




































































































































superior conj	2101 Mar 02 12:28	11° H 44'45	-1°25'49	inferior conj	2103 Jul 22 04:24	28° E 50'10	-5°37'38
minimum elong	2101 Mar 02 10:16	11° H 37'52	1°25'49	minimum elong	2103 Jul 21 18:41	29° E 05'22	5°35'29
max. Earth dist.	2101 Mar 06 08:17	16° H 31'36	1.71801 AU	min. Earth dist.	2103 Jul 22 02:31	28° E 53'07	0.29005 AU
	2101 Mar 17 03:28	0° Y		morning rise	2103 Jul 27 02:56	25° E 49'23	
	2101 Apr 10 07:09	0° B		direct	2103 Aug 12 20:34	20° E 33'02	
evening rise	2101 Apr 11 06:15	1° B 11'28		greatest brilliancy	2103 Aug 23 07:42	22° E 31'26	-4.7m
asc. node	2101 May 01 11:54	26° B 08'48			2103 Sep 06 05:52	0° Q	
	2101 May 04 15:11	0° II		morning max el	2103 Oct 01 04:56	21° Q 16'49	46°09'00
	2101 May 29 04:09	0° E			2103 Oct 09 20:17	0° M	
	2101 Jun 22 22:53	0° Q		asc. node	2103 Oct 17 06:55	7° M 52'04	
	2101 Jul 18 01:29	0° M			2103 Nov 06 02:25	0° E	
	2101 Aug 12 16:29	0° E			2103 Dec 01 12:11	0° M	
desc. node	2101 Aug 21 01:09	9° E 35'44			2103 Dec 26 02:48	0° A	
	2101 Sep 08 05:24	0° M			2104 Jan 19 09:02	0° B	
evening max el	2101 Oct 06 13:40	29° M 45'20	46°41'47	desc. node	2104 Feb 05 20:21	21° B 43'05	
	2101 Oct 06 19:39	0° A			2104 Feb 12 12:07	0° A	
greatest brilliancy	2101 Nov 15 21:41	29° A 50'49	-4.9m		2104 Mar 07 14:42	0° H	
	2101 Nov 16 08:25	0° B			2104 Mar 31 18:24	0° Y	
retrograde	2101 Nov 25 15:16	1° B 37'25		morning set	2104 Apr 05 18:33	6° Y 12'18	
	2101 Dec 04 12:48	30° R A			2104 Apr 25 00:08	0° B	
evening set	2101 Dec 09 21:08	27° A 35'06					
asc. node	2101 Dec 12 04:30	26° A 18'15		superior conj	2104 May 13 18:29	23° B 08'43	-0°35'14
inferior conj	2101 Dec 16 03:02	23° A 56'58	1°01'28	minimum elong	2104 May 14 01:34	23° B 30'34	0°34'55
minimum elong	2101 Dec 16 00:41	24° A 00'33	1°00'42	max. Earth dist.	2104 May 15 19:02	25° B 38'14	1.73264 AU
min. Earth dist.	2101 Dec 16 00:07	24° A 01'24	0.26432 AU		2104 May 19 08:05	0° II	
morning rise	2101 Dec 22 04:17	20° A 25'47		asc. node	2104 May 28 23:51	11° II 52'56	
direct	2102 Jan 05 12:56	16° A 19'33			2104 Jun 12 17:46	0° E	
greatest brilliancy	2102 Jan 15 12:47	18° A 14'10	-4.9m	evening rise	2104 Jun 19 16:26	8° E 31'29	
	2102 Feb 03 22:18	0° B			2104 Jul 07 04:40	0° Q	
morning max el	2102 Feb 24 23:07	19° B 11'38	46°48'18		2104 Jul 31 16:58	0° M	
	2102 Mar 07 10:21	0° A			2104 Aug 25 07:47	0° E	
