

JULY 2007

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Spica	+Zubenelgen	+Antares	+Jupiter	–Mars
0	79 50.7 2663	58 50.4 2684	33 56.4 2662	32 18.4 2701	110 19.0 2932
3	81 28.2 2653	60 27.4 2673	35 33.9 2652	33 55.0 2685	108 47.3 2921
6	83 5.9 2643	62 4.7 2662	37 11.6 2642	35 32.0 2670	107 15.5 2910
9	84 43.8 2634	63 42.1 2652	38 49.6 2632	37 9.3 2656	105 43.4 2900
12	86 22.0 2624	65 19.9 2642	40 27.7 2623	38 47.0 2642	104 11.1 2889
15	88 0.3 2614	66 57.8 2631	42 6.1 2613	40 24.9 2629	102 38.5 2879
18	89 38.9 2604	68 36.0 2622	43 44.8 2603	42 3.2 2617	101 5.8 2868
21	91 17.7 2595	70 14.4 2612	45 23.6 2594	43 41.7 2605	99 32.8 2858
2 UT	+Antares	+Jupiter	+Shaula	+Nunki	–Mars
0	47 2.6 2585	45 20.5 2594	33 33.8 2754	14 30.0 2590	97 59.6 2848
3	48 41.9 2575	46 59.5 2582	35 9.3 2732	16 9.1 2579	96 26.2 2838
6	50 21.4 2566	48 38.9 2571	36 45.2 2711	17 48.5 2570	94 52.6 2829
9	52 1.0 2558	50 18.4 2561	38 21.6 2692	19 28.1 2561	93 18.7 2820
12	53 40.9 2548	51 58.2 2550	39 58.5 2674	21 7.9 2551	91 44.7 2810
15	55 21.0 2540	53 38.3 2541	41 35.7 2657	22 48.0 2542	90 10.5 2801
18	57 1.3 2531	55 18.5 2531	43 13.3 2642	24 28.2 2533	88 36.0 2792
21	58 41.8 2523	56 59.0 2521	44 51.3 2627	26 8.6 2524	87 1.4 2783
3 UT	+Antares	+Jupiter	+Kaus Aust.	+Nunki	–Mars
0	60 22.5 2515	58 39.8 2512	35 55.0 2594	27 49.3 2516	85 26.6 2774
3	62 3.3 2506	60 20.7 2503	37 34.1 2580	29 30.1 2508	83 51.5 2766
6	63 44.4 2498	62 1.8 2495	39 13.5 2566	31 11.1 2500	82 16.3 2758
9	65 25.6 2491	63 43.2 2486	40 53.1 2554	32 52.4 2492	80 41.0 2750
12	67 7.1 2483	65 24.7 2478	42 33.1 2542	34 33.8 2484	79 5.4 2742
15	68 48.7 2475	67 6.4 2470	44 13.3 2531	36 15.3 2476	77 29.7 2734
18	70 30.5 2468	68 48.3 2461	45 53.8 2521	37 57.1 2469	75 53.8 2726
21	72 12.4 2460	70 30.5 2454	47 34.5 2510	39 39.0 2461	74 17.7 2719
4 UT	+Antares	+Jupiter	+Kaus Aust.	+Nunki	–Mars
0	73 54.6 2453	72 12.7 2447	49 15.5 2501	41 21.2 2454	72 41.5 2712
3	75 36.9 2446	73 55.2 2439	50 56.7 2492	43 3.5 2447	71 5.1 2705
6	77 19.3 2439	75 37.8 2432	52 38.1 2483	44 45.9 2440	69 28.5 2698
9	79 2.0 2432	77 20.7 2425	54 19.7 2474	46 28.5 2433	67 51.9 2692
12	80 44.8 2426	79 3.6 2418	56 1.5 2466	48 11.3 2426	66 15.0 2685
