

## AUGUST 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>1 UT</b>	<b>+Markab</b>	<b>+Diphda</b>	<b>+Alpheratz</b>	<b>+Hamal</b>	<b>–Sun</b>
0	72 14.5 3215	62 38.9 3540	55 16.0 3594	28 41.4 3297	64 48.6 3423
3	73 40.4 3219	63 58.6 3534	56 34.7 3581	30 5.6 3281	63 26.7 3430
6	75 6.2 3221	65 18.4 3527	57 53.6 3569	31 30.2 3266	62 5.0 3435
9	76 31.9 3223	66 38.2 3521	59 12.7 3557	32 55.0 3254	60 43.4 3441
12	77 57.6 3226	67 58.3 3515	60 32.1 3547	34 20.1 3243	59 21.9 3446
15	79 23.2 3228	69 18.4 3510	61 51.6 3538	35 45.4 3234	58 0.5 3451
18	80 48.8 3230	70 38.6 3505	63 11.3 3529	37 10.8 3226	56 39.2 3455
21	82 14.4 3232	71 58.9 3501	64 31.2 3521	38 36.5 3219	55 18.0 3460
<b>2 UT</b>	<b>+Diphda</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>+Aldebaran</b>	<b>–Sun</b>
0	73 19.2 3497	40 2.2 3213	32 39.1 3430	6 34.1 3537	53 56.9 3464
3	74 39.7 3493	41 28.1 3207	34 0.8 3405	7 53.8 3393	52 35.8 3467
6	76 0.2 3490	42 54.1 3202	35 22.9 3383	9 16.2 3307	51 14.8 3470
9	77 20.8 3487	44 20.2 3197	36 45.5 3364	10 40.3 3252	49 53.8 3473
12	78 41.4 3483	45 46.4 3192	38 8.5 3347	12 5.4 3216	48 32.9 3476
15	80 2.1 3480	47 12.7 3187	39 31.7 3331	13 31.2 3190	47 12.1 3478
18	81 22.9 3478	48 39.1 3183	40 55.3 3317	14 57.6 3170	45 51.3 3480
21	82 43.7 3475	50 5.6 3179	42 19.2 3304	16 24.3 3155	44 30.5 3482
<b>3 UT</b>	<b>+Alpheratz</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>+Aldebaran</b>	<b>–Sun</b>
0	76 35.7 3465	51 32.2 3175	43 43.3 3292	17 51.3 3144	43 9.8 3484
3	77 56.8 3461	52 58.8 3170	45 7.6 3281	19 18.6 3134	41 49.1 3484
6	79 17.9 3456	54 25.6 3167	46 32.2 3270	20 46.1 3126	40 28.4 3487
9	80 39.1 3452	55 52.4 3163	47 56.9 3260	22 13.7 3119	39 7.8 3487
12	82 0.4 3448	57 19.3 3158	49 21.9 3251	23 41.4 3113	37 47.1 3488
15	83 21.7 3444	58 46.2 3154	50 47.0 3242	25 9.3 3107	36 26.5 3490
18	84 43.2 3440	60 13.3 3149	52 12.3 3233	26 37.3 3102	35 5.9 3491
21	86 4.7 3437	61 40.5 3145	53 37.8 3225	28 5.4 3097	33 45.4 3493
<b>4 UT</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>+Aldebaran</b>	<b>+Elnath</b>	<b>–Sun</b>
0	63 7.7 3141	55 3.5 3217	29 33.6 3092	19 22.6 3525	32 24.9 3494
3	64 35.0 3136	56 29.3 3209	31 2.0 3087	20 42.6 3464	31 4.4 3496
6	66 2.4 3132	57 55.2 3201	32 30.4 3082	22 3.6 3413	29 43.9 3499
9	67 30.0 3127	59 21.4 3193	33 58.9 3077	23 25.7 3370	28 23.5 3501
12	68 57.6 3122	60 47.6 3186	35 27.5 3072	24 48.5 3333	27 3.1 3505
15	70 25.3 3117	62 14.1 3179	36 56.2 3067	26 12.0 3301	25 42.8 3510
18	71 53.1 3112	63 40.6 3172	38 25.0 3062	27 36.2 3274	24 22.6 3517
21	73 21.0 3107	65 7.3 3165	39 54.0 3058	29 0.9 3249	23 2.5 3525
<b>5 UT</b>	<b>+Hamal</b>	<b>+Aldebaran</b>	<b>+Elnath</b>	<b>+Betelgeuse</b>	<b>–Sun</b>
