

JULY 2010

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Antares	+Kaus Aust.	+Nunki	–Jupiter	–Hamal
0	79 53.1 3069	55 57.4 3171	47 25.6 3082	33 32.7 3190	68 3.1 3088
3	81 21.8 3071	57 24.1 3169	48 54.1 3083	32 6.3 3201	66 34.7 3090
6	82 50.6 3073	58 50.9 3168	50 22.6 3084	30 40.2 3212	65 6.3 3093
9	84 19.3 3073	60 17.7 3166	51 51.1 3084	29 14.3 3223	63 38.0 3094
12	85 48.0 3075	61 44.5 3164	53 19.6 3085	27 48.6 3237	62 9.8 3096
15	87 16.6 3075	63 11.3 3162	54 48.0 3085	26 23.2 3253	60 41.5 3097
18	88 45.3 3075	64 38.2 3160	56 16.5 3084	24 58.1 3271	59 13.3 3098
21	90 13.9 3074	66 5.2 3158	57 45.0 3083	23 33.4 3291	57 45.1 3098
2 UT	+Kaus Aust.	+Nunki	–Jupiter	–Hamal	–Sun
0	67 32.2 3155	59 13.4 3083	22 9.0 3317	56 16.9 3098	118 39.5 3435
3	68 59.2 3152	60 41.9 3081	20 45.2 3348	54 48.7 3098	117 17.9 3434
6	70 26.3 3149	62 10.5 3079	19 21.9 3386	53 20.5 3098	115 56.3 3432
9	71 53.4 3145	63 39.1 3076	17 59.4 3433	51 52.4 3096	114 34.6 3429
12	73 20.7 3142	65 7.7 3074	16 37.7 3496	50 24.1 3095	113 12.9 3427
15	74 48.0 3138	66 36.4 3071	15 17.2 3577	48 55.9 3093	111 51.2 3424
18	76 15.3 3134	68 5.1 3067	13 58.3 3687	47 27.6 3092	110 29.3 3420
21	77 42.8 3129	69 33.9 3063	12 41.2 3840	45 59.3 3090	109 7.5 3416
3 UT	+Shaula	+Kaus Aust.	+Nunki	–Hamal	–Sun
0	89 39.5 3149	79 10.4 3124	71 2.8 3059	44 30.9 3087	107 45.5 3411
3	91 6.7 3144	80 38.0 3119	72 31.8 3054	43 2.5 3085	106 23.4 3406
6	92 33.9 3139	82 5.8 3112	74 0.9 3048	41 34.1 3082	105 1.3 3400
9	94 1.3 3134	83 33.7 3107	75 30.1 3043	40 5.5 3079	103 39.0 3394
12	95 28.8 3128	85 1.7 3100	76 59.4 3036	38 37.0 3076	102 16.6 3387
15	96 56.4 3122	86 29.9 3093	78 28.9 3030	37 8.3 3073	100 54.1 3381
18	98 24.1 3116	87 58.2 3086	79 58.5 3023	35 39.6 3070	99 31.5 3373
21	99 51.9 3109	89 26.6 3079	81 28.2 3015	34 10.9 3066	98 8.7 3364
4 UT	+Kaus Aust.	+Nunki	+Jupiter	–Hamal	–Sun
0	90 55.2 3071	82 58.1 3007	6 57.6 6619	32 42.0 3063	96 45.8 3356
3	92 23.9 3063	84 28.1 2999	7 36.8 5374	31 13.1 3061	95 22.7 3347
6	93 52.8 3054	85 58.4 2990	8 29.0 4644	29 44.2 3059	93 59.4 3337
9	95 21.9 3045	87 28.8 2980	9 30.7 4186	28 15.2 3057	92 35.9 3327
12	96 51.2 3036	88 59.4 2971	10 39.4 3883	26 46.2 3058	91 12.3 3317
15	98 20.7 3026	90 30.2 2960	11 53.0 3671	25 17.2 3058	89 48.4 3306
18	99 50.3 3016	92 1.2 2950	13 10.3 3519	23 48.2 3061	88 24.3 3294
21	101 20.2 3006	93 32.5 2939	14 30.3 3405	22 19.2 3067	87 0.0 3282
5 UT	+Nunki	+Enif	+Jupiter	–Hamal	–Sun
