

superior conj	699 Jan 29 j 06:00	12° \approx 29'07	-1°-19'-28	min. Earth dist.	701 Jun 19 j 03:49	29° Π 55'18	0.28956 AU
minimum elong	699 Jan 28 j 21:52	12° \approx 03'40	1°19'20	morning rise	701 Jun 24 j 18:40	26° Π 31'23	
max. Earth dist.	699 Feb 02 j 07:55	17° \approx 35'10	1.71734 AU	direct	701 Jul 10 j 17:47	21° Π 39'56	
	699 Feb 12 j 06:32	0° H		greatest brilliancy	701 Jul 24 j 21:27	25° Π 07'56	-4.5m
	699 Mar 08 j 09:44	0° Υ			701 Aug 02 j 13:26	0° S	
evening rise	699 Mar 10 j 06:11	2° Υ 17'40		morning max el	701 Aug 29 j 00:04	22° S 09'12	46°07'37
	699 Apr 01 j 17:13	0° B			701 Sep 05 j 19:55	0° Ω	
asc. node	699 Apr 09 j 16:25	9° B 46'36		asc. node	701 Sep 24 j 11:24	20° Ω 03'23	
	699 Apr 26 j 05:49	0° Π			701 Oct 03 j 06:09	0° M	
	699 May 21 j 00:25	0° S			701 Oct 28 j 17:19	0° L	
	699 Jun 15 j 02:54	0° Ω			701 Nov 22 j 07:42	0° M	
	699 Jul 10 j 17:34	0° M			701 Dec 16 j 13:02	0° A	
desc. node	699 Jul 30 j 05:41	22° M 12'23			702 Jan 09 j 15:21	0° B	
	699 Aug 06 j 06:00	0° L		desc. node	702 Jan 14 j 00:54	5° B 28'41	
	699 Sep 03 j 19:25	0° M			702 Feb 02 j 17:33	0° \approx	
evening max el	699 Sep 04 j 11:57	0° M 40'31	46°39'11		702 Feb 26 j 20:59	0° H	
	699 Oct 13 j 06:41	0° A		morning set	702 Mar 04 j 18:55	7° H 20'07	
greatest brilliancy	699 Oct 13 j 13:10	0° A 06'15	-4.6m		702 Mar 23 j 02:22	0° Υ	
retrograde	699 Oct 24 j 09:45	2° A 16'38					
	699 Nov 04 j 01:20	30° M		superior conj	702 Apr 12 j 01:21	24° Υ 37'55	0°-54'-55
evening set	699 Nov 07 j 23:43	28° M 06'34		minimum elong	702 Apr 12 j 10:47	25° Υ 06'57	0°54'36
inferior conj	699 Nov 13 j 22:27	24° M 38'06	-1°-39'-55	max. Earth dist.	702 Apr 14 j 02:13	27° Υ 08'25	1.73241 AU
minimum elong	699 Nov 14 j 02:14	24° M 32'20	1°38'43		702 Apr 16 j 09:58	0° B	
min. Earth dist.	699 Nov 14 j 02:13	24° M 32'21	0.26409 AU	asc. node	702 May 07 j 04:13	25° B 31'46	
morning rise	699 Nov 20 j 04:33	20° M 59'54			702 May 10 j 19:36	0° Π	
asc. node	699 Nov 20 j 08:53	20° M 54'14		evening rise	702 May 19 j 03:42	10° Π 13'49	
direct	699 Dec 04 j 07:55	17° M 01'21			702 Jun 04 j 06:47	0° S	
greatest brilliancy	699 Dec 16 j 13:19	19° M 48'52	-4.7m		702 Jun 28 j 19:27	0° Ω	
	700 Jan 01 j 18:58	0° A			702 Jul 23 j 10:23	0° M	
morning max el	700 Jan 23 j 18:38	20° A 00'38	46°48'49		702 Aug 17 j 05:22	0° L	
	700 Feb 02 j 10:34	0° B		desc. node	702 Aug 26 j 17:39	11° L 25'47	
	700 Feb 29 j 14:21	0° \approx			702 Sep 11 j 07:03	0° M	
desc. node	700 Mar 10 j 22:38	11° \approx 52'20			702 Oct 06 j 20:22	0° A	
	700 Mar 26 j 11:59	0° H			702 Nov 02 j 10:48	0° B	
	700 Apr 20 j 20:49	0° Υ		evening max el	702 Nov 16 j 04:12	14° B 30'08	47°22'40
	700 May 15 j 22:42	0° B			702 Dec 02 j 09:30	0° \approx	
	700 Jun 09 j 19:16	0° Π		asc. node	702 Dec 17 j 20:53	11° \approx 46'33	
asc. node	700 Jul 02 j 01:51	27° Π 07'12		greatest brilliancy	702 Dec 24 j 06:31	15° \approx 15'05	-4.7m
	700 Jul 04 j 10:22	0° S		retrograde	703 Jan 06 j 05:52	18° \approx 25'20	
morning set	700 Jul 22 j 08:21	22° S 00'33		evening set	703 Jan 23 j 01:16	12° \approx 50'51	
	700 Jul 28 j 19:44	0° Ω		min. Earth dist.	703 Jan 26 j 04:15	10° \approx 56'05	0.27411 AU
	700 Aug 22 j 00:02	0° M		inferior conj	703 Jan 27 j 02:23	10° \approx 21'29	8°04'13
max. Earth dist.	700 Aug 24 j 07:43	2° M 53'25	1.72275 AU	minimum elong	703 Jan 26 j 18:53	10° \approx 33'13	8°03'17
				morning rise	703 Jan 30 j 12:48	8° \approx 14'36	
superior conj	700 Aug 28 j 01:40	7° M 33'43	1°24'38	direct	703 Feb 16 j 16:49	2° \approx 30'23	
minimum elong	700 Aug 28 j 02:20	7° M 35'48	1°24'38	greatest brilliancy	703 Feb 27 j 09:08	4° \approx 36'50	-4.6m
	700 Sep 15 j 00:55	0° L			703 Apr 03 j 11:20	0° H	
evening rise	700 Oct 05 j 08:20	25° L 24'45		morning max el	703 Apr 07 j 01:52	3° H 26'54	46°07'40
	700 Oct 09 j 00:17	0° M		desc. node	703 Apr 08 j 10:19	4° H 45'53	
desc. node	700 Oct 21 j 15:25	15° M 48'45			703 May 02 j 17:37	0° Υ	
	700 Nov 01 j 23:32	0° A			703 May 29 j 14:30	0° B	
	700 Nov 25 j 23:43	0° B			703 Jun 24 j 11:05	0° Π	
	700 Dec 20 j 02:25	0° \approx			703 Jul 19 j 16:19	0° S	
	701 Jan 13 j 10:49	0° H		asc. node	703 Jul 30 j 13:48	13° S 09'31	
	701 Feb 07 j 06:43	0° Υ			703 Aug 13 j 09:24	0° Ω	
asc. node	701 Feb 11 j 18:37	5° Υ 20'14			703 Sep 06 j 16:48	0° M	
	701 Mar 05 j 00:36	0° B			703 Sep 30 j 17:30	0° L	
	701 Apr 01 j 16:35	0° Π		morning set	703 Oct 01 j 11:59	0° L 57'54	
evening max el	701 Apr 09 j 22:52	8° Π 13'00	45°29'17		703 Oct 24 j 14:39	0° M	
	701 May 06 j 03:50	0° S					
greatest brilliancy	701 May 14 j 08:07	4° S 35'16	-4.5m	superior conj	703 Nov 10 j 03:46	20° M 49'25	0°21'12
retrograde	701 May 28 j 14:04	8° S 08'19		minimum elong	703 Nov 10 j 09:11	21° M 06'26	0°20'57
desc. node	701 Jun 03 j 07:56	7° S 29'17		max. Earth dist.	703 Nov 10 j 03:10	20° M 47'32	1.71078 AU
evening set	701 Jun 12 j 19:00	3° S 43'18			703 Nov 17 j 10:42	0° A	
inferior conj	701 Jun 19 j 02:19	29° Π 57'37	-3°-35'-18	desc. node	703 Nov 19 j 03:14	2° A 07'34	
minimum elong	701 Jun 18 j 18:59	0° S 09'05	3°33'21		703 Dec 11 j 07:05	0° B	
	701 Jun 19 j 00:48	30° Π		evening rise	703 Dec 21 j 19:56	13° B 14'06	

	704 Jan 04 j 04:53	0°≈		asc. node	706 Aug 27 j 01:37	0°Ω09'20	
	704 Jan 28 j 05:35	0°✠			706 Sep 20 j 19:04	0°♎	
	704 Feb 21 j 11:33	0°♑			706 Oct 15 j 02:13	0°♌	
asc. node	704 Mar 11 j 06:33	22°♑58'00			706 Nov 08 j 02:07	0°♍	
	704 Mar 17 j 01:51	0°♄			706 Dec 01 j 23:05	0°♁	
	704 Apr 11 j 04:30	0°♁		morning set	706 Dec 15 j 21:56	17°♁32'53	
	704 May 07 j 02:16	0°♄		desc. node	706 Dec 16 j 15:06	18°♁26'52	
	704 Jun 03 j 11:46	0°Ω			706 Dec 25 j 19:43	0°♄	
evening max el	704 Jun 19 j 22:32	16°Ω31'40	45°30'22		707 Jan 18 j 17:28	0°≈	
desc. node	704 Jun 30 j 19:58	26°Ω25'50					
	704 Jul 05 j 02:32	0°♎		superior conj	707 Jan 26 j 16:55	9°≈59'12	-1°-17'-57
greatest brilliancy	704 Jul 27 j 03:40	13°♎50'50	-4.5m	minimum elong	707 Jan 26 j 08:02	9°≈31'24	1°17'47
retrograde	704 Aug 07 j 16:11	16°♎11'35		max. Earth dist.	707 Jan 30 j 18:42	15°≈04'57	1.71681 AU
evening set	704 Aug 25 j 16:14	10°♎10'14			707 Feb 11 j 17:23	0°✠	
inferior conj	704 Aug 28 j 18:39	8°♎17'14	-8°-46'00	evening rise	707 Mar 07 j 19:31	29°✠56'46	
minimum elong	704 Aug 28 j 19:26	8°♎16'01	8°46'01		707 Mar 07 j 20:33	0°♑	
min. Earth dist.	704 Aug 29 j 10:31	7°♎52'51	0.28085 AU		707 Apr 01 j 04:05	0°♄	
morning rise	704 Aug 31 j 22:29	6°♎21'50		asc. node	707 Apr 08 j 18:27	9°♄19'26	
direct	704 Sep 19 j 01:02	0°♎12'50			707 Apr 25 j 16:51	0°♁	
greatest brilliancy	704 Oct 03 j 08:36	3°♎55'20	-4.6m		707 May 20 j 11:51	0°♄	
asc. node	704 Oct 21 j 23:08	16°♎39'13			707 Jun 14 j 15:06	0°Ω	
	704 Nov 05 j 09:20	0°♌			707 Jul 10 j 07:11	0°♎	
morning max el	704 Nov 08 j 16:09	3°♌18'11	46°48'38	desc. node	707 Jul 29 j 07:43	21°♎35'00	
	704 Dec 03 j 06:31	0°♍			707 Aug 05 j 22:25	0°♌	
	704 Dec 28 j 23:17	0°♁		evening max el	707 Sep 02 j 00:04	28°♌15'06	46°36'24
	705 Jan 22 j 21:50	0°♄			707 Sep 03 j 19:18	0°♍	
desc. node	705 Feb 10 j 12:46	22°♄38'56		greatest brilliancy	707 Oct 11 j 03:25	27°♍39'57	-4.6m
	705 Feb 16 j 13:25	0°≈		retrograde	707 Oct 21 j 20:59	29°♍47'47	
	705 Mar 13 j 02:31	0°✠		evening set	707 Nov 05 j 13:30	25°♍35'19	
	705 Apr 06 j 15:02	0°♑		inferior conj	707 Nov 11 j 10:30	22°♍09'39	-2°-4'00
	705 May 01 j 03:31	0°♄		minimum elong	707 Nov 11 j 15:09	22°♍02'34	2°02'33
morning set	705 May 13 j 14:16	15°♄14'11		min. Earth dist.	707 Nov 11 j 16:19	22°♍00'47	0.26430 AU
	705 May 25 j 15:29	0°♁		morning rise	707 Nov 17 j 16:28	18°♍31'24	
asc. node	705 Jun 03 j 16:08	11°♁04'21		asc. node	707 Nov 19 j 11:02	17°♍37'36	
max. Earth dist.	705 Jun 17 j 01:19	27°♁30'29	1.73545 AU	direct	707 Dec 01 j 19:42	14°♍32'10	
				greatest brilliancy	707 Dec 14 j 05:07	17°♍23'36	-4.7m
superior conj	705 Jun 19 j 00:20	29°♁55'01	0°35'19		708 Jan 02 j 09:08	0°♁	
minimum elong	705 Jun 18 j 17:48	29°♁34'57	0°35'01	morning max el	708 Jan 21 j 07:01	17°♁32'56	46°49'54
	705 Jun 19 j 01:57	0°♄			708 Feb 02 j 06:09	0°♄	
	705 Jul 13 j 10:16	0°Ω			708 Feb 29 j 05:31	0°≈	
evening rise	705 Jul 24 j 18:26	14°Ω00'27		desc. node	708 Mar 10 j 00:39	11°≈16'59	
	705 Aug 06 j 16:49	0°♎			708 Mar 26 j 01:11	0°✠	
	705 Aug 30 j 22:50	0°♌			708 Apr 20 j 08:55	0°♑	
desc. node	705 Sep 23 j 05:32	28°♌45'30			708 May 15 j 10:07	0°♄	
	705 Sep 24 j 05:41	0°♍			708 Jun 09 j 06:14	0°♁	
	705 Oct 18 j 14:33	0°♁		asc. node	708 Jul 01 j 04:02	26°♁41'02	
	705 Nov 12 j 03:18	0°♄			708 Jul 03 j 21:05	0°♄	
	705 Dec 07 j 00:42	0°≈		morning set	708 Jul 20 j 02:03	19°♄54'18	
	706 Jan 01 j 19:01	0°✠			708 Jul 28 j 06:21	0°Ω	
asc. node	706 Jan 14 j 08:49	13°✠54'59			708 Aug 21 j 10:42	0°♎	
evening max el	706 Jan 26 j 19:39	26°✠56'11	46°35'56	max. Earth dist.	708 Aug 22 j 01:36	0°♎46'25	1.72335 AU
	706 Jan 29 j 21:35	0°♑					
greatest brilliancy	706 Mar 03 j 09:36	25°♑26'59	-4.6m	superior conj	708 Aug 25 j 18:16	5°♎22'31	1°24'40
retrograde	706 Mar 17 j 21:30	29°♑12'35		minimum elong	708 Aug 25 j 18:11	5°♎22'17	1°24'41
evening set	706 Apr 03 j 11:03	23°♑51'28			708 Sep 14 j 11:43	0°♌	
inferior conj	706 Apr 08 j 04:38	20°♑55'32	5°56'11	evening rise	708 Oct 02 j 21:25	23°♌01'20	
minimum elong	706 Apr 08 j 14:14	20°♑40'21	5°54'10		708 Oct 08 j 11:15	0°♍	
min. Earth dist.	706 Apr 08 j 05:29	20°♑54'11	0.28750 AU	desc. node	708 Oct 20 j 17:30	15°♍20'36	
morning rise	706 Apr 13 j 17:45	17°♑32'12			708 Nov 01 j 10:41	0°♁	
direct	706 Apr 29 j 14:50	12°♑41'14			708 Nov 25 j 11:06	0°♄	
desc. node	706 May 05 j 22:02	13°♑25'52			708 Dec 19 j 14:05	0°≈	
greatest brilliancy	706 May 11 j 23:42	15°♑24'48	-4.5m		709 Jan 12 j 22:55	0°✠	
	706 Jun 03 j 10:20	0°♄			709 Feb 06 j 19:39	0°♑	
morning max el	706 Jun 17 j 09:23	12°♄29'40	45°44'10	asc. node	709 Feb 10 j 20:36	4°♑47'16	
	706 Jul 04 j 19:32	0°♁			709 Mar 04 j 15:17	0°♄	
	706 Aug 01 j 03:57	0°♄			709 Apr 01 j 12:00	0°♁	
	706 Aug 26 j 22:28	0°Ω		evening max el	709 Apr 07 j 14:14	6°♁01'22	45°30'46

	709 May 07 j 07:51	0°☿		superior conj	711 Nov 07 j 14:47	18°♍18'24	0°24'56
greatest brilliancy	709 May 11 j 21:49	2°☿24'04	-4.5m	minimum elong	711 Nov 07 j 21:02	18°♍38'04	0°24'39
retrograde	709 May 26 j 06:48	6°☿00'49		max. Earth dist.	711 Nov 07 j 11:24	18°♍07'46	1.71094 AU
desc. node	709 Jun 02 j 10:10	5°☿00'08			711 Nov 16 j 21:43	0°♁	
evening set	709 Jun 10 j 10:23	1°☿36'33		desc. node	711 Nov 18 j 05:24	1°♁39'43	
	709 Jun 13 j 05:49	30°♈			711 Dec 10 j 18:11	0°♁	
inferior conj	709 Jun 16 j 18:45	27°♈49'33	-3°-17'-11	evening rise	711 Dec 19 j 05:56	10°♁39'54	
minimum elong	709 Jun 16 j 11:56	28°♈00'11	3°15'20		712 Jan 03 j 16:03	0°♁	
min. Earth dist.	709 Jun 16 j 20:11	27°♈47'19	0.28963 AU		712 Jan 27 j 16:52	0°♁	
morning rise	709 Jun 22 j 13:14	24°♈20'33			712 Feb 20 j 23:03	0°♁	
direct	709 Jul 08 j 10:07	19°♈31'32		asc. node	712 Mar 10 j 08:36	22°♁28'27	
greatest brilliancy	709 Jul 22 j 14:13	23°♈00'13	-4.5m		712 Mar 16 j 13:46	0°♁	
	709 Aug 03 j 09:25	0°♁			712 Apr 10 j 17:12	0°♈	
morning max el	709 Aug 26 j 16:16	19°♁58'40	46°06'16		712 May 06 j 16:36	0°♁	
	709 Sep 05 j 14:56	0°♁			712 Jun 03 j 06:00	0°♁	
asc. node	709 Sep 23 j 13:29	19°♁25'27		evening max el	712 Jun 17 j 13:44	14°♁18'30	45°28'59
	709 Oct 02 j 20:51	0°♁		desc. node	712 Jun 29 j 22:00	25°♁26'34	
	709 Oct 28 j 06:21	0°♁			712 Jul 05 j 13:12	0°♁	
	709 Nov 21 j 19:56	0°♁		greatest brilliancy	712 Jul 24 j 16:20	11°♁33'41	-4.5m
	709 Dec 16 j 00:49	0°♁		retrograde	712 Aug 05 j 05:58	13°♁55'16	
	710 Jan 09 j 02:49	0°♁		evening set	712 Aug 23 j 05:52	7°♁55'01	
desc. node	710 Jan 13 j 02:59	4°♁59'39		inferior conj	712 Aug 26 j 09:12	6°♁00'23	-8°-45'-57
	710 Feb 02 j 04:46	0°♁		minimum elong	712 Aug 26 j 09:07	6°♁00'30	8°45'58
	710 Feb 26 j 07:58	0°♁		min. Earth dist.	712 Aug 27 j 00:18	5°♁37'06	0.28137 AU
morning set	710 Mar 02 j 08:14	4°♁58'38		morning rise	712 Aug 29 j 12:11	4°♁05'56	
	710 Mar 22 j 13:10	0°♁			712 Sep 06 j 11:33	30°♁	
				direct	712 Sep 16 j 16:22	27°♁55'23	
superior conj	710 Apr 09 j 17:30	22°♁26'42	0°-57'-28		712 Sep 27 j 05:48	0°♁	
minimum elong	710 Apr 10 j 03:06	22°♁56'17	0°57'08	greatest brilliancy	712 Sep 30 j 23:01	1°♁36'13	-4.6m
max. Earth dist.	710 Apr 11 j 20:46	25°♁04'40	1.73204 AU	asc. node	712 Oct 21 j 01:15	15°♁34'44	
	710 Apr 15 j 20:41	0°♁			712 Nov 05 j 08:17	0°♁	
asc. node	710 May 06 j 06:23	25°♁05'28		morning max el	712 Nov 06 j 05:58	0°♁54'59	46°47'36
	710 May 10 j 06:19	0°♈			712 Dec 02 j 22:54	0°♁	
evening rise	710 May 16 j 22:03	8°♈09'58			712 Dec 28 j 13:20	0°♁	
	710 Jun 03 j 17:39	0°♁			713 Jan 22 j 10:41	0°♁	
	710 Jun 28 j 06:33	0°♁		desc. node	713 Feb 09 j 14:45	22°♁07'31	
	710 Jul 22 j 21:53	0°♁			713 Feb 16 j 01:33	0°♁	
	710 Aug 16 j 17:32	0°♁			713 Mar 12 j 14:10	0°♁	
desc. node	710 Aug 25 j 19:40	10°♁54'18			713 Apr 06 j 02:20	0°♁	
	710 Sep 10 j 20:18	0°♁			713 Apr 30 j 14:34	0°♁	
	710 Oct 06 j 11:27	0°♁		morning set	713 May 11 j 08:14	13°♁08'47	
	710 Nov 02 j 05:47	0°♁			713 May 25 j 02:22	0°♈	
evening max el	710 Nov 13 j 19:29	12°♁09'21	47°22'37	asc. node	713 Jun 02 j 18:14	10°♁37'32	
	710 Dec 02 j 18:56	0°♁		max. Earth dist.	713 Jun 14 j 21:30	25°♁31'49	1.73561 AU
asc. node	710 Dec 16 j 23:02	10°♁16'20					
greatest brilliancy	710 Dec 21 j 21:11	12°♁51'00	-4.7m	superior conj	713 Jun 16 j 18:50	27°♁51'08	0°32'28
retrograde	711 Jan 03 j 20:38	16°♁00'57		minimum elong	713 Jun 16 j 12:45	27°♁32'24	0°32'11
evening set	711 Jan 20 j 11:27	10°♁32'12			713 Jun 18 j 12:46	0°♁	
min. Earth dist.	711 Jan 23 j 17:14	8°♁33'30	0.27347 AU		713 Jul 12 j 21:08	0°♁	
inferior conj	711 Jan 24 j 16:05	7°♁57'51	7°55'12	evening rise	713 Jul 22 j 12:47	11°♁54'59	
minimum elong	711 Jan 24 j 08:01	8°♁10'27	7°54'07		713 Aug 06 j 03:53	0°♁	
morning rise	711 Jan 28 j 04:56	5°♁47'42			713 Aug 30 j 10:11	0°♁	
direct	711 Feb 14 j 06:22	0°♁07'49		desc. node	713 Sep 22 j 07:39	28°♁15'56	
greatest brilliancy	711 Feb 24 j 21:22	2°♁13'44	-4.6m		713 Sep 23 j 17:24	0°♁	
	711 Apr 03 j 11:27	0°♁			713 Oct 18 j 02:45	0°♁	
morning max el	711 Apr 04 j 16:58	1°♁11'16	46°09'07		713 Nov 11 j 16:09	0°♁	
desc. node	711 Apr 07 j 12:25	3°♁56'24			713 Dec 06 j 14:42	0°♁	
	711 May 02 j 09:58	0°♁			714 Jan 01 j 11:22	0°♁	
	711 May 29 j 04:07	0°♁		asc. node	714 Jan 13 j 10:46	13°♁10'38	
	711 Jun 23 j 23:24	0°♈		evening max el	714 Jan 24 j 10:16	24°♁37'27	46°38'17
	711 Jul 19 j 03:54	0°♁			714 Jan 29 j 21:01	0°♁	
asc. node	711 Jul 29 j 15:45	12°♁40'54		greatest brilliancy	714 Mar 01 j 03:49	23°♁16'57	-4.6m
	711 Aug 12 j 20:36	0°♁		retrograde	714 Mar 15 j 13:22	27°♁00'33	
	711 Sep 06 j 03:48	0°♁		evening set	714 Apr 01 j 06:04	21°♁35'38	
morning set	711 Sep 29 j 02:28	28°♁38'39		inferior conj	714 Apr 05 j 20:52	18°♁43'43	6°10'41
	711 Sep 30 j 04:26	0°♁		minimum elong	714 Apr 06 j 06:29	18°♁28'29	6°08'43
	711 Oct 24 j 01:36	0°♁		min. Earth dist.	714 Apr 05 j 21:34	18°♁42'36	0.28728 AU