desc. node	2102 Apr 02 18:01	29° A 03'25		desc. node	2104 Sep 17 13:04	28° E 06'13	
	2102 Apr 03 13:54	0° H			2104 Sep 19 02:50	0° M	
	2102 Apr 29 11:24	0° Y			2104 Oct 14 04:23	0° A	
	2102 May 24 20:05	0° B			2104 Nov 08 17:09	0° B	
	2102 Jun 18 21:45	0° II			2104 Dec 05 07:37	0° A	
	2102 Jul 13 17:47	0° E		evening max el	2104 Dec 18 05:32	13° A 37'48	47°18'01
asc. node	2102 Jul 24 21:29	13° E 34'16			2105 Jan 04 11:29	0° H	
	2102 Aug 07 07:59	0° Q		asc. node	2105 Jan 08 16:30	3° H 30'16	
morning set	2102 Aug 24 05:42	20° Q 48'01		greatest brilliancy	2105 Jan 27 20:59	15° H 20'55	-4.9m
	2102 Aug 31 16:22	0° M		retrograde	2105 Feb 07 04:14	17° H 22'32	
	2102 Sep 24 20:03	0° E		evening set	2105 Feb 24 22:30	11° H 15'24	
max. Earth dist.	2102 Sep 26 20:03	2° E 29'31	1.72213 AU	min. Earth dist.	2105 Feb 27 08:47	9° H 45'02	0.27555 AU
				inferior conj	2105 Feb 28 01:36	9° H 18'38	8°47'34
superior conj	2102 Sep 30 02:32	6° E 34'04	1°20'36	minimum elong	2105 Feb 27 23:01	9° H 22'42	8°47'29
minimum elong	2102 Sep 30 08:25	6° E 52'23	1°20'30	morning rise	2105 Mar 02 23:44	7° H 29'53	
	2102 Oct 18 20:51	0° M		direct	2105 Mar 20 18:45	1° H 25'56	
evening rise	2102 Nov 07 21:40	25° M 03'38		greatest brilliancy	2105 Mar 29 19:51	2° H 57'33	-4.8m
	2102 Nov 11 20:22	0° A		desc. node	2105 Apr 30 05:44	24° H 01'01	
desc. node	2102 Nov 13 10:53	2° A 00'34			2105 May 06 16:40	0° Y	
	2102 Dec 05 19:38	0° B		morning max el	2105 May 09 02:08	2° Y 18'03	46°05'21
	2102 Dec 29 19:35	0° A			2105 Jun 04 19:32	0° B	
	2103 Jan 22 22:12	0° H			2105 Jul 01 15:10	0° II	
	2103 Feb 16 07:11	0° Y			2105 Jul 27 10:39	0° E	
asc. node	2103 Mar 06 14:07	22° Y 07'22		asc. node	2105 Aug 21 09:13	29° E 44'23	
	2103 Mar 13 04:36	0° B			2105 Aug 21 14:24	0° Q	
	2103 Apr 08 00:45	0° II			2105 Sep 15 05:59	0° M	
	2103 May 05 20:10	0° E			2105 Oct 09 12:25	0° E	
evening max el	2103 May 13 01:08	7° E 08'37	45°30'54	morning set	2105 Nov 02 17:41	0° M 14'53	
	2103 Jun 09 23:22	0° Q			2105 Nov 02 12:56	0° M	
greatest brilliancy	2103 Jun 19 20:37	4° Q 56'10	-4.7m		2105 Nov 26 10:24	0° A	
desc. node	2103 Jun 26 03:35	6° Q 38'49		desc. node	2105 Dec 10 22:46	18° A 15'29	
retrograde	2103 Jun 30 16:38	7° Q 02'01					
evening set	2103 Jul 16 10:22	2° Q 18'31		superior conj	2105 Dec 12 20:10	20° A 38'20	-0°04'34
	2103 Jul 20 07:37	30° R E		minimum elong	2105 Dec 12 18:58	20° A 34'31	0°04'31

behind sun begin	2105 Dec 11 17:33	19°♊14'36		desc. node	2108 May 27 17:38	11°♋46'43	