0	95 4.0 2927	46 51.9 3338	15 52.5 3315	20 50.4 3076	85 35.5 3269
3	96 35.7 2916	48 15.3 3307	17 16.4 3244	19 21.8 3090	84 10.7 3257
6	98 7.7 2903	49 39.4 3276	18 41.7 3185	17 53.4 3111	82 45.7 3243
9	99 39.9 2891	51 4.0 3248	20 8.1 3136	16 25.5 3142	81 20.4 3230
12	101 12.4 2877	52 29.2 3219	21 35.5 3093	14 58.2 3186	79 54.8 3215
15	102 45.2 2864	53 55.0 3193	23 3.8 3055	13 31.8 3254	78 29.0 3201
18	104 18.3 2850	55 21.3 3166	24 32.9 3021	12 6.7 3355	77 2.9 3186
21	105 51.6 2837	56 48.1 3141	26 2.7 2990	10 43.5 3514	75 36.4 3171

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6 UT	+Fomalhaut	+Enif	+Markab	+Jupiter	–Sun
0	60 33.5 3400	58 15.4 3116	37 58.8 3186	27 33.1 2960	74 9.7 3155
3	61 55.8 3369	59 43.2 3091	39 25.2 3147	29 4.1 2934	72 42.7 3139
6	63 18.6 3338	61 11.6 3067	40 52.4 3111	30 35.7 2908	71 15.3 3122
9	64 42.1 3308	62 40.4 3044	42 20.3 3076	32 7.9 2884	69 47.6 3106
12	66 6.1 3279	64 9.7 3021	43 49.0 3042	33 40.5 2860	68 19.5 3089
15	67 30.7 3252	65 39.5 2998	45 18.3 3011	35 13.7 2837	66 51.2 3071
18	68 55.8 3224	67 9.7 2976	46 48.3 2981	36 47.3 2815	65 22.4 3053
21	70 21.5 3197	68 40.4 2953	48 18.9 2951	38 21.5 2792	63 53.3 3036
7 UT	+Fomalhaut	+Enif	+Markab	+Jupiter	–Sun
0	71 47.7 3171	70 11.6 2931	49 50.1 2923	39 56.1 2771	62 23.9 3018
3	73 14.4 3146	71 43.2 2910	51 21.9 2895	41 31.2 2750	60 54.0 2999
6	74 41.6 3122	73 15.3 2889	52 54.3 2869	43 6.8 2728	59 23.8 2981
9	76 9.3 3098	74 47.9 2868	54 27.3 2843	44 42.8 2708	57 53.2 2963
12	77 37.5 3075	76 20.8 2848	56 0.8 2818	46 19.3 2687	56 22.2 2943
15	79 6.2 3052	77 54.3 2827	57 34.9 2793	47 56.2 2667	54 50.8 2924
18	80 35.3 3030	79 28.1 2807	59 9.5 2768	49 33.6 2646	53 19.0 2905
21	82 4.9 3009	81 2.4 2787	60 44.7 2745	51 11.5 2626	51 46.8 2887
8 UT	+Markab	+Jupiter	+Alpheratz	+Hamal	–Sun
0	62 20.3 2721	52 49.8 2606	45 5.8 3131	18 42.4 2713	50 14.2 2867
3	63 56.5 2699	54 28.5 2587	46 33.3 3082	20 18.8 2671	48 41.2 2848
6	65 33.2 2677	56 7.7 2567	48 1.8 3036	21 56.1 2634	47 7.8 2829
9	67 10.4 2654	57 47.4 2547	49 31.3 2992	23 34.2 2600	45 34.0 2810
12	68 48.0 2633	59 27.5 2528	51 1.6 2951	25 13.1 2570	43 59.7 2791
15	70 26.2 2613	61 8.1 2509	52 32.9 2912	26 52.7 2542	42 25.1 2772
18	72 4.8 2592	62 49.1 2490	54 4.9 2875	28 33.0 2515	40 50.0 2753
21	73 43.9 2571	64 30.5 2472	55 37.7 2840	30 13.8 2490	39 14.5 2734
9 UT	+Markab	+Jupiter	+Alpheratz	+Hamal	–Sun
0	75 23.5 2552	66 12.4 2453	57 11.3 2807	31 55.2 2467	37 38.6 2716
3	77 3.5 2533	67 54.7 2435	58 45.6 2775	33 37.2 2444	36 2.3 2697
