

MAY 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Saturn	+Antares	+Sabik	–Markab	–Sun
0	73 20.6 2250	42 33.0 2326	33 14.7 2306	62 10.9 2466	109 12.2 2570
3	75 7.8 2260	44 18.3 2333	35 0.6 2313	60 28.9 2484	107 32.6 2581
6	76 54.8 2272	46 3.5 2342	36 46.2 2322	58 47.3 2503	105 53.3 2594
9	78 41.5 2283	47 48.5 2350	38 31.7 2330	57 6.2 2523	104 14.2 2606
12	80 27.8 2294	49 33.2 2358	40 16.9 2339	55 25.5 2545	102 35.5 2618
15	82 14.0 2306	51 17.8 2368	42 2.0 2350	53 45.3 2568	100 57.0 2630
18	83 59.8 2317	53 2.1 2377	43 46.7 2359	52 5.7 2591	99 18.8 2642
21	85 45.4 2329	54 46.2 2387	45 31.3 2369	50 26.6 2616	97 40.8 2656
2 UT	+Antares	+Sabik	+Nunki	–Markab	–Sun
0	56 30.1 2397	47 15.6 2379	24 38.5 2585	48 48.0 2643	96 3.2 2668
3	58 13.7 2408	48 59.7 2390	26 17.7 2570	47 10.1 2671	94 25.8 2681
6	59 57.1 2418	50 43.5 2401	27 57.3 2560	45 32.8 2701	92 48.7 2693
9	61 40.3 2429	52 27.0 2412	29 37.1 2554	43 56.1 2734	91 11.9 2706
12	63 23.2 2440	54 10.3 2423	31 17.1 2551	42 20.3 2770	89 35.4 2719
15	65 5.8 2450	55 53.3 2434	32 57.1 2549	40 45.1 2808	87 59.2 2731
18	66 48.2 2461	57 36.1 2445	34 37.2 2550	39 10.9 2849	86 23.2 2744
21	68 30.3 2472	59 18.6 2456	36 17.2 2552	37 37.5 2896	84 47.5 2757
3 UT	+Antares	+Sabik	+Nunki	–Markab	–Sun
0	70 12.1 2483	61 0.8 2467	37 57.2 2556	36 5.1 2947	83 12.1 2770
3	71 53.7 2494	62 42.8 2478	39 37.1 2560	34 33.8 3003	81 37.0 2782
6	73 35.1 2505	64 24.5 2490	41 17.0 2565	33 3.6 3066	80 2.1 2794
9	75 16.2 2517	66 5.9 2501	42 56.7 2571	31 34.8 3138	78 27.6 2807
12	76 57.0 2527	67 47.1 2512	44 36.2 2578	30 7.4 3220	76 53.3 2819
15	78 37.6 2539	69 28.1 2523	46 15.7 2585	28 41.6 3314	75 19.2 2831
18	80 17.9 2549	71 8.7 2534	47 54.9 2592	27 17.7 3422	73 45.5 2843
21	81 57.9 2561	72 49.2 2545	49 34.0 2600	25 55.9 3550	72 11.9 2856
4 UT	+Antares	+Sabik	+Kaus Aust.	+Nunki	–Sun
0	83 37.7 2572	74 29.3 2556	59 47.6 2742	51 12.9 2608	70 38.7 2868
3	85 17.3 2582	76 9.2 2567	61 23.4 2747	52 51.6 2616	69 5.7 2879
6	86 56.6 2593	77 48.9 2578	62 59.0 2752	54 30.2 2624	67 33.0 2891
9	88 35.7 2604	79 28.3 2589	64 34.5 2758	56 8.5 2633	66 0.5 2903
12	90 14.5 2615	81 7.5 2599	66 9.8 2764	57 46.7 2641	64 28.2 2915
15	91 53.1 2625	82 46.4 2609	67 45.1 2771	59 24.7 2650	62 56.2 2926
18	93 31.4 2636	84 25.1 2620	69 20.2 2777	61 2.4 2659	61 24.5 2937
21	95 9.5 2647	86 3.6 2630	70 55.1 2785	62 40.0 2668	59 53.0 2949
5 UT	+Antares	+Shaula	+Kaus Aust.	+Nunki	–Sun
0	96 47.3 2657	83 0.8 2824	72 29.9 2792	64 17.4 2677	58 21.7 2960