behind sun end	2105 Dec 13 20:22	21°♊54'27		direct	2108 May 31 13:20	11°♋29'16	
max. Earth dist.	2105 Dec 12 09:54	20°♊06'00	1.71110 AU	greatest brilliancy	2108 Jun 10 14:42	13°♋19'21	-4.7m
	2105 Dec 20 06:45	0°♋			2108 Jul 06 20:33	0°♋	
	2106 Jan 13 03:13	0°♋		morning max el	2108 Jul 19 08:16	11°♋15'20	45°43'28
evening rise	2106 Jan 23 06:39	12°♋44'19			2108 Aug 06 22:22	0°♋	
	2106 Feb 06 01:06	0°♋			2108 Sep 03 03:39	0°♋	
	2106 Mar 02 02:14	0°♋		asc. node	2108 Sep 17 21:10	17°♋03'22	
	2106 Mar 26 09:02	0°♋			2108 Sep 28 19:45	0°♋	
asc. node	2106 Apr 03 02:05	9°♋26'31			2108 Oct 23 14:46	0°♋	
	2106 Apr 20 00:20	0°♋			2108 Nov 16 21:25	0°♋	
	2106 May 15 03:51	0°♋			2108 Dec 10 21:36	0°♋	
	2106 Jun 10 02:27	0°♋			2109 Jan 03 19:10	0°♋	
	2106 Jul 07 13:33	0°♋		desc. node	2109 Jan 07 10:32	4°♋34'28	
evening max el	2106 Jul 23 00:06	15°♋28'37	45°35'43	morning set	2109 Jan 17 14:18	17°♋20'06	
desc. node	2106 Jul 23 15:21	16°♋04'57			2109 Jan 27 16:16	0°♋	
	2106 Aug 08 10:35	0°♋			2109 Feb 20 14:16	0°♋	
greatest brilliancy	2106 Aug 31 13:33	13°♋43'22	-4.8m				
retrograde	2106 Sep 09 19:42	15°♋17'00		superior conj	2109 Feb 27 23:52	9°♋15'44	-1°25'23
evening set	2106 Sep 27 13:40	9°♋25'05		minimum elong	2109 Feb 27 20:39	9°♋05'41	1°25'22
inferior conj	2106 Sep 30 21:53	7°♋23'40	-8°19'07	max. Earth dist.	2109 Mar 03 20:47	14°♋06'15	1.71751 AU
minimum elong	2106 Oct 01 04:16	7°♋13'52	8°18'30		2109 Mar 16 14:28	0°♋	
min. Earth dist.	2106 Oct 01 19:17	6°♋50'48	0.27971 AU	evening rise	2109 Apr 08 20:01	28°♋51'31	
morning rise	2106 Oct 04 18:32	5°♋03'08			2109 Apr 09 18:09	0°♋	
	2106 Oct 16 07:22	30°♋		asc. node	2109 Apr 30 14:03	25°♋41'16	
direct	2106 Oct 22 01:27	29°♋19'25			2109 May 04 02:18	0°♋	
	2106 Oct 27 23:20	0°♋			2109 May 28 15:29	0°♋	
greatest brilliancy	2106 Nov 02 07:14	1°♋40'01	-4.9m		2109 Jun 22 10:38	0°♋	
asc. node	2106 Nov 13 18:41	7°♋56'56			2109 Jul 17 13:59	0°♋	
	2106 Dec 09 06:48	0°♋			2109 Aug 12 06:22	0°♋	
morning max el	2106 Dec 11 16:54	2°♋26'30	46°50'50	desc. node	2109 Aug 20 03:09	8°♋59'57	
	2107 Jan 06 02:13	0°♋			2109 Sep 07 22:07	0°♋	
	2107 Jan 31 19:39	0°♋		evening max el	2109 Oct 04 03:50	27°♋24'16	46°39'17
	2107 Feb 25 19:10	0°♋			2109 Oct 06 20:02	0°♋	
desc. node	2107 Mar 05 08:10	9°♋08'34		greatest brilliancy	2109 Nov 13 10:45	27°♋22'33	-4.9m
	2107 Mar 22 11:24	0°♋		retrograde	2109 Nov 23 03:15	29°♋07'33	
	2107 Apr 16 00:53	0°♋		evening set	2109 Dec 07 09:38	25°♋05'26	
	2107 May 10 13:39	0°♋		asc. node	2109 Dec 11 06:37	22°♋53'10	