6	78 43.9 2514	69 37.4 2417	60 20.6 2745	35 19.7 2422	34 25.6 2679
9	80 24.8 2496	71 20.6 2400	61 56.3 2717	37 2.8 2402	32 48.5 2661
12	82 6.1 2478	73 4.2 2382	63 32.6 2689	38 46.3 2382	31 10.9 2643
15	83 47.9 2461	74 48.2 2365	65 9.5 2663	40 30.3 2362	29 33.0 2626
18	85 30.0 2444	76 32.6 2349	66 46.9 2638	42 14.8 2344	27 54.7 2609
21	87 12.5 2428	78 17.4 2332	68 25.0 2614	43 59.7 2326	26 16.0 2593
10 UT	+Jupiter	+Alpheratz	+Hamal	+Menkar	–Sun
0	80 2.6 2317	70 3.6 2592	45 45.0 2308	40 55.6 2741	24 36.9 2576
3	81 48.1 2301	71 42.7 2571	47 30.8 2292	42 31.3 2696	22 57.5 2561
6	83 34.1 2286	73 22.2 2550	49 17.0 2275	44 8.1 2654	21 17.7 2545
9	85 20.4 2272	75 2.3 2531	51 3.6 2260	45 45.8 2616	19 37.5 2531
12	87 7.1 2258	76 42.8 2513	52 50.6 2244	47 24.3 2580	17 57.0 2517
15	88 54.1 2245	78 23.7 2496	54 37.9 2230	49 3.7 2548	16 16.2 2503
18	90 41.4 2231	80 5.0 2480	56 25.6 2216	50 43.8 2518	14 35.1 2490
21	92 29.1 2219	81 46.7 2465	58 13.7 2203	52 24.6 2490	12 53.6 2479

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13 UT	+Sun	–Venus	–Mars	–Saturn	–Spica
0	16 30.4 2349	26 11.0 2510	43 3.4 2281	52 39.6 2140	77 2.8 2067
3	18 15.2 2347	24 30.0 2525	41 17.0 2284	50 49.6 2142	75 11.0 2066
6	20 0.1 2346	22 49.4 2543	39 30.6 2287	48 59.7 2145	73 19.1 2065
9	21 44.9 2346	21 9.2 2568	37 44.3 2292	47 9.9 2149	71 27.2 2066
12	23 29.8 2346	19 29.5 2600	35 58.2 2298	45 20.2 2154	69 35.4 2066
15	25 14.6 2348	17 50.6 2644	34 12.1 2306	43 30.6 2162	67 43.6 2068
18	26 59.5 2350	16 12.7 2702	32 26.3 2315	41 41.2 2170	65 51.8 2070
21	28 44.2 2353	14 36.1 2783	30 40.7 2327	39 52.0 2179	64 0.0 2073
14 UT	+Sun	–Mars	–Saturn	–Gienah	–Spica
0	30 28.9 2356	28 55.4 2341	38 3.0 2191	49 37.8 2170	62 8.4 2077
3	32 13.6 2360	27 10.4 2357	36 14.3 2204	47 48.6 2180	60 16.8 2081
6	33 58.1 2364	25 25.8 2377	34 26.0 2220	45 59.6 2191	58 25.3 2086
9	35 42.5 2370	23 41.6 2401	32 38.0 2238	44 10.9 2204	56 34.0 2091
12	37 26.8 2375	21 58.1 2431	30 50.5 2259	42 22.6 2218	54 42.8 2097
15	39 11.0 2382	20 15.3 2469	29 3.5 2284	40 34.6 2235	52 51.7 2104
18	40 54.9 2389	18 33.3 2515	27 17.1 2312	38 47.0 2253	51 0.9 2111
21	42 38.8 2397	16 52.5 2577	25 31.5 2348	36 59.9 2274	49 10.2 2119
15 UT	+Sun	+Venus	–Spica	–Zubnelgen	–Antares
0	44 22.4 2404	5 46.9 5991	47 19.7 2127	68 41.3 2132	92 55.0 2116
3	46 5.9 2414	6 32.2 4499	45 29.4 2136	66 51.1 2141	91 4.4 2125
6	47 49.1 2422	7 36.1 3763	43 39.3 2145	65 1.2 2149	89 14.1 2133
