

JULY 2004

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Jupiter	+Spica	+Zubenelgen	+Antares	–Nunki
0	95 16.8 2039	54 37.5 2002	33 36.3 1992	8 50.3 2085	23 49.9 1996
3	97 9.4 2033	56 31.0 1996	35 30.0 1987	10 41.6 2052	21 56.2 1992
6	99 2.0 2029	58 24.7 1991	37 23.9 1982	12 33.9 2030	20 2.5 1988
9	100 54.9 2025	60 18.5 1987	39 18.0 1978	14 26.6 2015	18 8.6 1986
12	102 47.8 2022	62 12.4 1984	41 12.1 1975	16 19.8 2004	16 14.6 1985
15	104 40.8 2020	64 6.4 1981	43 6.3 1973	18 13.3 1996	14 20.7 1986
18	106 33.8 2018	66 0.4 1979	45 0.6 1971	20 6.9 1991	12 26.8 1989
21	108 26.9 2018	67 54.5 1978	46 54.9 1970	22 0.7 1987	10 32.9 1997
2 UT	+Jupiter	+Spica	+Zubenelgen	+Antares	–Fomalhaut
0	110 20.0 2018	69 48.7 1978	48 49.2 1970	23 54.6 1984	60 41.9 2218
3	112 13.0 2019	71 42.8 1979	50 43.6 1971	25 48.6 1983	58 53.9 2229
6	114 6.1 2022	73 36.9 1980	52 37.9 1973	27 42.6 1984	57 6.2 2242
9	115 59.1 2024	75 31.0 1982	54 32.2 1975	29 36.6 1984	55 18.8 2258
12	117 52.0 2028	77 25.0 1986	56 26.4 1978	31 30.5 1987	53 31.8 2275
15	119 44.9 2032	79 18.9 1989	58 20.5 1982	33 24.4 1990	51 45.2 2295
18	121 37.6 2037	81 12.8 1994	60 14.5 1987	35 18.3 1994	49 59.1 2318
21	123 30.2 2043	83 6.5 2000	62 8.4 1992	37 12.0 1999	48 13.6 2343
3 UT	+Spica	+Zubenelgen	+Antares	+Nunki	–Diphda
0	85 0.0 2006	64 2.2 1999	39 5.6 2005	6 42.8 2042	72 59.1 2233
3	86 53.4 2013	65 55.8 2006	40 59.0 2011	8 35.3 2033	71 11.5 2245
6	88 46.7 2021	67 49.2 2014	42 52.3 2019	10 28.0 2033	69 24.2 2259
9	90 39.7 2029	69 42.4 2022	44 45.3 2027	12 20.7 2036	67 37.2 2274
12	92 32.5 2038	71 35.4 2031	46 38.2 2036	14 13.3 2042	65 50.6 2291
15	94 25.1 2048	73 28.1 2041	48 30.8 2045	16 5.8 2049	64 4.4 2309
18	96 17.4 2059	75 20.6 2052	50 23.2 2055	17 58.1 2058	62 18.6 2329
21	98 9.4 2070	77 12.8 2063	52 15.4 2066	19 50.1 2068	60 33.3 2350
4 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Venus
0	54 7.2 2078	39 52.6 2238	29 19.5 2199	21 41.9 2080	125 1.9 2163
3	55 58.7 2090	41 40.1 2239	31 7.9 2199	23 33.4 2091	123 12.6 2174
6	57 50.0 2103	43 27.6 2242	32 56.4 2201	25 24.6 2103	121 23.5 2187
9	59 40.9 2116	45 15.0 2247	34 44.8 2205	27 15.5 2116	119 34.7 2201
12	61 31.4 2130	47 2.3 2253	36 33.1 2212	29 6.1 2130	117 46.3 2216
15	63 21.7 2144	48 49.4 2260	38 21.3 2219	30 56.3 2144	115 58.2 2230
18	65 11.5 2159	50 36.4 2269	40 9.3 2229	32 46.1 2159	114 10.5 2246
21	67 1.0 2175	52 23.1 2279	41 57.0 2239	34 35.6 2174	112 23.2 2262
