

DECEMBER 2008

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Sun	–Fomalhaut	–Markab	–Diphda	–Alpheratz
0	35 44.8 3501	51 24.1 3712	70 49.9 3265	77 51.6 3514	90 36.2 3374
3	37 5.2 3497	50 7.5 3739	69 25.1 3267	76 31.5 3518	89 13.4 3372
6	38 25.6 3493	48 51.4 3768	68 0.2 3269	75 11.4 3521	87 50.6 3370
9	39 46.2 3488	47 35.8 3800	66 35.4 3271	73 51.4 3526	86 27.8 3369
12	41 6.8 3483	46 20.8 3834	65 10.7 3273	72 31.5 3531	85 4.9 3367
15	42 27.5 3478	45 6.3 3872	63 46.0 3275	71 11.7 3536	83 42.1 3366
18	43 48.3 3473	43 52.6 3914	62 21.3 3278	69 52.0 3542	82 19.2 3365
21	45 9.2 3467	42 39.5 3960	60 56.7 3280	68 32.4 3548	80 56.2 3363
2 UT	+Sun	+Jupiter	–Markab	–Alpheratz	–Hamal
0	46 30.2 3462	4 22.9 3261	59 32.2 3283	79 33.3 3362	101 10.6 3064
3	47 51.3 3456	5 47.9 3201	58 7.7 3287	78 10.3 3361	99 41.7 3060
6	49 12.5 3449	7 14.0 3169	56 43.2 3291	76 47.3 3360	98 12.8 3055
9	50 33.8 3443	8 40.8 3148	55 18.9 3294	75 24.2 3360	96 43.7 3050
12	51 55.3 3436	10 8.0 3132	53 54.6 3299	74 1.2 3359	95 14.5 3044
15	53 16.9 3429	11 35.4 3119	52 30.4 3304	72 38.2 3358	93 45.2 3038
18	54 38.6 3421	13 3.2 3109	51 6.3 3310	71 15.1 3358	92 15.8 3032
21	56 0.5 3414	14 31.2 3099	49 42.3 3317	69 52.0 3359	90 46.3 3026
3 UT	+Sun	+Venus	–Markab	–Alpheratz	–Hamal
0	57 22.5 3405	14 33.4 3453	48 18.4 3325	68 29.0 3359	89 16.6 3019
3	58 44.6 3397	15 54.7 3444	46 54.7 3334	67 5.9 3359	87 46.8 3012
6	60 7.0 3388	17 16.1 3435	45 31.2 3344	65 42.9 3360	86 16.8 3004
9	61 29.5 3379	18 37.7 3425	44 7.9 3356	64 19.9 3362	84 46.7 2996
12	62 52.1 3369	19 59.5 3415	42 44.8 3369	62 56.9 3364	83 16.4 2987
15	64 15.0 3359	21 21.5 3405	41 21.9 3385	61 33.9 3366	81 45.9 2979
18	65 38.1 3348	22 43.6 3395	39 59.3 3403	60 11.0 3370	80 15.3 2970
21	67 1.3 3338	24 6.0 3384	38 37.1 3425	58 48.2 3374	78 44.4 2960
4 UT	+Sun	+Venus	–Hamal	–Menkar	–Aldebaran
0	68 24.8 3326	25 28.6 3372	77 13.4 2950	84 10.4 3147	109 17.9 3007
3	69 48.4 3315	26 51.4 3360	75 42.2 2940	82 43.2 3138	107 47.9 2995
6	71 12.3 3302	28 14.4 3348	74 10.7 2929	81 15.8 3129	106 17.6 2983
9	72 36.5 3290	29 37.7 3336	72 39.0 2919	79 48.3 3120	104 47.0 2971
12	74 0.9 3277	31 1.1 3323	71 7.1 2907	78 20.5 3111	103 16.2 2958
15	75 25.5 3263	32 24.9 3309	69 35.0 2895	76 52.6 3101	101 45.1 2946
18	76 50.4 3250	33 48.9 3296	68 2.6 2883	75 24.5 3092	100 13.8 2933
21	78 15.5 3236	35 13.2 3281	66 29.9 2871	73 56.2 3083	98 42.2 2920