9	49 32.2 2432	8 51.8 3361	41 49.5 2155	63 11.5 2159	87 23.9 2142
12	51 15.0 2442	10 14.8 3125	39 59.9 2165	61 22.0 2169	85 34.0 2151
15	52 57.6 2452	11 42.4 2978	38 10.6 2176	59 32.8 2179	83 44.4 2161
18	54 39.9 2462	13 13.1 2884	36 21.5 2188	57 43.8 2190	81 54.9 2171
21	56 22.0 2474	14 45.7 2821	34 32.8 2200	55 55.1 2201	80 5.8 2181
16 UT	+Sun	+Venus	–Spica	–Zubnelgen	–Antares
0	58 3.8 2485	16 19.7 2779	32 44.3 2213	54 6.7 2213	78 16.9 2192
3	59 45.4 2497	17 54.6 2751	30 56.2 2227	52 18.6 2225	76 28.2 2203
6	61 26.6 2509	19 30.2 2733	29 8.4 2241	50 30.8 2238	74 39.8 2214
9	63 7.6 2522	21 6.1 2722	27 21.0 2256	48 43.3 2251	72 51.7 2226
12	64 48.3 2534	22 42.2 2715	25 33.9 2272	46 56.1 2264	71 3.9 2238
15	66 28.8 2547	24 18.6 2713	23 47.3 2290	45 9.2 2278	69 16.4 2250
18	68 8.9 2560	25 54.9 2713	22 1.0 2309	43 22.7 2292	67 29.2 2262
21	69 48.7 2573	27 31.3 2716	20 15.3 2330	41 36.5 2307	65 42.3 2274
17 UT	+Sun	+Venus	+Mars	–Antares	–Shaula
0	71 28.2 2587	29 7.6 2721	14 44.8 2783	63 55.7 2287	78 6.4 2388
3	73 7.5 2600	30 43.8 2727	16 19.6 2739	62 9.4 2300	76 22.5 2403
6	74 46.4 2614	32 19.9 2734	17 55.4 2710	60 23.4 2313	74 39.0 2417
9	76 25.0 2627	33 55.8 2743	19 31.8 2691	58 37.7 2325	72 55.9 2432
12	78 3.3 2641	35 31.5 2752	21 8.7 2679	56 52.4 2338	71 13.1 2447
15	79 41.2 2655	37 7.0 2762	22 45.8 2672	55 7.3 2352	69 30.6 2463
18	81 18.9 2669	38 42.2 2772	24 23.1 2669	53 22.6 2364	67 48.5 2479
21	82 56.2 2683	40 17.3 2783	26 0.4 2670	51 38.2 2378	66 6.8 2495

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18 UT	+Sun	+Venus	+Mars	+Saturn	–Antares
0	84 33.3 2698	41 52.1 2795	27 37.8 2673	21 26.1 2681	49 54.1 2391
3	86 10.0 2711	43 26.7 2806	29 15.0 2677	23 3.1 2658	48 10.3 2404
6	87 46.4 2725	45 1.0 2818	30 52.2 2683	24 40.7 2643	46 26.8 2418
9	89 22.5 2740	46 35.1 2830	32 29.2 2690	26 18.7 2632	44 43.7 2431
12	90 58.2 2753	48 8.9 2842	34 6.1 2698	27 56.8 2626	43 0.9 2444
15	92 33.7 2768	49 42.4 2855	35 42.8 2707	29 35.2 2624	41 18.3 2458
18	94 8.9 2781	51 15.7 2867	37 19.3 2716	31 13.5 2623	39 36.1 2471
21	95 43.8 2795	52 48.7 2880	38 55.6 2725	32 51.9 2624	37 54.2 2484
19 UT	+Sun	+Venus	+Mars	+Saturn	–Antares
0	97 18.3 2809	54 21.4 2893	40 31.7 2736	34 30.3 2627	36 12.7 2497
3	98 52.6 2823	55 53.9 2905	42 7.6 2746	36 8.6 2631	34 31.4 2510
6	100 26.5 2836	57 26.1 2918	43 43.2 2757	37 46.8 2636	32 50.4 2524
9	102 0.2 2850	58 58.0 2930	45 18.6 2767	39 24.9 2643	31 9.8 2537
12	103 33.6 2863	60 29.7 2942	46 53.8 2778	41 2.8 2649	29 29.4 2550