5 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Venus
0	68 50.0 2190	54 9.6 2290	43 44.5 2251	36 24.7 2190	110 36.3 2279
3	70 38.7 2206	55 55.8 2302	45 31.6 2263	38 13.4 2205	108 49.8 2296
6	72 27.0 2223	57 41.7 2315	47 18.5 2276	40 1.7 2222	107 3.7 2314
9	74 14.9 2240	59 27.4 2328	49 5.1 2291	41 49.6 2239	105 18.1 2332
12	76 2.3 2257	61 12.6 2342	50 51.3 2305	43 37.1 2256	103 32.9 2350
15	77 49.4 2275	62 57.6 2357	52 37.2 2320	45 24.2 2274	101 48.1 2369
18	79 36.0 2292	64 42.2 2372	54 22.6 2336	47 10.8 2291	100 3.8 2389
21	81 22.1 2310	66 26.4 2388	56 7.8 2352	48 57.0 2309	98 20.0 2408

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6 UT	+Shaula	+Kaus Aust.	+Nunki	–Hamal	–Venus
0	68 10.2 2405	57 52.5 2368	50 42.7 2327	65 48.7 2408	96 36.6 2428
3	69 53.7 2421	59 36.8 2385	52 28.1 2345	64 5.3 2428	94 53.7 2447
6	71 36.8 2438	61 20.7 2403	54 12.9 2364	62 22.4 2450	93 11.3 2468
9	73 19.4 2456	63 4.2 2420	55 57.4 2383	60 40.0 2472	91 29.3 2488
12	75 1.7 2473	64 47.3 2437	57 41.3 2401	58 58.2 2493	89 47.8 2509
15	76 43.5 2490	66 30.0 2455	59 24.9 2420	57 16.8 2516	88 6.8 2529
18	78 25.0 2509	68 12.3 2473	61 8.0 2439	55 36.0 2539	86 26.3 2551
21	80 6.0 2526	69 54.1 2491	62 50.6 2457	53 55.6 2562	84 46.3 2571
7 UT	+Kaus Aust.	+Nunki	–Hamal	–Venus	–Sun
0	71 35.5 2509	64 32.8 2476	52 15.9 2585	83 6.7 2592	117 59.7 2810
3	73 16.5 2528	66 14.6 2495	50 36.6 2610	81 27.6 2613	116 25.5 2830
6	74 57.1 2545	67 55.9 2513	48 57.9 2634	79 49.0 2634	114 51.7 2849
9	76 37.2 2564	69 36.8 2532	47 19.8 2660	78 10.9 2654	113 18.3 2870
12	78 17.0 2582	71 17.3 2551	45 42.3 2686	76 33.2 2676	111 45.3 2889
15	79 56.3 2600	72 57.3 2569	44 5.3 2713	74 56.0 2696	110 12.8 2908
18	81 35.2 2617	74 36.9 2587	42 28.9 2740	73 19.3 2717	108 40.7 2927
21	83 13.7 2635	76 16.1 2605	40 53.1 2769	71 43.0 2738	107 8.9 2947
8 UT	+Kaus Aust.	+Nunki	–Hamal	–Venus	–Sun
0	84 51.8 2653	77 54.9 2623	39 18.0 2799	70 7.2 2758	105 37.6 2966
3	86 29.5 2671	79 33.3 2641	37 43.5 2830	68 31.8 2779	104 6.7 2985
6	88 6.8 2688	81 11.3 2658	36 9.7 2862	66 56.9 2799	102 36.2 3003
9	89 43.8 2705	82 48.9 2675	34 36.6 2897	65 22.4 2819	101 6.0 3022
12	91 20.3 2722	84 26.1 2692	33 4.2 2934	63 48.4 2839	99 36.3 3040
15	92 56.5 2739	86 2.9 2709	31 32.6 2974	62 14.8 2859	98 6.9 3058
18	94 32.3 2755	87 39.4 2725	30 1.9 3017	60 41.6 2879	96 37.9 3075