0	74 49.0 3102	41 23.0 3052	30 26.1 3227	24 54.4 3653	21 42.6 3534
3	76 17.1 3096	42 52.1 3047	31 51.7 3208	26 12.0 3586	20 22.8 3548
6	77 45.3 3091	44 21.4 3041	33 17.7 3190	27 30.8 3529	19 3.3 3565
9	79 13.6 3085	45 50.7 3035	34 44.0 3173	28 50.7 3478	17 44.1 3587
12	80 42.1 3081	47 20.2 3030	36 10.7 3158	30 11.5 3434	16 25.3 3617
15	82 10.6 3074	48 49.8 3024	37 37.7 3143	31 33.1 3395	15 7.1 3658
18	83 39.3 3069	50 19.5 3018	39 4.9 3130	32 55.5 3359	13 49.5 3713
21	85 8.1 3063	51 49.3 3012	40 32.5 3117	34 18.5 3328	12 33.0 3790

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<b>8 UT</b>	<b>+Sun</b>	<b>–Venus</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Zubenelgen</b>
0	13 13.7 3550	22 31.3 3447	56 1.2 2890	67 55.9 2913	77 23.1 2890
3	14 33.1 3489	21 9.9 3454	54 28.7 2883	66 23.9 2906	75 50.5 2883
6	15 53.8 3439	19 48.7 3465	52 56.0 2875	64 51.7 2899	74 17.9 2875
9	17 15.3 3400	18 27.6 3479	51 23.2 2868	63 19.4 2892	72 45.0 2868
12	18 37.5 3367	17 6.8 3500	49 50.2 2860	61 46.9 2884	71 12.0 2860
15	20 0.4 3338	15 46.4 3530	48 17.1 2852	60 14.3 2876	69 38.9 2852
18	21 23.9 3313	14 26.6 3572	46 43.7 2844	58 41.4 2869	68 5.5 2844
21	22 47.8 3291	13 7.5 3631	45 10.2 2836	57 8.5 2861	66 32.0 2836
<b>9 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Zubenelgen</b>	<b>–Antares</b>
0	24 12.2 3271	43 36.6 2829	55 35.3 2854	64 58.4 2828	89 12.1 2860
3	25 36.9 3252	42 2.7 2820	54 2.0 2845	63 24.5 2820	87 38.9 2852
6	27 2.0 3236	40 28.7 2812	52 28.6 2838	61 50.5 2812	86 5.6 2844
9	28 27.5 3220	38 54.5 2804	50 54.9 2829	60 16.3 2803	84 32.1 2836
12	29 53.2 3204	37 20.2 2795	49 21.1 2822	58 41.9 2794	82 58.4 2827
15	31 19.3 3191	35 45.6 2787	47 47.1 2814	57 7.4 2787	81 24.5 2820
18	32 45.6 3177	34 10.9 2779	46 13.0 2806	55 32.6 2778	79 50.5 2811
21	34 12.2 3163	32 35.9 2770	44 38.6 2797	53 57.7 2769	78 16.3 2802
<b>10 UT</b>	<b>+Sun</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Zubenelgen</b>	<b>–Antares</b>
0	35 39.1 3150	31 0.8 2761	43 4.1 2790	52 22.5 2761	76 41.9 2795
3	37 6.2 3138	29 25.5 2753	41 29.5 2781	50 47.2 2752	75 7.3 2786
6	38 33.6 3125	27 50.0 2744	39 54.6 2774	49 11.7 2743	73 32.6 2778
9	40 1.3 3113	26 14.4 2735	38 19.6 2765	47 36.0 2734	71 57.6 2769
12	41 29.1 3101	24 38.5 2726	36 44.4 2757	46 0.1 2725	70 22.5 2761
15	42 57.3 3089	23 2.4 2717	35 9.0 2749	44 24.0 2715	68 47.2 2753
18	44 25.7 3077	21 26.1 2708	33 33.4 2741	42 47.7 2706	67 11.7 2744
21	45 54.3 3065	19 49.6 2698	31 57.7 2733	41 11.2 2696	65 36.0 2736
<b>11 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Spica</b>	<b>–Saturn</b>	<b>–Antares</b>