15	105 6.7 2876	62 1.1 2955	48 28.7 2789	42 40.6 2657	27 49.4 2563
18	106 39.5 2889	63 32.2 2967	50 3.4 2800	44 18.2 2664	26 9.6 2577
21	108 12.0 2902	65 3.1 2980	51 37.8 2812	45 55.7 2672	24 30.2 2590
20 UT	+Sun	+Venus	+Mars	+Spica	–Antares
0	109 44.3 2915	66 33.7 2992	53 12.0 2823	23 4.8 2628	22 51.0 2604
3	111 16.3 2928	68 4.1 3005	54 46.0 2834	24 43.0 2635	21 12.2 2618
6	112 48.0 2940	69 34.2 3016	56 19.7 2845	26 21.1 2643	19 33.7 2632
9	114 19.4 2953	71 4.1 3028	57 53.2 2856	27 59.1 2651	17 55.6 2648
12	115 50.6 2965	72 33.7 3040	59 26.4 2867	29 36.8 2660	16 17.7 2665
15	117 21.6 2977	74 3.1 3051	60 59.5 2877	31 14.4 2669	14 40.3 2682
18	118 52.3 2989	75 32.2 3063	62 32.2 2889	32 51.7 2678	13 3.2 2704
21	120 22.7 3001	77 1.1 3075	64 4.8 2899	34 28.9 2687	11 26.7 2730
21 UT	+Venus	+Mars	+Saturn	+Spica	–Nunki
0	78 29.8 3086	65 37.1 2910	60 24.1 2753	36 5.8 2696	42 21.3 2697
3	79 58.2 3097	67 9.2 2921	61 59.6 2762	37 42.5 2706	40 44.6 2709
6	81 26.4 3108	68 41.1 2931	63 34.9 2771	39 19.1 2715	39 8.2 2721
9	82 54.4 3119	70 12.7 2941	65 10.0 2781	40 55.4 2724	37 32.0 2732
12	84 22.2 3130	71 44.2 2951	66 44.8 2789	42 31.5 2733	35 56.0 2744
15	85 49.7 3140	73 15.4 2961	68 19.5 2799	44 7.4 2742	34 20.4 2756
18	87 17.1 3151	74 46.4 2971	69 54.0 2808	45 43.1 2751	32 44.9 2768
21	88 44.2 3161	76 17.2 2981	71 28.3 2816	47 18.7 2761	31 9.8 2781
22 UT	+Venus	+Mars	+Saturn	+Spica	–Jupiter
0	90 11.1 3171	77 47.8 2990	73 2.4 2825	48 54.0 2769	110 22.3 2792
3	91 37.8 3181	79 18.2 3001	74 36.3 2834	50 29.1 2778	108 47.7 2801
6	93 4.4 3191	80 48.4 3010	76 10.0 2843	52 4.0 2787	107 13.3 2809
9	94 30.7 3200	82 18.4 3019	77 43.5 2851	53 38.8 2795	105 39.0 2818
12	95 56.8 3210	83 48.2 3028	79 16.9 2860	55 13.3 2804	104 4.9 2826
15	97 22.8 3220	85 17.8 3038	80 50.0 2869	56 47.7 2812	102 31.1 2835
18	98 48.5 3229	86 47.2 3046	82 23.0 2877	58 21.9 2821	100 57.4 2842
21	100 14.1 3239	88 16.5 3056	83 55.8 2886	59 55.9 2829	99 23.8 2851

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23 UT	+Venus	+Spica	+Zubenelgen	+Antares	–Jupiter
0	101 39.4 3248	61 29.7 2837	40 19.2 2863	15 52.7 2854	97 50.5 2859
3	103 4.6 3257	63 3.4 2845	41 52.3 2869	17 26.0 2858	96 17.3 2866
6	104 29.7 3266	64 36.9 2853	43 25.2 2876	18 59.2 2863	94 44.2 2874
9	105 54.5 3274	66 10.2 2861	44 58.1 2882	20 32.2 2869	93 11.4 2882
12	107 19.2 3283	67 43.3 2868	46 30.8 2888	22 5.2 2875	91 38.7 2890
15	108 43.7 3292	69 16.3 2875	48 3.3 2895	23 38.1 2881	90 6.2 2897