morning rise	714 Apr 11 j 07:11	15°♃24'00			716 Oct 31 j 22:09	0°♁	
direct	714 Apr 27 j 06:18	10°♃29'52			716 Nov 24 j 22:49	0°♁	
desc. node	714 May 05 j 00:13	11°♃36'21			716 Dec 19 j 02:07	0°♁	
greatest brilliancy	714 May 09 j 13:36	13°♃11'20	-4.5m		717 Jan 12 j 11:24	0°♁	
	714 Jun 03 j 16:23	0°♁			717 Feb 06 j 08:58	0°♃	
morning max el	714 Jun 15 j 00:09	10°♁16'22	45°44'13	asc. node	717 Feb 09 j 22:44	4°♃13'36	
	714 Jul 04 j 13:02	0°♁			717 Mar 04 j 06:27	0°♁	
	714 Jul 31 j 18:05	0°♁			717 Apr 01 j 08:22	0°♁	
asc. node	714 Aug 26 j 03:42	29°♁37'51		evening max el	717 Apr 05 j 06:16	3°♁50'32	45°32'17
	714 Aug 26 j 11:08	0°♁			717 May 09 j 01:24	0°♁	
	714 Sep 20 j 07:02	0°♁		greatest brilliancy	717 May 09 j 11:59	0°♁12'36	-4.5m
	714 Oct 14 j 13:51	0°♁		retrograde	717 May 23 j 23:40	3°♁52'08	
	714 Nov 07 j 13:33	0°♁		desc. node	717 Jun 01 j 12:08	2°♁25'31	
	714 Dec 01 j 10:23	0°♁			717 Jun 07 j 02:19	30°♁	
morning set	714 Dec 13 j 07:50	14°♁57'42		evening set	717 Jun 08 j 01:54	29°♁28'36	
desc. node	714 Dec 15 j 17:09	17°♁57'53		inferior conj	717 Jun 14 j 11:06	25°♁40'15	-2°-58'-42
	714 Dec 25 j 06:56	0°♁		minimum elong	717 Jun 14 j 04:51	25°♁50'00	2°56'59
	715 Jan 18 j 04:36	0°♁		min. Earth dist.	717 Jun 14 j 12:13	25°♁38'31	0.28971 AU
				morning rise	717 Jun 20 j 07:38	22°♁08'39	
superior conj	715 Jan 24 j 04:06	7°♁29'15	-1°-16'-16	direct	717 Jul 06 j 02:57	17°♁22'05	
minimum elong	715 Jan 23 j 18:30	6°♁59'15	1°16'04	greatest brilliancy	717 Jul 20 j 06:31	20°♁50'50	-4.5m
max. Earth dist.	715 Jan 28 j 03:40	12°♁28'12	1.71629 AU		717 Aug 04 j 00:51	0°♁	
	715 Feb 11 j 04:28	0°♁		morning max el	717 Aug 24 j 08:50	17°♁48'05	46°04'54
evening rise	715 Mar 05 j 08:57	27°♁35'18			717 Sep 05 j 09:52	0°♁	
	715 Mar 07 j 07:39	0°♃		asc. node	717 Sep 22 j 15:38	18°♁46'59	
	715 Mar 31 j 15:15	0°♁			717 Oct 02 j 11:43	0°♁	
asc. node	715 Apr 07 j 20:36	8°♁51'38			717 Oct 27 j 19:36	0°♁	
	715 Apr 25 j 04:14	0°♁			717 Nov 21 j 08:21	0°♁	
	715 May 19 j 23:40	0°♁			717 Dec 15 j 12:46	0°♁	
	715 Jun 14 j 03:44	0°♁			718 Jan 08 j 14:29	0°♁	
	715 Jul 09 j 21:17	0°♁		desc. node	718 Jan 12 j 04:55	4°♁29'27	
desc. node	715 Jul 28 j 09:44	20°♁56'19			718 Feb 01 j 16:13	0°♁	
	715 Aug 05 j 15:28	0°♁			718 Feb 25 j 19:13	0°♁	
evening max el	715 Aug 30 j 12:02	25°♁48'49	46°33'48	morning set	718 Feb 27 j 21:29	2°♁36'01	
	715 Sep 03 j 20:42	0°♁			718 Mar 22 j 00:14	0°♃	
greatest brilliancy	715 Oct 08 j 16:42	25°♁12'10	-4.6m				
retrograde	715 Oct 19 j 08:37	27°♁18'51		superior conj	718 Apr 07 j 09:38	20°♃14'35	0°-59'-55
evening set	715 Nov 03 j 03:33	23°♁03'19		minimum elong	718 Apr 07 j 19:21	20°♃44'32	0°59'35
inferior conj	715 Nov 08 j 22:39	19°♁40'41	-2°-27'-50	max. Earth dist.	718 Apr 09 j 16:57	23°♃05'06	1.73162 AU
minimum elong	715 Nov 09 j 04:09	19°♁32'20	2°26'07		718 Apr 15 j 07:38	0°♁	
min. Earth dist.	715 Nov 09 j 06:14	19°♁29'11	0.26458 AU	asc. node	718 May 05 j 08:28	24°♁38'15	
morning rise	715 Nov 15 j 04:18	16°♁02'58			718 May 09 j 17:17	0°♁	
asc. node	715 Nov 18 j 13:09	14°♁25'16		evening rise	718 May 14 j 16:27	6°♁05'34	
direct	715 Nov 29 j 07:55	12°♁02'17			718 Jun 03 j 04:44	0°♁	
greatest brilliancy	715 Dec 11 j 21:19	14°♁58'11	-4.7m		718 Jun 27 j 17:54	0°♁	
	716 Jan 02 j 20:05	0°♁			718 Jul 22 j 09:42	0°♁	
morning max el	716 Jan 18 j 20:28	15°♁07'03	46°51'01		718 Aug 16 j 06:04	0°♁	
	716 Feb 02 j 01:28	0°♁		desc. node	718 Aug 24 j 21:45	10°♁22'00	
	716 Feb 28 j 20:46	0°♁			718 Sep 10 j 09:57	0°♁	
desc. node	716 Mar 09 j 02:46	10°♁41'23			718 Oct 06 j 03:01	0°♁	
	716 Mar 25 j 14:34	0°♁			718 Nov 02 j 01:32	0°♁	
	716 Apr 19 j 21:16	0°♃		evening max el	718 Nov 11 j 11:02	9°♁48'39	47°22'33
	716 May 14 j 21:49	0°♁			718 Dec 03 j 07:52	0°♁	
	716 Jun 08 j 17:33	0°♁		asc. node	718 Dec 16 j 00:58	8°♁42'03	
asc. node	716 Jun 30 j 06:00	26°♁13'03		greatest brilliancy	718 Dec 19 j 12:26	10°♁27'04	-4.7m
	716 Jul 03 j 08:10	0°♁		retrograde	719 Jan 01 j 11:14	13°♁35'33	
morning set	716 Jul 17 j 19:39	17°♁46'45		evening set	719 Jan 17 j 21:33	8°♁12'54	
	716 Jul 27 j 17:21	0°♁		min. Earth dist.	719 Jan 21 j 06:12	6°♁09'58	0.27283 AU
max. Earth dist.	716 Aug 19 j 20:06	28°♁40'19	1.72388 AU	inferior conj	719 Jan 22 j 05:43	5°♁33'21	7°45'14
	716 Aug 20 j 21:42	0°♁		minimum elong	719 Jan 21 j 21:08	5°♁46'42	7°43'59
				morning rise	719 Jan 25 j 21:09	3°♁19'33	
superior conj	716 Aug 23 j 10:46	3°♁10'06	1°24'35		719 Feb 01 j 07:45	30°♁	
minimum elong	716 Aug 23 j 09:57	3°♁07'33	1°24'35	direct	719 Feb 11 j 20:07	27°♁44'34	
	716 Sep 13 j 22:49	0°♁		greatest brilliancy	719 Feb 22 j 09:15	29°♁49'18	-4.6m
evening rise	716 Sep 30 j 10:35	20°♁37'24			719 Feb 22 j 20:27	0°♁	
	716 Oct 07 j 22:30	0°♁		morning max el	719 Apr 02 j 07:22	28°♁53'13	46°10'31
desc. node	716 Oct 19 j 19:37	14°♁51'41			719 Apr 03 j 10:46	0°♁	

desc. node	719 Apr 06 j 14:31	3°♃07'13		721 Nov 11 j 05:04	0°♁	
	719 May 02 j 02:14	0°♃		721 Dec 06 j 04:49	0°♁	
	719 May 28 j 17:48	0°♃		722 Jan 01 j 04:01	0°♃	
	719 Jun 23 j 11:48	0°♃		722 Jan 12 j 12:54	12°♃26'11	
	719 Jul 18 j 15:37	0°♁		722 Jan 21 j 23:53	22°♃16'03	46°40'50
asc. node	719 Jul 28 j 17:54	12°♁12'32		722 Jan 29 j 21:34	0°♃	
	719 Aug 12 j 07:56	0°♁		722 Feb 26 j 21:08	21°♃05'33	-4.6m
	719 Sep 05 j 14:57	0°♃		722 Mar 13 j 05:13	24°♃48'29	
morning set	719 Sep 26 j 16:40	26°♃18'02		722 Mar 30 j 00:57	19°♃19'27	
	719 Sep 29 j 15:33	0°♁		722 Apr 03 j 12:58	16°♃31'47	6°24'37
	719 Oct 23 j 12:45	0°♃		722 Apr 03 j 22:33	16°♃16'35	6°22'44
max. Earth dist.	719 Nov 04 j 15:53	15°♃15'44	1.71109 AU	722 Apr 03 j 13:32	16°♃30'54	0.28704 AU
				722 Apr 08 j 20:24	13°♃16'03	
superior conj	719 Nov 05 j 01:35	15°♃46'15	0°28'39	722 Apr 24 j 21:19	8°♃18'14	
minimum elong	719 Nov 05 j 08:36	16°♃08'21	0°28'19	722 May 04 j 02:15	9°♃50'47	
	719 Nov 16 j 08:55	0°♃		722 May 07 j 04:13	10°♃58'50	-4.5m
desc. node	719 Nov 17 j 07:25	1°♃10'48		722 Jun 03 j 20:20	0°♃	
	719 Dec 10 j 05:25	0°♁		722 Jun 12 j 15:10	8°♃04'03	45°44'24
evening rise	719 Dec 16 j 15:34	8°♁04'09		722 Jul 04 j 06:00	0°♃	
	720 Jan 03 j 03:20	0°♁		722 Jul 31 j 07:52	0°♁	
	720 Jan 27 j 04:16	0°♃		722 Aug 25 j 05:51	29°♁07'18	
	720 Feb 20 j 10:40	0°♃		722 Aug 25 j 23:33	0°♁	
asc. node	720 Mar 09 j 10:45	21°♃58'53		722 Sep 19 j 18:45	0°♃	
	720 Mar 16 j 01:48	0°♃		722 Oct 14 j 01:13	0°♁	
	720 Apr 10 j 06:04	0°♃		722 Nov 07 j 00:45	0°♃	
	720 May 06 j 07:08	0°♁		722 Nov 30 j 21:30	0°♃	
	720 Jun 03 j 00:44	0°♁		722 Dec 10 j 17:33	12°♃22'22	
evening max el	720 Jun 15 j 03:59	12°♁03'06	45°27'41	722 Dec 14 j 19:10	17°♃29'22	
desc. node	720 Jun 29 j 00:00	24°♁25'54		722 Dec 24 j 17:59	0°♁	
	720 Jul 06 j 03:28	0°♃		723 Jan 17 j 15:36	0°♁	
greatest brilliancy	720 Jul 22 j 05:09	9°♃16'48	-4.5m			
retrograde	720 Aug 02 j 19:25	11°♃39'15		723 Jan 21 j 14:41	4°♁57'47	-1°-14'-24
evening set	720 Aug 20 j 19:06	5°♃40'37		723 Jan 21 j 04:29	4°♁25'52	1°14'10
inferior conj	720 Aug 23 j 23:47	3°♃43'49	-8°-44'-58	723 Jan 25 j 09:23	9°♁41'38	1.71579 AU
minimum elong	720 Aug 23 j 22:51	3°♃45'15	8°44'58	723 Feb 10 j 15:24	0°♃	
min. Earth dist.	720 Aug 24 j 14:25	3°♃21'13	0.28192 AU	723 Mar 02 j 21:48	25°♃12'31	
morning rise	720 Aug 27 j 02:25	1°♃49'39		723 Mar 06 j 18:34	0°♃	
	720 Aug 30 j 06:45	30°♁		723 Mar 31 j 02:14	0°♃	
direct	720 Sep 14 j 07:14	25°♁38'00		723 Apr 06 j 22:38	8°♃24'04	
greatest brilliancy	720 Sep 28 j 14:20	29°♁18'15	-4.6m	723 Apr 24 j 15:26	0°♃	
	720 Sep 29 j 23:41	0°♃		723 May 19 j 11:20	0°♁	
asc. node	720 Oct 20 j 03:21	14°♃31'35		723 Jun 13 j 16:13	0°♁	
morning max el	720 Nov 03 j 19:02	28°♃29'33	46°46'27	723 Jul 09 j 11:17	0°♃	
	720 Nov 05 j 06:28	0°♁		723 Jul 27 j 11:55	20°♃18'32	
	720 Dec 02 j 15:10	0°♃		723 Aug 05 j 08:35	0°♁	
	720 Dec 28 j 03:21	0°♃		723 Aug 28 j 00:42	23°♁25'28	46°31'21
	721 Jan 21 j 23:31	0°♁		723 Sep 03 j 23:02	0°♃	
desc. node	721 Feb 08 j 16:57	21°♁36'50		723 Oct 06 j 05:02	22°♃44'52	-4.6m
	721 Feb 15 j 13:38	0°♁		723 Oct 16 j 20:56	24°♃51'29	
	721 Mar 12 j 01:45	0°♃		723 Oct 31 j 17:52	20°♃32'33	
	721 Apr 05 j 13:34	0°♃		723 Nov 06 j 10:51	17°♃13'01	-2°-51'-10
	721 Apr 30 j 01:33	0°♃		723 Nov 06 j 17:09	17°♃03'28	2°49'14
morning set	721 May 09 j 02:05	11°♃03'03		723 Nov 06 j 19:44	16°♃59'33	0.26491 AU
	721 May 24 j 13:12	0°♃		723 Nov 12 j 15:59	13°♃36'22	
asc. node	721 Jun 01 j 20:14	10°♃10'30		723 Nov 17 j 15:06	11°♃19'42	
max. Earth dist.	721 Jun 12 j 16:36	23°♃29'58	1.73575 AU	723 Nov 26 j 20:44	9°♃33'51	
				723 Dec 09 j 12:45	12°♃33'16	-4.7m
superior conj	721 Jun 14 j 13:25	25°♃47'38	0°29'33	724 Jan 03 j 03:44	0°♃	
minimum elong	721 Jun 14 j 07:47	25°♃30'20	0°29'18	724 Jan 16 j 10:50	12°♃44'21	46°51'51
	721 Jun 17 j 23:31	0°♁		724 Feb 01 j 20:00	0°♁	
	721 Jul 12 j 07:57	0°♁		724 Feb 28 j 11:35	0°♁	
evening rise	721 Jul 20 j 07:19	9°♁50'27		724 Mar 08 j 04:51	10°♁06'32	
	721 Aug 05 j 14:51	0°♃		724 Mar 25 j 03:38	0°♃	
	721 Aug 29 j 21:27	0°♁		724 Apr 19 j 09:18	0°♃	
desc. node	721 Sep 21 j 09:47	27°♁46'41		724 May 14 j 09:12	0°♃	
	721 Sep 23 j 05:04	0°♃		724 Jun 08 j 04:31	0°♃	
	721 Oct 17 j 14:55	0°♃		724 Jun 29 j 08:06	25°♃46'33	
				asc. node		

