiter	+Betelgeuse	+Venus	–Sun
0	74 17.1 2521	68 56.6 2529	55 40.1 2682	17 0.4 2973	27 23.7 2904
3	75 57.8 2505	70 37.1 2513	57 17.2 2660	18 31.2 2943	25 51.5 2896
6	77 38.9 2490	72 18.0 2498	58 54.7 2639	20 2.6 2916	24 19.1 2890
9	79 20.3 2475	73 59.3 2483	60 32.7 2619	21 34.5 2892	22 46.6 2886
12	81 2.1 2460	75 40.9 2468	62 11.2 2599	23 7.0 2868	21 14.0 2886
15	82 44.2 2446	77 22.8 2453	63 50.1 2581	24 40.0 2846	19 41.4 2890
18	84 26.7 2431	79 5.2 2439	65 29.4 2562	26 13.5 2827	18 8.9 2899
21	86 9.5 2417	80 47.8 2424	67 9.2 2545	27 47.3 2807	16 36.5 2918
<b>17 UT</b>	+Sun	–Zubenelgen	–Mars	–Antares	–Sabik
0	12 44.3 2797	38 50.7 2226	39 31.1 2431	63 7.4 2249	72 14.6 2244
3	14 18.8 2735	37 2.9 2220	37 48.2 2424	61 20.2 2243	70 27.3 2238
6	15 54.7 2688	35 14.9 2214	36 5.2 2418	59 32.8 2238	68 39.8 2232
9	17 31.6 2652	33 26.8 2208	34 22.1 2411	57 45.3 2233	66 52.1 2227
12	19 9.3 2624	31 38.6 2204	32 38.8 2406	55 57.7 2229	65 4.3 2222
15	20 47.7 2602	29 50.2 2199	30 55.4 2401	54 10.0 2226	63 16.4 2219
18	22 26.6 2583	28 1.7 2196	29 11.8 2397	52 22.2 2224	61 28.5 2215
21	24 5.9 2568	26 13.2 2193	27 28.2 2393	50 34.3 2221	59 40.4 2212

## SEPTEMBER 2012

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>18 UT</b>	+Sun	–Mars	–Antares	–Sabik	–Nunki
0	25 45.5 2556	25 44.5 2390	48 46.4 2221	57 52.2 2210	81 20.1 2216
3	27 25.4 2545	24 0.7 2387	46 58.5 2220	56 4.0 2208	79 32.0 2214
6	29 5.6 2536	22 16.8 2384	45 10.5 2220	54 15.8 2207	77 43.9 2212
9	30 46.0 2529	20 32.8 2383	43 22.6 2222	52 27.5 2207	75 55.8 2211
12	32 26.5 2523	18 48.9 2382	41 34.7 2223	50 39.3 2208	74 7.6 2210
15	34 7.2 2518	17 4.9 2381	39 46.8 2227	48 51.0 2209	72 19.4 2210
18	35 48.0 2514	15 20.8 2380	37 59.0 2231	47 2.8 2210	70 31.2 2210
21	37 28.9 2511	13 36.8 2380	36 11.4 2236	45 14.6 2213	68 43.0 2211
<b>19 UT</b>	+Sun	–Antares	–Sabik	–Kaus Aust.	–Nunki
0	39 9.8 2509	34 23.8 2243	43 26.5 2216	59 53.1 2357	66 54.8 2213
3	40 50.8 2509	32 36.4 2251	41 38.4 2220	58 8.5 2365	65 6.7 2215
6	42 31.8 2507	30 49.3 2261	39 50.5 2225	56 24.2 2375	63 18.6 2218
9	44 12.8 2508	29 2.3 2273	38 2.7 2231	54 40.0 2386	61 30.6 2221
12	45 53.9 2509	27 15.7 2289	36 15.0 2238	52 56.1 2399	59 42.7 2225
15	47 34.9 2510	25 29.5 2306	34 27.5 2246	51 12.5 2412	57 54.9 2229
18	49 15.8 2512	23 43.6 2329	32 40.2 2256	49 29.2 2428	56 7.1 2234