0	47 23.1 3053	13 7.1 3395	18 12.9 2689	30 21.7 2726	64 0.2 2727
3	48 52.2 3042	14 29.5 3332	16 36.0 2680	28 45.7 2718	62 24.1 2719
6	50 21.6 3030	15 53.1 3282	14 58.9 2671	27 9.4 2711	60 47.9 2711
9	51 51.2 3018	17 17.6 3240	13 21.6 2662	25 33.0 2705	59 11.5 2702
12	53 21.0 3006	18 42.9 3206	11 44.1 2653	23 56.5 2699	57 34.9 2694
15	54 51.1 2994	20 9.0 3176	10 6.4 2645	22 19.8 2694	55 58.1 2685
18	56 21.4 2983	21 35.6 3149	8 28.6 2639	20 43.0 2690	54 21.1 2678
21	57 51.9 2971	23 2.8 3125	6 50.5 2636	19 6.1 2687	52 43.9 2669
<b>12 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>–Antares</b>	<b>–Sabik</b>	<b>–Nunki</b>
0	59 22.8 2959	24 30.4 3103	51 6.6 2661	59 54.5 2622	83 39.5 2648
3	60 53.8 2947	25 58.5 3082	49 29.1 2654	58 16.1 2612	82 1.7 2638
6	62 25.1 2934	27 27.0 3062	47 51.4 2646	56 37.5 2601	80 23.7 2628
9	63 56.7 2923	28 55.9 3045	46 13.5 2639	54 58.6 2592	78 45.4 2618
12	65 28.5 2910	30 25.2 3027	44 35.5 2632	53 19.5 2582	77 6.9 2607
15	67 0.6 2898	31 54.9 3010	42 57.3 2625	51 40.2 2572	75 28.1 2597
18	68 33.0 2886	33 24.9 2994	41 19.0 2619	50 0.6 2562	73 49.2 2587
21	70 5.6 2873	34 55.2 2977	39 40.5 2614	48 20.8 2552	72 9.9 2576

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<b>13 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>+Spica</b>	<b>–Antares</b>	<b>–Nunki</b>
0	71 38.5 2861	36 25.9 2961	8 7.4 2528	38 1.9 2609	70 30.5 2566
3	73 11.6 2848	37 56.9 2947	9 48.0 2514	36 23.2 2605	68 50.8 2556
6	74 45.0 2836	39 28.2 2931	11 28.9 2501	34 44.4 2602	67 10.9 2546
9	76 18.7 2823	40 59.8 2916	13 10.1 2488	33 5.6 2601	65 30.7 2535
12	77 52.7 2810	42 31.8 2902	14 51.6 2476	31 26.7 2601	63 50.4 2526
15	79 26.9 2798	44 4.1 2887	16 33.3 2464	29 47.8 2603	62 9.7 2516
18	81 1.4 2785	45 36.7 2872	18 15.4 2452	28 8.9 2608	60 28.9 2506
21	82 36.2 2772	47 9.5 2858	19 57.7 2440	26 30.2 2616	58 47.8 2496
<b>14 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>–Nunki</b>
0	84 11.2 2759	48 42.8 2844	21 40.3 2428	9 51.4 2600	57 6.5 2487
3	85 46.6 2747	50 16.3 2829	23 23.2 2416	11 30.3 2548	55 25.0 2477
6	87 22.2 2734	51 50.1 2815	25 6.4 2404	13 10.4 2510	53 43.2 2468
9	88 58.1 2721	53 24.2 2801	26 49.9 2392	14 51.4 2481	52 1.3 2460
12	90 34.3 2708	54 58.6 2787	28 33.6 2380	16 33.0 2455	50 19.1 2451
15	92 10.8 2696	56 33.4 2773	30 17.7 2368	18 15.3 2434	48 36.8 2443
18	93 47.5 2683	58 8.4 2759	32 2.0 2357	19 58.1 2415	46 54.2 2436
21	95 24.5 2670	59 43.8 2746	33 46.6 2345	21 41.3 2397	45 11.5 2429
<b>15 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>–Nunki</b>
0	97 1.8 2658	61 19.4 2732	35 31.5 2333	23 24.9 2381	43 28.7 2423
3	98 39.4 2646	62 55.3 2719	37 16.7 2321	25 8.9 2366	41 45.6 2418