3	98 24.9 2668	84 34.8 2833	74 4.5 2799	65 54.6 2685	56 50.6 2970
6	100 2.3 2678	86 8.5 2842	75 39.0 2807	67 31.5 2695	55 19.8 2981
9	101 39.5 2688	87 42.0 2851	77 13.3 2814	69 8.3 2703	53 49.2 2992
12	103 16.4 2698	89 15.4 2862	78 47.4 2823	70 44.9 2713	52 18.8 3003
15	104 53.1 2708	90 48.5 2871	80 21.4 2831	72 21.3 2721	50 48.7 3013
18	106 29.6 2718	92 21.4 2881	81 55.2 2839	73 57.4 2730	49 18.8 3023
21	108 5.8 2729	93 54.1 2892	83 28.8 2848	75 33.4 2739	47 49.0 3034

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6 UT	+Kaus Aust.	+Nunki	+Altair	+Enif	–Sun
0	85 2.2 2857	77 9.2 2748	59 55.2 3248	32 9.6 3450	46 19.5 3044
3	86 35.4 2865	78 44.8 2757	61 20.4 3240	33 30.9 3399	44 50.2 3054
6	88 8.5 2874	80 20.2 2765	62 45.7 3234	34 53.2 3355	43 21.1 3063
9	89 41.3 2883	81 55.4 2774	64 11.2 3230	36 16.3 3318	41 52.2 3074
12	91 14.0 2892	83 30.4 2783	65 36.7 3226	37 40.1 3285	40 23.5 3083
15	92 46.5 2902	85 5.3 2792	67 2.3 3224	39 4.6 3259	38 55.1 3093
18	94 18.7 2911	86 39.9 2800	68 28.0 3222	40 29.6 3235	37 26.8 3101
21	95 50.8 2920	88 14.4 2809	69 53.7 3222	41 55.1 3215	35 58.6 3111
7 UT	+Kaus Aust.	+Nunki	+Altair	+Enif	–Sun
0	97 22.7 2930	89 48.6 2817	71 19.4 3222	43 20.9 3198	34 30.7 3121
3	98 54.3 2940	91 22.7 2826	72 45.1 3223	44 47.1 3184	33 3.0 3130
6	100 25.8 2950	92 56.6 2834	74 10.8 3225	46 13.5 3172	31 35.4 3139
9	101 57.0 2960	94 30.3 2843	75 36.5 3226	47 40.2 3161	30 8.1 3147
12	103 28.1 2970	96 3.8 2851	77 2.1 3230	49 7.2 3153	28 40.9 3157
15	104 58.9 2981	97 37.2 2860	78 27.7 3233	50 34.2 3146	27 13.9 3165
18	106 29.5 2992	99 10.4 2868	79 53.2 3237	52 1.5 3141	25 47.1 3175
21	107 59.9 3002	100 43.3 2876	81 18.6 3241	53 28.8 3136	24 20.4 3182
8 UT	+Altair	+Enif	+Fomalhaut	+Markab	–Sun
0	82 43.9 3247	54 56.2 3133	54 42.3 3579	35 1.7 3327	22 53.9 3192
3	84 9.1 3252	56 23.7 3130	56 1.2 3560	36 25.4 3300	21 27.6 3200
6	85 34.2 3258	57 51.2 3128	57 20.5 3543	37 49.6 3277	20 1.5 3208
9	86 59.2 3265	59 18.8 3127	58 40.1 3529	39 14.2 3258	18 35.5 3217
12	88 24.1 3272	60 46.4 3127	59 60.0 3516	40 39.2 3242	17 9.7 3225
15	89 48.8 3279	62 14.0 3128	61 20.1 3504	42 4.5 3228	15 44.0 3233
18	91 13.4 3287	63 41.6 3128	62 40.4 3494	43 30.1 3216	14 18.5 3241
21	92 37.8 3296	65 9.2 3130	64 0.9 3486	44 55.9 3206	12 53.2 3250
11 UT	+Sun	–Pollux	–Procyon	–Alphard	–Regulus
0	10 55.9 3368	52 35.1 3150	55 46.8 3128	85 55.9 3205	88 42.4 3026
3	12 18.8 3375	51 8.0 3162	54 19.2 3138	84 29.8 3211	87 12.7 3031