5 UT	+Sun	+Venus	–Hamal	–Menkar	–Aldebaran
0	79 41.0 3221	36 37.7 3266	64 57.0 2858	72 27.7 3074	97 10.3 2905
3	81 6.7 3206	38 2.6 3252	63 23.8 2845	70 59.0 3065	95 38.1 2892
6	82 32.7 3191	39 27.7 3236	61 50.3 2832	69 30.1 3056	94 5.6 2878
9	83 59.1 3176	40 53.1 3220	60 16.6 2819	68 1.1 3047	92 32.8 2863
12	85 25.7 3159	42 18.9 3203	58 42.5 2804	66 31.8 3038	90 59.8 2848
15	86 52.7 3143	43 44.9 3187	57 8.2 2790	65 2.4 3030	89 26.3 2834
18	88 19.9 3126	45 11.3 3171	55 33.5 2776	63 32.9 3022	87 52.6 2818
21	89 47.6 3109	46 38.1 3153	53 58.5 2761	62 3.1 3014	86 18.6 2803

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6 UT	+Sun	+Venus	–Hamal	–Aldebaran	–Elnath
0	91 15.5 3091	48 5.2 3135	52 23.2 2746	84 44.2 2787	96 53.7 2722
3	92 43.8 3074	49 32.6 3117	50 47.6 2731	83 9.4 2771	95 17.6 2706
6	94 12.5 3055	51 0.4 3099	49 11.6 2716	81 34.4 2755	93 41.0 2689
9	95 41.6 3037	52 28.6 3080	47 35.3 2700	79 58.9 2739	92 4.1 2673
12	97 11.0 3018	53 57.1 3061	45 58.7 2685	78 23.1 2723	90 26.9 2655
15	98 40.8 3000	55 26.1 3042	44 21.7 2669	76 47.0 2706	88 49.2 2638
18	100 11.1 2981	56 55.4 3022	42 44.3 2654	75 10.5 2690	87 11.2 2620
21	101 41.7 2961	58 25.2 3002	41 6.6 2638	73 33.6 2672	85 32.7 2602
7 UT	+Sun	+Venus	–Hamal	–Aldebaran	–Elnath
0	103 12.7 2942	59 55.3 2983	39 28.6 2623	71 56.3 2656	83 53.9 2584
3	104 44.1 2922	61 25.9 2962	37 50.2 2608	70 18.7 2639	82 14.6 2566
6	106 15.9 2902	62 56.9 2942	36 11.5 2593	68 40.6 2622	80 34.9 2547
9	107 48.2 2882	64 28.3 2922	34 32.4 2578	67 2.2 2606	78 54.8 2529
12	109 20.9 2862	66 0.1 2901	32 53.0 2564	65 23.5 2589	77 14.2 2510
15	110 54.0 2841	67 32.4 2880	31 13.3 2551	63 44.3 2572	75 33.3 2491
18	112 27.6 2821	69 5.1 2859	29 33.2 2538	62 4.8 2556	73 51.8 2472
21	114 1.6 2801	70 38.3 2839	27 52.9 2528	60 24.8 2540	72 10.0 2453
8 UT	+Venus	–Aldebaran	–Capella	–Elnath	–Betelgeuse
0	72 11.9 2817	58 44.6 2524	69 53.1 2713	70 27.7 2434	78 45.2 2699
3	73 46.0 2797	57 3.9 2508	68 16.7 2700	68 44.9 2415	77 8.5 2683
6	75 20.5 2776	55 22.9 2493	66 40.1 2689	67 1.7 2396	75 31.5 2668
9	76 55.5 2755	53 41.5 2479	65 3.2 2678	65 18.0 2377	73 54.1 2654
12	78 31.0 2734	51 59.8 2465	63 26.0 2669	63 33.9 2358	72 16.4 2640
15	80 6.9 2713	50 17.8 2451	61 48.7 2660	61 49.3 2339	70 38.4 2627
18	81 43.2 2693	48 35.4 2439	60 11.1 2653	60 4.3 2320	69 0.2 2616
21	83 20.0 2673	46 52.8 2428	58 33.4 2647	58 18.8 2302	67 21.6 2605