	724 Jul 02 j 18:55	0°☿		retrograde	726 Dec 30 j 01:32	11°≈11°10	
morning set	724 Jul 15 j 13:15	15°☿40°14		evening set	727 Jan 15 j 07:41	5°≈55°02	
	724 Jul 27 j 04:02	0°♁		min. Earth dist.	727 Jan 18 j 19:33	3°≈47°20	0.27215 AU
max. Earth dist.	724 Aug 17 j 13:30	26°♁31°48	1.72440 AU	inferior conj	727 Jan 19 j 19:22	3°≈10°11	7°34'29
	724 Aug 20 j 08:25	0°♃		minimum elong	727 Jan 19 j 10:20	3°≈24°16	7°33'03
				morning rise	727 Jan 23 j 13:27	0°≈52°30	
superior conj	724 Aug 21 j 03:24	0°♃59°05	1°24'22		727 Jan 25 j 01:58	30°☾	
minimum elong	724 Aug 21 j 01:50	0°♃54°13	1°24'21	direct	727 Feb 09 j 09:35	25°☾22°49	
	724 Sep 13 j 09:37	0°♄		greatest brilliancy	727 Feb 19 j 21:18	27°☾26°17	-4.6m
evening rise	724 Sep 28 j 00:03	18°♄15°20			727 Feb 25 j 12:57	0°≈	
	724 Oct 07 j 09:26	0°♅		morning max el	727 Mar 30 j 20:47	26°≈33°52	46°11'53
desc. node	724 Oct 18 j 21:37	14°♅23°25			727 Apr 03 j 08:35	0°♆	
	724 Oct 31 j 09:16	0°♇		desc. node	727 Apr 05 j 16:33	2°♆20°00	
	724 Nov 24 j 10:10	0°♁			727 May 01 j 17:48	0°♂	
	724 Dec 18 j 13:46	0°≈			727 May 28 j 07:01	0°♄	
	725 Jan 11 j 23:33	0°♆			727 Jun 22 j 23:50	0°♅	
	725 Feb 05 j 22:02	0°♂			727 Jul 18 j 02:59	0°☿	
asc. node	725 Feb 09 j 00:50	3°♂40°45		asc. node	727 Jul 27 j 20:01	11°☿45°02	
	725 Mar 03 j 21:31	0°♄			727 Aug 11 j 18:55	0°♁	
	725 Apr 01 j 05:05	0°♅			727 Sep 05 j 01:47	0°♃	
evening max el	725 Apr 02 j 22:56	1°♅42°00	45°33'52	morning set	727 Sep 24 j 06:55	23°♃58°32	
greatest brilliancy	725 May 07 j 03:34	28°♅03°47	-4.5m		727 Sep 29 j 02:21	0°♄	
	725 May 11 j 21:39	0°☿			727 Oct 22 j 23:37	0°♅	
retrograde	725 May 21 j 16:34	1°☿44°11		max. Earth dist.	727 Nov 01 j 19:07	12°♅20°41	1.71132 AU
	725 May 31 j 00:49	30°♅					
desc. node	725 May 31 j 14:09	29°♅47°22		superior conj	727 Nov 02 j 12:35	13°♅15°37	0°32'17
evening set	725 Jun 05 j 17:40	27°♅21°34		minimum elong	727 Nov 02 j 20:19	13°♅39°58	0°31'55
inferior conj	725 Jun 12 j 03:27	23°♅31°53	-2°-40'00		727 Nov 15 j 19:51	0°♇	
minimum elong	725 Jun 11 j 21:47	23°♅40°44	2°38'26	desc. node	727 Nov 16 j 09:26	0°♇42°46	
min. Earth dist.	725 Jun 12 j 04:10	23°♅30°47	0.28974 AU		727 Dec 09 j 16:24	0°☾	
morning rise	725 Jun 18 j 01:53	19°♅57°45		evening rise	727 Dec 14 j 01:16	5°☾29°18	
direct	725 Jul 03 j 19:53	15°♅13°51			728 Jan 02 j 14:22	0°≈	
greatest brilliancy	725 Jul 17 j 21:34	18°♅41°00	-4.5m		728 Jan 26 j 15:23	0°♆	
	725 Aug 04 j 11:51	0°☿			728 Feb 19 j 21:59	0°♂	
morning max el	725 Aug 22 j 01:03	15°☿37°55	46°03'26	asc. node	728 Mar 08 j 12:45	21°♂29°51	
	725 Sep 05 j 03:55	0°♁			728 Mar 15 j 13:32	0°♄	
asc. node	725 Sep 21 j 17:38	18°♁09°34			728 Apr 09 j 18:39	0°♅	
	725 Oct 02 j 02:02	0°♃			728 May 05 j 21:32	0°☿	
	725 Oct 27 j 08:23	0°♄			728 Jun 02 j 19:40	0°♁	
	725 Nov 20 j 20:22	0°♅		evening max el	728 Jun 12 j 17:50	9°♁47°29	45°26'26
	725 Dec 15 j 00:20	0°♆		desc. node	728 Jun 28 j 02:12	23°♁24°53	
	726 Jan 08 j 01:44	0°♇			728 Jul 06 j 22:09	0°♃	
desc. node	726 Jan 11 j 07:07	4°☾01°23		greatest brilliancy	728 Jul 19 j 17:37	7°♃00°24	-4.5m
	726 Feb 01 j 03:13	0°≈		retrograde	728 Jul 31 j 09:09	9°♃24°40	
morning set	726 Feb 25 j 10:46	0°♆14°43		evening set	728 Aug 18 j 08:02	3°♃28°00	
	726 Feb 25 j 06:01	0°♆		inferior conj	728 Aug 21 j 14:34	1°♃28°31	-8°-42'-59
	726 Mar 21 j 10:54	0°♂		minimum elong	728 Aug 21 j 12:46	1°♃31°17	8°42'58
				min. Earth dist.	728 Aug 22 j 04:49	1°♃06°31	0.28247 AU
superior conj	726 Apr 05 j 01:35	18°♂02°56	-1°-2'-16		728 Aug 24 j 00:09	30°♁	
minimum elong	726 Apr 05 j 11:21	18°♂33°04	1°01'58	morning rise	728 Aug 24 j 17:17	29°♁34°07	
max. Earth dist.	726 Apr 07 j 13:48	21°♂08°38	1.73122 AU	direct	728 Sep 11 j 21:59	23°♁21°44	
	726 Apr 14 j 18:15	0°♄		greatest brilliancy	728 Sep 26 j 06:45	27°♁02°52	-4.6m
asc. node	726 May 04 j 10:26	24°♄11°41			728 Oct 01 j 15:36	0°♃	
	726 May 09 j 03:54	0°♅		asc. node	728 Oct 19 j 05:22	13°♃30°36	
evening rise	726 May 12 j 10:30	4°♅01°09		morning max el	728 Nov 01 j 08:26	26°♃05°47	46°45'16
	726 Jun 02 j 15:29	0°☿			728 Nov 05 j 03:35	0°♄	
	726 Jun 27 j 04:55	0°♁			728 Dec 02 j 06:56	0°♅	
	726 Jul 21 j 21:11	0°♃			728 Dec 27 j 17:03	0°♆	
	726 Aug 15 j 18:18	0°♄			729 Jan 21 j 12:07	0°☾	
desc. node	726 Aug 23 j 23:50	9°♄50°41		desc. node	729 Feb 07 j 18:56	21°☾05°59	
	726 Sep 09 j 23:23	0°♅			729 Feb 15 j 01:32	0°≈	
	726 Oct 05 j 18:30	0°♆			729 Mar 11 j 13:09	0°♆	
	726 Nov 01 j 21:32	0°☾			729 Apr 05 j 00:36	0°♂	
evening max el	726 Nov 09 j 02:26	7°☾28°29	47°22'20		729 Apr 29 j 12:20	0°♄	
	726 Dec 04 j 00:30	0°≈		morning set	729 May 06 j 20:07	8°♄58°29	
asc. node	726 Dec 15 j 03:08	7°≈05°45			729 May 23 j 23:50	0°♅	
greatest brilliancy	726 Dec 17 j 04:49	8°≈05°37	-4.7m	asc. node	729 May 31 j 22:22	9°♅44°27	

max. Earth dist.	729 Jun 10 j 13:06	21°♄32'53	1.73593 AU	direct	731 Nov 24 j 09:52	7°♍04'27	
				greatest brilliancy	731 Dec 07 j 03:13	10°♍06'06	-4.7m
superior conj	729 Jun 12 j 08:10	23°♄45'13	0°26'38		732 Jan 03 j 09:32	0°♁	
minimum elong	729 Jun 12 j 03:02	23°♄29'26	0°26'23	morning max el	732 Jan 14 j 01:16	10°♁20'59	46°52'36
	729 Jun 17 j 10:08	0°♄			732 Feb 01 j 14:22	0°♁	
	729 Jul 11 j 18:39	0°♄			732 Feb 28 j 02:28	0°♁	
evening rise	729 Jul 18 j 02:02	7°♄46'56		desc. node	732 Mar 07 j 06:50	9°♁30'56	
	729 Aug 05 j 01:45	0°♄			732 Mar 24 j 16:51	0°♁	
	729 Aug 29 j 08:39	0°♄			732 Apr 18 j 21:32	0°♁	
desc. node	729 Sep 20 j 11:44	27°♄17'06			732 May 13 j 20:48	0°♁	
	729 Sep 22 j 16:40	0°♄			732 Jun 07 j 15:43	0°♄	
	729 Oct 17 j 03:04	0°♁		asc. node	732 Jun 28 j 10:14	25°♄19'25	
	729 Nov 10 j 17:59	0°♁			732 Jul 02 j 05:53	0°♄	
	729 Dec 05 j 19:03	0°♁		morning set	732 Jul 13 j 07:13	13°♄34'23	
	729 Dec 31 j 20:59	0°♁			732 Jul 26 j 14:54	0°♄	
asc. node	730 Jan 11 j 15:01	11°♁41'07		max. Earth dist.	732 Aug 15 j 06:25	24°♄21'22	1.72493 AU
evening max el	730 Jan 19 j 13:49	19°♁55'20	46°43'24				
	730 Jan 29 j 23:24	0°♁		superior conj	732 Aug 18 j 20:26	28°♄48'47	1°24'00
greatest brilliancy	730 Feb 24 j 13:43	18°♁53'06	-4.6m	minimum elong	732 Aug 18 j 18:11	28°♄41'47	1°24'00
retrograde	730 Mar 10 j 21:30	22°♁36'35			732 Aug 19 j 19:19	0°♄	
evening set	730 Mar 27 j 19:49	17°♁03'12			732 Sep 12 j 20:38	0°♄	
inferior conj	730 Apr 01 j 05:05	14°♁19'53	6°37'56	evening rise	732 Sep 25 j 13:47	15°♄53'23	
minimum elong	730 Apr 01 j 14:35	14°♁04'51	6°36'10		732 Oct 06 j 20:39	0°♄	
min. Earth dist.	730 Apr 01 j 05:17	14°♁19'35	0.28676 AU	desc. node	732 Oct 17 j 23:42	13°♄54'32	
morning rise	730 Apr 06 j 09:33	11°♁08'34			732 Oct 30 j 20:43	0°♁	
direct	730 Apr 22 j 12:23	6°♁06'38			732 Nov 23 j 21:53	0°♁	
desc. node	730 May 03 j 04:14	8°♁09'15			732 Dec 18 j 01:49	0°♁	
greatest brilliancy	730 May 04 j 19:05	8°♁47'00	-4.5m		733 Jan 11 j 12:06	0°♁	
	730 Jun 03 j 22:31	0°♁			733 Feb 05 j 11:34	0°♁	
morning max el	730 Jun 10 j 06:55	5°♁53'47	45°44'41	asc. node	733 Feb 08 j 02:48	3°♁06'17	
	730 Jul 03 j 22:30	0°♄			733 Mar 03 j 13:12	0°♁	
	730 Jul 30 j 21:29	0°♄		evening max el	733 Mar 31 j 15:31	29°♁32'03	45°35'28
asc. node	730 Aug 24 j 07:49	28°♄36'14			733 Apr 01 j 03:04	0°♄	
	730 Aug 25 j 11:54	0°♄		greatest brilliancy	733 May 04 j 20:07	25°♄55'01	-4.5m
	730 Sep 19 j 06:30	0°♄		retrograde	733 May 19 j 09:04	29°♄35'00	
	730 Oct 13 j 12:39	0°♄		desc. node	733 May 30 j 16:21	27°♄03'39	
	730 Nov 06 j 12:01	0°♄		evening set	733 Jun 03 j 09:37	25°♄13'19	
	730 Nov 30 j 08:40	0°♁		inferior conj	733 Jun 09 j 19:49	21°♄22'36	-2°-21'-7
morning set	730 Dec 08 j 03:20	9°♁47'05		minimum elong	733 Jun 09 j 14:46	21°♄30'29	2°19'42
desc. node	730 Dec 13 j 21:19	17°♁01'05		min. Earth dist.	733 Jun 09 j 20:27	21°♄21'36	0.28972 AU
	730 Dec 24 j 05:05	0°♁		morning rise	733 Jun 15 j 19:58	17°♄45'50	
	731 Jan 17 j 02:40	0°♁		direct	733 Jul 01 j 12:38	13°♄04'45	
				greatest brilliancy	733 Jul 15 j 11:30	16°♄28'50	-4.5m
superior conj	731 Jan 19 j 01:03	2°♁25'18	-1°-12'-23		733 Aug 04 j 20:19	0°♄	
minimum elong	731 Jan 18 j 14:19	1°♁51'42	1°12'07	morning max el	733 Aug 19 j 16:28	13°♄25'02	46°02'07
max. Earth dist.	731 Jan 22 j 15:23	6°♁55'39	1.71536 AU		733 Sep 04 j 21:50	0°♄	
	731 Feb 10 j 02:28	0°♁		asc. node	733 Sep 20 j 19:42	17°♄31'52	
evening rise	731 Feb 28 j 10:33	22°♁49'00			733 Oct 01 j 16:27	0°♄	
	731 Mar 06 j 05:36	0°♁			733 Oct 26 j 21:23	0°♄	
	731 Mar 30 j 13:20	0°♁			733 Nov 20 j 08:41	0°♄	
asc. node	731 Apr 06 j 00:40	7°♁56'07			733 Dec 14 j 12:16	0°♁	
	731 Apr 24 j 02:44	0°♄			734 Jan 07 j 13:25	0°♁	
	731 May 18 j 23:06	0°♄		desc. node	734 Jan 10 j 09:10	3°♁31'27	
	731 Jun 13 j 04:51	0°♄			734 Jan 31 j 14:40	0°♁	
	731 Jul 09 j 01:30	0°♄		morning set	734 Feb 22 j 23:26	27°♁50'05	
desc. node	731 Jul 26 j 13:55	19°♄39'38			734 Feb 24 j 17:16	0°♁	
	731 Aug 05 j 02:11	0°♄			734 Mar 20 j 22:00	0°♁	
evening max el	731 Aug 25 j 14:16	21°♄04'01	46°28'41				
	731 Sep 04 j 03:14	0°♄		superior conj	734 Apr 02 j 17:05	15°♁48'33	-1°-4'-34
greatest brilliancy	731 Oct 03 j 16:54	20°♄16'25	-4.6m	minimum elong	734 Apr 03 j 02:51	16°♁18'40	1°04'17
retrograde	731 Oct 14 j 09:28	22°♄23'00		max. Earth dist.	734 Apr 05 j 10:46	19°♁11'10	1.73078 AU
evening set	731 Oct 29 j 08:16	18°♄00'41			734 Apr 14 j 05:17	0°♁	
inferior conj	731 Nov 03 j 22:55	14°♄44'11	-3°-14'-8	asc. node	734 May 03 j 12:36	23°♁44'23	
minimum elong	731 Nov 04 j 05:58	14°♄33'31	3°12'01		734 May 08 j 14:58	0°♄	
min. Earth dist.	731 Nov 04 j 08:52	14°♄29'08	0.26527 AU	evening rise	734 May 10 j 04:16	1°♄54'26	
morning rise	731 Nov 10 j 03:17	11°♄08'55			734 Jun 02 j 02:40	0°♄	
asc. node	731 Nov 16 j 17:15	8°♄18'11			734 Jun 26 j 16:23	0°♄	

	734 Jul 21 j 09:06	0°♍							736 Dec 27 j 06:49	0°♁
	734 Aug 15 j 06:57	0°♊							737 Jan 21 j 00:51	0°♁
desc. node	734 Aug 23 j 01:50	9°♊18'01						desc. node	737 Feb 06 j 20:58	20°♁34'39
	734 Sep 09 j 13:14	0°♌							737 Feb 14 j 13:37	0°♌
	734 Oct 05 j 10:32	0°♁							737 Mar 11 j 00:48	0°♁
	734 Nov 01 j 18:34	0°♁							737 Apr 04 j 11:57	0°♁
evening max el	734 Nov 06 j 16:41	5°♁04'14	47°21'45						737 Apr 28 j 23:26	0°♁
	734 Dec 04 j 23:50	0°♌						morning set	737 May 04 j 13:39	6°♁51'15
asc. node	734 Dec 14 j 05:13	5°♌23'50							737 May 23 j 10:46	0°♊
greatest brilliancy	734 Dec 14 j 21:37	5°♌42'40	-4.7m					asc. node	737 May 31 j 00:26	9°♊17'17
retrograde	734 Dec 27 j 15:04	8°♌44'25						max. Earth dist.	737 Jun 08 j 10:47	19°♊38'35 1.73608 AU
evening set	735 Jan 12 j 17:33	3°♌34'52								
min. Earth dist.	735 Jan 16 j 09:10	1°♌21'41	0.27152 AU					superior conj	737 Jun 10 j 02:28	21°♊40'27 0°23'38
inferior conj	735 Jan 17 j 08:48	0°♌44'47	7°22'43					minimum elong	737 Jun 09 j 21:50	21°♊26'15 0°23'25
minimum elong	735 Jan 16 j 23:23	0°♌59'29	7°21'06						737 Jun 16 j 21:02	0°♁
	735 Jan 18 j 13:35	30°♁							737 Jul 11 j 05:38	0°♊
morning rise	735 Jan 21 j 05:41	28°♁22'53						evening rise	737 Jul 15 j 20:33	5°♊42'01
direct	735 Feb 06 j 22:16	22°♁58'34							737 Aug 04 j 12:57	0°♍
greatest brilliancy	735 Feb 17 j 10:21	25°♁01'57	-4.6m						737 Aug 28 j 20:08	0°♊
	735 Feb 27 j 06:11	0°♌						desc. node	737 Sep 19 j 13:50	26°♊47'10
morning max el	735 Mar 28 j 09:20	24°♌10'26	46°13'21						737 Sep 22 j 04:33	0°♌
	735 Apr 03 j 06:18	0°♁							737 Oct 16 j 15:27	0°♁
desc. node	735 Apr 04 j 18:39	1°♁32'01							737 Nov 10 j 07:08	0°♁
	735 May 01 j 09:41	0°♁							737 Dec 05 j 09:30	0°♌
	735 May 27 j 20:35	0°♁							737 Dec 31 j 14:19	0°♁
	735 Jun 22 j 12:14	0°♊						asc. node	738 Jan 10 j 16:57	10°♁54'50
	735 Jul 17 j 14:44	0°♁						evening max el	738 Jan 17 j 04:34	17°♁36'35 46°45'53
asc. node	735 Jul 26 j 21:57	11°♁15'44							738 Jan 30 j 02:49	0°♁
	735 Aug 11 j 06:18	0°♊						greatest brilliancy	738 Feb 22 j 05:31	16°♁39'18 -4.6m
	735 Sep 04 j 12:58	0°♍						retrograde	738 Mar 08 j 14:12	20°♁24'06
morning set	735 Sep 21 j 21:36	21°♍39'23						evening set	738 Mar 25 j 14:39	14°♁46'12
	735 Sep 28 j 13:29	0°♊						inferior conj	738 Mar 29 j 21:09	12°♁07'10 6°50'46
	735 Oct 22 j 10:46	0°♌						minimum elong	738 Mar 30 j 06:30	11°♁52'22 6°49'06
max. Earth dist.	735 Oct 30 j 01:03	9°♌33'19	1.71157 AU					min. Earth dist.	738 Mar 29 j 20:36	12°♁08'01 0.28654 AU
								morning rise	738 Apr 03 j 22:34	9°♁00'33
superior conj	735 Oct 31 j 00:10	10°♌46'01	0°35'46					direct	738 Apr 20 j 03:51	3°♁54'13
minimum elong	735 Oct 31 j 08:33	11°♌12'22	0°35'24					greatest brilliancy	738 May 02 j 09:39	6°♁34'06 -4.5m
	735 Nov 15 j 07:03	0°♁						desc. node	738 May 02 j 06:27	6°♁30'49
desc. node	735 Nov 15 j 11:37	0°♁14'22							738 Jun 03 j 23:39	0°♁
	735 Dec 09 j 03:41	0°♁						morning max el	738 Jun 07 j 23:34	3°♁44'56 45°44'54
evening rise	735 Dec 11 j 11:17	2°♁54'36							738 Jul 03 j 14:58	0°♊
	736 Jan 02 j 01:44	0°♌							738 Jul 30 j 11:11	0°♁
	736 Jan 26 j 02:54	0°♁						asc. node	738 Aug 23 j 09:56	28°♁05'17
	736 Feb 19 j 09:45	0°♁							738 Aug 25 j 00:21	0°♊
asc. node	736 Mar 07 j 14:48	20°♁59'30							738 Sep 18 j 18:19	0°♍
	736 Mar 15 j 01:47	0°♁							738 Oct 13 j 00:10	0°♊
	736 Apr 09 j 07:48	0°♊							738 Nov 05 j 23:22	0°♌
	736 May 05 j 12:37	0°♁							738 Nov 29 j 19:54	0°♁
	736 Jun 02 j 15:43	0°♊						morning set	738 Dec 05 j 13:27	7°♁12'42
evening max el	736 Jun 10 j 07:26	7°♊30'03	45°25'24					desc. node	738 Dec 12 j 23:20	16°♁32'15
desc. node	736 Jun 27 j 04:11	22°♊20'31							738 Dec 23 j 16:14	0°♁
	736 Jul 08 j 00:29	0°♍								
greatest brilliancy	736 Jul 17 j 04:56	4°♍41'28	-4.5m					superior conj	739 Jan 16 j 11:39	29°♁53'28 -1°-10'-13
retrograde	736 Jul 28 j 23:16	7°♍08'56						minimum elong	739 Jan 16 j 00:27	29°♁18'24 1°09'54
evening set	736 Aug 15 j 20:31	1°♍14'26							739 Jan 16 j 13:44	0°♌
	736 Aug 17 j 21:56	30°♊						max. Earth dist.	739 Jan 20 j 00:17	4°♌18'41 1.71490 AU
inferior conj	736 Aug 19 j 05:13	29°♊11'53	-8°-40'-19						739 Feb 09 j 13:27	0°♁
minimum elong	736 Aug 19 j 02:35	29°♊15'57	8°40'14					evening rise	739 Feb 25 j 23:34	20°♁26'28
min. Earth dist.	736 Aug 19 j 18:59	28°♊50'40	0.28298 AU						739 Mar 05 j 16:35	0°♁
morning rise	736 Aug 22 j 08:24	27°♊16'52							739 Mar 30 j 00:25	0°♁
direct	736 Sep 09 j 12:41	21°♊04'04						asc. node	739 Apr 05 j 02:49	7°♁28'36
greatest brilliancy	736 Sep 23 j 23:37	24°♊47'13	-4.6m						739 Apr 23 j 14:05	0°♊
	736 Oct 02 j 19:56	0°♍							739 May 18 j 10:57	0°♁
asc. node	736 Oct 18 j 07:29	12°♍30'21							739 Jun 12 j 17:37	0°♊
morning max el	736 Oct 29 j 22:48	23°♍43'51	46°44'21						739 Jul 08 j 15:57	0°♍
	736 Nov 05 j 00:17	0°♊						desc. node	739 Jul 25 j 15:57	19°♍00'15
	736 Dec 01 j 22:40	0°♌							739 Aug 04 j 20:16	0°♊