15	82 27.7 2419	80 46.8 2411	57 43.5 2457	49 54.2 2420	64 38.0 2679
18	84 10.8 2413	82 30.1 2405	59 25.8 2450	51 37.3 2413	63 0.9 2673
21	85 54.1 2407	84 13.5 2399	61 8.1 2442	53 20.6 2407	61 23.6 2667
5 UT	+Jupiter	+Nunki	–Mars	–Hamal	–Sun
0	85 57.1 2392	55 4.0 2401	59 46.3 2662	60 46.7 2427	125 7.9 2729
3	87 40.8 2386	56 47.6 2395	58 8.8 2657	59 3.8 2422	123 31.9 2722
6	89 24.7 2381	58 31.3 2388	56 31.1 2651	57 20.7 2417	121 55.7 2715
9	91 8.8 2374	60 15.1 2383	54 53.4 2646	55 37.6 2413	120 19.4 2708
12	92 52.9 2369	61 59.1 2377	53 15.5 2642	53 54.3 2408	118 42.9 2701
15	94 37.2 2364	63 43.2 2371	51 37.6 2638	52 11.0 2404	117 6.3 2694
18	96 21.7 2358	65 27.5 2366	49 59.5 2634	50 27.5 2400	115 29.5 2688
21	98 6.2 2353	67 11.9 2360	48 21.4 2630	48 43.9 2397	113 52.6 2682

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6 UT	+Jupiter	+Nunki	–Mars	–Hamal	–Sun
0	99 50.9 2348	68 56.4 2355	46 43.2 2627	47 0.3 2394	112 15.5 2676
3	101 35.7 2344	70 41.0 2349	45 4.9 2624	45 16.6 2391	110 38.3 2670
6	103 20.7 2339	72 25.8 2344	43 26.5 2621	43 32.8 2388	109 1.0 2663
9	105 5.7 2334	74 10.7 2339	41 48.1 2619	41 49.0 2387	107 23.5 2658
12	106 50.8 2330	75 55.8 2334	40 9.6 2618	40 5.1 2385	105 45.9 2653
15	108 36.1 2326	77 40.9 2329	38 31.1 2617	38 21.1 2385	104 8.2 2647
18	110 21.4 2321	79 26.2 2324	36 52.6 2617	36 37.2 2384	102 30.4 2642
21	112 6.9 2317	81 11.6 2320	35 14.1 2618	34 53.3 2385	100 52.4 2636
7 UT	+Kaus Aust.	+Nunki	–Hamal	–Mars	–Sun
0	90 32.4 2342	82 57.1 2315	33 9.3 2387	33 35.6 2620	99 14.3 2631
3	92 17.4 2339	84 42.7 2311	31 25.5 2391	31 57.1 2624	97 36.1 2627
6	94 2.4 2334	86 28.4 2306	29 41.7 2395	30 18.8 2628	95 57.8 2622
9	95 47.6 2330	88 14.2 2302	27 58.0 2402	28 40.5 2635	94 19.4 2617
12	97 32.8 2326	90 0.1 2298	26 14.5 2411	27 2.4 2643	92 40.9 2612
15	99 18.2 2322	91 46.2 2294	24 31.2 2424	25 24.4 2655	91 2.3 2608
18	101 3.6 2319	93 32.3 2290	22 48.2 2441	23 46.8 2671	89 23.5 2604
21	102 49.1 2316	95 18.5 2287	21 5.6 2463	22 9.5 2691	87 44.7 2600
8 UT	+Nunki	+Fomalhaut	+Enif	–Mars	–Sun
0	97 4.8 2283	50 46.6 2774	49 36.1 2903	20 32.6 2718	86 5.8 2596
3	98 51.2 2279	52 21.6 2748	51 8.4 2869	18 56.4 2754	84 26.8 2592
6	100 37.7 2276	53 57.2 2724	52 41.3 2839	17 20.9 2803	82 47.7 2589