9 UT	+Venus	–Aldebaran	–Elnath	–Pollux	–Procyon
0	84 57.3 2652	45 9.9 2417	56 32.9 2283	86 53.2 2298	91 22.0 2481
3	86 35.0 2632	43 26.7 2408	54 46.5 2265	85 7.2 2280	89 40.3 2463
6	88 13.2 2613	41 43.4 2401	52 59.6 2247	83 20.8 2262	87 58.3 2446
9	89 51.8 2593	39 59.8 2395	51 12.4 2229	81 33.9 2245	86 15.8 2428
12	91 30.9 2574	38 16.1 2391	49 24.6 2212	79 46.5 2227	84 32.9 2412
15	93 10.4 2556	36 32.4 2391	47 36.5 2195	77 58.7 2211	82 49.6 2397
18	94 50.3 2537	34 48.6 2392	45 47.9 2178	76 10.6 2194	81 6.0 2382
21	96 30.6 2520	33 4.8 2399	43 58.9 2163	74 22.0 2178	79 22.0 2368
10 UT	+Venus	–Elnath	–Pollux	–Procyon	–Regulus
0	98 11.4 2502	42 9.6 2147	72 33.0 2162	77 37.6 2354	109 28.1 2146
3	99 52.6 2485	40 19.8 2131	70 43.6 2147	75 53.0 2342	107 38.3 2131
6	101 34.1 2469	38 29.6 2117	68 53.8 2133	74 8.0 2331	105 48.1 2116
9	103 16.1 2453	36 39.0 2102	67 3.7 2119	72 22.8 2321	103 57.5 2101
12	104 58.4 2437	34 48.1 2089	65 13.2 2105	70 37.3 2312	102 6.6 2087
15	106 41.0 2423	32 56.9 2076	63 22.3 2092	68 51.7 2305	100 15.3 2073
18	108 24.1 2409	31 5.3 2064	61 31.1 2080	67 5.8 2298	98 23.6 2061
21	110 7.4 2396	29 13.4 2053	59 39.7 2069	65 19.8 2293	96 31.6 2048

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11 UT	+Venus	+Hamal	–Elnath	–Pollux	–Procyon
0	111 51.1 2383	18 0.6 2187	27 21.2 2042	57 47.9 2058	63 33.6 2290
3	113 35.0 2371	19 49.4 2151	25 28.7 2032	55 55.9 2049	61 47.4 2288
6	115 19.3 2360	21 39.0 2120	23 36.0 2023	54 3.6 2039	60 1.1 2288
9	117 3.8 2350	23 29.5 2096	21 43.0 2016	52 11.0 2031	58 14.9 2290
12	118 48.6 2340	25 20.6 2074	19 49.9 2009	50 18.3 2024	56 28.6 2293
15	120 33.6 2332	27 12.2 2056	17 56.6 2005	48 25.3 2018	54 42.5 2300
18	122 18.8 2324	29 4.3 2041	16 3.1 2003	46 32.2 2013	52 56.5 2309
21	124 4.2 2316	30 56.8 2027	14 9.7 2003	44 39.0 2008	51 10.7 2320
12 UT	+Hamal	–Pollux	–Procyon	–Regulus	–Saturn
0	32 49.6 2016	42 45.7 2005	49 25.2 2335	79 31.4 1969	100 47.0 1995
3	34 42.8 2007	40 52.3 2003	47 40.1 2353	77 37.0 1964	98 53.3 1990
6	36 36.2 1998	38 58.8 2003	45 55.4 2375	75 42.5 1959	96 59.5 1985
9	38 29.8 1991	37 5.3 2004	44 11.2 2401	73 47.9 1956	95 5.5 1981
12	40 23.6 1986	35 11.8 2006	42 27.7 2432	71 53.2 1954	93 11.5 1978
15	42 17.5 1982	33 18.4 2011	40 44.9 2470	69 58.4 1952	91 17.3 1977
18	44 11.5 1978	31 25.2 2017	39 3.0 2514	68 3.6 1951	89 23.2 1976
21	46 5.7 1976	29 32.0 2026	37 22.1 2565	66 8.7 1951	87 29.0 1976