18	110 8.1 3300	70 49.1 2883	49 35.7 2901	25 10.8 2887	88 33.8 2905
21	111 32.2 3309	72 21.8 2890	51 8.0 2907	26 43.4 2893	87 1.6 2912
24 UT	+Venus	+Spica	+Zubenelgen	+Antares	–Jupiter
0	112 56.2 3317	73 54.3 2898	52 40.1 2914	28 15.8 2900	85 29.6 2920
3	114 20.1 3325	75 26.7 2905	54 12.2 2920	29 48.1 2906	83 57.7 2927
6	115 43.8 3333	76 58.9 2912	55 44.0 2926	31 20.3 2913	82 25.9 2934
9	117 7.3 3341	78 30.9 2919	57 15.8 2933	32 52.3 2919	80 54.3 2940
12	118 30.7 3350	80 2.8 2926	58 47.4 2939	34 24.2 2926	79 22.9 2948
15	119 53.9 3358	81 34.6 2932	60 18.9 2945	35 56.0 2932	77 51.6 2955
18	121 17.0 3365	83 6.2 2939	61 50.2 2951	37 27.6 2938	76 20.5 2962
21	122 39.9 3373	84 37.7 2945	63 21.4 2957	38 59.1 2944	74 49.5 2969
25 UT	+Spica	+Zubenelgen	+Antares	+Nunki	–Jupiter
0	86 9.0 2952	64 52.5 2963	40 30.5 2950	8 39.2 3276	73 18.6 2975
3	87 40.2 2958	66 23.5 2969	42 1.7 2956	10 3.8 3196	71 47.9 2983
6	89 11.3 2964	67 54.3 2975	43 32.9 2962	11 30.1 3146	70 17.3 2989
9	90 42.3 2970	69 25.1 2981	45 3.8 2968	12 57.3 3113	68 46.9 2995
12	92 13.1 2976	70 55.7 2987	46 34.7 2974	14 25.2 3091	67 16.6 3002
15	93 43.8 2982	72 26.2 2992	48 5.5 2979	15 53.5 3076	65 46.4 3008
18	95 14.4 2988	73 56.5 2998	49 36.1 2985	17 22.1 3067	64 16.4 3015
21	96 44.8 2993	75 26.8 3003	51 6.6 2990	18 50.9 3060	62 46.5 3021
26 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Jupiter
0	52 37.0 2996	40 15.8 3230	29 44.2 3287	20 19.9 3056	61 16.7 3028
3	54 7.3 3001	41 41.3 3222	31 8.6 3268	21 49.0 3053	59 47.1 3034
6	55 37.5 3006	43 7.1 3215	32 33.4 3252	23 18.1 3052	58 17.6 3040
9	57 7.6 3011	44 32.9 3209	33 58.6 3239	24 47.2 3052	56 48.2 3047
12	58 37.5 3016	45 58.9 3204	35 23.9 3227	26 16.3 3053	55 19.0 3053
15	60 7.4 3021	47 24.9 3200	36 49.6 3218	27 45.4 3054	53 49.9 3059
18	61 37.2 3025	48 51.1 3196	38 15.4 3209	29 14.5 3055	52 20.9 3066
21	63 6.9 3030	50 17.3 3194	39 41.3 3202	30 43.6 3057	50 52.1 3072
27 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Jupiter
0	64 36.4 3034	51 43.6 3191	41 7.4 3196	32 12.6 3059	49 23.4 3078
3	66 5.9 3038	53 9.9 3189	42 33.6 3192	33 41.6 3061	47 54.8 3085
6	67 35.4 3042	54 36.2 3188	43 59.9 3187	35 10.6 3063	46 26.3 3092
9	69 4.7 3046	56 2.6 3187	45 26.3 3184	36 39.5 3065	44 58.0 3099
12	70 34.0 3049	57 29.0 3185	46 52.8 3181	38 8.3 3068	43 29.8 3105
15	72 3.1 3053	58 55.5 3185	48 19.3 3178	39 37.1 3070	42 1.8 3112
18	73 32.3 3055	60 21.9 3184	49 45.9 3176	41 5.9 3072	40 33.9 3119