21	96 7.7 2771	89 15.5 2740	28 32.0 3065	59 8.8 2898	95 9.3 3092
9 UT	+Kaus Aust.	+Nunki	+Fomalhaut	–Venus	–Sun
0	97 42.8 2787	90 51.3 2757	42 53.1 3161	57 36.5 2918	93 41.0 3110
3	99 17.5 2803	92 26.7 2772	44 20.0 3154	56 4.6 2937	92 13.0 3126
6	100 51.9 2818	94 1.7 2787	45 47.1 3149	54 33.1 2956	90 45.4 3143
9	102 26.0 2833	95 36.5 2801	47 14.3 3145	53 1.9 2974	89 18.1 3158
12	103 59.7 2848	97 10.9 2816	48 41.5 3144	51 31.2 2994	87 51.1 3175
15	105 33.1 2863	98 45.0 2830	50 8.8 3143	50 0.9 3013	86 24.5 3190
18	107 6.2 2877	100 18.8 2843	51 36.0 3143	48 30.9 3031	84 58.1 3204
21	108 39.0 2891	101 52.3 2857	53 3.3 3145	47 1.4 3050	83 32.1 3219
10 UT	+Al na'ir	+Fomalhaut	+Diphda	–Venus	–Sun
0	72 40.9 3460	54 30.6 3147	30 5.1 3826	45 32.2 3068	82 6.3 3233
3	74 2.0 3463	55 57.8 3149	31 19.7 3757	44 3.4 3087	80 40.8 3247
6	75 23.1 3467	57 24.9 3152	32 35.4 3697	42 35.0 3106	79 15.6 3261
9	76 44.1 3472	58 52.0 3156	33 52.3 3648	41 7.0 3124	77 50.7 3273
12	78 5.0 3476	60 19.1 3159	35 10.0 3604	39 39.3 3143	76 26.0 3286
15	79 25.8 3482	61 46.0 3164	36 28.5 3567	38 12.0 3163	75 1.5 3298
18	80 46.5 3488	63 12.9 3168	37 47.6 3535	36 45.1 3182	73 37.3 3310
21	82 7.2 3494	64 39.7 3172	39 7.4 3507	35 18.7 3202	72 13.3 3321

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11 UT	+Fomalhaut	+Markab	+Diphda	–Venus	–Sun
0	66 6.4 3177	47 52.9 3644	40 27.7 3483	33 52.6 3223	70 49.5 3331
3	67 33.0 3181	49 10.7 3623	41 48.4 3462	32 26.9 3246	69 25.9 3343
6	68 59.5 3186	50 28.8 3604	43 9.5 3444	31 1.6 3268	68 2.6 3352
9	70 25.9 3191	51 47.3 3586	44 30.9 3428	29 36.8 3293	66 39.4 3362
12	71 52.2 3195	53 6.1 3571	45 52.6 3414	28 12.5 3319	65 16.4 3371
15	73 18.5 3200	54 25.2 3557	47 14.6 3402	26 48.7 3348	63 53.6 3380
18	74 44.6 3204	55 44.6 3545	48 36.9 3391	25 25.4 3380	62 30.9 3388
21	76 10.7 3209	57 4.1 3534	49 59.3 3381	24 2.8 3415	61 8.4 3397
12 UT	+Fomalhaut	+Markab	+Diphda	–Venus	–Sun
0	77 36.6 3213	58 23.9 3524	51 21.9 3373	22 40.8 3456	59 46.1 3404
3	79 2.5 3217	59 43.8 3515	52 44.7 3365	21 19.6 3503	58 23.9 3412
6	80 28.3 3222	61 4.0 3507	54 7.6 3359	19 59.3 3559	57 1.9 3419
9	81 54.0 3225	62 24.2 3499	55 30.7 3353	18 40.0 3625	55 40.0 3425
12	83 19.7 3229	63 44.6 3492	56 53.9 3347	17 21.9 3707	54 18.2 3432
15	84 45.3 3234	65 5.2 3487	58 17.1 3343	16 5.2 3811	52 56.5 3438
18	86 10.7 3237	66 25.8 3481	59 40.5 3338	14 50.4 3943	51 35.0 3443
21	87 36.1 3240	67 46.5 3476	61 3.9 3334	13 37.8 4117	50 13.5 3449