6	100 17.3 2633	64 31.6 2705	39 2.1 2310	26 53.3 2351	40 2.5 2414
9	101 55.4 2621	66 8.1 2693	40 47.9 2298	28 38.1 2337	38 19.3 2411
12	103 33.9 2609	67 44.9 2680	42 33.9 2287	30 23.1 2324	36 36.0 2410
15	105 12.6 2598	69 22.0 2666	44 20.2 2275	32 8.5 2310	34 52.6 2409
18	106 51.5 2586	70 59.4 2654	46 6.8 2265	33 54.3 2298	33 9.3 2412
21	108 30.7 2575	72 37.1 2642	47 53.6 2254	35 40.3 2286	31 26.0 2417
<b>16 UT</b>	<b>+Sun</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>–Nunki</b>
0	110 10.2 2563	74 15.1 2629	49 40.7 2243	37 26.6 2274	29 42.8 2425
3	111 50.0 2553	75 53.3 2618	51 28.1 2232	39 13.2 2263	27 59.9 2438
6	113 29.9 2542	77 31.8 2606	53 15.8 2222	41 0.1 2251	26 17.2 2455
9	115 10.2 2532	79 10.6 2595	55 3.7 2212	42 47.3 2240	24 34.9 2479
12	116 50.6 2522	80 49.6 2584	56 51.8 2202	44 34.8 2230	22 53.2 2513
15	118 31.3 2512	82 28.9 2573	58 40.2 2192	46 22.5 2220	21 12.3 2558
18	120 12.3 2503	84 8.4 2563	60 28.9 2183	48 10.4 2210	19 32.5 2621
21	121 53.4 2494	85 48.1 2553	62 17.7 2174	49 58.6 2201	17 54.0 2707
<b>17 UT</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Antares</b>	<b>–Enif</b>
0	87 28.1 2544	64 6.8 2166	51 47.0 2192	19 45.2 2442	64 42.9 2421
3	89 8.3 2534	65 56.1 2157	53 35.7 2183	21 27.8 2392	62 59.8 2420
6	90 48.8 2525	67 45.6 2150	55 24.6 2175	23 11.6 2352	61 16.8 2422
9	92 29.4 2517	69 35.3 2142	57 13.6 2167	24 56.3 2318	59 33.7 2425
12	94 10.2 2509	71 25.2 2135	59 2.9 2160	26 41.8 2290	57 50.8 2430
15	95 51.2 2501	73 15.3 2128	60 52.4 2153	28 28.0 2266	56 7.9 2436
18	97 32.4 2494	75 5.6 2122	62 42.0 2147	30 14.9 2245	54 25.2 2445
21	99 13.7 2488	76 56.0 2116	64 31.8 2140	32 2.2 2228	52 42.7 2455

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<b>18 UT</b>	<b>+Venus</b>	<b>+Spica</b>	<b>+Saturn</b>	<b>+Antares</b>	<b>–Markab</b>
0	100 55.2 2482	78 46.6 2111	66 21.8 2135	33 49.9 2212	70 41.8 2298
3	102 36.8 2477	80 37.3 2106	68 11.8 2130	35 38.1 2199	68 55.8 2298
6	104 18.6 2472	82 28.1 2102	70 2.1 2126	37 26.6 2187	67 9.8 2300
9	106 0.4 2468	84 19.0 2098	71 52.4 2122	39 15.3 2176	65 23.8 2302
12	107 42.4 2464	86 10.0 2094	73 42.8 2118	41 4.4 2168	63 37.9 2305
15	109 24.5 2461	88 1.1 2092	75 33.3 2116	42 53.6 2160	61 52.0 2310
18	111 6.6 2459	89 52.3 2090	77 23.9 2113	44 43.1 2154	60 6.3 2316
21	112 48.7 2457	91 43.5 2088	79 14.5 2111	46 32.7 2148	58 20.7 2323
<b>19 UT</b>	<b>+Saturn</b>	<b>+Zubenelgen</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>–Hamal</b>
0	81 5.2 2111	72 12.9 2087	48 22.4 2144	39 7.4 2115	99 21.2 2151
3	82 55.9 2110	74 4.2 2086	50 12.3 2140	40 58.0 2112	97 31.5 2149
6	84 46.6 2110	75 55.5 2087	52 2.2 2138	42 48.7 2110	95 41.8 2149