evening max el	739 Aug 23 j 04:28	18° Ω 44'11	46°26'01	superior conj	742 Mar 31 j 08:49	13° Υ 35'52	-1°-6'-46
	739 Sep 04 j 09:24	0° \mathbb{M}		minimum elong	742 Mar 31 j 18:29	14° Υ 05'44	1°06'29
greatest brilliancy	739 Oct 01 j 05:04	17° \mathbb{M} 48'33	-4.6m	max. Earth dist.	742 Apr 03 j 06:33	17° Υ 11'05	1.73026 AU
retrograde	739 Oct 11 j 21:46	19° \mathbb{M} 54'25			742 Apr 13 j 15:57	0° \mathcal{C}	
evening set	739 Oct 26 j 22:51	15° \mathbb{M} 28'53		asc. node	742 May 02 j 14:40	23° \mathcal{C} 18'02	
inferior conj	739 Nov 01 j 10:58	12° \mathbb{M} 15'30	-3°-36'-46	evening rise	742 May 07 j 22:16	29° \mathcal{C} 49'37	
minimum elong	739 Nov 01 j 18:42	12° \mathbb{M} 03'46	3°34'29		742 May 08 j 01:39	0° \mathbb{I}	
min. Earth dist.	739 Nov 01 j 21:55	11° \mathbb{M} 58'54	0.26563 AU		742 Jun 01 j 13:28	0° \mathcal{E}	
morning rise	739 Nov 07 j 14:14	8° \mathbb{M} 41'42			742 Jun 26 j 03:28	0° Ω	
asc. node	739 Nov 15 j 19:21	5° \mathbb{M} 22'26			742 Jul 20 j 20:43	0° \mathbb{N}	
direct	739 Nov 21 j 23:03	4° \mathbb{M} 35'19			742 Aug 14 j 19:23	0° \mathcal{A}	
greatest brilliancy	739 Dec 04 j 16:55	7° \mathbb{M} 37'56	-4.7m	desc. node	742 Aug 22 j 03:57	8° \mathcal{A} 46'23	
	740 Jan 03 j 13:23	0° \mathcal{A}			742 Sep 09 j 02:58	0° \mathbb{M}	
morning max el	740 Jan 11 j 15:20	7° \mathcal{A} 56'53	46°53'26		742 Oct 05 j 02:33	0° \mathcal{A}	
	740 Feb 01 j 08:10	0° \mathcal{E}			742 Nov 01 j 16:02	0° \mathcal{E}	
	740 Feb 27 j 17:00	0° \approx		evening max el	742 Nov 04 j 06:06	2° \mathcal{E} 38'40	47°21'12
desc. node	740 Mar 06 j 08:59	8° \approx 56'34			742 Dec 06 j 07:29	0° \approx	
	740 Mar 24 j 05:45	0° \mathcal{H}		greatest brilliancy	742 Dec 12 j 14:12	3° \approx 20'10	-4.7m
	740 Apr 18 j 09:29	0° Υ		asc. node	742 Dec 13 j 07:10	3° \approx 38'42	
	740 May 13 j 08:10	0° \mathcal{C}		retrograde	742 Dec 25 j 04:20	6° \approx 18'39	
	740 Jun 07 j 02:44	0° \mathbb{I}		evening set	743 Jan 10 j 03:25	1° \approx 15'19	
asc. node	740 Jun 27 j 12:12	24° \mathbb{I} 52'09			743 Jan 12 j 05:57	30° \mathcal{E}	
	740 Jul 01 j 16:44	0° \mathcal{E}		min. Earth dist.	743 Jan 13 j 23:06	28° \mathcal{E} 56'27	0.27089 AU
morning set	740 Jul 11 j 01:08	11° \mathcal{E} 28'41		inferior conj	743 Jan 14 j 22:14	28° \mathcal{E} 20'22	7°10'02
	740 Jul 26 j 01:42	0° Ω		minimum elong	743 Jan 14 j 12:30	28° \mathcal{E} 35'33	7°08'14
max. Earth dist.	740 Aug 12 j 21:02	22° Ω 04'08	1.72545 AU	morning rise	743 Jan 18 j 22:00	25° \mathcal{E} 54'10	
				direct	743 Feb 04 j 10:34	20° \mathcal{E} 35'00	
superior conj	740 Aug 16 j 13:25	26° Ω 38'45	1°23'32	greatest brilliancy	743 Feb 15 j 00:24	22° \mathcal{E} 39'36	-4.6m
minimum elong	740 Aug 16 j 10:29	26° Ω 29'39	1°23'31		743 Feb 28 j 10:17	0° \approx	
	740 Aug 19 j 06:08	0° \mathbb{N}		morning max el	743 Mar 25 j 22:02	21° \approx 48'19	46°14'59
	740 Sep 12 j 07:33	0° \mathcal{A}			743 Apr 03 j 02:48	0° \mathcal{H}	
evening rise	740 Sep 23 j 03:27	13° \mathcal{A} 31'43		desc. node	743 Apr 03 j 20:44	0° \mathcal{H} 45'55	
	740 Oct 06 j 07:44	0° \mathbb{M}			743 May 01 j 00:52	0° Υ	
desc. node	740 Oct 17 j 01:49	13° \mathbb{M} 26'12			743 May 27 j 09:37	0° \mathcal{C}	
	740 Oct 30 j 08:02	0° \mathcal{A}			743 Jun 22 j 00:08	0° \mathbb{I}	
	740 Nov 23 j 09:28	0° \mathcal{E}			743 Jul 17 j 02:00	0° \mathcal{E}	
	740 Dec 17 j 13:43	0° \approx		asc. node	743 Jul 26 j 00:07	10° \mathcal{E} 48'31	
	741 Jan 11 j 00:30	0° \mathcal{H}			743 Aug 10 j 17:14	0° Ω	
	741 Feb 05 j 00:56	0° Υ			743 Sep 03 j 23:47	0° \mathbb{N}	
asc. node	741 Feb 07 j 04:56	2° Υ 32'54		morning set	743 Sep 19 j 12:21	19° \mathbb{N} 21'33	
	741 Mar 03 j 04:46	0° \mathcal{C}			743 Sep 28 j 00:18	0° \mathcal{A}	
evening max el	741 Mar 29 j 07:40	27° \mathcal{C} 22'06	45°37'08		743 Oct 21 j 21:39	0° \mathbb{M}	
	741 Apr 01 j 01:25	0° \mathbb{I}		max. Earth dist.	743 Oct 27 j 08:29	6° \mathbb{M} 51'28	1.71187 AU
greatest brilliancy	741 May 02 j 12:47	23° \mathbb{I} 47'48	-4.5m				
retrograde	741 May 17 j 01:13	27° \mathbb{I} 27'35		superior conj	743 Oct 28 j 11:36	8° \mathbb{M} 16'45	0°39'14
desc. node	741 May 29 j 18:19	24° \mathbb{I} 18'06		minimum elong	743 Oct 28 j 20:34	8° \mathbb{M} 44'55	0°38'50
evening set	741 Jun 01 j 01:58	23° \mathbb{I} 06'30			743 Nov 14 j 18:00	0° \mathcal{A}	
inferior conj	741 Jun 07 j 12:27	19° \mathbb{I} 15'06	-2°-2'-9	desc. node	743 Nov 14 j 13:37	29° \mathbb{M} 46'14	
minimum elong	741 Jun 07 j 08:03	19° \mathbb{I} 21'59	2°00'55		743 Dec 08 j 14:40	0° \mathcal{E}	
min. Earth dist.	741 Jun 07 j 13:19	19° \mathbb{I} 13'45	0.28975 AU	evening rise	743 Dec 08 j 21:01	0° \mathcal{E} 19'55	
morning rise	741 Jun 13 j 14:09	15° \mathbb{I} 35'43			744 Jan 01 j 12:48	0° \approx	
direct	741 Jun 29 j 05:18	10° \mathbb{I} 57'19			744 Jan 25 j 14:06	0° \mathcal{H}	
greatest brilliancy	741 Jul 13 j 01:56	14° \mathbb{I} 18'25	-4.5m		744 Feb 18 j 21:12	0° Υ	
	741 Aug 05 j 02:00	0° \mathcal{E}		asc. node	744 Mar 06 j 16:57	20° Υ 30'32	
morning max el	741 Aug 17 j 07:23	11° \mathcal{E} 11'46	46°00'43		744 Mar 14 j 13:42	0° \mathcal{C}	
	741 Sep 04 j 15:06	0° Ω			744 Apr 08 j 20:38	0° \mathbb{I}	
asc. node	741 Sep 19 j 21:51	16° Ω 55'17			744 May 05 j 03:25	0° \mathcal{E}	
	741 Oct 01 j 06:31	0° \mathbb{N}			744 Jun 02 j 11:48	0° Ω	
	741 Oct 26 j 10:06	0° \mathcal{A}		evening max el	744 Jun 07 j 21:59	5° Ω 16'41	45°24'36
	741 Nov 19 j 20:42	0° \mathbb{M}		desc. node	744 Jun 26 j 06:14	21° Ω 16'23	
	741 Dec 13 j 23:54	0° \mathcal{A}			744 Jul 09 j 12:12	0° \mathbb{N}	
	742 Jan 07 j 00:46	0° \mathcal{E}		greatest brilliancy	744 Jul 14 j 15:15	2° \mathbb{N} 23'45	-4.5m
desc. node	742 Jan 09 j 11:08	3° \mathcal{E} 02'13		retrograde	744 Jul 26 j 14:09	4° \mathbb{N} 55'47	
	742 Jan 31 j 01:47	0° \approx			744 Aug 11 j 17:56	30° Ω	
morning set	742 Feb 20 j 12:03	25° \approx 26'09		evening set	744 Aug 13 j 09:02	29° Ω 03'44	
	742 Feb 24 j 04:11	0° \mathcal{H}		inferior conj	744 Aug 16 j 20:11	26° Ω 57'40	-8°-36'-47
	742 Mar 20 j 08:46	0° Υ		minimum elong	744 Aug 16 j 16:45	27° Ω 02'57	8°36'37

min. Earth dist.	744 Aug 17 j 09:04	26°♌37'50	0.28352 AU		747 Mar 05 j 03:31	0°♍	
morning rise	744 Aug 20 j 00:15	25°♌01'29			747 Mar 29 j 11:26	0°♎	
direct	744 Sep 07 j 04:13	18°♌48'55		asc. node	747 Apr 04 j 04:50	7°♎00'55	
greatest brilliancy	744 Sep 21 j 16:41	22°♌33'58	-4.6m		747 Apr 23 j 01:22	0°♏	
	744 Oct 03 j 15:43	0°♐			747 May 17 j 22:45	0°♐	
asc. node	744 Oct 17 j 09:33	11°♐32'40			747 Jun 12 j 06:20	0°♑	
morning max el	744 Oct 27 j 14:14	21°♐26'02	46°43'04		747 Jul 08 j 06:24	0°♑	
	744 Nov 04 j 19:57	0°♒		desc. node	747 Jul 24 j 18:07	18°♑21'21	
	744 Dec 01 j 13:56	0°♓			747 Aug 04 j 14:32	0°♒	
	744 Dec 26 j 20:16	0°♈		evening max el	747 Aug 20 j 18:50	16°♒25'38	46°23'28
	745 Jan 20 j 13:17	0°♉			747 Sep 04 j 17:25	0°♓	
desc. node	745 Feb 05 j 23:09	20°♉04'40		greatest brilliancy	747 Sep 28 j 18:16	15°♓23'39	-4.6m
	745 Feb 14 j 01:24	0°♊		retrograde	747 Oct 09 j 09:54	17°♓27'53	
	745 Mar 10 j 12:08	0°♋		evening set	747 Oct 24 j 13:57	12°♓59'10	
	745 Apr 03 j 22:57	0°♌		inferior conj	747 Oct 29 j 23:26	9°♓49'03	-3°-58'-37
	745 Apr 28 j 10:12	0°♍		minimum elong	747 Oct 30 j 07:48	9°♓36'21	3°56'12
morning set	745 May 02 j 07:15	4°♍45'12		min. Earth dist.	747 Oct 30 j 11:30	9°♓30'44	0.26601 AU
	745 May 22 j 21:23	0°♎		morning rise	747 Nov 05 j 01:18	6°♓16'45	
asc. node	745 May 30 j 02:26	8°♎50'52		asc. node	747 Nov 14 j 21:18	2°♓34'55	
max. Earth dist.	745 Jun 06 j 09:44	17°♎49'07	1.73617 AU	direct	747 Nov 19 j 12:23	2°♓08'25	
				greatest brilliancy	747 Dec 02 j 06:53	5°♓11'34	-4.7m
superior conj	745 Jun 07 j 20:59	19°♎37'25	0°20'37		748 Jan 03 j 15:21	0°♈	
minimum elong	745 Jun 07 j 16:54	19°♎24'52	0°20'26	morning max el	748 Jan 09 j 04:40	5°♈31'24	46°53'51
	745 Jun 16 j 07:36	0°♏			748 Feb 01 j 01:29	0°♉	
	745 Jul 10 j 16:16	0°♐			748 Feb 27 j 07:22	0°♊	
evening rise	745 Jul 13 j 15:31	3°♐39'40		desc. node	748 Mar 05 j 11:02	8°♊21'59	
	745 Aug 03 j 23:46	0°♑			748 Mar 23 j 18:38	0°♋	
	745 Aug 28 j 07:16	0°♒			748 Apr 17 j 21:29	0°♌	
desc. node	745 Sep 18 j 15:59	26°♒18'27			748 May 12 j 19:35	0°♍	
	745 Sep 21 j 16:06	0°♓			748 Jun 06 j 13:47	0°♎	
	745 Oct 16 j 03:36	0°♈		asc. node	748 Jun 26 j 14:20	24°♎25'26	
	745 Nov 09 j 20:09	0°♉			748 Jul 01 j 03:34	0°♏	
	745 Dec 04 j 23:58	0°♊		morning set	748 Jul 08 j 18:54	9°♏22'36	
	745 Dec 31 j 07:56	0°♋			748 Jul 25 j 12:28	0°♑	
asc. node	746 Jan 09 j 19:08	10°♋08'39		max. Earth dist.	748 Aug 10 j 11:19	19°♑46'01	1.72598 AU
evening max el	746 Jan 14 j 20:17	15°♋20'24	46°48'23				
	746 Jan 30 j 07:57	0°♌		superior conj	748 Aug 14 j 06:33	24°♑29'20	1°22'57
greatest brilliancy	746 Feb 19 j 21:53	14°♌26'17	-4.6m	minimum elong	748 Aug 14 j 02:57	24°♑18'09	1°22'54
retrograde	746 Mar 06 j 07:02	18°♌11'18			748 Aug 18 j 16:56	0°♐	
evening set	746 Mar 23 j 09:20	12°♌29'06			748 Sep 11 j 18:27	0°♑	
inferior conj	746 Mar 27 j 13:01	9°♌54'15	7°03'04	evening rise	748 Sep 20 j 17:31	11°♑11'24	
minimum elong	746 Mar 27 j 22:11	9°♌39'46	7°01'30		748 Oct 05 j 18:48	0°♒	
min. Earth dist.	746 Mar 27 j 11:29	9°♌56'41	0.28625 AU	desc. node	748 Oct 16 j 03:48	12°♒57'34	
morning rise	746 Apr 01 j 11:18	6°♌52'30			748 Oct 29 j 19:19	0°♈	
direct	746 Apr 17 j 19:30	1°♌41'52			748 Nov 22 j 21:00	0°♉	
greatest brilliancy	746 Apr 29 j 22:51	4°♌19'55	-4.5m		748 Dec 17 j 01:35	0°♊	
desc. node	746 May 01 j 08:26	4°♌55'51			749 Jan 10 j 12:57	0°♋	
	746 Jun 03 j 23:20	0°♍			749 Feb 04 j 14:30	0°♌	
morning max el	746 Jun 05 j 16:25	1°♍37'18	45°45'12	asc. node	749 Feb 06 j 07:01	1°♌58'54	
	746 Jul 03 j 06:52	0°♎			749 Mar 02 j 20:48	0°♍	
	746 Jul 30 j 00:29	0°♏		evening max el	749 Mar 26 j 22:52	25°♍08'50	45°38'44
asc. node	746 Aug 22 j 12:02	27°♏35'14			749 Apr 01 j 01:10	0°♎	
	746 Aug 24 j 12:27	0°♑		greatest brilliancy	749 Apr 30 j 04:58	21°♎38'38	-4.5m
	746 Sep 18 j 05:50	0°♒		retrograde	749 May 14 j 17:01	25°♎18'52	
	746 Oct 12 j 11:23	0°♓		desc. node	749 May 28 j 20:21	21°♎27'03	
	746 Nov 05 j 10:25	0°♈		evening set	749 May 29 j 18:12	20°♎57'56	
	746 Nov 29 j 06:54	0°♉		inferior conj	749 Jun 05 j 04:51	17°♎06'19	-1°-42'-51
morning set	746 Dec 02 j 23:43	4°♉39'23		minimum elong	749 Jun 05 j 01:08	17°♎12'10	1°41'48
desc. node	746 Dec 12 j 01:23	16°♉04'03		min. Earth dist.	749 Jun 05 j 06:15	17°♎04'08	0.28975 AU
	746 Dec 23 j 03:13	0°♊		morning rise	749 Jun 11 j 07:59	13°♎24'32	
				direct	749 Jun 26 j 21:13	8°♎48'28	
superior conj	747 Jan 13 j 21:44	27°♊20'13	-1°-7'-51	greatest brilliancy	749 Jul 10 j 16:51	12°♎07'37	-4.5m
minimum elong	747 Jan 13 j 10:12	26°♊44'03	1°07'32		749 Aug 05 j 06:03	0°♏	
	747 Jan 16 j 00:42	0°♋		morning max el	749 Aug 14 j 21:50	8°♏56'48	45°59'29
max. Earth dist.	747 Jan 17 j 09:59	1°♋44'20	1.71451 AU		749 Sep 04 j 08:11	0°♑	
	747 Feb 09 j 00:24	0°♌		asc. node	749 Sep 18 j 23:51	16°♑18'13	
evening rise	747 Feb 23 j 11:55	18°♌01'49			749 Sep 30 j 20:34	0°♒	