13 UT	+Fomalhaut	+Markab	+Diphda	+Hamal	–Sun
0	89 1.5 3244	69 7.4 3471	62 27.5 3330	25 29.7 3426	48 52.2 3454
3	90 26.8 3247	70 28.3 3467	63 51.1 3326	26 51.4 3394	47 30.9 3459
6	91 52.0 3251	71 49.3 3463	65 14.8 3323	28 13.8 3367	46 9.7 3464
9	93 17.1 3253	73 10.4 3459	66 38.5 3320	29 36.7 3343	44 48.7 3467
12	94 42.2 3257	74 31.5 3456	68 2.3 3317	31 0.1 3322	43 27.7 3472
15	96 7.2 3260	75 52.8 3453	69 26.1 3315	32 23.8 3305	42 6.8 3476
18	97 32.2 3263	77 14.0 3449	70 50.0 3312	33 47.9 3289	40 45.9 3479
21	98 57.1 3266	78 35.4 3447	72 14.0 3309	35 12.3 3275	39 25.1 3484
14 UT	+Diphda	+Hamal	+Menkar	+Venus	–Sun
0	73 38.0 3307	36 37.0 3262	33 10.9 3466	7 40.9 8916	38 4.4 3486
3	75 2.0 3304	38 1.9 3251	34 31.9 3439	8 4.0 6980	36 43.8 3491
6	76 26.1 3302	39 27.0 3241	35 53.4 3414	8 40.1 5871	35 23.2 3494
9	77 50.3 3300	40 52.4 3232	37 15.4 3393	9 26.6 5172	34 2.7 3498
12	79 14.5 3297	42 17.9 3223	38 37.8 3373	10 21.3 4708	32 42.3 3502
15	80 38.7 3295	43 43.6 3215	40 0.6 3355	11 22.2 4388	31 21.9 3505
18	82 3.0 3293	45 9.4 3208	41 23.7 3339	12 27.7 4159	30 1.6 3510
21	83 27.3 3291	46 35.4 3200	42 47.2 3323	13 36.8 3992	28 41.4 3515
15 UT	+Hamal	+Menkar	+Aldebaran	+Venus	–Sun
0	48 1.5 3193	44 10.9 3309	18 19.0 3523	14 48.6 3865	27 21.3 3521
3	49 27.8 3187	45 34.9 3296	19 39.0 3461	16 2.5 3769	26 1.3 3528
6	50 54.2 3180	46 59.2 3284	21 0.1 3410	17 18.1 3693	24 41.4 3535
9	52 20.7 3174	48 23.6 3273	22 22.2 3369	18 35.0 3633	23 21.7 3545
12	53 47.4 3169	49 48.3 3263	23 45.0 3334	19 52.9 3584	22 2.1 3556
15	55 14.2 3162	51 13.3 3252	25 8.6 3303	21 11.8 3543	20 42.7 3569
18	56 41.0 3157	52 38.4 3243	26 32.7 3278	22 31.4 3509	19 23.6 3587
21	58 8.1 3151	54 3.7 3233	27 57.3 3256	23 51.6 3481	18 4.8 3609

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18 UT	+Sun	–Jupiter	–Denebola	–Gienah	–Spica
0	7 39.7 4308	44 35.3 3062	50 1.4 3076	71 19.7 3201	82 34.3 2996
3	8 46.4 4041	43 6.4 3056	48 32.8 3075	69 53.6 3200	81 4.0 2991
6	9 57.4 3866	41 37.3 3052	47 4.1 3074	68 27.4 3199	79 33.6 2985
9	11 11.3 3743	40 8.2 3047	45 35.4 3073	67 1.2 3198	78 3.1 2979
12	12 27.3 3655	38 39.0 3041	44 6.7 3072	65 35.1 3197	76 32.4 2973
15	13 44.9 3589	37 9.6 3037	42 38.0 3073	64 8.9 3198	75 1.7 2968
18	15 3.6 3537	35 40.2 3032	41 9.3 3074	62 42.7 3198	73 30.8 2962
21	16 23.4 3495	34 10.6 3026	39 40.7 3076	61 16.5 3199	71 59.8 2956
19 UT	+Sun	–Jupiter	–Denebola	–Spica	–Zubenelgen