9	102 24.2 2273	55 33.3 2702	54 14.9 2811	15 46.5 2871	81 8.6 2585
12	104 10.9 2270	57 9.9 2682	55 49.2 2786	14 13.6 2966	79 29.3 2582
15	105 57.6 2267	58 47.0 2664	57 23.9 2763	12 42.7 3107	77 50.0 2579
18	107 44.4 2264	60 24.4 2647	58 59.2 2742	11 14.7 3320	76 10.6 2576
21	109 31.2 2262	62 2.3 2632	60 34.9 2722	9 50.9 3660	74 31.2 2574
9 UT	+Fomalhaut	+Enif	+Markab	+Diphda	–Sun
0	63 40.4 2619	62 11.1 2705	41 52.5 2765	39 18.5 3240	72 51.7 2571
3	65 18.9 2606	63 47.6 2690	43 27.8 2731	40 43.8 3169	71 12.1 2569
6	66 57.7 2596	65 24.5 2676	45 3.7 2700	42 10.6 3106	69 32.5 2567
9	68 36.7 2585	67 1.7 2663	46 40.4 2672	43 38.6 3050	67 52.9 2565
12	70 15.9 2577	68 39.2 2651	48 17.7 2648	45 7.8 3001	66 13.2 2564
15	71 55.3 2569	70 16.9 2641	49 55.5 2627	46 38.0 2957	64 33.4 2563
18	73 35.0 2562	71 54.9 2632	51 33.8 2608	48 9.1 2917	62 53.7 2562
21	75 14.7 2556	73 33.1 2625	53 12.5 2591	49 41.0 2882	61 13.9 2562
10 UT	+Fomalhaut	+Markab	+Hamal	+Mars	–Sun
0	76 54.6 2551	54 51.6 2575	11 20.2 2768	9 26.7 3388	59 34.1 2561
3	78 34.7 2547	56 31.1 2562	12 55.3 2644	10 49.2 3140	57 54.4 2562
6	80 14.8 2544	58 10.9 2549	14 33.2 2559	12 16.6 2979	56 14.6 2562
9	81 55.0 2542	59 51.0 2539	16 13.1 2498	13 47.2 2869	54 34.8 2563
12	83 35.2 2540	61 31.3 2529	17 54.3 2455	15 20.2 2791	52 55.0 2564
15	85 15.5 2539	63 11.8 2521	19 36.6 2422	16 54.8 2734	51 15.3 2565
18	86 55.8 2539	64 52.5 2515	21 19.7 2398	18 30.7 2693	49 35.6 2567
21	88 36.1 2540	66 33.4 2509	23 3.3 2379	20 7.5 2661	47 55.9 2570

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11 UT	+Markab	+Diphda	+Hamal	+Mars	–Sun
0	68 14.4 2504	63 54.7 2695	24 47.3 2364	21 45.1 2636	46 16.3 2572
3	69 55.5 2500	65 31.4 2684	26 31.8 2353	23 23.2 2617	44 36.8 2576
6	71 36.7 2498	67 8.4 2676	28 16.5 2345	25 1.7 2604	42 57.3 2579
9	73 17.9 2496	68 45.6 2668	30 1.3 2338	26 40.5 2591	41 18.0 2583
12	74 59.2 2495	70 23.0 2663	31 46.4 2334	28 19.6 2584	39 38.7 2588
15	76 40.5 2495	72 0.5 2657	33 31.5 2331	29 58.9 2577	37 59.5 2593
18	78 21.9 2496	73 38.1 2654	35 16.8 2329	31 38.3 2573	36 20.4 2600
21	80 3.2 2498	75 15.8 2652	37 2.0 2328	33 17.8 2570	34 41.5 2606
12 UT	+Diphda	+Alpheratz	+Hamal	+Mars	–Sun
0	76 53.5 2651	62 48.1 2720	38 47.3 2329	34 57.4 2569	33 2.7 2613