6	13 41.5 3379	49 41.1 3173	52 51.8 3148	83 3.9 3217	85 43.1 3036
9	15 4.2 3385	48 14.4 3187	51 24.6 3159	81 38.1 3224	84 13.7 3042
12	16 26.7 3390	46 48.0 3200	49 57.7 3170	80 12.4 3231	82 44.3 3047
15	17 49.2 3396	45 21.9 3213	48 30.9 3181	78 46.9 3238	81 15.1 3052
18	19 11.6 3400	43 56.0 3229	47 4.4 3194	77 21.5 3245	79 46.0 3057
21	20 33.8 3405	42 30.4 3244	45 38.2 3206	75 56.3 3252	78 16.9 3061
12 UT	+Sun	–Pollux	–Procyon	–Alphard	–Regulus
0	21 56.0 3410	41 5.1 3261	44 12.1 3220	74 31.1 3259	76 48.0 3066
3	23 18.1 3414	39 40.2 3279	42 46.4 3234	73 6.2 3267	75 19.1 3070
6	24 40.1 3417	38 15.6 3298	41 20.9 3249	71 41.3 3274	73 50.4 3074
9	26 2.0 3422	36 51.4 3320	39 55.7 3265	70 16.6 3282	72 21.7 3078
12	27 23.9 3426	35 27.6 3343	38 30.9 3282	68 52.1 3290	70 53.1 3082
15	28 45.6 3429	34 4.2 3369	37 6.3 3302	67 27.7 3298	69 24.6 3085
18	30 7.4 3432	32 41.4 3398	35 42.2 3323	66 3.5 3307	67 56.1 3089
21	31 29.0 3435	31 19.0 3430	34 18.4 3346	64 39.5 3315	66 27.8 3092

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13 UT	+Sun	–Procyon	–Alphard	–Regulus	–Denebola
0	32 50.6 3437	32 55.1 3371	63 15.6 3324	64 59.5 3095	87 29.1 3254
3	34 12.2 3439	31 32.3 3400	61 51.9 3333	63 31.2 3097	86 4.0 3257
6	35 33.7 3441	30 10.1 3432	60 28.3 3343	62 3.0 3100	84 39.0 3260
9	36 55.2 3444	28 48.4 3469	59 5.0 3353	60 34.9 3103	83 14.0 3263
12	38 16.7 3444	27 27.4 3511	57 41.8 3363	59 6.8 3104	81 49.1 3265
15	39 38.1 3446	26 7.3 3561	56 18.9 3375	57 38.7 3107	80 24.2 3268
18	40 59.5 3447	24 48.0 3619	54 56.1 3386	56 10.7 3108	78 59.4 3270
21	42 20.9 3446	23 29.8 3688	53 33.6 3399	54 42.7 3110	77 34.7 3273
14 UT	+Sun	–Alphard	–Regulus	–Denebola	–Spica
0	43 42.3 3447	52 11.3 3412	53 14.8 3111	76 10.0 3275	106 54.3 3078
3	45 3.7 3446	50 49.3 3426	51 46.8 3112	74 45.3 3278	105 25.7 3078
6	46 25.1 3446	49 27.5 3441	50 18.9 3113	73 20.7 3280	103 57.1 3077
9	47 46.5 3444	48 6.0 3457	48 51.1 3113	71 56.1 3282	102 28.5 3076
12	49 7.9 3443	46 44.8 3475	47 23.2 3114	70 31.6 3285	100 59.8 3075
15	50 29.4 3441	45 23.9 3494	45 55.3 3115	69 7.1 3288	99 31.2 3073
18	51 50.9 3439	44 3.4 3515	44 27.5 3115	67 42.7 3290	98 2.5 3071
21	53 12.4 3436	42 43.3 3538	42 59.6 3115	66 18.3 3293	96 33.7 3068
15 UT	+Sun	–Regulus	–Denebola	–Gienah	–Spica
0	54 34.0 3433	41 31.8 3115	64 54.0 3295	81 15.1 3154	95 4.9 3066
3	55 55.6 3429	40 3.9 3115	63 29.7 3298	79 48.0 3152	93 36.1 3062
6	57 17.3 3425	38 36.1 3114	62 5.5 3301	78 20.9 3149	92 7.2 3058