0	17 43.8 3461	32 41.0 3021	38 12.0 3078	70 28.7 2949	91 24.4 2942
3	19 5.0 3432	31 11.2 3016	36 43.4 3082	68 57.4 2943	89 53.0 2935
6	20 26.6 3408	29 41.4 3012	35 14.9 3087	67 26.0 2936	88 21.4 2929
9	21 48.7 3386	28 11.4 3007	33 46.5 3093	65 54.5 2930	86 49.7 2922
12	23 11.3 3367	26 41.3 3003	32 18.2 3102	64 22.8 2923	85 17.9 2915
15	24 34.2 3348	25 11.2 2999	30 50.1 3112	62 51.0 2916	83 45.9 2908
18	25 57.4 3332	23 41.0 2995	29 22.2 3125	61 19.0 2909	82 13.8 2900
21	27 21.0 3317	22 10.6 2992	27 54.5 3142	59 46.9 2902	80 41.5 2893
20 UT	+Sun	–Jupiter	–Spica	–Zubenelgen	–Antares
0	28 44.8 3303	20 40.3 2991	58 14.6 2895	79 9.0 2886	104 7.1 2887
3	30 9.0 3289	19 9.9 2990	56 42.2 2887	77 36.4 2878	102 34.5 2880
6	31 33.4 3276	17 39.5 2991	55 9.6 2880	76 3.6 2870	101 1.8 2872
9	32 58.0 3263	16 9.1 2996	53 36.9 2873	74 30.7 2863	99 28.9 2864
12	34 22.9 3251	14 38.8 3004	52 4.0 2864	72 57.6 2854	97 55.8 2856
15	35 48.1 3238	13 8.7 3019	50 30.9 2857	71 24.3 2846	96 22.6 2848
18	37 13.5 3226	11 38.8 3043	48 57.7 2849	69 50.9 2838	94 49.2 2839
21	38 39.1 3214	10 9.5 3086	47 24.3 2841	68 17.2 2829	93 15.5 2831
21 UT	+Sun	–Spica	–Zubenelgen	–Antares	–Shaula
0	40 4.9 3203	45 50.8 2833	66 43.4 2821	91 41.8 2822	106 43.6 2893
3	41 31.0 3191	44 17.0 2825	65 9.4 2812	90 7.8 2813	105 11.2 2883
6	42 57.3 3179	42 43.1 2817	63 35.2 2802	88 33.6 2804	103 38.5 2873
9	44 23.9 3168	41 9.0 2809	62 0.8 2793	86 59.2 2795	102 5.6 2863
12	45 50.7 3157	39 34.8 2800	60 26.2 2784	85 24.7 2785	100 32.5 2853
15	47 17.7 3145	38 0.3 2792	58 51.4 2775	83 49.9 2776	98 59.2 2843
18	48 44.9 3132	36 25.7 2784	57 16.4 2765	82 14.9 2766	97 25.7 2832
21	50 12.4 3121	34 50.9 2776	55 41.1 2755	80 39.7 2756	95 51.9 2822
22 UT	+Sun	+Jupiter	–Spica	–Zubenelgen	–Antares
0	51 40.2 3109	5 1.8 3390	33 15.9 2767	54 5.7 2745	79 4.3 2746
3	53 8.1 3097	6 24.3 3150	31 40.7 2759	52 30.0 2735	77 28.7 2736
6	54 36.3 3085	7 51.4 3021	30 5.4 2751	50 54.2 2724	75 52.8 2725
9	56 4.8 3072	9 21.2 2943	28 29.9 2744	49 18.0 2714	74 16.7 2715
12	57 33.5 3060	10 52.6 2889	26 54.2 2736	47 41.7 2703	72 40.4 2704
15	59 2.5 3048	12 25.1 2849	25 18.3 2730	46 5.1 2692	71 3.9 2693
18	60 31.7 3035	13 58.5 2819	23 42.4 2725	44 28.3 2681	69 27.0 2682
21	62 1.2 3023	15 32.6 2792	22 6.3 2720	42 51.2 2670	67 50.0 2671

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23 UT	+Sun	+Jupiter	–Spica	–Zubenelgen	–Antares