3	78 31.2 2651	64 24.3 2712	40 32.6 2330	36 37.0 2568	31 24.1 2622
6	80 9.0 2653	66 0.7 2705	42 17.8 2332	38 16.7 2569	29 45.7 2631
9	81 46.7 2655	67 37.3 2700	44 3.0 2335	39 56.3 2571	28 7.5 2641
12	83 24.4 2658	69 13.9 2697	45 48.2 2338	41 35.8 2573	26 29.6 2653
15	85 2.0 2663	70 50.6 2694	47 33.2 2342	43 15.4 2577	24 51.8 2666
18	86 39.4 2668	72 27.4 2693	49 18.2 2348	44 54.8 2581	23 14.4 2681
21	88 16.8 2674	74 4.2 2693	51 3.0 2352	46 34.1 2586	21 37.3 2698
13 UT	+Alpheratz	+Hamal	+Menkar	+Mars	–Sun
0	75 41.0 2695	52 47.7 2358	49 12.7 2680	48 13.3 2591	20 0.6 2718
3	77 17.8 2697	54 32.3 2364	50 49.8 2670	49 52.4 2597	18 24.4 2742
6	78 54.5 2701	56 16.7 2371	52 27.2 2663	51 31.4 2604	16 48.7 2772
9	80 31.1 2706	58 0.9 2378	54 4.6 2657	53 10.2 2611	15 13.6 2809
12	82 7.7 2712	59 45.0 2386	55 42.3 2654	54 48.9 2619	13 39.3 2859
15	83 44.1 2718	61 28.9 2395	57 19.9 2652	56 27.4 2627	12 6.2 2926
18	85 20.3 2725	63 12.6 2403	58 57.7 2651	58 5.6 2636	10 34.4 3025
21	86 56.4 2734	64 56.1 2412	60 35.4 2651	59 43.7 2645	9 4.7 3179
15 UT	+Sun	–Venus	–Denebola	–Gienah	–Spica
0	7 5.5 3371	31 57.7 2644	53 26.1 2683	73 49.5 2588	85 36.6 2490
3	8 28.3 3209	30 19.8 2657	51 49.1 2704	72 10.3 2602	83 55.2 2502
6	9 54.3 3118	28 42.2 2671	50 12.5 2728	70 31.4 2617	82 14.0 2515
9	11 22.1 3063	27 4.9 2685	48 36.5 2752	68 52.9 2632	80 33.2 2528
12	12 51.0 3031	25 27.9 2700	47 0.9 2777	67 14.7 2647	78 52.6 2541
15	14 20.5 3013	23 51.2 2716	45 26.0 2804	65 36.9 2664	77 12.3 2554
18	15 50.4 3003	22 14.9 2732	43 51.6 2834	63 59.4 2680	75 32.4 2568
21	17 20.6 3000	20 39.0 2750	42 17.9 2865	62 22.3 2697	73 52.7 2581
16 UT	+Sun	–Venus	–Gienah	–Spica	–Jupiter
0	18 50.8 3001	19 3.4 2769	60 45.6 2715	72 13.4 2595	118 46.8 2599
3	20 21.0 3004	17 28.3 2790	59 9.3 2732	70 34.4 2609	117 7.8 2612
6	21 51.1 3010	15 53.6 2814	57 33.3 2751	68 55.7 2623	115 29.2 2625
9	23 21.1 3018	14 19.5 2841	55 57.8 2770	67 17.3 2636	113 50.9 2638
12	24 50.9 3027	12 45.9 2874	54 22.7 2790	65 39.2 2650	112 12.8 2652
15	26 20.6 3037	11 13.0 2918	52 48.0 2809	64 1.4 2664	110 35.1 2665
18	27 50.0 3048	9 41.1 2978	51 13.8 2830	62 24.0 2678	108 57.7 2679
21	29 19.2 3060	8 10.4 3072	49 40.0 2852	60 46.8 2693	107 20.6 2692