9	58 39.1 3422	37 8.2 3115	60 41.3 3304	76 53.8 3146	90 38.2 3055
12	60 1.0 3416	35 40.3 3114	59 17.2 3308	75 26.5 3143	89 9.1 3050
15	61 22.9 3411	34 12.5 3115	57 53.2 3311	73 59.3 3139	87 39.9 3045
18	62 45.0 3405	32 44.6 3115	56 29.2 3315	72 31.9 3136	86 10.7 3040
21	64 7.2 3399	31 16.8 3116	55 5.3 3320	71 4.5 3131	84 41.3 3034
16 UT	+Sun	+Pollux	–Regulus	–Spica	–Saturn
0	65 29.5 3392	13 49.8 5369	29 49.0 3118	83 11.8 3028	96 25.6 3012
3	66 51.9 3386	14 42.1 4925	28 21.2 3121	81 42.2 3022	94 55.7 3005
6	68 14.4 3378	15 40.0 4586	26 53.5 3124	80 12.4 3015	93 25.6 2998
9	69 37.1 3370	16 42.6 4323	25 25.8 3130	78 42.5 3008	91 55.3 2991
12	70 59.9 3361	17 49.1 4115	23 58.3 3137	77 12.5 3000	90 24.9 2983
15	72 22.9 3353	18 58.9 3947	22 30.8 3148	75 42.3 2992	88 54.4 2975
18	73 46.1 3343	20 11.4 3810	21 3.7 3162	74 11.9 2983	87 23.7 2966
21	75 9.4 3333	21 26.2 3696	19 36.8 3182	72 41.4 2974	85 52.8 2958
17 UT	+Sun	+Procyon	–Gienah	–Spica	–Saturn
0	76 33.0 3323	19 40.0 3761	57 53.5 3087	71 10.6 2964	84 21.7 2948
3	77 56.7 3312	20 55.7 3648	56 25.1 3082	69 39.7 2954	82 50.4 2938
6	79 20.7 3301	22 13.4 3553	54 56.6 3076	68 8.5 2944	81 18.9 2928
9	80 44.8 3289	23 32.8 3471	53 27.9 3071	66 37.1 2933	79 47.2 2917
12	82 9.2 3277	24 53.7 3402	51 59.2 3065	65 5.5 2922	78 15.2 2906
15	83 33.9 3264	26 16.0 3341	50 30.3 3060	63 33.7 2910	76 43.1 2895
18	84 58.7 3251	27 39.4 3286	49 1.4 3055	62 1.6 2898	75 10.7 2883
21	86 23.9 3238	29 3.8 3238	47 32.3 3051	60 29.3 2886	73 38.0 2871

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18 UT	+Sun	+Pollux	+Procyon	–Spica	–Saturn
0	87 49.3 3224	33 45.1 3163	30 29.2 3195	58 56.7 2873	72 5.1 2859
3	89 14.9 3209	35 12.0 3127	31 55.5 3154	57 23.8 2859	70 31.9 2845
6	90 40.9 3194	36 39.6 3095	33 22.5 3118	55 50.6 2846	68 58.4 2832
9	92 7.2 3179	38 7.8 3064	34 50.3 3083	54 17.2 2832	67 24.7 2818
12	93 33.7 3164	39 36.7 3035	36 18.8 3050	52 43.4 2818	65 50.6 2804
15	95 0.6 3148	41 6.2 3007	37 48.0 3020	51 9.3 2803	64 16.2 2790
18	96 27.8 3131	42 36.2 2980	39 17.8 2990	49 34.9 2788	62 41.6 2775
21	97 55.3 3115	44 6.8 2954	40 48.2 2963	48 0.2 2772	61 6.6 2760
19 UT	+Sun	+Pollux	+Procyon	–Spica	–Saturn
0	99 23.1 3098	45 38.0 2929	42 19.2 2935	46 25.1 2756	59 31.3 2745
3	100 51.3 3080	47 9.7 2904	43 50.7 2909	44 49.7 2740	57 55.6 2729
6	102 19.9 3063	48 41.9 2879	45 22.8 2884	43 14.0 2724	56 19.6 2713
9	103 48.8 3045	50 14.7 2856	46 55.5 2859	41 37.8 2707	54 43.2 2698