0	63 30.9 3009	17 7.2 2770	20 30.0 2717	41 13.9 2658	66 12.7 2659
3	65 0.9 2996	18 42.3 2750	18 53.8 2716	39 36.3 2647	64 35.1 2648
6	66 31.2 2983	20 17.8 2732	17 17.5 2719	37 58.4 2635	62 57.3 2636
9	68 1.8 2969	21 53.8 2715	15 41.2 2726	36 20.3 2623	61 19.2 2624
12	69 32.6 2957	23 30.1 2698	14 5.2 2741	34 42.0 2612	59 40.9 2612
15	71 3.7 2942	25 6.8 2682	12 29.4 2768	33 3.3 2599	58 2.2 2600
18	72 35.1 2929	26 43.9 2667	10 54.2 2816	31 24.4 2587	56 23.3 2588
21	74 6.8 2915	28 21.2 2652	9 20.1 2901	29 45.2 2575	54 44.1 2575
24 UT	+Sun	+Denebola	–Antares	–Shaula	–Kaus Aust.
0	75 38.8 2901	27 17.6 2794	53 4.7 2563	68 42.2 2637	78 38.0 2591
3	77 11.1 2887	28 52.2 2757	51 24.9 2550	67 4.2 2626	76 58.8 2578
6	78 43.7 2873	30 27.6 2724	49 44.8 2537	65 25.9 2616	75 19.4 2566
9	80 16.6 2859	32 3.7 2694	48 4.5 2524	63 47.3 2605	73 39.7 2553
12	81 49.7 2844	33 40.5 2665	46 23.8 2511	62 8.5 2594	71 59.8 2540
15	83 23.2 2830	35 18.0 2640	44 42.9 2498	60 29.5 2584	70 19.5 2528
18	84 57.1 2815	36 56.0 2615	43 1.6 2485	58 50.2 2574	68 38.9 2515
21	86 31.2 2800	38 34.5 2592	41 20.0 2471	57 10.7 2563	66 58.1 2502
25 UT	+Sun	+Spica	–Antares	–Kaus Aust.	–Nunki
0	88 5.6 2785	7 5.5 2850	39 38.2 2458	65 16.9 2490	72 2.1 2453
3	89 40.4 2771	8 38.9 2706	37 56.0 2445	63 35.5 2477	70 19.8 2440
6	91 15.5 2756	10 15.4 2616	36 13.4 2431	61 53.7 2465	68 37.2 2426
9	92 50.9 2741	11 53.9 2555	34 30.6 2418	60 11.7 2452	66 54.2 2412
12	94 26.7 2727	13 33.9 2509	32 47.5 2405	58 29.3 2440	65 10.9 2398
15	96 2.7 2712	15 14.9 2473	31 4.1 2392	56 46.7 2428	63 27.3 2384
18	97 39.1 2697	16 56.7 2443	29 20.3 2379	55 3.8 2416	61 43.4 2371
21	99 15.8 2683	18 39.3 2417	27 36.2 2367	53 20.6 2404	59 59.1 2357
26 UT	+Sun	+Spica	–Antares	–Kaus Aust.	–Nunki
0	100 52.9 2668	20 22.4 2394	25 51.9 2355	51 37.2 2393	58 14.5 2343
3	102 30.3 2653	22 6.1 2373	24 7.2 2342	49 53.4 2382	56 29.6 2329
6	104 8.0 2639	23 50.3 2354	22 22.3 2331	48 9.4 2371	54 44.3 2316
9	105 46.0 2624	25 35.0 2335	20 37.1 2320	46 25.2 2361	52 58.7 2302
12	107 24.3 2611	27 20.2 2318	18 51.6 2311	44 40.7 2352	51 12.8 2289
15	109 3.0 2597	29 5.7 2301	17 5.9 2303	42 55.9 2343	49 26.6 2276
18	110 42.0 2583	30 51.6 2285	15 20.0 2297	41 11.0 2334	47 40.0 2263
21	112 21.3 2569	32 38.0 2270	13 33.9 2295	39 25.8 2327	45 53.1 2250
27 UT	+Denebola	+Spica	+Zubenelgen	–Kaus Aust.	–Nunki
0	67 39.3 2293	34 24.7 2256	13 21.8 2248	37 40.5 2321	44 5.9 2237
3	69 25.5 2279	36 11.7 2241	15 9.0 2232	35 55.1 2316	42 18.4 2225
6	71 12.0 2266	37 59.2 2227	16 56.7 2218	34 9.5 2313	40 30.5 2212
9	72 58.8 2253	39 46.9 2214	18 44.7 2205	32 23.8 2312	38 42.4 2201
12	74 45.9 2240	41 35.0 2201	20 33.0 2192	30 38.1 2313	36 54.0 2189