9	86 37.3 2111	77 46.8 2088	53 52.2 2137	44 39.4 2110	93 52.0 2150
12	88 28.0 2113	79 38.1 2089	55 42.3 2136	46 30.1 2110	92 2.3 2151
15	90 18.7 2115	81 29.3 2091	57 32.4 2136	48 20.9 2111	90 12.7 2153
18	92 9.3 2117	83 20.5 2094	59 22.4 2137	50 11.6 2112	88 23.0 2156
21	93 59.8 2121	85 11.7 2097	61 12.5 2139	52 2.2 2114	86 33.5 2159
<b>20 UT</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Kaus Aust.</b>	<b>+Nunki</b>	<b>–Hamal</b>
0	63 2.4 2141	53 52.8 2118	40 14.3 2474	30 54.6 2253	84 44.0 2164
3	64 52.4 2144	55 43.4 2121	41 56.1 2452	32 41.7 2243	82 54.7 2168
6	66 42.2 2148	57 33.8 2126	43 38.4 2435	34 29.1 2236	81 5.4 2175
9	68 32.0 2153	59 24.1 2131	45 21.2 2420	36 16.7 2231	79 16.3 2181
12	70 21.6 2159	61 14.3 2137	47 4.2 2409	38 4.4 2228	77 27.4 2188
15	72 11.1 2165	63 4.3 2143	48 47.6 2400	39 52.1 2227	75 38.7 2196
18	74 0.4 2172	64 54.2 2150	50 31.2 2394	41 39.9 2228	73 50.1 2205
21	75 49.6 2179	66 43.9 2158	52 14.9 2390	43 27.6 2230	72 1.8 2215
<b>21 UT</b>	<b>+Antares</b>	<b>+Sabik</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Aldebaran</b>
0	77 38.5 2187	68 33.4 2166	45 15.3 2234	70 13.7 2225	103 13.7 2160
3	79 27.3 2196	70 22.7 2175	47 2.9 2238	68 25.9 2236	101 24.3 2169
6	81 15.8 2206	72 11.8 2184	48 50.4 2244	66 38.3 2247	99 35.0 2178
9	83 4.1 2216	74 0.6 2195	50 37.8 2251	64 51.1 2260	97 46.0 2189
12	84 52.2 2227	75 49.2 2206	52 25.0 2258	63 4.1 2274	95 57.3 2200
15	86 40.0 2238	77 37.5 2217	54 12.0 2267	61 17.5 2288	94 8.9 2211
18	88 27.5 2250	79 25.6 2228	55 58.8 2276	59 31.2 2303	92 20.7 2223
21	90 14.7 2262	81 13.3 2240	57 45.4 2286	57 45.3 2319	90 32.8 2235
<b>22 UT</b>	<b>+Nunki</b>	<b>–Hamal</b>	<b>–Menkar</b>	<b>–Aldebaran</b>	<b>–Jupiter</b>
0	59 31.7 2297	55 59.8 2336	64 41.4 2366	88 45.2 2248	120 27.4 2316
3	61 17.7 2309	54 14.7 2353	62 57.0 2383	86 58.0 2261	118 41.8 2329
6	63 3.5 2320	52 30.0 2372	61 13.0 2400	85 11.0 2275	116 56.5 2342
9	64 49.0 2333	50 45.8 2391	59 29.5 2420	83 24.4 2289	115 11.5 2356
12	66 34.2 2346	49 2.0 2412	57 46.4 2440	81 38.2 2304	113 26.9 2370
15	68 19.0 2360	47 18.7 2433	56 3.7 2460	79 52.3 2318	111 42.6 2384
18	70 3.5 2374	45 35.9 2456	54 21.6 2482	78 6.8 2333	109 58.7 2399
21	71 47.7 2389	43 53.7 2480	52 40.0 2505	76 21.6 2349	108 15.1 2415

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<b>23 UT</b>	+Nunki	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	73 31.6 2404	74 36.8 2366	86 37.8 2411	93 58.4 2459	106 31.9 2431
3	75 15.1 2419	72 52.4 2381	84 54.5 2427	92 16.2 2474	104 49.0 2447
6	76 58.2 2434	71 8.4 2397	83 11.6 2443	90 34.4 2491	103 6.6 2463
9	78 40.9 2451	69 24.8 2414	81 29.0 2460	88 53.0 2507	101 24.5 2479