13 UT	+Hamal	+Elnath	–Pollux	–Regulus	–Saturn
0	47 59.8 1976	3 31.1 2269	27 39.2 2037	64 13.9 1952	85 34.8 1977
3	49 54.0 1975	5 17.9 2101	25 46.6 2052	62 19.1 1953	83 40.6 1978
6	51 48.2 1977	7 8.8 2040	23 54.3 2071	60 24.3 1957	81 46.5 1981
9	53 42.4 1979	9 1.3 2013	22 2.6 2096	58 29.6 1960	79 52.4 1984
12	55 36.5 1981	10 54.6 2000	20 11.5 2128	56 35.0 1964	77 58.4 1988
15	57 30.6 1985	12 48.1 1994	18 21.3 2170	54 40.5 1969	76 4.6 1994
18	59 24.5 1990	14 41.8 1993	16 32.1 2228	52 46.1 1975	74 10.9 2000
21	61 18.3 1996	16 35.6 1995	14 44.3 2309	50 51.9 1982	72 17.3 2006
14 UT	+Hamal	+Aldebaran	+Elnath	–Regulus	–Saturn
0	63 12.0 2003	32 4.0 2213	18 29.3 1999	48 57.8 1990	70 23.9 2014
3	65 5.5 2010	33 52.1 2199	20 22.9 2004	47 4.0 1997	68 30.7 2023
6	66 58.8 2018	35 40.6 2190	22 16.3 2011	45 10.3 2006	66 37.7 2032
9	68 51.9 2027	37 29.3 2183	24 9.6 2019	43 17.0 2016	64 45.0 2042
12	70 44.8 2036	39 18.2 2180	26 2.7 2027	41 23.8 2027	62 52.5 2053
15	72 37.4 2047	41 7.2 2179	27 55.5 2037	39 31.0 2038	61 0.4 2064
18	74 29.7 2058	42 56.1 2180	29 48.1 2048	37 38.4 2050	59 8.5 2077
21	76 21.8 2070	44 45.1 2183	31 40.5 2059	35 46.1 2064	57 16.9 2090
15 UT	+Aldebaran	+Elnath	–Regulus	–Saturn	–Spica
0	46 33.9 2188	33 32.5 2071	33 54.2 2077	55 25.7 2104	87 57.2 2071
3	48 22.7 2194	35 24.2 2084	32 2.7 2091	53 34.8 2118	86 5.5 2085
6	50 11.3 2202	37 15.6 2097	30 11.5 2106	51 44.3 2133	84 14.1 2098
9	51 59.7 2211	39 6.6 2111	28 20.6 2122	49 54.1 2150	82 23.1 2113
12	53 47.9 2221	40 57.3 2125	26 30.2 2139	48 4.4 2166	80 32.4 2127
15	55 35.8 2231	42 47.7 2140	24 40.2 2156	46 15.1 2183	78 42.2 2142
18	57 23.5 2243	44 37.6 2155	22 50.7 2175	44 26.2 2201	76 52.3 2158
21	59 10.8 2256	46 27.2 2171	21 1.6 2196	42 37.8 2220	75 2.8 2174

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16 UT	+Aldebaran	+Elnath	+Pollux	–Saturn	–Spica
0	60 57.9 2269	48 16.4 2187	18 37.3 2349	40 49.9 2240	73 13.7 2191
3	62 44.6 2283	50 5.1 2204	20 22.1 2340	39 2.4 2260	71 25.0 2207
6	64 31.0 2298	51 53.5 2221	22 7.1 2337	37 15.5 2282	69 36.7 2224
9	66 17.0 2313	53 41.4 2238	23 52.2 2338	35 29.1 2304	67 48.9 2242
12	68 2.7 2328	55 28.9 2255	25 37.3 2343	33 43.2 2327	66 1.5 2259
15	69 48.0 2344	57 16.0 2273	27 22.2 2351	31 57.9 2352	64 14.5 2277
18	71 32.9 2361	59 2.7 2291	29 7.0 2360	30 13.1 2378	62 28.0 2296
21	73 17.4 2377	60 48.9 2308	30 51.5 2371	28 29.0 2406	60 41.9 2314