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17 UT	+Sun	–Spica	–Zubenelgen	–Antares	–Jupiter
0	30 48.2 3071	59 10.0 2706	80 19.7 2721	105 3.5 2704	105 43.7 2706
3	32 17.0 3084	57 33.5 2720	78 43.5 2736	103 26.9 2718	104 7.2 2720
6	33 45.4 3096	55 57.3 2734	77 7.7 2750	101 50.7 2732	102 31.0 2733
9	35 13.7 3109	54 21.4 2748	75 32.1 2764	100 14.7 2746	100 55.1 2747
12	36 41.6 3122	52 45.8 2762	73 56.9 2778	98 39.1 2759	99 19.5 2760
15	38 9.3 3135	51 10.5 2776	72 21.9 2792	97 3.7 2773	97 44.1 2774
18	39 36.8 3148	49 35.6 2789	70 47.3 2805	95 28.7 2786	96 9.1 2787
21	41 4.0 3161	48 0.9 2803	69 13.0 2819	93 53.9 2800	94 34.4 2800
18 UT	+Sun	+Venus	–Spica	–Antares	–Jupiter
0	42 30.9 3174	6 35.8 3196	46 26.5 2816	92 19.4 2813	92 59.9 2814
3	43 57.5 3187	8 2.0 3125	44 52.4 2828	90 45.3 2825	91 25.8 2826
6	45 23.9 3200	9 29.7 3088	43 18.5 2842	89 11.4 2839	89 51.9 2840
9	46 50.1 3213	10 58.1 3069	41 45.0 2855	87 37.7 2851	88 18.3 2852
12	48 15.9 3226	12 26.9 3060	40 11.7 2868	86 4.4 2863	86 44.9 2865
15	49 41.6 3238	13 55.8 3056	38 38.7 2880	84 31.3 2875	85 11.9 2877
18	51 7.0 3250	15 24.9 3055	37 6.0 2892	82 58.5 2887	83 39.1 2888
21	52 32.1 3262	16 53.9 3058	35 33.5 2904	81 25.9 2899	82 6.5 2900
19 UT	+Sun	+Venus	–Spica	–Antares	–Jupiter
0	53 57.1 3274	18 23.0 3062	34 1.3 2916	79 53.5 2910	80 34.2 2912
3	55 21.8 3285	19 51.9 3066	32 29.4 2927	78 21.5 2920	79 2.2 2923
6	56 46.2 3296	21 20.7 3073	30 57.6 2939	76 49.6 2932	77 30.4 2934
9	58 10.5 3307	22 49.4 3078	29 26.1 2950	75 18.0 2942	75 58.8 2945
12	59 34.5 3317	24 18.0 3085	27 54.9 2961	73 46.5 2952	74 27.4 2955
15	60 58.4 3328	25 46.5 3091	26 23.9 2972	72 15.3 2962	72 56.3 2966
18	62 22.0 3337	27 14.8 3097	24 53.1 2982	70 44.3 2971	71 25.4 2975
21	63 45.5 3347	28 43.0 3103	23 22.5 2992	69 13.5 2980	69 54.7 2985
20 UT	+Sun	+Venus	–Spica	–Antares	–Jupiter
0	65 8.8 3356	30 11.1 3110	21 52.1 3003	67 42.9 2989	68 24.2 2994
3	66 31.9 3364	31 39.0 3115	20 22.0 3012	66 12.5 2996	66 53.8 3003
6	67 54.8 3373	33 6.9 3120	18 52.0 3024	64 42.2 3004	65 23.7 3012
9	69 17.6 3380	34 34.6 3126	17 22.3 3035	63 12.1 3012	63 53.7 3020
12	70 40.2 3388	36 2.3 3131	15 52.9 3046	61 42.1 3019	62 23.9 3027
15	72 2.7 3394	37 29.8 3135	14 23.6 3059	60 12.3 3025	60 54.3 3035