	2107 Jun 04 02:10	0°♋		inferior conj	2109 Dec 13 15:05	21°♋27'41	0°36'47
morning set	2107 Jun 15 03:52	13°♋33'15		minimum elong	2109 Dec 13 13:40	21°♋29'50	0°36'20
asc. node	2107 Jun 26 11:41	27°♋26'15		min. Earth dist.	2109 Dec 13 13:45	21°♋29'42	0.26439 AU
	2107 Jun 28 13:49	0°♋		morning rise	2109 Dec 19 17:43	17°♋54'21	
max. Earth dist.	2107 Jul 19 14:11	25°♋49'13	1.73468 AU	direct	2110 Jan 03 01:30	13°♋50'12	
				greatest brilliancy	2110 Jan 13 02:34	15°♋45'42	-4.9m
superior conj	2107 Jul 21 15:53	28°♋22'09	0°55'06		2110 Feb 04 11:44	0°♋	
minimum elong	2107 Jul 21 07:13	27°♋55'28	0°54'47	morning max el	2110 Feb 22 11:49	16°♋44'31	46°49'19
	2107 Jul 22 23:40	0°♋			2110 Mar 07 06:03	0°♋	
	2107 Aug 16 07:23	0°♋		desc. node	2110 Apr 01 20:09	28°♋25'23	
evening rise	2107 Aug 26 13:31	12°♋40'38			2110 Apr 03 05:16	0°♋	
	2107 Sep 09 13:39	0°♋			2110 Apr 29 00:48	0°♋	
	2107 Oct 03 19:38	0°♋			2110 May 24 08:26	0°♋	
desc. node	2107 Oct 16 01:03	15°♋06'41			2110 Jun 18 09:27	0°♋	
	2107 Oct 28 02:23	0°♋			2110 Jul 13 05:05	0°♋	
	2107 Nov 21 10:52	0°♋		asc. node	2110 Jul 23 23:24	13°♋06'06	
	2107 Dec 15 23:10	0°♋			2110 Aug 06 19:02	0°♋	
	2108 Jan 09 20:51	0°♋		morning set	2110 Aug 21 22:58	18°♋39'24	
	2108 Feb 04 17:10	0°♋			2110 Aug 31 03:18	0°♋	
asc. node	2108 Feb 06 04:11	1°♋38'17			2110 Sep 24 07:00	0°♋	
evening max el	2108 Feb 28 20:26	25°♋50'56	46°31'16	max. Earth dist.	2110 Sep 24 09:06	0°♋06'32	1.72264 AU
	2108 Mar 04 01:33	0°♋					
greatest brilliancy	2108 Apr 08 01:30	25°♋47'26	-4.8m	superior conj	2110 Sep 27 18:37	4°♋20'27	1°21'36
retrograde	2108 Apr 18 20:57	27°♋57'13		minimum elong	2110 Sep 27 23:49	4°♋36'40	1°21'32
evening set	2108 May 04 16:57	23°♋02'10			2110 Oct 18 07:54	0°♋	
inferior conj	2108 May 10 04:19	19°♋41'54	4°01'38	evening rise	2110 Nov 05 10:24	22°♋38'20	
minimum elong	2108 May 10 12:18	19°♋29'22	3°59'32		2110 Nov 11 07:35	0°♋	
min. Earth dist.	2108 May 10 04:33	19°♋41'32	0.28652 AU	desc. node	2110 Nov 12 13:02	1°♋32'08	
morning rise	2108 May 16 07:59	15°♋59'26			2110 Dec 05 07:02	0°♋	

	2110 Dec 29 07:12	0°♊		2113 Jun 04 11:57	0°♋
	2111 Jan 22 10:07	0°♌		2113 Jul 01 04:56	0°♍
	2111 Feb 15 19:36	0°♎		2113 Jul 26 23:06	0°♏
asc. node	2111 Mar 05 16:09	21°♎34'37	asc. node	2113 Aug 20 11:17	29°♏15'11
	2111 Mar 12 17:54	0°♐		2113 Aug 21 02:09	0°♑
	2111 Apr 07 15:54	0°♒		2113 Sep 14 17:22	0°♓
	2111 May 05 16:22	0°♈		2113 Oct 08 23:38	0°♉
evening max el	2111 May 10 16:07	4°♈54'48 45°32'01	morning set	2113 Oct 31 07:23	27°♉52'25