21	50 56.8 2515	21 58.3 2356	30 53.1 2267	47 46.3 2446	54 19.5 2240
<b>20 UT</b>	+Sun	–Antares	–Sabik	–Kaus Aust.	–Nunki
0	52 37.6 2517	20 13.7 2392	29 6.4 2280	46 3.8 2466	52 32.1 2246
3	54 18.5 2521	18 30.0 2437	27 19.9 2295	44 21.8 2488	50 44.8 2253
6	55 59.2 2525	16 47.3 2498	25 33.8 2314	42 40.3 2513	48 57.6 2260
9	57 39.8 2529	15 6.0 2581	23 48.2 2336	40 59.4 2541	47 10.7 2269
12	59 20.4 2534	13 26.7 2700	22 3.1 2363	39 19.2 2573	45 23.9 2278
15	61 0.8 2538	11 50.0 2878	20 18.6 2397	37 39.7 2609	43 37.4 2287
18	62 41.1 2544	10 17.2 3161	18 35.0 2439	36 1.0 2650	41 51.1 2298
21	64 21.3 2549	8 50.3 3644	16 52.3 2496	34 23.2 2698	40 5.1 2310
<b>21 UT</b>	+Sun	+Mars	–Nunki	–Altair	–Enif
0	66 1.4 2556	15 43.4 2444	38 19.4 2323	61 45.3 2795	87 35.0 2428
3	67 41.3 2562	17 25.9 2450	36 33.9 2337	60 10.7 2822	85 52.1 2434
6	69 21.1 2569	19 8.3 2457	34 48.9 2353	58 36.7 2851	84 9.4 2442
9	71 0.7 2575	20 50.5 2464	33 4.2 2370	57 3.4 2883	82 26.8 2451
12	72 40.2 2582	22 32.5 2472	31 19.9 2390	55 30.7 2917	80 44.4 2459
15	74 19.5 2589	24 14.4 2479	29 36.1 2412	53 58.8 2955	79 2.3 2469
18	75 58.6 2596	25 56.1 2487	27 52.8 2437	52 27.6 2996	77 20.3 2479
21	77 37.6 2605	27 37.6 2494	26 10.1 2467	50 57.3 3041	75 38.6 2490
<b>22 UT</b>	+Sun	+Mars	+Antares	–Enif	–Markab
0	79 16.4 2612	29 19.0 2502	10 48.6 2883	73 57.2 2501	94 6.8 2435
3	80 55.0 2620	31 0.1 2510	12 21.3 2744	72 16.0 2513	92 24.1 2442
6	82 33.5 2628	32 41.1 2518	13 57.0 2652	70 35.1 2525	90 41.5 2449
9	84 11.8 2636	34 21.9 2526	15 34.7 2591	68 54.4 2538	88 59.1 2457
12	85 49.8 2645	36 2.5 2535	17 13.8 2548	67 14.1 2552	87 16.9 2466
15	87 27.7 2654	37 42.9 2543	18 53.9 2518	65 34.1 2567	85 34.9 2474
18	89 5.4 2662	39 23.1 2552	20 34.7 2497	63 54.4 2582	83 53.1 2483
21	90 42.9 2671	41 3.1 2560	22 16.0 2483	62 15.1 2598	82 11.5 2493

## SEPTEMBER 2012

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<b>23 UT</b>	<b>+Sun</b>	<b>+Mars</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>–Markab</b>
0	92 20.2 2680	42 42.9 2569	23 57.6 2473	15 7.1 2623	80 30.1 2503
3	93 57.4 2688	44 22.5 2577	25 39.4 2467	16 45.5 2581	78 48.9 2513
6	95 34.3 2697	46 1.9 2587	27 21.4 2463	18 24.8 2552	77 8.0 2523
9	97 11.0 2706	47 41.1 2595	29 3.5 2462	20 4.8 2532	75 27.3 2534
12	98 47.5 2715	49 20.2 2604	30 45.6 2461	21 45.3 2518	73 46.9 2545