	749 Oct 25 j 22:50	0°♌			752 Jun 02 j 09:05	0°♌	
	749 Nov 19 j 08:47	0°♍		evening max el	752 Jun 05 j 13:22	3°♌04'06	45°23'41
	749 Dec 13 j 11:35	0°♎		desc. node	752 Jun 25 j 08:25	20°♌09'16	
desc. node	750 Jan 06 j 12:10	0°♏		greatest brilliancy	752 Jul 11 j 21:06	0°♍	
	750 Jan 08 j 13:20	2°♏33'35		retrograde	752 Jul 12 j 01:39	0°♍04'38	-4.5m
morning set	750 Jan 30 j 12:57	0°♐			752 Jul 24 j 05:05	2°♍40'47	
	750 Feb 18 j 00:39	23°♐01'47			752 Aug 04 j 21:59	30°♌	
	750 Feb 23 j 15:12	0°♑		evening set	752 Aug 10 j 21:06	26°♌51'51	
	750 Mar 19 j 19:41	0°♒		inferior conj	752 Aug 14 j 10:59	24°♌41'44	-8°-32'-21
superior conj	750 Mar 29 j 00:22	11°♒22'06	-1°-8'-51	minimum elong	752 Aug 14 j 06:48	24°♌48'11	8°32'08
minimum elong	750 Mar 29 j 09:54	11°♒51'31	1°08'36	min. Earth dist.	752 Aug 14 j 22:42	24°♌23'42	0.28401 AU
max. Earth dist.	750 Apr 01 j 00:01	15°♒03'16	1.72981 AU	morning rise	752 Aug 17 j 16:16	22°♌43'48	
	750 Apr 13 j 02:50	0°♓		direct	752 Sep 04 j 20:04	16°♌32'20	
asc. node	750 May 01 j 16:40	22°♓50'41		greatest brilliancy	752 Sep 19 j 08:50	20°♌18'15	-4.6m
evening rise	750 May 05 j 15:50	27°♓42'46			752 Oct 04 j 07:05	0°♍	
	750 May 07 j 12:34	0°♈		asc. node	752 Oct 16 j 11:36	10°♍34'55	
	750 Jun 01 j 00:32	0°♉		morning max el	752 Oct 25 j 05:52	19°♍07'45	46°41'45
	750 Jun 25 j 14:50	0°♊			752 Nov 04 j 15:28	0°♋	
	750 Jul 20 j 08:37	0°♋			752 Dec 01 j 05:19	0°♌	
desc. node	750 Aug 14 j 08:08	0°♌			752 Dec 26 j 09:54	0°♍	
	750 Aug 21 j 06:01	8°♌13'46		desc. node	753 Jan 20 j 01:57	0°♎	
	750 Sep 08 j 17:03	0°♍			753 Feb 05 j 01:08	19°♎33'11	
	750 Oct 04 j 19:04	0°♎			753 Feb 13 j 13:27	0°♏	
	750 Nov 01 j 14:33	0°♏			753 Mar 09 j 23:44	0°♑	
evening max el	750 Nov 01 j 19:21	0°♏12'11	47°20'43		753 Apr 03 j 10:13	0°♒	
	750 Dec 08 j 06:33	0°♐		morning set	753 Apr 27 j 21:13	0°♓	
greatest brilliancy	750 Dec 10 j 05:56	0°♐56'04	-4.7m		753 Apr 30 j 01:01	2°♓38'47	
asc. node	750 Dec 12 j 09:22	1°♐49'13			753 May 22 j 08:17	0°♈	
retrograde	750 Dec 22 j 17:47	3°♐52'41		asc. node	753 May 29 j 04:36	8°♈24'04	
	751 Jan 05 j 14:14	30°♑		max. Earth dist.	753 Jun 04 j 09:47	16°♈02'04	1.73628 AU
evening set	751 Jan 07 j 13:19	28°♑55'03					
min. Earth dist.	751 Jan 11 j 12:57	26°♑30'54	0.27027 AU	superior conj	753 Jun 05 j 15:31	17°♈33'23	0°17'35
inferior conj	751 Jan 12 j 11:41	25°♑55'32	6°56'25	minimum elong	753 Jun 05 j 12:00	17°♈22'35	0°17'25
minimum elong	751 Jan 12 j 01:41	26°♑11'06	6°54'29		753 Jun 15 j 18:30	0°♉	
morning rise	751 Jan 16 j 14:27	23°♑25'10		evening rise	753 Jul 10 j 03:17	0°♊	
direct	751 Feb 01 j 22:47	18°♑10'51			753 Jul 11 j 10:23	1°♊35'53	
greatest brilliancy	751 Feb 12 j 14:43	20°♑17'16	-4.6m		753 Aug 03 j 11:00	0°♋	
	751 Mar 01 j 06:55	0°♒		desc. node	753 Aug 27 j 18:49	0°♌	
morning max el	751 Mar 23 j 11:29	19°♒27'27	46°16'32		753 Sep 17 j 17:55	25°♌47'50	
	751 Apr 02 j 22:49	0°♓			753 Sep 21 j 04:04	0°♍	
desc. node	751 Apr 02 j 22:46	29°♒59'53			753 Oct 15 j 16:10	0°♎	
	751 Apr 30 j 16:06	0°♓			753 Nov 09 j 09:36	0°♏	
	751 May 26 j 22:51	0°♔			753 Dec 04 j 14:57	0°♐	
	751 Jun 21 j 12:20	0°♕		asc. node	753 Dec 31 j 02:19	0°♑	
	751 Jul 16 j 13:35	0°♖		evening max el	754 Jan 08 j 21:14	9°♑20'34	
asc. node	751 Jul 25 j 02:14	10°♖20'07			754 Jan 12 j 12:34	13°♑04'32	46°50'47
	751 Aug 10 j 04:30	0°♗			754 Jan 30 j 15:46	0°♒	
	751 Sep 03 j 10:54	0°♘		greatest brilliancy	754 Feb 17 j 15:16	12°♒13'30	-4.6m
morning set	751 Sep 17 j 03:00	17°♘02'38		retrograde	754 Mar 03 j 23:40	15°♒57'12	
	751 Sep 27 j 11:24	0°♙		evening set	754 Mar 21 j 03:59	10°♒11'05	
	751 Oct 21 j 08:48	0°♚		inferior conj	754 Mar 25 j 04:52	7°♒40'16	7°14'43
max. Earth dist.	751 Oct 24 j 18:24	4°♚16'35	1.71216 AU	minimum elong	754 Mar 25 j 13:46	7°♒26'11	7°13'18
				min. Earth dist.	754 Mar 25 j 02:15	7°♒44'25	0.28591 AU
superior conj	751 Oct 25 j 23:02	5°♚46'37	0°42'36	morning rise	754 Mar 29 j 23:52	4°♒43'23	
minimum elong	751 Oct 26 j 08:28	6°♚16'19	0°42'11		754 Apr 10 j 09:12	30°♑	
desc. node	751 Nov 13 j 15:40	29°♚17'26		direct	754 Apr 15 j 11:22	29°♑28'41	
	751 Nov 14 j 05:13	0°♛			754 Apr 20 j 16:56	0°♓	
evening rise	751 Dec 06 j 06:51	27°♛44'39		greatest brilliancy	754 Apr 27 j 11:04	2°♓03'40	-4.5m
	751 Dec 08 j 01:57	0°♜		desc. node	754 Apr 30 j 10:28	3°♓23'19	
	752 Jan 01 j 00:10	0°♝		morning max el	754 Jun 03 j 08:37	29°♓27'22	45°45'30
	752 Jan 25 j 01:35	0°♞			754 Jun 03 j 22:17	0°♔	
	752 Feb 18 j 08:55	0°♟			754 Jul 02 j 22:47	0°♕	
asc. node	752 Mar 05 j 18:57	20°♟00'20		asc. node	754 Jul 29 j 13:59	0°♖	
	752 Mar 14 j 01:53	0°♠			754 Aug 21 j 14:02	27°♖03'54	
	752 Apr 08 j 09:50	0°♑			754 Aug 24 j 00:52	0°♗	
	752 May 04 j 18:46	0°♒			754 Sep 17 j 17:42	0°♘	
					754 Oct 11 j 22:58	0°♙	

	754 Nov 04 j 21:51	0°♍		retrograde	757 May 12 j 09:13	23°♐10'42	
	754 Nov 28 j 18:14	0°♌		evening set	757 May 27 j 10:43	18°♐49'20	
morning set	754 Nov 30 j 09:49	2°♌04'32		desc. node	757 May 27 j 22:33	18°♐33'05	
desc. node	754 Dec 11 j 03:32	15°♌35'18		inferior conj	757 Jun 02 j 21:25	14°♐57'55	-1°-23'-30
	754 Dec 22 j 14:29	0°♋		minimum elong	757 Jun 02 j 18:23	15°♐02'42	1°22'39
				min. Earth dist.	757 Jun 02 j 23:20	14°♐54'55	0.28974 AU
superior conj	755 Jan 11 j 07:39	24°♋45'34	-1°-5'-21	morning rise	757 Jun 09 j 01:52	11°♐14'06	
minimum elong	755 Jan 10 j 19:54	24°♋08'42	1°05'00	direct	757 Jun 24 j 13:04	6°♐39'52	
max. Earth dist.	755 Jan 14 j 20:57	29°♋13'02	1.71408 AU	greatest brilliancy	757 Jul 08 j 08:57	9°♐58'38	-4.5m
	755 Jan 15 j 11:56	0°♌			757 Aug 05 j 08:23	0°♏	
	755 Feb 08 j 11:35	0°♋		morning max el	757 Aug 12 j 12:52	6°♏43'36	45°58'25
evening rise	755 Feb 21 j 00:10	15°♋35'56			757 Sep 04 j 00:50	0°♏	
	755 Mar 04 j 14:43	0°♌		asc. node	757 Sep 18 j 01:56	15°♏41'47	
	755 Mar 28 j 22:44	0°♋			757 Sep 30 j 10:25	0°♎	
asc. node	755 Apr 03 j 06:53	6°♋32'31			757 Oct 25 j 11:31	0°♎	
	755 Apr 22 j 12:55	0°♌			757 Nov 18 j 20:52	0°♍	
	755 May 17 j 10:48	0°♌			757 Dec 12 j 23:20	0°♌	
	755 Jun 11 j 19:21	0°♍			758 Jan 05 j 23:39	0°♋	
	755 Jul 07 j 21:16	0°♎		desc. node	758 Jan 07 j 15:21	2°♋04'01	
desc. node	755 Jul 23 j 20:07	17°♎40'45			758 Jan 30 j 00:14	0°♌	
	755 Aug 04 j 09:37	0°♍		morning set	758 Feb 15 j 12:38	20°♌35'03	
evening max el	755 Aug 18 j 08:05	14°♌03'24	46°20'35		758 Feb 23 j 02:17	0°♋	
	755 Sep 05 j 04:56	0°♌			758 Mar 19 j 06:38	0°♌	
greatest brilliancy	755 Sep 26 j 07:54	12°♌57'36	-4.6m				
retrograde	755 Oct 06 j 21:10	14°♌59'31		superior conj	758 Mar 26 j 15:36	9°♌07'15	-1°-10'-51
evening set	755 Oct 22 j 04:54	10°♌27'19		minimum elong	758 Mar 27 j 00:57	9°♌36'06	1°10'37
inferior conj	755 Oct 27 j 11:40	7°♌20'49	-4°-20'-2	max. Earth dist.	758 Mar 29 j 16:16	12°♌51'41	1.72930 AU
minimum elong	755 Oct 27 j 20:34	7°♌07'16	4°17'32		758 Apr 12 j 13:43	0°♋	
min. Earth dist.	755 Oct 28 j 01:12	7°♌00'13	0.26644 AU	asc. node	758 Apr 30 j 18:49	22°♋23'59	
morning rise	755 Nov 02 j 11:49	3°♌50'17		evening rise	758 May 03 j 09:21	25°♋35'53	
	755 Nov 12 j 22:57	30°♌			758 May 06 j 23:27	0°♌	
asc. node	755 Nov 13 j 23:30	29°♌50'59			758 May 31 j 11:34	0°♌	
direct	755 Nov 17 j 01:00	29°♌39'29			758 Jun 25 j 02:10	0°♍	
	755 Nov 21 j 04:34	0°♌			758 Jul 19 j 20:28	0°♎	
greatest brilliancy	755 Nov 29 j 21:43	2°♌44'31	-4.7m		758 Aug 13 j 20:48	0°♎	
	756 Jan 03 j 16:30	0°♌		desc. node	758 Aug 20 j 08:02	7°♌41'19	
morning max el	756 Jan 06 j 16:51	3°♌01'41	46°54'29		758 Sep 08 j 07:06	0°♌	
	756 Jan 31 j 18:46	0°♋			758 Oct 04 j 11:43	0°♌	
	756 Feb 26 j 21:48	0°♌		evening max el	758 Oct 30 j 08:45	27°♌46'34	47°19'54
desc. node	756 Mar 04 j 13:03	7°♌46'58			758 Nov 01 j 13:52	0°♋	
	756 Mar 23 j 07:36	0°♋		greatest brilliancy	758 Dec 07 j 20:22	28°♋29'51	-4.7m
	756 Apr 17 j 09:34	0°♌		asc. node	758 Dec 11 j 11:24	29°♋54'35	
	756 May 12 j 07:07	0°♋			758 Dec 11 j 18:00	0°♌	
	756 Jun 06 j 00:57	0°♌		retrograde	758 Dec 20 j 07:20	1°♌25'51	
asc. node	756 Jun 25 j 16:27	23°♌58'15			758 Dec 28 j 14:04	30°♋	
	756 Jun 30 j 14:32	0°♌		evening set	759 Jan 04 j 22:56	26°♋33'27	
morning set	756 Jul 06 j 12:59	7°♌17'10		min. Earth dist.	759 Jan 09 j 02:19	24°♋04'24	0.26972 AU
	756 Jul 24 j 23:21	0°♍		inferior conj	759 Jan 10 j 00:48	23°♋29'33	6°41'49
max. Earth dist.	756 Aug 08 j 04:21	17°♍36'07	1.72653 AU	minimum elong	759 Jan 09 j 14:37	23°♋45'21	6°39'42
				morning rise	759 Jan 14 j 06:42	20°♋55'02	
superior conj	756 Aug 12 j 00:02	22°♍20'42	1°22'13	direct	759 Jan 30 j 11:09	15°♋45'25	
minimum elong	756 Aug 11 j 19:48	22°♍07'36	1°22'11	greatest brilliancy	759 Feb 10 j 04:46	17°♋53'47	-4.6m
	756 Aug 18 j 03:50	0°♎			759 Mar 01 j 22:32	0°♌	
	756 Sep 11 j 05:30	0°♍		morning max el	759 Mar 21 j 01:38	17°♌08'02	46°18'13
evening rise	756 Sep 18 j 07:53	8°♍51'39		desc. node	759 Apr 02 j 00:51	29°♌14'30	
	756 Oct 05 j 06:05	0°♎			759 Apr 02 j 18:18	0°♋	
desc. node	756 Oct 15 j 05:55	12°♎28'41			759 Apr 30 j 07:04	0°♌	
	756 Oct 29 j 06:51	0°♌			759 May 26 j 11:52	0°♋	
	756 Nov 22 j 08:48	0°♋			759 Jun 21 j 00:17	0°♌	
	756 Dec 16 j 13:45	0°♌			759 Jul 16 j 00:57	0°♌	
	757 Jan 10 j 01:41	0°♋		asc. node	759 Jul 24 j 04:09	9°♌51'45	
	757 Feb 04 j 04:21	0°♌			759 Aug 09 j 15:32	0°♍	
asc. node	757 Feb 05 j 09:01	1°♌23'55			759 Sep 02 j 21:48	0°♎	
	757 Mar 02 j 13:14	0°♋		morning set	759 Sep 14 j 18:13	14°♎46'15	
evening max el	757 Mar 24 j 13:24	22°♋53'44	45°40'35		759 Sep 26 j 22:16	0°♍	
	757 Apr 01 j 02:08	0°♌			759 Oct 20 j 19:42	0°♎	
greatest brilliancy	757 Apr 27 j 20:21	19°♌28'30	-4.5m	max. Earth dist.	759 Oct 22 j 05:48	1°♌47'12	1.71245 AU

superior conj	759 Oct 23 j 11:05	3°♌19'19	0°45'49	min. Earth dist.	762 Mar 22 j 17:09	5°♍32'56	0.28558 AU
minimum elong	759 Oct 23 j 20:56	3°♌50'15	0°45'24	morning rise	762 Mar 27 j 12:18	2°♍35'14	
desc. node	759 Nov 12 j 17:49	28°♌49'47			762 Apr 01 j 10:27	30°♋	
	759 Nov 13 j 16:10	0°♁		direct	762 Apr 13 j 03:12	27°♋16'34	
evening rise	759 Dec 03 j 17:03	25°♁11'20		greatest brilliancy	762 Apr 24 j 23:21	29°♋48'14	-4.5m
	759 Dec 07 j 13:00	0°♁			762 Apr 25 j 10:49	0°♍	
	759 Dec 31 j 11:20	0°♁		desc. node	762 Apr 29 j 12:38	1°♍54'54	
	760 Jan 24 j 12:55	0°♋		morning max el	762 Jun 01 j 00:02	27°♍16'16	45°45'48
	760 Feb 17 j 20:31	0°♍			762 Jun 03 j 19:59	0°♁	
asc. node	760 Mar 04 j 21:01	19°♍30'38			762 Jul 02 j 14:07	0°♌	
	760 Mar 13 j 13:59	0°♁			762 Jul 29 j 03:01	0°♁	
	760 Apr 07 j 22:56	0°♌		asc. node	762 Aug 20 j 16:08	26°♁34'09	
	760 May 04 j 10:08	0°♁			762 Aug 23 j 12:50	0°♌	
	760 Jun 02 j 06:51	0°♌			762 Sep 17 j 05:07	0°♍	
evening max el	760 Jun 03 j 05:15	0°♌53'37	45°22'59		762 Oct 11 j 10:06	0°♁	
desc. node	760 Jun 24 j 10:22	19°♌00'52			762 Nov 04 j 08:51	0°♌	
greatest brilliancy	760 Jul 09 j 13:17	27°♌48'18	-4.5m	morning set	762 Nov 27 j 20:11	29°♌31'40	
	760 Jul 16 j 21:50	0°♍			762 Nov 28 j 05:11	0°♁	
retrograde	760 Jul 21 j 20:06	0°♍27'13		desc. node	762 Dec 10 j 05:31	15°♁07'12	
	760 Jul 26 j 15:22	30°♌			762 Dec 22 j 01:23	0°♁	
evening set	760 Aug 08 j 09:13	24°♌42'00					
inferior conj	760 Aug 12 j 01:58	22°♌27'22	-8°-27'-16	superior conj	763 Jan 08 j 17:49	22°♁12'54	-1°-2'-44
minimum elong	760 Aug 11 j 21:02	22°♌34'57	8°26'56	minimum elong	763 Jan 08 j 05:56	21°♁35'39	1°02'21
min. Earth dist.	760 Aug 12 j 12:25	22°♌11'15	0.28446 AU	max. Earth dist.	763 Jan 12 j 06:27	26°♁38'22	1.71364 AU
morning rise	760 Aug 15 j 08:41	20°♌27'14			763 Jan 14 j 22:46	0°♁	
direct	760 Sep 02 j 12:16	14°♌17'32			763 Feb 07 j 22:22	0°♋	
greatest brilliancy	760 Sep 16 j 23:59	18°♌02'38	-4.6m	evening rise	763 Feb 18 j 12:29	13°♋11'27	
	760 Oct 04 j 18:01	0°♍			763 Mar 04 j 01:30	0°♍	
asc. node	760 Oct 15 j 13:42	9°♍39'37			763 Mar 28 j 09:38	0°♁	
morning max el	760 Oct 22 j 21:14	16°♍50'11	46°40'28	asc. node	763 Apr 02 j 09:02	6°♁05'36	
	760 Nov 04 j 10:02	0°♁			763 Apr 22 j 00:07	0°♌	
	760 Nov 30 j 20:05	0°♌			763 May 16 j 22:34	0°♁	
	760 Dec 25 j 23:01	0°♁			763 Jun 11 j 08:07	0°♌	
	761 Jan 19 j 14:11	0°♁			763 Jul 07 j 11:57	0°♍	
desc. node	761 Feb 04 j 03:09	19°♁02'54		desc. node	763 Jul 22 j 22:09	17°♍00'52	
	761 Feb 13 j 01:08	0°♁			763 Aug 04 j 04:48	0°♁	
	761 Mar 09 j 11:02	0°♋		evening max el	763 Aug 15 j 20:23	11°♁40'11	46°17'54
	761 Apr 02 j 21:12	0°♍			763 Sep 05 j 19:32	0°♌	
	761 Apr 27 j 07:59	0°♁		greatest brilliancy	763 Sep 23 j 21:35	10°♌33'18	-4.6m
morning set	761 Apr 27 j 18:26	0°♁32'03		retrograde	763 Oct 04 j 08:28	12°♌33'17	
	761 May 21 j 18:54	0°♌		evening set	763 Oct 19 j 20:05	7°♌57'02	
asc. node	761 May 28 j 06:38	7°♌57'49		inferior conj	763 Oct 25 j 00:05	4°♌54'29	-4°-40'-42
max. Earth dist.	761 Jun 02 j 08:54	14°♌13'06	1.73631 AU	minimum elong	763 Oct 25 j 09:27	4°♌40'12	4°38'09
				min. Earth dist.	763 Oct 25 j 15:08	4°♌31'34	0.26692 AU
superior conj	761 Jun 03 j 09:43	15°♌29'20	0°14'30	morning rise	763 Oct 30 j 22:19	1°♌26'08	
minimum elong	761 Jun 03 j 06:48	15°♌20'23	0°14'21		763 Nov 02 j 19:00	30°♁	
behind sun begin	761 Jun 02 j 21:18	14°♌51'10		asc. node	763 Nov 13 j 01:32	27°♁14'49	
behind sun end	761 Jun 03 j 16:19	15°♌49'35		direct	763 Nov 14 j 13:25	27°♁12'06	
	761 Jun 15 j 05:05	0°♁			763 Nov 26 j 19:21	0°♌	
evening rise	761 Jul 09 j 05:08	29°♁32'47		greatest brilliancy	763 Nov 27 j 13:37	0°♌20'19	-4.7m
	761 Jul 09 j 13:58	0°♌			764 Jan 03 j 16:03	0°♁	
	761 Aug 02 j 21:54	0°♍		morning max el	764 Jan 04 j 05:15	0°♁33'27	46°55'05
	761 Aug 27 j 06:02	0°♁			764 Jan 31 j 11:20	0°♁	
desc. node	761 Sep 16 j 20:03	25°♁18'48			764 Feb 26 j 11:43	0°♁	
	761 Sep 20 j 15:44	0°♌		desc. node	764 Mar 03 j 15:10	7°♁13'26	
	761 Oct 15 j 04:25	0°♁			764 Mar 22 j 20:07	0°♋	
	761 Nov 08 j 22:45	0°♁			764 Apr 16 j 21:15	0°♍	
	761 Dec 04 j 05:40	0°♁			764 May 11 j 18:16	0°♁	
	761 Dec 30 j 20:37	0°♋			764 Jun 05 j 11:48	0°♌	
asc. node	762 Jan 07 j 23:11	8°♋32'41		asc. node	764 Jun 24 j 18:24	23°♌31'29	
evening max el	762 Jan 10 j 04:25	10°♋48'45	46°53'00		764 Jun 30 j 01:13	0°♁	
	762 Jan 31 j 01:42	0°♍		morning set	764 Jul 04 j 06:56	5°♁12'06	
greatest brilliancy	762 Feb 15 j 09:25	10°♍02'50	-4.6m		764 Jul 24 j 09:58	0°♌	
retrograde	762 Mar 01 j 15:50	13°♍43'58		max. Earth dist.	764 Aug 05 j 22:36	15°♌30'51	1.72707 AU
evening set	762 Mar 18 j 22:35	7°♍54'14					
inferior conj	762 Mar 22 j 20:42	5°♍27'18	7°25'47	superior conj	764 Aug 09 j 17:23	20°♌12'32	1°21'23
minimum elong	762 Mar 23 j 05:17	5°♍13'43	7°24'30	minimum elong	764 Aug 09 j 12:34	19°♌57'37	1°21'20