12	80 23.3 2467	67 41.5 2431	79 46.9 2477	87 11.9 2524	99 42.8 2496
15	82 5.3 2483	65 58.7 2448	78 5.2 2495	85 31.3 2541	98 1.5 2513
18	83 46.9 2500	64 16.3 2465	76 23.8 2513	83 51.0 2559	96 20.6 2530
21	85 28.1 2517	62 34.3 2483	74 42.9 2531	82 11.2 2577	94 40.1 2548
<b>24 UT</b>	+Nunki	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	87 8.9 2534	60 52.6 2500	73 2.4 2549	80 31.7 2595	92 60.0 2565
3	88 49.3 2552	59 11.4 2518	71 22.4 2568	78 52.7 2614	91 20.3 2583
6	90 29.3 2569	57 30.6 2535	69 42.7 2586	77 14.1 2632	89 41.0 2600
9	92 8.9 2587	55 50.3 2553	68 3.5 2606	75 35.9 2651	88 2.1 2618
12	93 48.1 2604	54 10.3 2571	66 24.7 2624	73 58.2 2670	86 23.6 2636
15	95 26.9 2622	52 30.7 2589	64 46.4 2643	72 20.9 2690	84 45.5 2653
18	97 5.4 2640	50 51.5 2607	63 8.5 2663	70 44.0 2710	83 7.8 2671
21	98 43.4 2657	49 12.8 2624	61 31.0 2682	69 7.5 2729	81 30.5 2689
<b>25 UT</b>	+Enif	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	53 26.9 2948	47 34.4 2642	59 53.9 2702	67 31.5 2749	79 53.6 2706
3	54 58.2 2953	45 56.5 2660	58 17.3 2721	65 56.0 2769	78 17.0 2723
6	56 29.4 2959	44 18.9 2678	56 41.1 2741	64 20.8 2790	76 40.9 2741
9	58 0.4 2965	42 41.8 2695	55 5.4 2761	62 46.2 2810	75 5.1 2758
12	59 31.4 2973	41 5.0 2713	53 30.1 2781	61 11.9 2831	73 29.8 2775
15	61 2.1 2980	39 28.6 2730	51 55.2 2801	59 38.1 2851	71 54.8 2792
18	62 32.7 2989	37 52.6 2747	50 20.8 2821	58 4.8 2872	70 20.1 2809
21	64 3.2 2998	36 17.0 2765	48 46.8 2842	56 31.9 2894	68 45.9 2825
<b>26 UT</b>	+Markab	–Aldebaran	–Betelgeuse	–Jupiter	–Sun
0	45 21.8 3094	34 41.8 2782	54 59.5 2915	67 12.0 2842	117 11.8 3126
3	46 50.0 3092	33 6.9 2799	53 27.5 2938	65 38.4 2858	115 44.2 3143
6	48 18.3 3092	31 32.5 2816	51 56.0 2960	64 5.2 2874	114 16.9 3159
9	49 46.6 3094	29 58.4 2833	50 24.9 2982	62 32.4 2889	112 49.9 3174
12	51 14.9 3096	28 24.6 2850	48 54.4 3005	60 59.8 2905	111 23.3 3190
15	52 43.1 3099	26 51.3 2867	47 24.3 3029	59 27.6 2919	109 56.9 3205
18	54 11.3 3103	25 18.3 2885	45 54.7 3053	57 55.7 2934	108 30.9 3220
21	55 39.4 3108	23 45.6 2903	44 25.5 3078	56 24.1 2949	107 5.1 3234
<b>27 UT</b>	+Markab	–Aldebaran	–Betelgeuse	–Jupiter	–Sun
0	57 7.4 3113	22 13.4 2922	42 56.9 3104	54 52.9 2963	105 39.7 3249
3	58 35.3 3118	20 41.6 2941	41 28.9 3131	53 21.9 2977	104 14.5 3262
6	60 3.1 3123	19 10.1 2961	40 1.4 3159	51 51.2 2990	102 49.6 3275
9	61 30.7 3130	17 39.1 2985	38 34.4 3190	50 20.8 3004	101 24.9 3289
12	62 58.3 3135	16 8.6 3010	37 8.1 3221	48 50.7 3016	100 0.5 3301
15	64 25.7 3142	14 38.6 3040	35 42.3 3255	47 20.8 3029	98 36.4 3313
18	65 53.0 3148	13 9.2 3076	34 17.3 3291	45 51.2 3041	97 12.4 3325
21	67 20.2 3154	11 40.6 3124	32 52.9 3331	44 21.8 3053	95 48.7 3336