18	73 25.1 3401	38 57.2 3139	12 54.6 3074	58 42.6 3031	59 24.8 3042
21	74 47.4 3407	40 24.6 3143	11 25.9 3092	57 13.0 3037	57 55.5 3049
21 UT	+Sun	+Venus	–Antares	–Jupiter	–Shaula
0	76 9.5 3412	41 51.9 3146	55 43.6 3042	56 26.3 3055	70 30.0 3101
3	77 31.5 3417	43 19.1 3149	54 14.3 3047	54 57.2 3061	69 1.8 3106
6	78 53.5 3421	44 46.2 3152	52 45.0 3051	53 28.3 3067	67 33.8 3112
9	80 15.4 3425	46 13.3 3154	51 15.9 3054	51 59.4 3072	66 5.9 3117
12	81 37.1 3429	47 40.4 3155	49 46.8 3058	50 30.7 3077	64 38.1 3122
15	82 58.9 3432	49 7.4 3156	48 17.8 3061	49 2.1 3081	63 10.4 3126
18	84 20.5 3434	50 34.5 3157	46 48.8 3063	47 33.5 3086	61 42.7 3131
21	85 42.2 3436	52 1.5 3157	45 19.9 3065	46 5.1 3090	60 15.2 3135

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22 UT	+Sun	+Venus	–Antares	–Jupiter	–Shaula
0	87 3.7 3437	53 28.4 3156	43 51.1 3066	44 36.8 3094	58 47.8 3138
3	88 25.3 3439	54 55.5 3156	42 22.2 3067	43 8.5 3097	57 20.4 3141
6	89 46.8 3439	56 22.5 3155	40 53.4 3068	41 40.3 3101	55 53.1 3144
9	91 8.4 3438	57 49.5 3153	39 24.6 3068	40 12.1 3104	54 25.8 3147
12	92 29.9 3438	59 16.6 3151	37 55.8 3067	38 44.1 3107	52 58.6 3150
15	93 51.5 3437	60 43.7 3149	36 27.0 3066	37 16.1 3111	51 31.5 3152
18	95 13.0 3435	62 10.9 3145	34 58.1 3065	35 48.1 3114	50 4.4 3155
21	96 34.7 3433	63 38.1 3141	33 29.3 3063	34 20.3 3117	48 37.3 3157
23 UT	+Sun	+Venus	+Spica	–Antares	–Jupiter
0	97 56.3 3430	65 5.5 3137	14 0.4 3089	32 0.4 3060	32 52.5 3121
3	99 18.0 3427	66 32.9 3133	15 28.8 3081	30 31.4 3058	31 24.7 3125
6	100 39.8 3423	68 0.3 3127	16 57.3 3073	29 2.4 3054	29 57.1 3129
9	102 1.6 3419	69 27.9 3122	18 26.0 3067	27 33.3 3050	28 29.5 3135
12	103 23.5 3414	70 55.6 3116	19 54.8 3060	26 4.1 3046	27 2.1 3142
15	104 45.5 3409	72 23.5 3110	21 23.8 3053	24 34.9 3041	25 34.8 3150
18	106 7.6 3403	73 51.4 3103	22 52.9 3046	23 5.5 3036	24 7.6 3161
21	107 29.8 3397	75 19.5 3096	24 22.1 3039	21 36.1 3031	22 40.7 3174
24 UT	+Sun	+Venus	+Spica	–Jupiter	–Nunki
0	108 52.1 3390	76 47.7 3088	25 51.5 3032	21 14.1 3192	52 40.1 3023
3	110 14.6 3383	78 16.1 3079	27 21.1 3025	19 47.8 3214	51 10.3 3017
6	111 37.2 3375	79 44.7 3071	28 50.8 3017	18 21.9 3244	49 40.5 3010
9	112 59.9 3368	81 13.5 3062	30 20.6 3009	16 56.6 3284	48 10.5 3002