12	105 18.1 3026	51 47.9 2832	48 28.7 2834	40 1.4 2690	53 6.5 2681
15	106 47.7 3007	53 21.7 2809	50 2.4 2810	38 24.5 2673	51 29.4 2665
18	108 17.8 2989	54 55.9 2787	51 36.6 2787	36 47.2 2656	49 52.0 2648
21	109 48.2 2970	56 30.7 2763	53 11.3 2764	35 9.6 2638	48 14.2 2631
20 UT	+Sun	+Procyon	–Spica	–Saturn	–Antares
0	111 19.1 2950	54 46.6 2741	33 31.5 2620	46 36.0 2614	79 7.9 2650
3	112 50.3 2931	56 22.3 2719	31 53.1 2602	44 57.4 2598	77 30.1 2633
6	114 22.0 2911	57 58.6 2696	30 14.2 2583	43 18.5 2580	75 51.9 2614
9	115 54.0 2892	59 35.3 2674	28 34.9 2565	41 39.1 2564	74 13.4 2597
12	117 26.5 2872	61 12.6 2652	26 55.2 2546	39 59.4 2546	72 34.4 2579
15	118 59.4 2851	62 50.3 2630	25 15.1 2528	38 19.2 2529	70 55.0 2561
18	120 32.8 2831	64 28.5 2609	23 34.5 2509	36 38.7 2513	69 15.2 2543
21	122 6.5 2812	66 7.2 2587	21 53.5 2491	34 57.8 2497	67 35.0 2525
21 UT	+Procyon	+Regulus	–Spica	–Saturn	–Antares
0	67 46.4 2566	34 4.4 2536	20 12.1 2472	33 16.5 2480	65 54.4 2507
3	69 26.1 2545	35 44.8 2512	18 30.2 2453	31 34.8 2465	64 13.3 2489
6	71 6.2 2525	37 25.7 2489	16 47.9 2434	29 52.8 2450	62 31.9 2472
9	72 46.9 2504	39 7.2 2466	15 5.1 2415	28 10.4 2435	60 50.0 2454
12	74 28.0 2485	40 49.2 2445	13 21.9 2397	26 27.7 2423	59 7.7 2438
15	76 9.6 2464	42 31.7 2423	11 38.3 2378	24 44.7 2410	57 25.0 2420
18	77 51.6 2445	44 14.7 2401	9 54.2 2360	23 1.3 2400	55 42.0 2403
21	79 34.1 2426	45 58.3 2381	8 9.7 2342	21 17.8 2393	53 58.5 2388
22 UT	+Procyon	+Regulus	–Antares	–Sabik	–Nunki
0	81 17.0 2407	47 42.3 2361	52 14.6 2372	61 10.9 2341	84 47.9 2365
3	83 0.4 2388	49 26.8 2341	50 30.4 2356	59 25.9 2323	83 3.5 2347
6	84 44.3 2370	51 11.8 2322	48 45.7 2341	57 40.5 2307	81 18.6 2330
9	86 28.6 2353	52 57.2 2303	47 0.8 2327	55 54.7 2290	79 33.4 2313
12	88 13.3 2336	54 43.1 2285	45 15.4 2314	54 8.5 2274	77 47.7 2297
15	89 58.4 2319	56 29.5 2266	43 29.8 2301	52 21.9 2258	76 1.6 2280
18	91 43.9 2302	58 16.3 2249	41 43.8 2289	50 34.9 2243	74 15.2 2264
21	93 29.8 2287	60 3.5 2232	39 57.6 2279	48 47.5 2228	72 28.3 2250

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23 UT	+Regulus	+Spica	−Antares	−Sabik	−Nunki
0	61 51.2 2215	7 50.4 2189	38 11.1 2269	46 59.7 2214	70 41.1 2235
3	63 39.3 2199	9 39.1 2174	36 24.3 2261	45 11.6 2201	68 53.5 2221
6	65 27.8 2184	11 28.2 2159	34 37.4 2255	43 23.2 2188	67 5.6 2208
9	67 16.6 2169	13 17.7 2145	32 50.3 2250	41 34.5 2175	65 17.3 2195
12	69 5.8 2155	15 7.6 2131	31 3.1 2249	39 45.4 2164	63 28.7 2182