	2111 Jun 11 10:10	0°♊		2113 Nov 02 00:06	0°♋
greatest brilliancy	2111 Jun 17 12:44	2°♊46'34 -4.7m		2113 Nov 25 21:34	0°♌
desc. node	2111 Jun 25 05:34	4°♊41'29			
retrograde	2111 Jun 28 08:14	4°♊52'30	superior conj	2113 Dec 10 06:44	18°♌05'25 -0°00'36
evening set	2111 Jul 14 00:21	0°♊11'58	minimum elong	2113 Dec 10 06:34	18°♌04'53 0°00'36
	2111 Jul 14 08:52	30°♋♈	behind sun begin	2113 Dec 09 04:28	16°♌42'48
inferior conj	2111 Jul 19 20:42	26°♈40'29 -5°22'21	behind sun end	2113 Dec 11 08:39	19°♌26'59
minimum elong	2111 Jul 19 11:08	26°♈55'28 5°20'10	max. Earth dist.	2113 Dec 09 18:48	17°♌27'52 1.71122 AU
min. Earth dist.	2111 Jul 19 18:57	26°♈43'14 0.29008 AU	desc. node	2113 Dec 10 00:46	17°♌46'37
morning rise	2111 Jul 24 21:47	23°♈35'44		2113 Dec 19 17:55	0°♍
direct	2111 Aug 10 12:24	18°♈23'11		2114 Jan 12 14:24	0°♎
greatest brilliancy	2111 Aug 21 00:04	20°♈21'30 -4.7m	evening rise	2114 Jan 20 17:06	10°♎11'24
	2111 Sep 06 23:40	0°♊		2114 Feb 05 12:20	0°♌
morning max el	2111 Sep 28 19:11	18°♊59'50 46°07'41		2114 Mar 01 13:33	0°♎
	2111 Oct 09 15:26	0°♓		2114 Mar 25 20:34	0°♐
asc. node	2111 Oct 16 09:00	7°♓10'12	asc. node	2114 Apr 02 04:12	8°♐57'24
	2111 Nov 05 17:20	0°♈		2114 Apr 19 12:18	0°♒
	2111 Dec 01 01:27	0°♋		2114 May 14 16:40	0°♈
	2111 Dec 25 15:15	0°♌		2114 Jun 09 16:58	0°♊
	2112 Jan 18 21:00	0°♍		2114 Jul 07 08:09	0°♓
desc. node	2112 Feb 04 22:19	21°♍12'45	evening max el	2114 Jul 20 15:00	13°♓14'30 45°34'24
	2112 Feb 11 23:45	0°♎	desc. node	2114 Jul 22 17:22	15°♓13'41
	2112 Mar 07 02:07	0°♌		2114 Aug 08 22:55	0°♈
	2112 Mar 31 05:38	0°♎	greatest brilliancy	2114 Aug 29 01:27	11°♈24'24 -4.8m
morning set	2112 Apr 03 08:40	3°♎52'39	retrograde	2114 Sep 07 10:02	12°♈59'40
	2112 Apr 24 11:12	0°♐	evening set	2114 Sep 25 05:32	7°♈04'25
			inferior conj	2114 Sep 28 12:10	5°♈05'13 -8°25'02
superior conj	2112 May 11 10:49	20°♐57'23 -0°38'16	minimum elong	2114 Sep 28 17:49	4°♈56'31 8°24'34
minimum elong	2112 May 11 18:25	21°♐20'49 0°37'56	min. Earth dist.	2114 Sep 29 08:36	4°♈33'48 0.28039 AU
max. Earth dist.	2112 May 13 13:21	23°♐33'01 1.73226 AU	morning rise	2114 Oct 02 05:51	2°♈49'06
	2112 May 18 19:03	0°♒		2114 Oct 07 11:33	30°♋♓
asc. node	2112 May 28 01:51	11°♒25'23	direct	2114 Oct 19 16:57	27°♓00'03
	2112 Jun 12 04:44	0°♈	greatest brilliancy	2114 Oct 30 21:40	29°♓20'01 -4.9m
evening rise	2112 Jun 17 10:42	6°♈26'32		2114 Nov 01 11:47	0°♈
	2112 Jul 06 15:46	0°♊	asc. node	2114 Nov 12 20:45	6°♈37'46
	2112 Jul 31 04:22	0°♓		2114 Dec 09 05:41	0°♋