	764 Aug 17 j 14:29	0°♍		desc. node	767 Apr 01 j 02:58	28°≈29°53	
	764 Sep 10 j 16:17	0°♌			767 Apr 02 j 13:14	0°♋	
evening rise	764 Sep 15 j 22:18	6°♌33'08			767 Apr 29 j 21:50	0°♎	
	764 Oct 04 j 17:03	0°♍			767 May 26 j 00:47	0°♏	
desc. node	764 Oct 14 j 08:00	12°♍00'42			767 Jun 20 j 12:12	0°♐	
	764 Oct 28 j 18:05	0°♎			767 Jul 15 j 12:17	0°♑	
	764 Nov 21 j 20:19	0°♏		asc. node	767 Jul 23 j 06:20	9°♑24'14	
	764 Dec 16 j 01:39	0°♐			767 Aug 09 j 02:35	0°♒	
	765 Jan 09 j 14:12	0°♋			767 Sep 02 j 08:45	0°♍	
	765 Feb 03 j 18:03	0°♎		morning set	767 Sep 12 j 09:23	12°♍29'39	
asc. node	765 Feb 04 j 11:08	0°♎49'55			767 Sep 26 j 09:15	0°♌	
	765 Mar 02 j 05:39	0°♏		max. Earth dist.	767 Oct 19 j 14:44	29°♌09'44	1.71276 AU
evening max el	765 Mar 22 j 04:01	20°♏39'42	45°42'34		767 Oct 20 j 06:44	0°♍	
	765 Apr 01 j 04:03	0°♐					
greatest brilliancy	765 Apr 25 j 10:50	17°♐18'07	-4.5m	superior conj	767 Oct 20 j 23:02	0°♍51'14	0°48'58
retrograde	765 May 10 j 01:49	21°♐03'24		minimum elong	767 Oct 21 j 09:11	1°♍23'09	0°48'33
evening set	765 May 25 j 03:23	16°♐41'11		desc. node	767 Nov 11 j 19:48	28°♍21'06	
desc. node	765 May 27 j 00:28	15°♐37'33			767 Nov 13 j 03:16	0°♎	
inferior conj	765 May 31 j 13:57	12°♐50'09	-1°-4'-6	evening rise	767 Dec 01 j 02:49	22°♎36'12	
minimum elong	765 May 31 j 11:36	12°♐53'50	1°03'25		767 Dec 07 j 00:10	0°♏	
min. Earth dist.	765 May 31 j 16:06	12°♐46'48	0.28977 AU		767 Dec 30 j 22:36	0°≈	
morning rise	765 Jun 06 j 19:40	9°♐04'42			768 Jan 24 j 00:21	0°♋	
direct	765 Jun 22 j 05:07	4°♐31'48			768 Feb 17 j 08:14	0°♎	
greatest brilliancy	765 Jul 06 j 01:50	7°♐51'20	-4.5m	asc. node	768 Mar 03 j 23:08	19°♎00'41	
	765 Aug 05 j 09:08	0°♑			768 Mar 13 j 02:15	0°♏	
morning max el	765 Aug 10 j 04:47	4°♑33'09	45°57'17		768 Apr 07 j 12:18	0°♐	
	765 Sep 03 j 17:03	0°♒			768 May 04 j 01:55	0°♑	
asc. node	765 Sep 17 j 04:03	15°♒06'05		evening max el	768 May 31 j 21:09	28°♑42'46	45°22'19
	765 Sep 30 j 00:02	0°♍			768 Jun 02 j 05:42	0°♒	
	765 Oct 24 j 23:58	0°♌		desc. node	768 Jun 23 j 12:27	17°♒50'25	
	765 Nov 18 j 08:44	0°♍		greatest brilliancy	768 Jul 07 j 02:02	25°♒33'03	-4.5m
	765 Dec 12 j 10:51	0°♎		retrograde	768 Jul 19 j 10:47	28°♒13'30	
	766 Jan 05 j 10:56	0°♏		evening set	768 Aug 05 j 21:15	22°♒32'34	
desc. node	766 Jan 06 j 17:20	1°♏35'02		inferior conj	768 Aug 09 j 17:02	20°♒13'05	-8°-21'-29
	766 Jan 29 j 11:19	0°≈		minimum elong	768 Aug 09 j 11:25	20°♒21'46	8°21'01
morning set	766 Feb 13 j 00:21	18°≈07'52		min. Earth dist.	768 Aug 10 j 02:27	19°♒58'32	0.28488 AU
	766 Feb 22 j 13:13	0°♋		morning rise	768 Aug 13 j 01:25	18°♒10'15	
	766 Mar 18 j 17:27	0°♎		direct	768 Aug 31 j 04:17	12°♒02'55	
				greatest brilliancy	768 Sep 14 j 14:20	15°♒45'48	-4.6m
superior conj	766 Mar 24 j 06:40	6°♎52'07	-1°-12'-45		768 Oct 05 j 02:15	0°♍	
minimum elong	766 Mar 24 j 15:45	7°♎20'11	1°12'31	asc. node	768 Oct 14 j 15:46	8°♍44'47	
max. Earth dist.	766 Mar 27 j 07:39	10°♎37'40	1.72880 AU	morning max el	768 Oct 20 j 11:36	14°♍29'34	46°38'57
	766 Apr 12 j 00:28	0°♏			768 Nov 04 j 04:24	0°♌	
asc. node	766 Apr 29 j 20:51	21°♏57'17			768 Nov 30 j 10:58	0°♍	
evening rise	766 May 01 j 02:47	23°♏29'08			768 Dec 25 j 12:24	0°♎	
	766 May 06 j 10:13	0°♐			769 Jan 19 j 02:42	0°♏	
	766 May 30 j 22:28	0°♑		desc. node	769 Feb 03 j 05:22	18°♏32'28	
	766 Jun 24 j 13:24	0°♒			769 Feb 12 j 13:04	0°≈	
	766 Jul 19 j 08:17	0°♍			769 Mar 08 j 22:33	0°♋	
	766 Aug 13 j 09:32	0°♌			769 Apr 02 j 08:25	0°♎	
desc. node	766 Aug 19 j 10:08	7°♌08'58		morning set	769 Apr 25 j 11:43	28°♎24'09	
	766 Sep 07 j 21:19	0°♍			769 Apr 26 j 18:59	0°♏	
	766 Oct 04 j 04:42	0°♎			769 May 21 j 05:47	0°♐	
evening max el	766 Oct 27 j 23:02	25°♎23'18	47°19'12	asc. node	769 May 27 j 08:38	7°♐30'33	
	766 Nov 01 j 14:15	0°♏		max. Earth dist.	769 May 31 j 06:17	12°♐17'59	1.73632 AU
greatest brilliancy	766 Dec 05 j 10:14	26°♏03'00	-4.7m				
asc. node	766 Dec 10 j 13:22	27°♏55'12		superior conj	769 Jun 01 j 03:59	13°♐24'37	0°11'23
retrograde	766 Dec 17 j 21:13	28°♏58'50		minimum elong	769 Jun 01 j 01:40	13°♐17'32	0°11'16
evening set	767 Jan 02 j 08:38	24°♏11'28		behind sun begin	769 May 31 j 09:45	12°♐28'40	
min. Earth dist.	767 Jan 06 j 15:17	21°♏38'05	0.26916 AU	behind sun end	769 Jun 01 j 17:35	14°♐06'25	
inferior conj	767 Jan 07 j 13:49	21°♏03'17	6°26'23		769 Jun 14 j 15:57	0°♑	
minimum elong	767 Jan 07 j 03:32	21°♏19'10	6°24'08	evening rise	769 Jul 07 j 00:00	27°♑29'16	
morning rise	767 Jan 11 j 22:53	18°♏24'41			769 Jul 09 j 00:56	0°♒	
direct	767 Jan 28 j 00:05	13°♏19'56			769 Aug 02 j 09:04	0°♍	
greatest brilliancy	767 Feb 07 j 17:50	15°♏29'14	-4.6m		769 Aug 26 j 17:31	0°♌	
	767 Mar 02 j 10:10	0°≈		desc. node	769 Sep 15 j 22:10	24°♌48'54	
morning max el	767 Mar 18 j 16:13	14°≈49'42	46°19'44		769 Sep 20 j 03:40	0°♍	

	769 Oct 14 j 17:02	0°♁			772 Mar 22 j 09:00	0°♁		
	769 Nov 08 j 12:21	0°♁			772 Apr 16 j 09:19	0°♁		
	769 Dec 03 j 20:59	0°♁			772 May 11 j 05:50	0°♁		
	769 Dec 30 j 15:56	0°♁			772 Jun 04 j 23:02	0°♁		
asc. node	770 Jan 07 j 01:21	7°♁43'09		asc. node	772 Jun 23 j 20:33	23°♁04'14		
evening max el	770 Jan 07 j 19:18	8°♁28'51	46°55'12		772 Jun 29 j 12:15	0°♁		
	770 Jan 31 j 15:55	0°♁		morning set	772 Jul 02 j 00:47	3°♁05'44		
greatest brilliancy	770 Feb 13 j 04:05	7°♁51'03	-4.6m		772 Jul 23 j 20:56	0°♁		
retrograde	770 Feb 27 j 07:34	11°♁29'00		max. Earth dist.	772 Aug 03 j 18:27	13°♁29'28	1.72760 AU	
evening set	770 Mar 16 j 17:02	5°♁35'50						
min. Earth dist.	770 Mar 20 j 08:14	3°♁19'30	0.28521 AU	superior conj	772 Aug 07 j 10:46	18°♁03'22	1°20'26	
inferior conj	770 Mar 20 j 12:27	3°♁12'47	7°36'17	minimum elong	772 Aug 07 j 05:23	17°♁46'41	1°20'21	
minimum elong	770 Mar 20 j 20:39	2°♁59'47	7°35'07		772 Aug 17 j 01:31	0°♁		
morning rise	770 Mar 25 j 00:34	0°♁25'34			772 Sep 10 j 03:27	0°♁		
	770 Mar 25 j 18:09	30°♁		evening rise	772 Sep 13 j 13:02	4°♁14'26		
direct	770 Apr 10 j 18:23	25°♁02'53			772 Oct 04 j 04:25	0°♁		
greatest brilliancy	770 Apr 22 j 12:03	27°♁31'48	-4.5m	desc. node	772 Oct 13 j 09:59	11°♁31'15		
	770 Apr 27 j 18:09	0°♁			772 Oct 28 j 05:39	0°♁		
desc. node	770 Apr 28 j 14:38	0°♁27'53			772 Nov 21 j 08:09	0°♁		
morning max el	770 May 29 j 14:28	25°♁01'35	45°46'10		772 Dec 15 j 13:51	0°♁		
	770 Jun 03 j 17:20	0°♁			773 Jan 09 j 03:04	0°♁		
	770 Jul 02 j 05:37	0°♁			773 Feb 03 j 08:11	0°♁		
	770 Jul 28 j 16:21	0°♁		asc. node	773 Feb 03 j 13:12	0°♁14'37		
asc. node	770 Aug 19 j 18:14	26°♁03'25			773 Mar 01 j 22:47	0°♁		
	770 Aug 23 j 01:06	0°♁		evening max el	773 Mar 19 j 19:26	18°♁26'32	45°44'34	
	770 Sep 16 j 16:51	0°♁			773 Apr 01 j 08:07	0°♁		
	770 Oct 10 j 21:32	0°♁		greatest brilliancy	773 Apr 23 j 01:39	15°♁06'59	-4.5m	
	770 Nov 03 j 20:10	0°♁		retrograde	773 May 07 j 18:54	18°♁54'54		
morning set	770 Nov 25 j 06:42	26°♁58'16		evening set	773 May 22 j 20:14	14°♁31'42		
	770 Nov 27 j 16:27	0°♁		desc. node	773 May 26 j 02:33	12°♁38'31		
desc. node	770 Dec 09 j 07:35	14°♁38'17		inferior conj	773 May 29 j 06:28	10°♁41'07	0°-44'-28	
	770 Dec 21 j 12:39	0°♁		minimum elong	773 May 29 j 04:50	10°♁43'40	0°44'01	
				min. Earth dist.	773 May 29 j 08:34	10°♁37'50	0.28978 AU	
superior conj	771 Jan 06 j 03:44	19°♁38'13	0°-59'-57	morning rise	773 Jun 04 j 13:20	6°♁54'23		
minimum elong	771 Jan 05 j 15:50	19°♁00'51	0°59'32	direct	773 Jun 19 j 21:34	2°♁22'38		
max. Earth dist.	771 Jan 09 j 12:12	23°♁50'38	1.71325 AU	greatest brilliancy	773 Jul 03 j 18:16	5°♁42'36	-4.5m	
	771 Jan 14 j 10:00	0°♁			773 Aug 05 j 09:07	0°♁		
	771 Feb 07 j 09:34	0°♁		morning max el	773 Aug 07 j 21:25	2°♁23'41	45°56'09	
evening rise	771 Feb 16 j 00:15	10°♁43'49			773 Sep 03 j 09:18	0°♁		
	771 Mar 03 j 12:43	0°♁		asc. node	773 Sep 16 j 06:03	14°♁29'29		
	771 Mar 27 j 20:59	0°♁			773 Sep 29 j 13:48	0°♁		
asc. node	771 Apr 01 j 11:00	5°♁36'52			773 Oct 24 j 12:40	0°♁		
	771 Apr 21 j 11:46	0°♁			773 Nov 17 j 20:51	0°♁		
	771 May 16 j 10:47	0°♁			773 Dec 11 j 22:36	0°♁		
	771 Jun 10 j 21:23	0°♁			774 Jan 04 j 22:24	0°♁		
desc. node	771 Jul 07 j 03:18	0°♁		desc. node	774 Jan 05 j 19:33	1°♁06'06		
	771 Jul 22 j 00:20	16°♁19'37			774 Jan 28 j 22:34	0°♁		
	771 Aug 04 j 01:03	0°♁		morning set	774 Feb 10 j 12:21	15°♁40'52		
evening max el	771 Aug 13 j 08:16	9°♁14'59	46°15'20		774 Feb 22 j 00:19	0°♁		
	771 Sep 06 j 15:37	0°♁			774 Mar 18 j 04:27	0°♁		
greatest brilliancy	771 Sep 21 j 10:46	8°♁07'47	-4.6m					
retrograde	771 Oct 01 j 20:13	10°♁06'48		superior conj	774 Mar 21 j 21:48	4°♁36'28	-1°-14'-31	
evening set	771 Oct 17 j 11:26	5°♁26'01		minimum elong	774 Mar 22 j 06:32	5°♁03'31	1°14'19	
inferior conj	771 Oct 22 j 12:36	2°♁27'41	-5°00'-43	max. Earth dist.	774 Mar 25 j 00:32	8°♁27'36	1.72834 AU	
minimum elong	771 Oct 22 j 22:23	2°♁12'48	4°58'07		774 Apr 11 j 11:25	0°♁		
min. Earth dist.	771 Oct 23 j 05:02	2°♁02'42	0.26742 AU	evening rise	774 Apr 28 j 20:12	21°♁21'34		
	771 Oct 26 j 15:23	30°♁		asc. node	774 Apr 28 j 22:52	21°♁29'47		
morning rise	771 Oct 28 j 08:45	29°♁02'05			774 May 05 j 21:13	0°♁		
direct	771 Nov 12 j 01:57	24°♁44'07			774 May 30 j 09:38	0°♁		
asc. node	771 Nov 12 j 03:30	24°♁44'07			774 Jun 24 j 00:55	0°♁		
greatest brilliancy	771 Nov 25 j 05:54	27°♁56'13	-4.7m		774 Jul 18 j 20:22	0°♁		
	771 Nov 29 j 06:20	0°♁			774 Aug 12 j 22:34	0°♁		
morning max el	772 Jan 01 j 18:25	28°♁06'16	46°55'36	desc. node	774 Aug 18 j 12:12	6°♁35'43		
	772 Jan 03 j 14:56	0°♁			774 Sep 07 j 11:53	0°♁		
	772 Jan 31 j 03:57	0°♁			774 Oct 03 j 22:14	0°♁		
	772 Feb 26 j 01:53	0°♁		evening max el	774 Oct 25 j 14:13	23°♁01'50	47°18'19	
desc. node	772 Mar 02 j 17:13	6°♁38'40			774 Nov 01 j 16:07	0°♁		