15	100 23.8 2724	50 59.0 2613	32 27.7 2463	23 26.1 2510	72 6.7 2556
18	101 59.9 2733	52 37.6 2622	34 9.8 2465	25 7.1 2503	70 26.8 2568
21	103 35.9 2742	54 16.0 2630	35 51.8 2468	26 48.2 2500	68 47.2 2580
<b>24 UT</b>	<b>+Sun</b>	<b>+Mars</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>–Markab</b>
0	105 11.6 2752	55 54.2 2640	37 33.7 2473	28 29.4 2499	67 7.9 2594
3	106 47.1 2761	57 32.2 2648	39 15.6 2477	30 10.6 2500	65 28.8 2607
6	108 22.4 2770	59 10.0 2658	40 57.3 2482	31 51.8 2501	63 50.0 2621
9	109 57.5 2779	60 47.6 2666	42 38.9 2488	33 33.0 2504	62 11.6 2635
12	111 32.4 2789	62 25.0 2675	44 20.4 2493	35 14.1 2508	60 33.5 2650
15	113 7.1 2798	64 2.2 2684	46 1.8 2499	36 55.2 2512	58 55.7 2666
18	114 41.6 2808	65 39.2 2694	47 43.0 2506	38 36.1 2517	57 18.3 2682
21	116 15.9 2817	67 16.0 2702	49 24.1 2512	40 16.9 2521	55 41.3 2699
<b>25 UT</b>	<b>+Mars</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Nunki</b>	<b>–Hamal</b>
0	68 52.6 2711	51 5.0 2519	41 57.6 2527	19 23.9 2779	96 39.6 2530
3	70 29.0 2720	52 45.8 2526	43 38.2 2533	20 58.8 2745	94 59.1 2538
6	72 5.2 2729	54 26.4 2534	45 18.7 2540	22 34.4 2721	93 18.8 2547
9	73 41.2 2737	56 6.8 2540	46 58.9 2545	24 10.6 2702	91 38.7 2555
12	75 17.1 2747	57 47.1 2548	48 39.1 2552	25 47.3 2689	89 58.7 2564
15	76 52.7 2756	59 27.2 2555	50 19.1 2559	27 24.2 2679	88 19.0 2572
18	78 28.1 2765	61 7.1 2563	51 58.9 2566	29 1.3 2672	86 39.4 2581
21	80 3.3 2774	62 46.9 2570	53 38.6 2573	30 38.6 2668	85 0.1 2589
<b>26 UT</b>	<b>+Mars</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Nunki</b>	<b>–Jupiter</b>
0	81 38.3 2783	64 26.5 2578	55 18.1 2581	32 16.0 2665	122 27.2 2562
3	83 13.2 2791	66 5.9 2586	56 57.5 2587	33 53.4 2664	120 47.4 2571
6	84 47.8 2801	67 45.1 2594	58 36.7 2596	35 30.8 2665	119 7.9 2579
9	86 22.3 2809	69 24.1 2601	60 15.7 2603	37 8.3 2666	117 28.5 2587
12	87 56.5 2818	71 3.0 2610	61 54.5 2611	38 45.7 2669	115 49.3 2595
15	89 30.6 2828	72 41.7 2617	63 33.2 2618	40 23.1 2672	114 10.3 2604
18	91 4.4 2836	74 20.2 2626	65 11.7 2626	42 0.3 2675	112 31.5 2612
21	92 38.1 2845	75 58.5 2634	66 50.0 2634	43 37.5 2679	110 52.8 2621
<b>27 UT</b>	<b>+Antares</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Jupiter</b>
0	77 36.7 2642	54 0.3 2824	45 14.7 2684	70 15.0 2672	109 14.4 2629
3	79 14.6 2650	55 34.3 2824	46 51.7 2689	68 37.7 2681	107 36.1 2637