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	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
<b>28 UT</b>	<b>+Markab</b>	<b>+Hamal</b>	<b>–Betelgeuse</b>	<b>–Jupiter</b>	<b>–Sun</b>
0	68 47.3 3160	25 21.6 3319	31 29.3 3375	42 52.7 3065	94 25.3 3347
3	70 14.2 3166	26 45.4 3294	30 6.6 3422	41 23.9 3076	93 2.0 3357
6	71 41.1 3172	28 9.7 3274	28 44.8 3476	39 55.2 3088	91 38.9 3367
9	73 7.8 3177	29 34.4 3257	27 23.9 3537	38 26.8 3098	90 16.0 3377
12	74 34.4 3183	30 59.4 3244	26 4.2 3606	36 58.7 3109	88 53.3 3385
15	76 0.8 3188	32 24.7 3232	24 45.8 3686	35 30.7 3120	87 30.8 3394
18	77 27.2 3194	33 50.2 3223	23 28.7 3781	34 2.9 3131	86 8.4 3402
21	78 53.5 3199	35 15.9 3216	22 13.4 3891	32 35.4 3141	84 46.2 3409
<b>29 UT</b>	<b>+Diphda</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>–Jupiter</b>	<b>–Sun</b>
0	70 1.4 3474	36 41.7 3210	29 20.0 3458	31 8.1 3152	83 24.1 3416
3	71 22.3 3471	38 7.7 3204	30 41.2 3428	29 41.0 3162	82 2.1 3423
6	72 43.2 3470	39 33.7 3199	32 2.9 3402	28 14.1 3173	80 40.3 3429
9	74 4.1 3469	40 59.9 3196	33 25.2 3380	26 47.4 3185	79 18.5 3434
12	75 25.1 3467	42 26.1 3192	34 47.8 3361	25 20.9 3197	77 56.9 3439
15	76 46.1 3467	43 52.4 3189	36 10.8 3344	23 54.7 3210	76 35.4 3444
18	78 7.1 3465	45 18.8 3185	37 34.1 3329	22 28.8 3225	75 13.9 3447
21	79 28.2 3465	46 45.2 3183	38 57.8 3316	21 3.1 3242	73 52.6 3451
<b>30 UT</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>+Aldebaran</b>	<b>–Jupiter</b>	<b>–Sun</b>
0	48 11.7 3180	40 21.7 3303	14 24.4 3153	19 37.8 3261	72 31.3 3454
3	49 38.2 3177	41 45.8 3292	15 51.5 3140	18 12.9 3284	71 10.0 3456
6	51 4.8 3175	43 10.1 3282	17 18.9 3132	16 48.4 3314	69 48.8 3458
9	52 31.5 3172	44 34.7 3272	18 46.4 3124	15 24.5 3351	68 27.6 3460
12	53 58.2 3169	45 59.4 3263	20 14.0 3118	14 1.3 3399	67 6.5 3461
15	55 24.9 3166	47 24.3 3255	21 41.8 3113	12 39.0 3466	65 45.4 3461
18	56 51.7 3163	48 49.3 3247	23 9.7 3109	11 18.0 3561	64 24.3 3462
21	58 18.6 3160	50 14.6 3239	24 37.6 3104	9 58.7 3703	63 3.2 3461
<b>31 UT</b>	<b>+Hamal</b>	<b>+Menkar</b>	<b>+Aldebaran</b>	<b>+Elnath</b>	<b>–Sun</b>
0	59 45.6 3156	51 39.9 3231	26 5.7 3100	16 27.3 3764	61 42.0 3461
3	61 12.6 3153	53 5.5 3224	27 33.8 3096	17 43.0 3660	60 20.9 3460
6	62 39.7 3149	54 31.1 3217	29 2.1 3093	19 0.5 3576	58 59.8 3459
9	64 6.8 3144	55 56.9 3209	30 30.4 3088	20 19.5 3507	57 38.6 3456
12	65 34.1 3140	57 22.9 3202	31 58.8 3084	21 39.7 3451	56 17.4 3454
15	67 1.4 3136	58 49.0 3195	33 27.2 3080	23 1.0 3404	54 56.1 3451
18	68 28.9 3130	60 15.3 3187	34 55.8 3074	24 23.2 3363	53 34.8 3448
21	69 56.4 3126	61 41.7 3181	36 24.5 3070	25 46.2 3329	52 13.5 3445