15	70 55.4 2141	16 57.7 2118	29 15.9 2250	37 56.1 2154	61 39.9 2171
18	72 45.4 2128	18 48.3 2105	27 28.7 2255	36 6.4 2145	59 50.7 2161
21	74 35.6 2115	20 39.1 2093	25 41.6 2264	34 16.6 2136	58 1.2 2150
24 UT	+Regulus	+Gienah	+Spica	+Saturn	−Nunki
0	76 26.2 2103	38 0.2 2307	22 30.3 2082	10 25.7 2298	56 11.6 2142
3	78 17.1 2092	39 46.0 2279	24 21.7 2071	12 11.8 2226	54 21.6 2134
6	80 8.3 2082	41 32.4 2255	26 13.4 2061	13 59.6 2176	52 31.5 2127
9	81 59.7 2072	43 19.5 2232	28 5.4 2051	15 48.6 2138	50 41.2 2120
12	83 51.4 2063	45 7.2 2211	29 57.7 2042	17 38.6 2110	48 50.8 2116
15	85 43.3 2055	46 55.4 2194	31 50.1 2034	19 29.4 2087	47 0.2 2113
18	87 35.5 2047	48 44.0 2177	33 42.8 2026	21 20.7 2068	45 9.6 2110
21	89 27.8 2040	50 33.0 2162	35 35.7 2020	23 12.4 2054	43 18.8 2109
25 UT	+Gienah	+Spica	+Saturn	+Zubenelgen	−Nunki
0	52 22.4 2149	37 28.7 2013	25 4.6 2040	16 7.1 2015	41 28.1 2110
3	54 12.1 2137	39 21.9 2008	26 57.1 2030	18 0.3 2010	39 37.4 2113
6	56 2.1 2127	41 15.3 2004	28 49.9 2021	19 53.6 2005	37 46.7 2118
9	57 52.4 2118	43 8.7 1999	30 42.9 2013	21 47.0 2000	35 56.2 2124
12	59 42.9 2111	45 2.3 1997	32 36.2 2007	23 40.6 1998	34 5.9 2134
15	61 33.6 2104	46 56.0 1994	34 29.5 2002	25 34.2 1995	32 15.8 2147
18	63 24.5 2099	48 49.7 1993	36 23.1 1999	27 27.9 1994	30 26.0 2164
21	65 15.5 2095	50 43.4 1992	38 16.7 1995	29 21.6 1992	28 36.6 2185
26 UT	+Spica	+Saturn	+Zubenelgen	+Antares	−Enif
0	52 37.2 1992	40 10.3 1994	31 15.4 1993	9 41.1 3138	75 41.5 2202
3	54 31.0 1992	42 4.0 1993	33 9.1 1993	11 8.5 2808	73 53.1 2206
6	56 24.7 1994	43 57.8 1994	35 2.9 1994	12 42.8 2601	72 4.8 2212
9	58 18.4 1996	45 51.5 1995	36 56.6 1997	14 21.7 2464	70 16.7 2220
12	60 12.1 1999	47 45.2 1996	38 50.2 1999	16 3.7 2370	68 28.7 2228
15	62 5.7 2003	49 38.8 2000	40 43.8 2003	17 48.0 2305	66 41.0 2239
18	63 59.2 2007	51 32.4 2003	42 37.3 2007	19 33.9 2258	64 53.5 2251
21	65 52.5 2012	53 25.9 2008	44 30.7 2012	21 20.9 2224	63 6.3 2264
27 UT	+Spica	+Saturn	+Zubenelgen	+Antares	−Markab
0	67 45.8 2018	55 19.3 2013	46 23.9 2018	23 8.7 2200	81 18.4 2177
3	69 38.9 2024	57 12.5 2019	48 17.0 2024	24 57.2 2182	79 29.4 2185
6	71 31.8 2031	59 5.5 2025	50 9.9 2031	26 46.1 2169	77 40.6 2194
9	73 24.6 2039	60 58.4 2033	52 2.7 2039	28 35.3 2162	75 52.0 2205
12	75 17.1 2047	62 51.2 2040	53 55.2 2047	30 24.7 2157	74 3.6 2216
15	77 9.4 2056	64 43.7 2049	55 47.5 2056	32 14.2 2155	72 15.6 2228
18	79 1.5 2066	66 35.9 2058	57 39.6 2066	34 3.8 2155	70 27.8 2242