	2112 Aug 24 19:39	0°♈	morning max el	2114 Dec 09 08:42	0°♋07'41 46°49'54
desc. node	2112 Sep 16 15:12	27°♈35'01		2115 Jan 05 18:41	0°♌
	2112 Sep 18 15:23	0°♋		2115 Jan 31 09:45	0°♍
	2112 Oct 13 17:57	0°♌		2115 Feb 25 08:01	0°♎
	2112 Nov 08 08:30	0°♍	desc. node	2115 Mar 04 10:18	8°♎36'53
	2112 Dec 05 02:50	0°♎		2115 Mar 21 23:30	0°♌
evening max el	2112 Dec 15 18:46	11°♎11'28 47°18'15		2115 Apr 15 12:27	0°♎
	2113 Jan 04 22:01	0°♌		2115 May 10 00:51	0°♐
asc. node	2113 Jan 07 18:24	2°♌17'05		2115 Jun 03 13:08	0°♒
greatest brilliancy	2113 Jan 25 11:54	12°♌57'55 -4.9m	morning set	2115 Jun 12 21:53	11°♒28'03
retrograde	2113 Feb 04 18:19	14°♌59'20	asc. node	2115 Jun 25 13:38	26°♒58'59
evening set	2113 Feb 22 10:22	8°♌55'56		2115 Jun 28 00:39	0°♈
min. Earth dist.	2113 Feb 24 22:25	7°♌23'10 0.27504 AU	max. Earth dist.	2115 Jul 17 12:56	23°♈58'14 1.73488 AU
inferior conj	2113 Feb 25 15:39	6°♌56'11 8°44'47			
minimum elong	2113 Feb 25 12:11	7°♌01'36 8°44'37	superior conj	2115 Jul 19 10:17	26°♈17'47 0°52'41
morning rise	2113 Feb 28 14:12	5°♌06'57	minimum elong	2115 Jul 19 01:45	25°♈51'33 0°52'20
	2113 Mar 11 13:18	30°♋♎		2115 Jul 22 10:28	0°♊
direct	2113 Mar 18 07:36	29°♎04'03		2115 Aug 15 18:16	0°♓
	2113 Mar 25 07:53	0°♌	evening rise	2115 Aug 24 07:19	10°♓33'30
greatest brilliancy	2113 Mar 27 09:31	0°♌36'17 -4.8m		2115 Sep 09 00:42	0°♈
desc. node	2113 Apr 29 07:52	23°♌03'45		2115 Oct 03 06:58	0°♋
morning max el	2113 May 06 16:17	29°♌59'32 46°06'49	desc. node	2115 Oct 15 03:09	14°♋37'37
	2113 May 06 16:28	0°♎		2115 Oct 27 14:06	0°♌

	2115 Nov 20 23:05	0°♄			2118 May 23 20:29	0°♄	
	2115 Dec 15 12:05	0°♁			2118 Jun 17 20:50	0°♁	
	2116 Jan 09 10:54	0°♂			2118 Jul 12 16:04	0°♁	
	2116 Feb 04 09:35	0°♂		asc. node	2118 Jul 23 01:32	12°♁39'29	
asc. node	2116 Feb 05 06:20	0°♂57'55			2118 Aug 06 05:47	0°♁	
evening max el	2116 Feb 26 12:52	23°♂37'38	46°33'48	morning set	2118 Aug 19 16:27	16°♁32'15	
	2116 Mar 04 01:25	0°♄			2118 Aug 30 13:59	0°♁	
greatest brilliancy	2116 Apr 05 18:11	23°♄36'27	-4.8m	max. Earth dist.	2118 Sep 21 23:37	27°♁48'53	1.72320 AU
retrograde	2116 Apr 16 13:47	25°♄46'00			2118 Sep 23 17:44	0°♁	
evening set	2116 May 02 11:38	20°♄47'48					
inferior conj	2116 May 07 20:31	17°♄30'46	4°19'32	superior conj	2118 Sep 25 10:52	2°♁08'05	1°22'28
minimum elong	2116 May 08 04:54	17°♄17'33	4°17'22	minimum elong	2118 Sep 25 15:23	2°♁22'11	1°22'25
min. Earth dist.	2116 May 07 20:18	17°♄31'05	0.28628 AU		2118 Oct 17 18:45	0°♁	