17 UT	+Aldebaran	+Elnath	+Pollux	–Spica	–Sun
0	75 1.5 2395	62 34.7 2327	32 35.8 2384	58 56.2 2332	120 24.1 2664
3	76 45.2 2412	64 20.0 2345	34 19.7 2396	57 11.0 2351	118 46.6 2682
6	78 28.5 2429	66 4.9 2363	36 3.4 2411	55 26.3 2370	117 9.5 2702
9	80 11.4 2447	67 49.3 2381	37 46.7 2425	53 42.0 2388	115 32.9 2721
12	81 53.8 2465	69 33.3 2400	39 29.6 2441	51 58.2 2408	113 56.8 2742
15	83 35.9 2483	71 16.9 2418	41 12.2 2456	50 14.8 2426	112 21.0 2761
18	85 17.5 2501	73 0.0 2437	42 54.5 2472	48 31.8 2445	110 45.7 2780
21	86 58.6 2520	74 42.7 2455	44 36.3 2488	46 49.3 2464	109 10.8 2800
18 UT	+Pollux	+Procyon	+Regulus	–Spica	–Sun
0	46 17.8 2505	44 19.1 2890	9 19.5 2579	45 7.3 2483	107 36.4 2820
3	47 58.9 2521	45 51.7 2885	10 58.9 2569	43 25.7 2503	106 2.3 2839
6	49 39.6 2538	47 24.3 2882	12 38.5 2569	41 44.5 2521	104 28.7 2858
9	51 20.0 2554	48 57.0 2881	14 18.2 2574	40 3.8 2540	102 55.5 2878
12	52 59.9 2571	50 29.7 2882	15 57.7 2583	38 23.5 2559	101 22.8 2898
15	54 39.5 2588	52 2.4 2885	17 36.9 2594	36 43.7 2578	99 50.4 2916
18	56 18.7 2605	53 35.0 2889	19 16.0 2607	35 4.3 2597	98 18.4 2935
21	57 57.5 2621	55 7.5 2894	20 54.7 2620	33 25.3 2616	96 46.9 2953
19 UT	+Pollux	+Procyon	+Regulus	–Spica	–Sun
0	59 35.9 2637	56 40.0 2900	22 33.2 2634	31 46.8 2635	95 15.7 2972
3	61 14.0 2653	58 12.3 2907	24 11.3 2649	30 8.7 2654	93 44.9 2990
6	62 51.7 2669	59 44.4 2914	25 49.1 2663	28 31.0 2673	92 14.5 3008
9	64 29.0 2685	61 16.4 2922	27 26.6 2678	26 53.7 2692	90 44.5 3026
12	66 6.0 2700	62 48.3 2931	29 3.7 2693	25 16.9 2713	89 14.8 3043
15	67 42.7 2716	64 19.9 2940	30 40.6 2707	23 40.5 2733	87 45.5 3060
18	69 19.0 2731	65 51.3 2950	32 17.1 2722	22 4.6 2754	86 16.5 3077
21	70 54.9 2746	67 22.6 2960	33 53.2 2736	20 29.1 2776	84 47.9 3093
20 UT	+Pollux	+Regulus	+Saturn	–Spica	–Sun
0	72 30.6 2760	35 29.1 2750	14 52.8 3031	18 54.2 2799	83 19.6 3109
3	74 5.9 2775	37 4.6 2764	16 22.4 2997	17 19.7 2826	81 51.6 3126
6	75 40.9 2788	38 39.9 2777	17 52.6 2974	15 45.8 2855	80 24.0 3141
9	77 15.6 2802	40 14.8 2791	19 23.4 2960	14 12.5 2890	78 56.7 3156
12	78 50.0 2815	41 49.5 2804	20 54.4 2950	12 40.0 2933	77 29.6 3171
15	80 24.2 2828	43 23.8 2817	22 25.7 2945	11 8.4 2991	76 2.9 3185
18	81 58.0 2841	44 57.9 2829	23 57.0 2943	9 38.0 3073	74 36.5 3199
21	83 31.6 2853	46 31.7 2842	25 28.4 2943	8 9.3 3203	73 10.3 3213