21	80 53.4 2076	68 28.0 2068	59 31.5 2076	35 53.4 2158	68 40.4 2257

MAY 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
28 UT	+Spica	+Saturn	+Antares	+Sabik	–Markab
0	82 45.0 2086	70 19.8 2078	37 42.9 2162	28 23.8 2141	66 53.4 2272
3	84 36.3 2097	72 11.3 2089	39 32.3 2167	30 13.7 2146	65 6.7 2289
6	86 27.4 2109	74 2.6 2100	41 21.6 2173	32 3.5 2153	63 20.5 2307
9	88 18.1 2121	75 53.5 2112	43 10.7 2181	33 53.1 2161	61 34.7 2326
12	90 8.6 2133	77 44.2 2125	44 59.6 2190	35 42.6 2170	59 49.3 2346
15	91 58.7 2146	79 34.5 2137	46 48.3 2199	37 31.8 2180	58 4.5 2368
18	93 48.5 2159	81 24.6 2150	48 36.8 2210	39 20.7 2191	56 20.1 2391
21	95 38.0 2173	83 14.3 2164	50 25.0 2221	41 9.4 2202	54 36.3 2415
29 UT	+Saturn	+Antares	+Sabik	–Markab	–Sun
0	85 3.6 2178	52 12.9 2232	42 57.8 2214	52 53.1 2441	126 17.6 2486
3	86 52.6 2192	54 0.5 2244	44 45.9 2226	51 10.5 2468	124 36.1 2501
6	88 41.3 2207	55 47.9 2257	46 33.7 2240	49 28.6 2498	122 54.9 2517
9	90 29.5 2221	57 34.9 2270	48 21.1 2253	47 47.3 2529	121 14.1 2532
12	92 17.5 2236	59 21.6 2284	50 8.3 2267	46 6.7 2562	119 33.6 2548
15	94 5.0 2252	61 8.0 2298	51 55.1 2281	44 27.0 2599	117 53.5 2565
18	95 52.2 2267	62 54.0 2312	53 41.5 2295	42 48.0 2637	116 13.8 2581
21	97 39.0 2282	64 39.7 2326	55 27.6 2310	41 10.0 2679	114 34.5 2597
30 UT	+Antares	+Sabik	+Nunki	–Alpheratz	–Sun
0	66 25.0 2341	57 13.3 2325	34 14.2 2432	59 40.0 2805	112 55.5 2614
3	68 10.0 2356	58 58.7 2340	35 57.0 2437	58 5.6 2840	111 16.9 2631
6	69 54.6 2371	60 43.7 2355	37 39.7 2444	56 32.1 2878	109 38.7 2649
9	71 38.9 2386	62 28.3 2371	39 22.2 2452	54 59.3 2917	108 0.9 2665
12	73 22.8 2402	64 12.6 2386	41 4.6 2462	53 27.3 2959	106 23.5 2683
15	75 6.3 2418	65 56.5 2402	42 46.6 2472	51 56.3 3004	104 46.4 2700
18	76 49.4 2433	67 40.0 2418	44 28.5 2483	50 26.2 3052	103 9.8 2717
21	78 32.2 2449	69 23.2 2433	46 10.1 2495	48 57.0 3103	101 33.5 2734
31 UT	+Antares	+Sabik	+Kaus Aust.	+Nunki	–Sun
0	80 14.6 2465	71 5.9 2449	56 32.3 2650	47 51.4 2507	99 57.6 2751
3	81 56.7 2480	72 48.3 2465	58 10.1 2658	49 32.5 2519	98 22.1 2769
6	83 38.3 2496	74 30.4 2480	59 47.7 2666	51 13.3 2532	96 47.0 2786
9	85 19.6 2511	76 12.0 2496	61 25.1 2676	52 53.7 2544	95 12.2 2803
12	87 0.6 2527	77 53.4 2511	63 2.3 2686	54 33.9 2558	93 37.8 2820
15	88 41.2 2543	79 34.3 2527	64 39.3 2696	56 13.8 2571	92 3.8 2836
18	90 21.4 2558	81 14.9 2542	66 16.0 2707	57 53.4 2584	90 30.1 2853
21	92 1.3 2573	82 55.1 2557	67 52.5 2718	59 32.6 2598	88 56.8 2870