21	75 1.3 3059	61 48.4 3184	51 12.5 3174	42 34.6 3074	39 6.1 3127

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28 UT	+Antares	+Kaus Aust.	+Nunki	–Jupiter	–Hamal
0	76 30.3 3062	52 39.2 3172	44 3.3 3076	37 38.5 3135	71 25.3 3080
3	77 59.2 3064	54 5.9 3171	45 31.9 3078	36 11.1 3144	69 56.8 3083
6	79 28.1 3067	55 32.6 3170	47 0.6 3080	34 43.8 3153	68 28.3 3086
9	80 56.9 3069	56 59.3 3168	48 29.1 3081	33 16.7 3163	66 59.9 3089
12	82 25.7 3071	58 26.1 3167	49 57.7 3082	31 49.8 3173	65 31.5 3091
15	83 54.5 3073	59 52.9 3166	51 26.2 3084	30 23.2 3184	64 3.1 3094
18	85 23.2 3074	61 19.7 3165	52 54.6 3085	28 56.7 3198	62 34.9 3096
21	86 51.8 3076	62 46.6 3164	54 23.1 3086	27 30.5 3213	61 6.6 3098
29 UT	+Kaus Aust.	+Nunki	–Jupiter	–Hamal	–Aldebaran
0	64 13.4 3162	55 51.6 3086	26 4.7 3230	59 38.4 3099	92 26.2 3119
3	65 40.3 3161	57 20.0 3086	24 39.1 3250	58 10.3 3101	90 58.4 3120
6	67 7.2 3160	58 48.4 3086	23 13.9 3273	56 42.1 3102	89 30.7 3120
9	68 34.2 3158	60 16.8 3086	21 49.2 3302	55 14.0 3104	88 2.9 3121
12	70 1.2 3157	61 45.3 3086	20 25.1 3336	53 46.0 3104	86 35.2 3120
15	71 28.2 3155	63 13.7 3085	19 1.6 3379	52 17.9 3105	85 7.4 3120
18	72 55.2 3153	64 42.2 3084	17 39.0 3433	50 49.8 3105	83 39.7 3120
21	74 22.3 3151	66 10.6 3083	16 17.3 3504	49 21.8 3107	82 12.0 3119
30 UT	+Kaus Aust.	+Nunki	–Hamal	–Aldebaran	–Elnath
0	75 49.4 3148	67 39.1 3081	47 53.8 3106	80 44.2 3118	92 29.7 3081
3	77 16.6 3146	69 7.7 3080	46 25.8 3106	79 16.4 3117	91 1.1 3079
6	78 43.8 3143	70 36.2 3077	44 57.7 3106	77 48.6 3115	89 32.6 3077
9	80 11.1 3140	72 4.8 3075	43 29.7 3106	76 20.8 3113	88 4.0 3075
12	81 38.4 3136	73 33.5 3072	42 1.7 3105	74 52.9 3111	86 35.3 3072
15	83 5.9 3133	75 2.2 3069	40 33.6 3105	73 24.9 3109	85 6.6 3069
18	84 33.3 3129	76 31.0 3065	39 5.6 3105	71 57.0 3106	83 37.8 3066
21	86 0.9 3126	77 59.9 3062	37 37.5 3105	70 29.0 3104	82 8.9 3062
31 UT	+Nunki	–Hamal	–Aldebaran	–Capella	–Elnath
0	79 28.8 3057	36 9.5 3104	69 0.9 3100	79 8.2 3361	80 40.0 3058
3	80 57.8 3052	34 41.4 3104	67 32.7 3097	77 45.2 3360	79 11.0 3053
6	82 26.9 3048	33 13.3 3104	66 4.5 3094	76 22.1 3360	77 41.9 3049
9	83 56.2 3042	31 45.3 3104	64 36.2 3090	74 59.1 3359	76 12.7 3044
12	85 25.5 3036	30 17.2 3105	63 7.9 3085	73 36.1 3358	74 43.4 3038
15	86 54.9 3031	28 49.2 3107	61 39.4 3081	72 13.0 3358	73 14.0 3032
18	88 24.5 3024	27 21.1 3109	60 10.9 3076	70 49.9 3358	71 44.5 3026
21	89 54.2 3017	25 53.2 3113	58 42.3 3071	69 26.8 3357	70 14.8 3019