greatest brilliancy	774 Dec 03 j 00:43	23°♁36'30	-4.7m	superior conj	777 May 29 j 22:33	11°♁21'29	0°08'17
asc. node	774 Dec 09 j 15:34	25°♁50'39		minimum elong	777 May 29 j 20:51	11°♁16'18	0°08'13
retrograde	774 Dec 15 j 11:20	26°♁31'13		behind sun begin	777 May 29 j 01:28	10°♁16'47	
evening set	774 Dec 30 j 18:35	21°♁49'03		behind sun end	777 May 30 j 16:14	12°♁15'48	
min. Earth dist.	775 Jan 04 j 04:16	19°♁11'23	0.26856 AU		777 Jun 14 j 02:39	0°♁	
inferior conj	775 Jan 05 j 02:50	18°♁36'34	6°10'04	evening rise	777 Jul 04 j 19:08	25°♁27'07	
minimum elong	775 Jan 04 j 16:33	18°♁52'26	6°07'44		777 Jul 08 j 11:45	0°♁	
morning rise	775 Jan 09 j 15:04	15°♁53'52			777 Aug 01 j 20:06	0°♁	
direct	775 Jan 25 j 13:16	10°♁54'22			777 Aug 26 j 04:53	0°♁	
greatest brilliancy	775 Feb 05 j 06:01	13°♁03'20	-4.6m	desc. node	777 Sep 15 j 00:07	24°♁18'48	
	775 Mar 02 j 18:48	0°♁			777 Sep 19 j 15:31	0°♁	
morning max el	775 Mar 16 j 06:35	12°♁30'40	46°21'17		777 Oct 14 j 05:33	0°♁	
desc. node	775 Mar 31 j 04:59	27°♁45'34			777 Nov 08 j 01:53	0°♁	
	775 Apr 02 j 07:40	0°♁			777 Dec 03 j 12:18	0°♁	
	775 Apr 29 j 12:28	0°♁			777 Dec 30 j 11:35	0°♁	
	775 May 25 j 13:41	0°♁		evening max el	778 Jan 05 j 09:19	6°♁07'06	46°57'19
	775 Jun 20 j 00:10	0°♁		asc. node	778 Jan 06 j 03:24	6°♁52'58	
	775 Jul 14 j 23:44	0°♁			778 Feb 01 j 10:45	0°♁	
asc. node	775 Jul 22 j 08:25	8°♁56'05		greatest brilliancy	778 Feb 10 j 22:16	5°♁38'47	-4.6m
	775 Aug 08 j 13:44	0°♁		retrograde	778 Feb 24 j 23:05	9°♁14'26	
	775 Sep 01 j 19:47	0°♁		evening set	778 Mar 14 j 11:20	3°♁17'52	
morning set	775 Sep 10 j 00:41	10°♁13'16		inferior conj	778 Mar 18 j 04:12	0°♁58'43	7°46'00
	775 Sep 25 j 20:16	0°♁		minimum elong	778 Mar 18 j 11:57	0°♁46'24	7°45'00
max. Earth dist.	775 Oct 16 j 22:05	26°♁27'12	1.71310 AU	min. Earth dist.	778 Mar 17 j 23:32	1°♁06'06	0.28481 AU
					778 Mar 19 j 17:18	30°♁	
superior conj	775 Oct 18 j 11:14	28°♁23'57	0°52'00	morning rise	778 Mar 22 j 12:49	28°♁16'26	
minimum elong	775 Oct 18 j 21:36	28°♁56'32	0°51'35	direct	778 Apr 08 j 09:01	22°♁49'30	
	775 Oct 19 j 17:48	0°♁		greatest brilliancy	778 Apr 20 j 01:40	25°♁16'54	-4.5m
desc. node	775 Nov 10 j 21:53	27°♁52'36		desc. node	778 Apr 27 j 16:40	29°♁04'20	
	775 Nov 12 j 14:26	0°♁			778 Apr 29 j 05:40	0°♁	
evening rise	775 Nov 28 j 12:42	20°♁01'09		morning max el	778 May 27 j 04:48	22°♁47'22	45°46'49
	775 Dec 06 j 11:26	0°♁			778 Jun 03 j 13:37	0°♁	
	775 Dec 30 j 09:58	0°♁			778 Jul 01 j 20:33	0°♁	
	776 Jan 23 j 11:51	0°♁			778 Jul 28 j 05:15	0°♁	
	776 Feb 16 j 19:58	0°♁		asc. node	778 Aug 18 j 20:13	25°♁33'19	
asc. node	776 Mar 03 j 01:09	18°♁30'23			778 Aug 22 j 13:03	0°♁	
	776 Mar 12 j 14:31	0°♁			778 Sep 16 j 04:18	0°♁	
	776 Apr 07 j 01:42	0°♁			778 Oct 10 j 08:45	0°♁	
	776 May 03 j 17:53	0°♁			778 Nov 03 j 07:16	0°♁	
evening max el	776 May 29 j 12:37	26°♁30'58	45°21'33	morning set	778 Nov 22 j 17:11	24°♁25'19	
	776 Jun 02 j 05:30	0°♁			778 Nov 27 j 03:30	0°♁	
desc. node	776 Jun 22 j 14:36	16°♁38'10		desc. node	778 Dec 08 j 09:46	14°♁10'28	
greatest brilliancy	776 Jul 04 j 15:35	23°♁18'54	-4.5m		778 Dec 20 j 23:39	0°♁	
retrograde	776 Jul 17 j 01:12	26°♁00'18					
evening set	776 Aug 03 j 09:18	20°♁23'56		superior conj	779 Jan 03 j 13:27	17°♁03'39	0°-57'-1
inferior conj	776 Aug 07 j 08:18	17°♁59'29	-8°-14'-51	minimum elong	779 Jan 03 j 01:37	16°♁26'30	0°56'36
minimum elong	776 Aug 07 j 02:02	18°♁09'12	8°14'17	max. Earth dist.	779 Jan 06 j 15:37	20°♁56'24	1.71289 AU
min. Earth dist.	776 Aug 07 j 17:07	17°♁45'50	0.28528 AU		779 Jan 13 j 20:58	0°♁	
morning rise	776 Aug 10 j 18:35	15°♁53'30			779 Feb 06 j 20:31	0°♁	
direct	776 Aug 28 j 19:52	9°♁48'53		evening rise	779 Feb 13 j 11:54	8°♁16'35	
greatest brilliancy	776 Sep 12 j 05:03	13°♁29'46	-4.6m		779 Mar 02 j 23:43	0°♁	
	776 Oct 05 j 08:04	0°♁			779 Mar 27 j 08:06	0°♁	
asc. node	776 Oct 13 j 17:48	7°♁51'06		asc. node	779 Mar 31 j 13:06	5°♁09'10	
morning max el	776 Oct 18 j 01:16	12°♁07'27	46°37'29		779 Apr 20 j 23:10	0°♁	
	776 Nov 03 j 22:15	0°♁			779 May 15 j 22:44	0°♁	
	776 Nov 30 j 01:36	0°♁			779 Jun 10 j 10:23	0°♁	
	776 Dec 25 j 01:34	0°♁			779 Jul 06 j 18:25	0°♁	
	777 Jan 18 j 15:03	0°♁		desc. node	779 Jul 21 j 02:19	15°♁38'33	
desc. node	777 Feb 02 j 07:19	18°♁01'36			779 Aug 03 j 21:29	0°♁	
	777 Feb 12 j 00:53	0°♁		evening max el	779 Aug 10 j 20:40	6°♁52'27	46°12'43
	777 Mar 08 j 09:57	0°♁			779 Sep 07 j 18:12	0°♁	
	777 Apr 01 j 19:28	0°♁		greatest brilliancy	779 Sep 18 j 22:50	5°♁42'14	-4.6m
morning set	777 Apr 23 j 05:15	26°♁17'27		retrograde	779 Sep 29 j 08:27	7°♁41'30	
	777 Apr 26 j 05:48	0°♁		evening set	779 Oct 15 j 02:52	2°♁55'44	
	777 May 20 j 16:29	0°♁		inferior conj	779 Oct 20 j 01:07	0°♁01'43	-5°-20'-2
asc. node	777 May 26 j 10:49	7°♁04'30		minimum elong	779 Oct 20 j 11:15	29°♁46'20	5°17'26
max. Earth dist.	777 May 29 j 03:15	10°♁22'16	1.73633 AU		779 Oct 20 j 02:15	30°♁	

min. Earth dist.	779 Oct 20 j 18:37	29°♁35'10	0.26800 AU	asc. node	782 Apr 28 j 01:02	21°♁03'31	
morning rise	779 Oct 25 j 19:01	26°♁39'23		greatest brilliancy	782 May 01 j 19:11	25°♁40'04	-3.9m
direct	779 Nov 09 j 15:03	22°♁16'57			782 May 05 j 07:58	0°♁	
asc. node	779 Nov 11 j 05:42	22°♁20'05			782 May 29 j 20:34	0°♁	
greatest brilliancy	779 Nov 22 j 22:10	25°♁33'01	-4.7m		782 Jun 23 j 12:12	0°♁	
	779 Nov 30 j 19:40	0°♁			782 Jul 18 j 08:14	0°♁	
morning max el	779 Dec 30 j 08:39	25°♁42'33	46°56'04		782 Aug 12 j 11:20	0°♁	
	780 Jan 03 j 12:40	0°♁		desc. node	782 Aug 17 j 14:13	6°♁03'12	
	780 Jan 30 j 19:59	0°♁			782 Sep 07 j 02:13	0°♁	
	780 Feb 25 j 15:36	0°♁			782 Oct 03 j 15:43	0°♁	
desc. node	780 Mar 01 j 19:16	6°♁05'04		evening max el	782 Oct 23 j 05:20	20°♁41'22	47°17'11
	780 Mar 21 j 21:28	0°♁			782 Nov 01 j 18:57	0°♁	
	780 Apr 15 j 21:03	0°♁		greatest brilliancy	782 Nov 30 j 15:46	21°♁11'27	-4.7m
	780 May 10 j 17:03	0°♁		asc. node	782 Dec 08 j 17:35	23°♁41'24	
	780 Jun 04 j 09:55	0°♁		retrograde	782 Dec 13 j 01:01	24°♁03'44	
asc. node	780 Jun 22 j 22:39	22°♁37'53		evening set	782 Dec 28 j 04:33	19°♁26'51	
	780 Jun 28 j 22:56	0°♁		min. Earth dist.	783 Jan 01 j 17:28	16°♁44'29	0.26803 AU
morning set	780 Jun 29 j 19:01	1°♁01'34		inferior conj	783 Jan 02 j 15:42	16°♁10'08	5°52'53
	780 Jul 23 j 07:32	0°♁		minimum elong	783 Jan 02 j 05:31	16°♁25'53	5°50'28
max. Earth dist.	780 Aug 01 j 15:22	11°♁32'35	1.72808 AU	morning rise	783 Jan 07 j 07:04	13°♁23'06	
				direct	783 Jan 23 j 02:15	8°♁29'03	
superior conj	780 Aug 05 j 04:31	15°♁56'33	1°19'22	greatest brilliancy	783 Feb 02 j 18:23	10°♁37'34	-4.6m
minimum elong	780 Aug 04 j 22:37	15°♁38'14	1°19'16		783 Mar 03 j 00:54	0°♁	
	780 Aug 16 j 12:10	0°♁		morning max el	783 Mar 13 j 20:04	10°♁09'34	46°22'42
	780 Sep 09 j 14:15	0°♁		desc. node	783 Mar 30 j 07:06	27°♁02'26	
evening rise	780 Sep 11 j 04:10	1°♁58'14			783 Apr 02 j 01:34	0°♁	
	780 Oct 03 j 15:27	0°♁			783 Apr 29 j 02:47	0°♁	
desc. node	780 Oct 12 j 12:08	11°♁03'18			783 May 25 j 02:20	0°♁	
	780 Oct 27 j 16:56	0°♁			783 Jun 19 j 11:54	0°♁	
	780 Nov 20 j 19:44	0°♁			783 Jul 14 j 10:56	0°♁	
	780 Dec 15 j 01:52	0°♁		asc. node	783 Jul 21 j 10:22	8°♁28'11	
	781 Jan 08 j 15:46	0°♁			783 Aug 08 j 00:41	0°♁	
asc. node	781 Feb 02 j 15:12	29°♁39'36			783 Sep 01 j 06:37	0°♁	
	781 Feb 02 j 22:13	0°♁		morning set	783 Sep 07 j 16:06	7°♁58'00	
	781 Mar 01 j 15:59	0°♁			783 Sep 25 j 07:05	0°♁	
evening max el	781 Mar 17 j 11:31	16°♁15'40	45°46'39	max. Earth dist.	783 Oct 14 j 04:16	23°♁41'56	1.71341 AU
	781 Apr 01 j 13:45	0°♁					
greatest brilliancy	781 Apr 20 j 17:12	12°♁57'29	-4.5m	superior conj	783 Oct 15 j 23:57	25°♁59'05	0°54'53
retrograde	781 May 05 j 12:01	16°♁46'42		minimum elong	783 Oct 16 j 10:26	26°♁32'03	0°54'28
evening set	781 May 20 j 13:11	12°♁22'38			783 Oct 19 j 04:38	0°♁	
desc. node	781 May 25 j 04:44	9°♁38'09		desc. node	783 Nov 10 j 00:02	27°♁25'06	
inferior conj	781 May 26 j 22:50	8°♁32'31	0°-24'-42		783 Nov 12 j 01:19	0°♁	
minimum elong	781 May 26 j 21:56	8°♁33'56	0°24'27	evening rise	783 Nov 25 j 22:56	17°♁28'03	
min. Earth dist.	781 May 27 j 00:46	8°♁29'31	0.28974 AU		783 Dec 05 j 22:26	0°♁	
morning rise	781 Jun 02 j 06:42	4°♁44'39			783 Dec 29 j 21:06	0°♁	
direct	781 Jun 17 j 14:14	0°♁14'06			784 Jan 22 j 23:10	0°♁	
greatest brilliancy	781 Jul 01 j 09:30	3°♁33'09	-4.5m		784 Feb 16 j 07:36	0°♁	
	781 Aug 05 j 07:39	0°♁		asc. node	784 Mar 02 j 03:13	18°♁00'31	
morning max el	781 Aug 05 j 14:11	0°♁15'41	45°55'11		784 Mar 12 j 02:45	0°♁	
	781 Sep 03 j 00:52	0°♁			784 Apr 06 j 15:09	0°♁	
asc. node	781 Sep 15 j 08:09	13°♁54'37			784 May 03 j 10:05	0°♁	
	781 Sep 29 j 03:04	0°♁		evening max el	784 May 27 j 03:04	24°♁16'53	45°20'58
	781 Oct 24 j 00:54	0°♁			784 Jun 02 j 06:27	0°♁	
	781 Nov 17 j 08:35	0°♁		desc. node	784 Jun 21 j 16:34	15°♁23'32	
	781 Dec 11 j 10:01	0°♁		greatest brilliancy	784 Jul 02 j 04:36	21°♁04'12	-4.5m
	782 Jan 04 j 09:36	0°♁		retrograde	784 Jul 14 j 15:19	23°♁47'21	
desc. node	782 Jan 04 j 21:33	0°♁37'20		evening set	784 Jul 31 j 21:05	18°♁15'28	
	782 Jan 28 j 09:36	0°♁		inferior conj	784 Aug 04 j 23:28	15°♁46'04	-8°-7'-28
morning set	782 Feb 07 j 23:44	13°♁12'36		minimum elong	784 Aug 04 j 16:35	15°♁56'45	8°06'46
	782 Feb 21 j 11:12	0°♁		min. Earth dist.	784 Aug 05 j 07:59	15°♁32'51	0.28567 AU
	782 Mar 17 j 15:13	0°♁		morning rise	784 Aug 08 j 11:50	13°♁36'43	
				direct	784 Aug 26 j 10:59	7°♁34'44	
superior conj	782 Mar 19 j 12:19	2°♁19'38	-1°-16'-11	greatest brilliancy	784 Sep 09 j 20:31	11°♁14'54	-4.6m
minimum elong	782 Mar 19 j 20:41	2°♁45'30	1°16'01		784 Oct 05 j 11:52	0°♁	
max. Earth dist.	782 Mar 22 j 18:41	6°♁22'07	1.72785 AU	asc. node	784 Oct 12 j 19:57	6°♁59'00	
	782 Apr 10 j 22:08	0°♁		morning max el	784 Oct 15 j 14:45	9°♁45'15	46°36'15
evening rise	782 Apr 26 j 13:12	19°♁13'32			784 Nov 03 j 15:35	0°♁	

	784 Nov 29 j 15:53	0°♌			787 May 15 j 10:51	0°♁		
	784 Dec 24 j 14:28	0°♊			787 Jun 09 j 23:40	0°♈		
	785 Jan 18 j 03:10	0°♉			787 Jul 06 j 10:02	0°♎		
desc. node	785 Feb 01 j 09:22	17°♁31'39		desc. node	787 Jul 20 j 04:23	14°♎56'34		
	785 Feb 11 j 12:30	0°♋			787 Aug 03 j 18:57	0°♌		
	785 Mar 07 j 21:12	0°♈		evening max el	787 Aug 08 j 10:02	4°♌31'49	46°10'13	
	785 Apr 01 j 06:27	0°♎			787 Sep 09 j 08:21	0°♌		
morning set	785 Apr 20 j 22:21	24°♎09'23		greatest brilliancy	787 Sep 16 j 09:58	3°♌15'19	-4.6m	
	785 Apr 25 j 16:36	0°♉		retrograde	787 Sep 26 j 21:04	5°♌15'34		
	785 May 20 j 03:11	0°♈		evening set	787 Oct 12 j 18:22	0°♌24'49		
asc. node	785 May 25 j 12:51	6°♈37'55			787 Oct 13 j 11:58	30°♌		
max. Earth dist.	785 May 26 j 22:47	8°♈22'05	1.73634 AU	inferior conj	787 Oct 17 j 13:34	27°♌35'01	-5°-38'-36	
				minimum elong	787 Oct 17 j 23:58	27°♌19'16	5°36'03	
superior conj	785 May 27 j 16:42	9°♈17'04	0°05'09	min. Earth dist.	787 Oct 18 j 07:42	27°♌07'32	0.26858 AU	
minimum elong	785 May 27 j 15:39	9°♈13'50	0°05'06	morning rise	787 Oct 23 j 05:00	24°♌16'18		
behind sun begin	785 May 26 j 18:13	8°♈08'03		direct	787 Nov 07 j 04:36	19°♌49'13		
behind sun end	785 May 28 j 13:04	10°♈19'38		asc. node	787 Nov 10 j 07:45	20°♌01'03		
	785 Jun 13 j 13:22	0°♁		greatest brilliancy	787 Nov 20 j 13:31	23°♌08'01	-4.7m	
evening rise	785 Jul 02 j 13:56	23°♁24'05			787 Dec 01 j 22:22	0°♌		
	785 Jul 07 j 22:34	0°♈		morning max el	787 Dec 27 j 23:39	23°♌20'08	46°56'28	
	785 Aug 01 j 07:09	0°♎			788 Jan 03 j 09:53	0°♊		
	785 Aug 25 j 16:18	0°♌			788 Jan 30 j 11:59	0°♉		
desc. node	785 Sep 14 j 02:15	23°♌49'10		desc. node	788 Feb 25 j 05:23	0°♋		
	785 Sep 19 j 03:26	0°♌			788 Feb 29 j 21:22	5°♋31'20		
	785 Oct 13 j 18:09	0°♊			788 Mar 21 j 10:01	0°♈		
	785 Nov 07 j 15:30	0°♁			788 Apr 15 j 08:51	0°♎		
	785 Dec 03 j 03:45	0°♋			788 May 10 j 04:23	0°♉		
	785 Dec 30 j 07:41	0°♈			788 Jun 03 j 20:57	0°♈		
evening max el	786 Jan 02 j 23:01	3°♈44'53	46°59'31	asc. node	788 Jun 22 j 00:37	22°♈10'29		
asc. node	786 Jan 05 j 05:25	6°♈02'14		morning set	788 Jun 27 j 13:17	28°♈56'59		
	786 Feb 02 j 12:06	0°♎			788 Jun 28 j 09:50	0°♁		
greatest brilliancy	786 Feb 08 j 15:10	3°♎25'12	-4.6m		788 Jul 22 j 18:24	0°♈		
retrograde	786 Feb 22 j 14:47	7°♎00'27		max. Earth dist.	788 Jul 30 j 10:21	9°♈29'00	1.72857 AU	
evening set	786 Mar 12 j 05:31	1°♎00'18						
	786 Mar 13 j 20:30	30°♈		superior conj	788 Aug 02 j 22:10	13°♈48'41	1°18'11	
min. Earth dist.	786 Mar 15 j 14:48	28°♈53'12	0.28447 AU	minimum elong	788 Aug 02 j 15:48	13°♈28'56	1°18'04	
inferior conj	786 Mar 15 j 20:00	28°♈44'56	7°54'57		788 Aug 15 j 23:05	0°♎		
minimum elong	786 Mar 16 j 03:16	28°♈33'25	7°54'06	evening rise	788 Sep 08 j 19:10	29°♎40'47		
morning rise	786 Mar 20 j 01:13	26°♈07'45			788 Sep 09 j 01:20	0°♌		
direct	786 Apr 05 j 23:36	20°♈36'09			788 Oct 03 j 02:44	0°♌		
greatest brilliancy	786 Apr 17 j 16:04	23°♈03'02	-4.5m	desc. node	788 Oct 11 j 14:12	10°♌34'15		
desc. node	786 Apr 26 j 18:52	27°♈43'46			788 Oct 27 j 04:30	0°♊		
	786 Apr 30 j 06:46	0°♎			788 Nov 20 j 07:38	0°♁		
morning max el	786 May 24 j 19:59	20°♎34'53	45°47'22		788 Dec 14 j 14:12	0°♋		
	786 Jun 03 j 09:23	0°♉			789 Jan 08 j 04:50	0°♈		
	786 Jul 01 j 11:27	0°♈		asc. node	789 Feb 01 j 17:21	29°♈03'58		
	786 Jul 27 j 18:13	0°♁			789 Feb 02 j 12:40	0°♎		
asc. node	786 Aug 17 j 22:22	25°♁03'26			789 Mar 01 j 09:47	0°♉		
	786 Aug 22 j 01:04	0°♈		evening max el	789 Mar 15 j 04:19	14°♈06'00	45°48'54	
	786 Sep 15 j 15:50	0°♎			789 Apr 01 j 21:53	0°♈		
	786 Oct 09 j 20:03	0°♌		greatest brilliancy	789 Apr 18 j 09:57	10°♈49'26	-4.5m	
	786 Nov 02 j 18:28	0°♌		retrograde	789 May 03 j 05:05	14°♈38'34		
morning set	786 Nov 20 j 03:43	21°♌52'17		evening set	789 May 18 j 06:33	10°♈13'43		
	786 Nov 26 j 14:39	0°♊		inferior conj	789 May 24 j 15:28	6°♈24'07	0°-5'-10	
desc. node	786 Dec 07 j 11:43	13°♊41'38		minimum elong	789 May 24 j 15:16	6°♈24'25	0°05'07	
	786 Dec 20 j 10:46	0°♁		transit begin	789 May 24 j 11:25	6°♈30'27		
				transit end	789 May 24 j 19:07	6°♈18'23		
superior conj	786 Dec 31 j 23:14	14°♁28'55	0°-53'-59	desc. node	789 May 24 j 06:38	6°♈37'58		
minimum elong	786 Dec 31 j 11:34	13°♁52'17	0°53'33	min. Earth dist.	789 May 24 j 17:10	6°♈21'27	0.28969 AU	
max. Earth dist.	787 Jan 03 j 19:15	18°♁02'27	1.71252 AU	morning rise	789 May 31 j 00:07	2°♈35'08		
	787 Jan 13 j 08:00	0°♋			789 Jun 05 j 11:46	30°♈		
	787 Feb 06 j 07:31	0°♈		direct	789 Jun 15 j 07:17	28°♈05'56		
evening rise	787 Feb 10 j 23:49	5°♈49'59			789 Jun 25 j 13:45	0°♈		
	787 Mar 02 j 10:44	0°♎		greatest brilliancy	789 Jun 28 j 23:44	1°♈22'20	-4.5m	
	787 Mar 26 j 19:16	0°♉		morning max el	789 Aug 03 j 06:37	28°♈06'20	45°53'58	
asc. node	787 Mar 30 j 15:15	4°♈41'30			789 Aug 05 j 05:34	0°♁		
	787 Apr 20 j 10:40	0°♈			789 Sep 02 j 16:32	0°♈		