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21 UT	+Pollux	+Procyon	+Regulus	+Saturn	–Sun
0	85 4.9 2866	80 54.4 3052	48 5.3 2854	26 59.8 2946	71 44.4 3226
3	86 37.9 2877	82 23.6 3062	49 38.6 2865	28 31.1 2948	70 18.8 3239
6	88 10.7 2889	83 52.5 3072	51 11.6 2876	30 2.4 2953	68 53.4 3251
9	89 43.2 2900	85 21.2 3083	52 44.4 2887	31 33.6 2958	67 28.3 3264
12	91 15.5 2911	86 49.7 3093	54 17.0 2898	33 4.7 2963	66 3.4 3276
15	92 47.6 2921	88 18.0 3103	55 49.3 2908	34 35.7 2968	64 38.7 3287
18	94 19.5 2932	89 46.1 3113	57 21.5 2918	36 6.5 2974	63 14.3 3298
21	95 51.1 2941	91 14.0 3123	58 53.4 2927	37 37.3 2980	61 50.1 3309
22 UT	+Regulus	+Denebola	+Saturn	+Spica	–Sun
0	60 25.1 2937	41 58.9 3308	39 7.9 2987	6 55.3 3280	60 26.1 3319
3	61 56.6 2946	43 22.9 3296	40 38.4 2992	8 19.9 3182	59 2.2 3329
6	63 28.0 2954	44 47.2 3286	42 8.7 2998	9 46.4 3126	57 38.6 3338
9	64 59.1 2962	46 11.6 3278	43 39.0 3005	11 14.0 3093	56 15.2 3348
12	66 30.1 2970	47 36.3 3271	45 9.1 3010	12 42.3 3073	54 51.9 3357
15	68 1.0 2978	49 1.0 3265	46 39.1 3016	14 11.0 3060	53 28.8 3365
18	69 31.6 2985	50 25.9 3260	48 9.0 3022	15 40.0 3053	52 5.9 3374
21	71 2.1 2992	51 50.8 3255	49 38.7 3027	17 9.1 3048	50 43.1 3382
23 UT	+Regulus	+Saturn	+Gienah	+Spica	–Sun
0	72 32.5 2998	51 8.4 3032	32 23.6 3225	18 38.3 3046	49 20.5 3389
3	74 2.7 3005	52 37.9 3037	33 49.3 3215	20 7.5 3046	47 58.1 3397
6	75 32.8 3011	54 7.3 3042	35 15.1 3205	21 36.8 3047	46 35.7 3404
9	77 2.8 3016	55 36.7 3046	36 41.2 3197	23 6.0 3047	45 13.5 3410
12	78 32.7 3022	57 5.9 3051	38 7.4 3191	24 35.3 3049	43 51.4 3416
15	80 2.5 3027	58 35.1 3055	39 33.7 3185	26 4.4 3051	42 29.5 3423
18	81 32.1 3031	60 4.1 3059	41 0.1 3180	27 33.6 3053	41 7.6 3429
21	83 1.7 3036	61 33.1 3063	42 26.7 3177	29 2.7 3056	39 45.9 3434
24 UT	+Regulus	+Saturn	+Gienah	+Spica	–Sun
0	84 31.1 3040	63 2.0 3066	43 53.3 3173	30 31.7 3058	38 24.3 3440
3	86 0.5 3044	64 30.9 3070	45 20.0 3171	32 0.8 3060	37 2.8 3445
6	87 29.8 3048	65 59.6 3073	46 46.7 3168	33 29.7 3063	35 41.4 3450
9	88 59.0 3051	67 28.3 3076	48 13.5 3166	34 58.6 3065	34 20.1 3455
12	90 28.1 3055	68 57.0 3079	49 40.3 3164	36 27.5 3067	32 58.8 3460
15	91 57.2 3058	70 25.6 3081	51 7.2 3162	37 56.3 3069	31 37.7 3464
18	93 26.2 3060	71 54.1 3084	52 34.1 3161	39 25.1 3071	30 16.6 3469
21	94 55.2 3063	73 22.6 3086	54 1.0 3160	40 53.9 3073	28 55.7 3474
25 UT	+Saturn	+Gienah	+Spica	+Zubenelgen	–Sun