12	114 22.8 3359	82 42.4 3053	31 50.6 3000	15 32.1 3338	46 40.3 2995
15	115 45.9 3350	84 11.5 3043	33 20.8 2992	14 8.7 3414	45 10.0 2986
18	117 9.1 3341	85 40.8 3033	34 51.2 2983	12 46.7 3523	43 39.5 2978
21	118 32.5 3331	87 10.3 3022	36 21.8 2973	11 26.7 3684	42 8.9 2969
25 UT	+Venus	+Gienah	+Spica	–Kaus Aust.	–Nunki
0	88 40.1 3012	50 57.0 3107	37 52.5 2964	33 34.5 3054	40 38.0 2960
3	90 10.0 3000	52 25.0 3091	39 23.5 2953	32 5.4 3053	39 7.0 2950
6	91 40.2 2989	53 53.4 3076	40 54.7 2943	30 36.3 3053	37 35.7 2940
9	93 10.7 2977	55 22.0 3060	42 26.1 2933	29 7.2 3054	36 4.3 2930
12	94 41.4 2965	56 51.0 3046	43 57.7 2922	27 38.1 3057	34 32.6 2920
15	96 12.3 2953	58 20.2 3031	45 29.5 2911	26 9.0 3062	33 0.7 2909
18	97 43.5 2940	59 49.8 3015	47 1.6 2899	24 40.1 3069	31 28.6 2897
21	99 15.0 2928	61 19.7 3001	48 33.9 2888	23 11.3 3081	29 56.3 2886
26 UT	+Venus	+Spica	+Jupiter	+Antares	–Nunki
0	100 46.7 2914	50 6.5 2876	6 55.1 4890	4 13.4 2906	28 23.7 2875
3	102 18.7 2901	51 39.3 2864	7 53.4 4206	5 45.6 2880	26 50.8 2863
6	103 51.0 2888	53 12.4 2852	9 1.8 3796	7 18.3 2861	25 17.7 2851
9	105 23.5 2874	54 45.7 2839	10 16.9 3531	8 51.5 2845	23 44.4 2839
12	106 56.4 2860	56 19.3 2827	11 36.7 3353	10 24.9 2830	22 10.8 2827
15	108 29.6 2846	57 53.2 2813	12 59.9 3225	11 58.7 2816	20 36.9 2814
18	110 3.0 2832	59 27.4 2800	14 25.5 3130	13 32.9 2802	19 2.8 2802
21	111 36.8 2818	61 1.8 2787	15 53.1 3056	15 7.3 2788	17 28.3 2790

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27 UT	+Venus	+Spica	+Jupiter	+Antares	–Fomalhaut
0	113 10.8 2804	62 36.5 2774	17 22.1 2997	16 42.0 2774	67 7.4 3122
3	114 45.2 2789	64 11.6 2760	18 52.4 2948	18 17.0 2760	65 39.7 3118
6	116 19.9 2775	65 46.9 2747	20 23.7 2907	19 52.3 2747	64 11.9 3114
9	117 54.9 2760	67 22.5 2733	21 55.8 2871	21 27.9 2733	62 44.1 3112
12	119 30.2 2747	68 58.4 2720	23 28.7 2840	23 3.9 2719	61 16.2 3110
15	121 5.8 2732	70 34.6 2706	25 2.3 2810	24 40.1 2705	59 48.2 3109
18	122 41.8 2718	72 11.1 2693	26 36.6 2785	26 16.6 2692	58 20.3 3110
21	124 18.0 2704	73 48.0 2679	28 11.3 2761	27 53.5 2678	56 52.3 3112
28 UT	+Spica	+Zubenelgen	+Jupiter	+Antares	–Fomalhaut
0	75 25.1 2665	54 26.3 2689	29 46.7 2739	29 30.6 2664	55 24.4 3116