15	76 33.4 2228	43 23.4 2189	22 21.6 2180	28 52.5 2317	35 5.2 2178
18	78 21.1 2216	45 12.2 2177	24 10.6 2168	27 6.9 2324	33 16.2 2167
21	80 9.2 2204	47 1.2 2165	25 59.8 2156	25 21.5 2337	31 27.0 2156

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28 UT	+Spica	+Zubenelgen	+Antares	–Nunki	–Fomalhaut
0	48 50.5 2154	27 49.4 2146	3 22.2 2632	29 37.4 2146	80 40.8 2335
3	50 40.1 2143	29 39.2 2135	5 0.4 2362	27 47.6 2137	78 55.6 2327
6	52 30.0 2133	31 29.3 2125	6 44.9 2255	25 57.6 2128	77 10.3 2320
9	54 20.1 2123	33 19.6 2116	8 32.0 2199	24 7.3 2119	75 24.8 2314
12	56 10.5 2114	35 10.2 2107	10 20.4 2165	22 16.8 2111	73 39.2 2310
15	58 1.1 2105	37 1.0 2098	12 9.8 2140	20 26.1 2104	71 53.4 2305
18	59 51.9 2097	38 52.0 2091	13 59.7 2123	18 35.2 2098	70 7.6 2303
21	61 43.0 2090	40 43.2 2083	15 50.1 2108	16 44.2 2092	68 21.7 2301
29 UT	+Spica	+Zubenelgen	+Antares	–Fomalhaut	–Diphda
0	63 34.2 2083	42 34.6 2076	17 40.9 2097	66 35.7 2301	93 22.9 2291
3	65 25.6 2076	44 26.2 2070	19 32.0 2087	64 49.8 2301	91 36.6 2284
6	67 17.2 2070	46 17.9 2064	21 23.3 2078	63 3.8 2304	89 50.3 2279
9	69 8.9 2065	48 9.8 2059	23 14.8 2071	61 17.9 2307	88 3.8 2274
12	71 0.8 2060	50 1.9 2054	25 6.5 2064	59 32.1 2313	86 17.2 2270
15	72 52.8 2056	51 54.0 2050	26 58.4 2059	57 46.5 2320	84 30.5 2268
18	74 44.9 2053	53 46.3 2047	28 50.4 2055	56 1.0 2329	82 43.7 2266
21	76 37.1 2050	55 38.6 2044	30 42.6 2051	54 15.7 2340	80 56.9 2266
30 UT	+Spica	+Zubenelgen	+Antares	–Fomalhaut	–Diphda
0	78 29.3 2048	57 31.0 2042	32 34.8 2049	52 30.7 2353	79 10.1 2267
3	80 21.6 2047	59 23.5 2041	34 27.1 2046	50 46.0 2369	77 23.3 2269
6	82 14.0 2046	61 16.0 2040	36 19.4 2045	49 1.7 2388	75 36.6 2273
9	84 6.4 2046	63 8.5 2040	38 11.8 2045	47 17.8 2410	73 49.9 2277
12	85 58.7 2047	65 1.0 2041	40 4.2 2045	45 34.5 2435	72 3.4 2283
15	87 51.1 2048	66 53.5 2042	41 56.6 2046	43 51.7 2464	70 17.0 2290
18	89 43.4 2050	68 46.0 2044	43 49.0 2048	42 9.7 2498	68 30.7 2298
21	91 35.6 2053	70 38.4 2047	45 41.3 2050	40 28.4 2537	66 44.7 2309
31 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Diphda
0	47 33.5 2053	33 36.4 2266	23 0.5 2242	15 8.4 2060	64 59.0 2320
3	49 25.7 2057	35 23.2 2251	24 47.9 2221	17 0.3 2063	63 13.5 2334
6	51 17.8 2062	37 10.4 2240	26 35.8 2205	18 52.3 2066	61 28.3 2349
9	53 9.7 2067	38 57.8 2231	28 24.1 2194	20 44.1 2070	59 43.5 2365
12	55 1.5 2073	40 45.5 2225	30 12.7 2186	22 35.9 2075	57 59.1 2384
15	56 53.2 2080	42 33.3 2221	32 1.5 2182	24 27.5 2082	56 15.2 2405
18	58 44.7 2087	44 21.3 2219	33 50.4 2179	26 18.9 2088	54 31.7 2428
21	60 36.0 2095	46 9.2 2219	35 39.4 2179	28 10.2 2096	52 48.8 2454