6	80 52.4 2659	57 8.2 2826	48 28.6 2695	67 0.7 2691	105 58.1 2646
9	82 30.0 2667	58 42.1 2828	50 5.3 2701	65 23.8 2701	104 20.2 2654
12	84 7.3 2676	60 16.0 2831	51 42.0 2707	63 47.2 2711	102 42.5 2662
15	85 44.5 2684	61 49.7 2834	53 18.5 2713	62 10.8 2721	101 5.0 2671
18	87 21.5 2692	63 23.5 2838	54 54.8 2720	60 34.6 2731	99 27.7 2679
21	88 58.4 2702	64 57.1 2842	56 31.0 2727	58 58.6 2743	97 50.6 2688

## SEPTEMBER 2012

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>28 UT</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>
0	66 30.6 2847	58 7.1 2734	57 22.9 2753	90 19.2 2701	96 13.7 2696
3	68 4.1 2852	59 43.0 2741	55 47.4 2764	88 42.5 2710	94 36.9 2705
6	69 37.4 2858	61 18.7 2748	54 12.2 2776	87 6.1 2718	93 0.4 2713
9	71 10.6 2864	62 54.3 2756	52 37.2 2788	85 29.8 2728	91 24.0 2722
12	72 43.7 2869	64 29.7 2764	51 2.5 2800	83 53.8 2736	89 47.9 2731
15	74 16.6 2876	66 5.0 2771	49 28.1 2812	82 17.9 2744	88 11.9 2739
18	75 49.5 2883	67 40.1 2779	47 53.9 2826	80 42.3 2754	86 36.1 2748
21	77 22.1 2890	69 15.0 2787	46 20.0 2839	79 6.8 2763	85 0.5 2757
<b>29 UT</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Elnath</b>
0	70 49.7 2795	44 46.4 2853	77 31.5 2771	83 25.1 2765	89 19.7 2796
3	72 24.3 2803	43 13.0 2867	75 56.5 2780	81 49.9 2774	87 45.2 2805
6	73 58.6 2812	41 40.0 2883	74 21.6 2790	80 14.9 2783	86 10.8 2814
9	75 32.8 2820	40 7.4 2899	72 46.9 2798	78 40.0 2791	84 36.7 2823
12	77 6.9 2828	38 35.0 2916	71 12.4 2807	77 5.4 2800	83 2.7 2833
15	78 40.7 2837	37 3.1 2934	69 38.1 2817	75 30.9 2809	81 29.0 2842
18	80 14.4 2845	35 31.5 2953	68 4.0 2826	73 56.6 2817	79 55.4 2851
21	81 47.8 2854	34 0.3 2974	66 30.1 2835	72 22.6 2826	78 22.1 2860
<b>30 UT</b>	<b>+Nunki</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>	<b>–Elnath</b>	<b>–Betelgeuse</b>
0	83 21.1 2862	64 56.4 2844	70 48.7 2834	76 48.9 2869	84 40.7 2947
3	84 54.2 2871	63 22.9 2853	69 15.0 2843	75 15.9 2879	83 9.4 2957
6	86 27.1 2880	61 49.6 2862	67 41.4 2852	73 43.2 2888	81 38.3 2967
9	87 59.9 2888	60 16.5 2871	66 8.1 2860	72 10.6 2897	80 7.4 2976
12	89 32.4 2897	58 43.6 2881	64 34.9 2869	70 38.3 2907	78 36.8 2987
15	91 4.8 2905	57 10.9 2889	63 2.0 2877	69 6.1 2916	77 6.3 2996
18	92 37.0 2914	55 38.3 2899	61 29.2 2886	67 34.2 2926	75 36.0 3007
21	94 9.0 2923	54 6.0 2908	59 56.6 2894	66 2.4 2935	74 5.9 3017