3	77 2.5 2652	56 3.2 2675	31 22.4 2718	31 8.1 2651	53 56.6 3122
6	78 40.2 2638	57 40.4 2660	32 58.7 2697	32 45.8 2637	52 28.9 3130
9	80 18.3 2624	59 17.9 2646	34 35.4 2678	34 23.9 2623	51 1.4 3139
12	81 56.6 2611	60 55.8 2632	36 12.6 2661	36 2.3 2610	49 34.0 3152
15	83 35.3 2598	62 34.0 2617	37 50.1 2642	37 41.0 2596	48 6.9 3167
18	85 14.2 2584	64 12.5 2604	39 28.0 2626	39 19.9 2583	46 40.1 3186
21	86 53.5 2572	65 51.3 2590	41 6.4 2610	40 59.2 2570	45 13.7 3210
29 UT	+Jupiter	+Antares	+Shaula	+Nunki	–Markab
0	42 45.1 2594	42 38.8 2557	29 21.8 2769	10 6.7 2568	64 10.8 2829
3	44 24.1 2578	44 18.7 2544	30 56.9 2737	11 46.3 2553	62 37.0 2824
6	46 3.5 2563	45 58.9 2531	32 32.7 2707	13 26.3 2538	61 3.0 2821
9	47 43.3 2549	47 39.4 2519	34 9.2 2680	15 6.6 2524	59 29.0 2819
12	49 23.3 2535	49 20.2 2506	35 46.3 2655	16 47.3 2511	57 55.0 2817
15	51 3.7 2521	51 1.2 2494	37 24.0 2632	18 28.2 2498	56 20.9 2818
18	52 44.4 2508	52 42.6 2483	39 2.2 2610	20 9.5 2486	54 46.8 2820
21	54 25.5 2495	54 24.2 2471	40 40.8 2590	21 51.0 2473	53 12.8 2823
30 UT	+Jupiter	+Antares	+Shaula	+Nunki	–Mars
0	56 6.8 2483	56 6.1 2460	42 20.0 2571	23 32.9 2462	108 23.8 2708
3	57 48.4 2471	57 48.2 2449	43 59.6 2554	25 15.0 2450	106 47.4 2696
6	59 30.3 2459	59 30.6 2438	45 39.5 2537	26 57.3 2439	105 10.6 2684
9	61 12.5 2447	61 13.3 2427	47 19.9 2520	28 40.0 2428	103 33.6 2672
12	62 54.9 2437	62 56.2 2417	49 0.6 2506	30 22.9 2418	101 56.3 2661
15	64 37.6 2425	64 39.4 2407	50 41.7 2491	32 6.0 2408	100 18.8 2650
18	66 20.6 2416	66 22.8 2397	52 23.1 2478	33 49.4 2398	98 41.0 2640
21	68 3.8 2406	68 6.5 2388	54 4.8 2465	35 33.0 2389	97 3.0 2629
31 UT	+Antares	+Jupiter	+Kaus Aust.	+Nunki	–Mars
0	69 50.3 2379	69 47.2 2396	45 14.8 2431	37 16.8 2379	95 24.8 2620
3	71 34.4 2370	71 30.9 2387	46 57.6 2420	39 0.9 2370	93 46.3 2610
6	73 18.7 2361	73 14.8 2378	48 40.7 2409	40 45.2 2362	92 7.7 2601
9	75 3.2 2353	74 58.9 2370	50 24.1 2398	42 29.7 2354	90 28.8 2592
12	76 47.9 2345	76 43.2 2362	52 7.7 2388	44 14.3 2346	88 49.7 2585
15	78 32.8 2338	78 27.6 2354	53 51.5 2379	45 59.2 2339	87 10.5 2577
18	80 17.8 2331	80 12.3 2347	55 35.6 2370	47 44.2 2331	85 31.0 2569
21	82 3.0 2324	81 57.2 2341	57 19.9 2362	49 29.5 2325	83 51.4 2563