asc. node	789 Sep 14 j 10:16	13°♁19'01		evening max el	792 May 24 j 17:27	22°♁02'10	45°20'41
	789 Sep 28 j 16:36	0°♎			792 Jun 02 j 08:59	0°♁	
	789 Oct 23 j 13:27	0°♊		desc. node	792 Jun 20 j 18:39	14°♁06'50	
	789 Nov 16 j 20:37	0°♌		greatest brilliancy	792 Jun 29 j 16:50	18°♁48'48	-4.5m
	789 Dec 10 j 21:43	0°♍		retrograde	792 Jul 12 j 06:05	21°♁35'19	
	790 Jan 03 j 21:06	0°♎		evening set	792 Jul 29 j 09:08	16°♁07'39	
desc. node	790 Jan 03 j 23:33	0°♎07'41		inferior conj	792 Aug 02 j 15:01	13°♁33'22	-7°-59'-27
	790 Jan 27 j 20:56	0°♏		minimum elong	792 Aug 02 j 07:32	13°♁44'57	7°58'36
morning set	790 Feb 05 j 10:57	10°♏42'52		min. Earth dist.	792 Aug 02 j 23:08	13°♁20'47	0.28604 AU
	790 Feb 20 j 22:24	0°♐		morning rise	792 Aug 06 j 05:39	11°♁20'37	
				direct	792 Aug 24 j 02:22	5°♁21'18	
superior conj	790 Mar 17 j 02:50	0°♑01'40	-1°-17'-44	greatest brilliancy	792 Sep 07 j 13:10	9°♁02'04	-4.6m
minimum elong	790 Mar 17 j 10:44	0°♑26'08	1°17'36		792 Oct 05 j 14:10	0°♎	
	790 Mar 17 j 02:18	0°♑		asc. node	792 Oct 11 j 21:59	6°♎07'16	
max. Earth dist.	790 Mar 20 j 13:18	4°♑16'57	1.72730 AU	morning max el	792 Oct 13 j 04:55	7°♎24'34	46°34'45
	790 Apr 10 j 09:08	0°♒			792 Nov 03 j 08:45	0°♊	
evening rise	790 Apr 24 j 06:16	17°♒04'45			792 Nov 29 j 06:19	0°♌	
asc. node	790 Apr 27 j 03:04	20°♒35'59			792 Dec 24 j 03:38	0°♍	
	790 May 04 j 18:59	0°♓			793 Jan 17 j 15:37	0°♎	
	790 May 29 j 07:44	0°♓		desc. node	793 Jan 31 j 11:33	17°♎01'07	
	790 Jun 22 j 23:45	0°♓			793 Feb 11 j 00:26	0°♏	
	790 Jul 17 j 20:25	0°♔			793 Mar 07 j 08:44	0°♐	
	790 Aug 12 j 00:32	0°♕			793 Mar 31 j 17:41	0°♑	
desc. node	790 Aug 16 j 16:19	5°♕29'44		morning set	793 Apr 18 j 15:11	21°♑59'43	
	790 Sep 06 j 17:08	0°♌			793 Apr 25 j 03:37	0°♒	
	790 Oct 03 j 10:05	0°♍			793 May 19 j 14:07	0°♓	
evening max el	790 Oct 20 j 19:54	18°♍18'08	47°15'53	max. Earth dist.	793 May 24 j 18:45	6°♓22'35	1.73631 AU
	790 Nov 02 j 00:07	0°♎		asc. node	793 May 24 j 14:51	6°♓10'36	
greatest brilliancy	790 Nov 28 j 07:35	18°♎45'41	-4.7m				
asc. node	790 Dec 07 j 19:34	21°♎25'10		superior conj	793 May 25 j 10:52	7°♓12'02	0°02'00
retrograde	790 Dec 10 j 14:03	21°♎34'25		minimum elong	793 May 25 j 10:27	7°♓10'47	0°01'58
evening set	790 Dec 25 j 14:34	17°♎02'45		behind sun begin	793 May 24 j 12:07	6°♓02'12	
min. Earth dist.	790 Dec 30 j 07:01	14°♎15'22	0.26749 AU	behind sun end	793 May 26 j 08:48	8°♓19'22	
inferior conj	790 Dec 31 j 04:28	13°♎42'14	5°35'01		793 Jun 13 j 00:17	0°♓	
minimum elong	790 Dec 30 j 18:26	13°♎57'44	5°32'31	evening rise	793 Jun 30 j 09:02	21°♓21'28	
morning rise	791 Jan 04 j 22:53	10°♏50'45			793 Jul 07 j 09:34	0°♓	
direct	791 Jan 20 j 14:41	6°♏02'08			793 Jul 31 j 18:21	0°♔	
greatest brilliancy	791 Jan 31 j 07:28	8°♏11'01	-4.6m		793 Aug 25 j 03:50	0°♕	
	791 Mar 03 j 05:31	0°♏		desc. node	793 Sep 13 j 04:21	23°♕19'02	
morning max el	791 Mar 11 j 08:37	7°♏44'52	46°24'12		793 Sep 18 j 15:29	0°♌	
desc. node	791 Mar 29 j 09:10	26°♏18'46			793 Oct 13 j 06:57	0°♍	
	791 Apr 01 j 19:26	0°♐			793 Nov 07 j 05:25	0°♎	
	791 Apr 28 j 17:16	0°♑			793 Dec 02 j 19:44	0°♏	
	791 May 24 j 15:12	0°♒			793 Dec 30 j 04:53	0°♐	
	791 Jun 18 j 23:51	0°♓		evening max el	793 Dec 31 j 13:13	1°♐22'42	47°01'33
	791 Jul 13 j 22:22	0°♔		asc. node	794 Jan 04 j 07:34	5°♐09'42	
asc. node	791 Jul 20 j 12:34	8°♔00'23			794 Feb 04 j 01:26	0°♑	
	791 Aug 07 j 11:51	0°♕		greatest brilliancy	794 Feb 06 j 07:06	1°♑08'32	-4.6m
	791 Aug 31 j 17:42	0°♖		retrograde	794 Feb 20 j 06:38	4°♑44'22	
morning set	791 Sep 05 j 07:44	5°♖42'36			794 Mar 07 j 17:25	30°♑	
	791 Sep 24 j 18:11	0°♗		evening set	794 Mar 09 j 23:14	28°♑40'40	
max. Earth dist.	791 Oct 11 j 10:53	20°♗56'56	1.71384 AU	inferior conj	794 Mar 13 j 11:27	26°♑29'02	8°03'20
				minimum elong	794 Mar 13 j 18:10	26°♑18'23	8°02'36
superior conj	791 Oct 13 j 12:43	23°♗33'25	0°57'39	min. Earth dist.	794 Mar 13 j 05:30	26°♑38'27	0.28408 AU
minimum elong	791 Oct 13 j 23:17	24°♗06'34	0°57'16	morning rise	794 Mar 17 j 13:17	23°♑57'06	
	791 Oct 18 j 15:49	0°♘		direct	794 Apr 03 j 14:00	18°♑20'43	
desc. node	791 Nov 09 j 02:00	26°♘55'52		greatest brilliancy	794 Apr 15 j 06:01	20°♑47'20	-4.5m
	791 Nov 11 j 12:37	0°♙		desc. node	794 Apr 25 j 20:49	26°♑24'16	
evening rise	791 Nov 23 j 08:53	14°♙52'54			794 May 01 j 01:47	0°♑	
	791 Dec 05 j 09:50	0°♚		morning max el	794 May 22 j 11:43	18°♑23'05	45°48'05
	791 Dec 29 j 08:37	0°♛			794 Jun 03 j 04:47	0°♒	
	792 Jan 22 j 10:51	0°♜			794 Jul 01 j 02:17	0°♓	
	792 Feb 15 j 19:36	0°♝			794 Jul 27 j 07:10	0°♔	
asc. node	792 Mar 01 j 05:20	17°♝29'42		asc. node	794 Aug 17 j 00:25	24°♔33'14	
	792 Mar 11 j 15:22	0°♞			794 Aug 21 j 13:05	0°♕	
	792 Apr 06 j 05:03	0°♟			794 Sep 15 j 03:20	0°♖	
	792 May 03 j 02:52	0°♠			794 Oct 09 j 07:18	0°♗	

	794 Nov 02 j 05:38	0°♍		retrograde	797 Apr 30 j 21:26	12°♐29'45	
morning set	794 Nov 17 j 14:52	19°♍21'15		evening set	797 May 15 j 23:51	8°♐04'07	
	794 Nov 26 j 01:48	0°♁		inferior conj	797 May 22 j 07:52	4°♐15'19	0°14'36
desc. node	794 Dec 06 j 13:48	13°♁13'15		minimum elong	797 May 22 j 08:24	4°♐14'29	0°14'27
	794 Dec 19 j 21:53	0°♁		transit begin	797 May 22 j 06:34	4°♐17'22	
				transit end	797 May 22 j 10:15	4°♐11'35	
superior conj	794 Dec 29 j 08:54	11°♁53'32	0°-50'-48	min. Earth dist.	797 May 22 j 09:42	4°♐12'27	0.28963 AU
minimum elong	794 Dec 28 j 21:31	11°♁17'46	0°50'21	desc. node	797 May 23 j 08:44	3°♐36'19	
max. Earth dist.	795 Jan 01 j 01:32	15°♁16'35	1.71228 AU	morning rise	797 May 28 j 17:08	0°♐25'12	
	795 Jan 12 j 19:07	0°♁			797 May 29 j 11:51	30°♁	
	795 Feb 05 j 18:38	0°♁		direct	797 Jun 12 j 23:52	25°♁57'24	
evening rise	795 Feb 08 j 11:13	3°♁21'21		greatest brilliancy	797 Jun 26 j 13:20	29°♁10'29	-4.5m
	795 Mar 01 j 21:54	0°♁			797 Jun 28 j 07:41	0°♐	
	795 Mar 26 j 06:35	0°♁		morning max el	797 Jul 31 j 21:56	25°♐54'40	45°52'53
asc. node	795 Mar 29 j 17:12	4°♁12'48			797 Aug 05 j 02:33	0°♁	
	795 Apr 19 j 22:17	0°♐			797 Sep 02 j 07:45	0°♁	
	795 May 14 j 23:05	0°♁		asc. node	797 Sep 13 j 12:16	12°♁44'06	
	795 Jun 09 j 13:06	0°♁			797 Sep 28 j 05:47	0°♁	
	795 Jul 06 j 01:53	0°♁			797 Oct 23 j 01:41	0°♁	
desc. node	795 Jul 19 j 06:31	14°♁14'16			797 Nov 16 j 08:20	0°♁	
	795 Aug 03 j 17:10	0°♁			797 Dec 10 j 09:07	0°♁	
evening max el	795 Aug 06 j 00:23	2°♁13'56	46°07'49	desc. node	798 Jan 03 j 01:44	29°♁39'39	
	795 Sep 11 j 18:53	0°♁			798 Jan 03 j 08:14	0°♁	
greatest brilliancy	795 Sep 13 j 21:19	0°♁49'48	-4.6m		798 Jan 27 j 07:54	0°♁	
retrograde	795 Sep 24 j 09:55	2°♁50'45		morning set	798 Feb 02 j 22:27	8°♁14'57	
	795 Oct 06 j 09:17	30°♁			798 Feb 20 j 09:14	0°♁	
evening set	795 Oct 10 j 10:11	27°♁55'21					
inferior conj	795 Oct 15 j 02:16	25°♁09'40	-5°-56'-23	superior conj	798 Mar 14 j 17:23	27°♁44'47	-1°-19'-9
minimum elong	795 Oct 15 j 12:49	24°♁53'39	5°53'54	minimum elong	798 Mar 15 j 00:45	28°♁07'35	1°19'02
min. Earth dist.	795 Oct 15 j 20:44	24°♁41'39	0.26914 AU		798 Mar 16 j 13:02	0°♁	
morning rise	795 Oct 20 j 14:59	21°♁54'42		max. Earth dist.	798 Mar 18 j 08:13	2°♁13'44	1.72680 AU
direct	795 Nov 04 j 18:38	17°♁23'10			798 Apr 09 j 19:50	0°♁	
asc. node	795 Nov 09 j 09:42	17°♁48'48		evening rise	798 Apr 21 j 23:03	14°♁55'50	
greatest brilliancy	795 Nov 18 j 03:53	20°♁42'57	-4.7m	asc. node	798 Apr 26 j 05:05	20°♁09'10	
	795 Dec 02 j 17:30	0°♁			798 May 04 j 05:45	0°♐	
morning max el	795 Dec 25 j 14:20	20°♁57'41	46°56'35		798 May 28 j 18:43	0°♁	
	796 Jan 03 j 06:08	0°♁			798 Jun 22 j 11:06	0°♁	
	796 Jan 30 j 03:34	0°♁			798 Jul 17 j 08:24	0°♁	
	796 Feb 24 j 18:58	0°♁			798 Aug 11 j 13:33	0°♁	
desc. node	796 Feb 28 j 23:24	4°♁57'44		desc. node	798 Aug 15 j 18:22	4°♁56'43	
	796 Mar 20 j 22:31	0°♁			798 Sep 06 j 07:56	0°♁	
	796 Apr 14 j 20:39	0°♁			798 Oct 03 j 04:33	0°♁	
	796 May 09 j 15:42	0°♁		evening max el	798 Oct 18 j 09:30	15°♁53'25	47°14'30
	796 Jun 03 j 07:57	0°♐			798 Nov 02 j 06:54	0°♁	
asc. node	796 Jun 21 j 02:47	21°♐43'59		greatest brilliancy	798 Nov 25 j 23:41	16°♁21'11	-4.7m
morning set	796 Jun 25 j 07:16	26°♐51'51		asc. node	798 Dec 06 j 21:47	19°♁04'29	
	796 Jun 27 j 20:37	0°♁		retrograde	798 Dec 08 j 02:34	19°♁06'14	
	796 Jul 22 j 05:08	0°♁		evening set	798 Dec 23 j 00:45	14°♁39'19	
max. Earth dist.	796 Jul 28 j 04:00	7°♁21'45	1.72903 AU	min. Earth dist.	798 Dec 27 j 20:57	11°♁46'51	0.26695 AU
				inferior conj	798 Dec 28 j 17:13	11°♁15'31	5°16'19
superior conj	796 Jul 31 j 15:46	11°♁41'07	1°16'54	minimum elong	798 Dec 28 j 07:26	11°♁30'38	5°13'47
minimum elong	796 Jul 31 j 08:58	11°♁20'02	1°16'46	morning rise	799 Jan 02 j 14:38	8°♁19'41	
	796 Aug 15 j 09:54	0°♁		direct	799 Jan 18 j 02:36	3°♁36'12	
evening rise	796 Sep 06 j 10:21	27°♁24'22		greatest brilliancy	799 Jan 28 j 21:31	5°♁46'40	-4.6m
	796 Sep 08 j 12:18	0°♁			799 Mar 03 j 07:52	0°♁	
	796 Oct 02 j 13:54	0°♁		morning max el	799 Mar 08 j 20:46	5°♁20'19	46°25'50
desc. node	796 Oct 10 j 16:10	10°♁05'22		desc. node	799 Mar 28 j 11:11	25°♁36'56	
	796 Oct 26 j 15:52	0°♁			799 Apr 01 j 12:23	0°♁	
	796 Nov 19 j 19:18	0°♁			799 Apr 28 j 07:09	0°♁	
	796 Dec 14 j 02:19	0°♁			799 May 24 j 03:36	0°♁	
	797 Jan 07 j 17:41	0°♁			799 Jun 18 j 11:26	0°♐	
asc. node	797 Jan 31 j 19:24	28°♁28'33			799 Jul 13 j 09:30	0°♁	
	797 Feb 02 j 03:01	0°♁		asc. node	799 Jul 19 j 14:37	7°♁33'01	
	797 Mar 01 j 03:51	0°♁			799 Aug 06 j 22:44	0°♁	
evening max el	797 Mar 12 j 20:41	11°♁55'21	45°50'51		799 Aug 31 j 04:29	0°♁	
	797 Apr 02 j 08:58	0°♐		morning set	799 Sep 02 j 23:11	3°♁27'38	
greatest brilliancy	797 Apr 16 j 03:30	8°♐42'04	-4.5m		799 Sep 24 j 04:57	0°♁	

max. Earth dist.	799 Oct 08 j 20:23	18°♁22'09	1.71427 AU
superior conj	799 Oct 11 j 01:28	21°♁08'48	1°00'19
minimum elong	799 Oct 11 j 12:01	21°♁41'55	0°59'57
	799 Oct 18 j 02:39	0°♁	
desc. node	799 Nov 08 j 04:06	26°♁28'06	
	799 Nov 10 j 23:33	0°♁	
evening rise	799 Nov 20 j 18:57	12°♁19'17	
	799 Dec 04 j 20:53	0°♁	
	799 Dec 28 j 19:47	0°♁	
	800 Jan 21 j 22:10	0°♁	
	800 Feb 15 j 07:12	0°♁	
asc. node	800 Feb 29 j 07:19	16°♁59'43	
	800 Mar 11 j 03:36	0°♁	
	800 Apr 05 j 18:36	0°♁	
	800 May 02 j 19:33	0°♁	
evening max el	800 May 22 j 07:54	19°♁48'39	45°20'18
	800 Jun 02 j 12:45	0°♁	
desc. node	800 Jun 19 j 20:48	12°♁48'29	
greatest brilliancy	800 Jun 27 j 04:01	16°♁32'45	-4.5m
retrograde	800 Jul 09 j 21:12	19°♁23'41	
evening set	800 Jul 26 j 20:55	14°♁00'05	
inferior conj	800 Jul 31 j 06:20	11°♁20'50	-7°-50'-36
minimum elong	800 Jul 30 j 22:21	11°♁33'11	7°49'36
min. Earth dist.	800 Jul 31 j 13:51	11°♁09'13	0.28644 AU
morning rise	800 Aug 03 j 23:29	9°♁04'30	
direct	800 Aug 21 j 17:49	3°♁07'59	