0	74 51.0 3087	55 27.9 3158	42 22.6 3074	21 41.5 3203	27 34.8 3479
3	76 19.4 3089	56 54.9 3157	43 51.2 3076	23 7.6 3189	26 14.0 3484
6	77 47.8 3090	58 21.9 3156	45 19.9 3077	24 33.9 3177	24 53.3 3489
9	79 16.2 3092	59 48.9 3155	46 48.5 3078	26 0.5 3168	23 32.7 3494
12	80 44.5 3093	61 16.0 3154	48 17.1 3079	27 27.3 3160	22 12.2 3500
15	82 12.8 3094	62 43.1 3152	49 45.7 3079	28 54.2 3153	20 51.8 3507
18	83 41.0 3095	64 10.2 3152	51 14.3 3080	30 21.3 3147	19 31.5 3515
21	85 9.3 3096	65 37.3 3151	52 42.8 3081	31 48.5 3142	18 11.4 3524

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	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
29 UT	+Sun	–Venus	–Markab	–Alpheratz	–Hamal
0	16 7.5 3493	30 13.7 3490	62 19.1 3257	82 16.7 3344	104 7.2 3056
3	17 28.0 3480	28 53.1 3487	60 54.1 3259	80 53.3 3342	102 38.2 3052
6	18 48.8 3469	27 32.5 3487	59 29.1 3263	79 29.9 3342	101 9.0 3048
9	20 9.8 3458	26 11.8 3485	58 4.2 3267	78 6.6 3342	99 39.8 3044
12	21 31.0 3450	24 51.1 3485	56 39.4 3271	76 43.2 3342	98 10.6 3041
15	22 52.3 3440	23 30.5 3484	55 14.7 3276	75 19.8 3342	96 41.2 3036
18	24 13.8 3433	22 9.8 3485	53 50.0 3282	73 56.4 3343	95 11.7 3032
21	25 35.4 3425	20 49.1 3486	52 25.5 3289	72 33.1 3344	93 42.2 3028
30 UT	+Sun	–Venus	–Markab	–Alpheratz	–Hamal
0	26 57.2 3417	19 28.4 3488	51 1.1 3296	71 9.7 3345	92 12.6 3023
3	28 19.2 3410	18 7.8 3493	49 36.8 3304	69 46.4 3347	90 42.8 3018
6	29 41.2 3403	16 47.3 3499	48 12.7 3314	68 23.1 3349	89 13.0 3013
9	31 3.5 3395	15 26.9 3509	46 48.8 3324	66 59.9 3352	87 43.1 3008
12	32 25.8 3388	14 6.6 3522	45 25.1 3336	65 36.7 3355	86 13.0 3003
15	33 48.3 3380	12 46.7 3545	44 1.6 3350	64 13.6 3359	84 42.9 2997
18	35 10.9 3373	11 27.1 3577	42 38.4 3366	62 50.5 3363	83 12.6 2991
21	36 33.7 3366	10 8.1 3628	41 15.5 3385	61 27.6 3368	81 42.3 2986
31 UT	+Sun	–Alpheratz	–Hamal	–Menkar	–Aldebaran
0	37 56.6 3357	60 4.7 3374	80 11.7 2979	87 4.4 3178	112 16.4 3040
3	39 19.7 3349	58 41.9 3381	78 41.1 2973	85 37.9 3172	110 47.0 3032
6	40 43.0 3342	57 19.3 3389	77 10.3 2967	84 11.2 3167	109 17.5 3025
9	42 6.3 3333	55 56.8 3398	75 39.4 2959	82 44.3 3161	107 47.8 3016
12	43 29.9 3324	54 34.5 3408	74 8.4 2952	81 17.4 3156	106 17.9 3008
15	44 53.6 3316	53 12.4 3420	72 37.2 2945	79 50.4 3150	104 47.9 2999
18	46 17.5 3307	51 50.5 3433	71 5.8 2938	78 23.3 3145	103 17.7 2990
21	47 41.5 3298	50 28.9 3448	69 34.3 2930	76 56.0 3140	101 47.3 2982