morning rise	2116 May 13 22:35	13°♄50'32		evening rise	2118 Nov 02 23:12	20°♁14'03	
desc. node	2116 May 26 19:36	9°♄25'42			2118 Nov 10 18:35	0°♄	
direct	2116 May 29 05:41	9°♄18'44		desc. node	2118 Nov 11 15:01	1°♄03'53	
greatest brilliancy	2116 Jun 08 05:06	11°♄07'27	-4.7m		2118 Dec 04 18:12	0°♄	
	2116 Jul 07 01:13	0°♁			2118 Dec 28 18:36	0°♁	
morning max el	2116 Jul 17 00:40	9°♁06'45	45°43'17		2119 Jan 21 21:50	0°♂	
	2116 Aug 06 15:28	0°♁			2119 Feb 15 07:49	0°♂	
	2116 Sep 02 17:33	0°♁		asc. node	2119 Mar 04 18:17	21°♂02'44	
asc. node	2116 Sep 16 23:17	16°♁31'29			2119 Mar 12 07:02	0°♄	
	2116 Sep 28 08:16	0°♁			2119 Apr 07 06:58	0°♁	
	2116 Oct 23 02:36	0°♁			2119 May 05 12:50	0°♁	
	2116 Nov 16 08:53	0°♁		evening max el	2119 May 08 06:57	2°♁41'40	45°33'22
	2116 Dec 10 08:54	0°♄			2119 Jun 13 14:05	0°♁	
desc. node	2117 Jan 03 06:22	0°♄		greatest brilliancy	2119 Jun 15 04:33	0°♁38'05	-4.7m
morning set	2117 Jan 06 12:30	4°♄05'31		desc. node	2119 Jun 24 07:34	2°♁41'39	
	2117 Jan 14 23:54	14°♄44'32		retrograde	2119 Jun 26 00:22	2°♁44'59	
	2117 Jan 27 03:23	0°♁			2119 Jul 07 21:14	30°♁	
	2117 Feb 20 01:18	0°♂		evening set	2119 Jul 11 14:41	28°♁06'51	
superior conj	2117 Feb 25 11:15	6°♂46'47	-1°24'47	inferior conj	2119 Jul 17 13:12	24°♁32'40	-5°06'47
minimum elong	2117 Feb 25 07:02	6°♂33'35	1°24'44	minimum elong	2119 Jul 17 03:51	24°♁47'17	5°04'33
max. Earth dist.	2117 Mar 01 09:10	11°♂40'31	1.71697 AU	min. Earth dist.	2119 Jul 17 11:27	24°♁35'24	0.29010 AU
	2117 Mar 16 01:24	0°♂		morning rise	2119 Jul 22 16:50	21°♁24'14	
evening rise	2117 Apr 06 09:49	26°♂31'49		direct	2119 Aug 08 04:19	16°♁15'09	
	2117 Apr 09 05:04	0°♄		greatest brilliancy	2119 Aug 18 16:53	18°♁13'56	-4.7m
asc. node	2117 Apr 29 16:05	25°♄13'53		morning max el	2119 Sep 07 12:12	0°♁	
	2117 May 03 13:16	0°♁			2119 Sep 26 10:09	16°♁46'01	46°06'15
	2117 May 28 02:40	0°♁		asc. node	2119 Oct 09 09:39	0°♁	
	2117 Jun 21 22:15	0°♁			2119 Oct 15 11:03	6°♁29'48	
	2117 Jul 17 02:25	0°♁			2119 Nov 05 07:46	0°♁	
	2117 Aug 11 20:17	0°♁			2119 Nov 30 14:23	0°♁	
desc. node	2117 Aug 19 05:16	8°♁24'37			2119 Dec 25 03:24	0°♄	
	2117 Sep 07 15:03	0°♁		desc. node	2120 Jan 18 08:40	0°♄	
evening max el	2117 Oct 01 17:22	25°♁02'06	46°36'46		2120 Feb 04 00:32	20°♄44'05	
	2117 Oct 06 21:30	0°♄			2120 Feb 11 11:05	0°♁	
greatest brilliancy	2117 Nov 11 00:24	24°♄55'46	-4.9m		2120 Mar 06 13:12	0°♂	
retrograde	2117 Nov 20 14:44	26°♄38'47		morning set	2120 Mar 30 16:32	0°♂	
evening set	2117 Dec 04 22:29	22°♄36'24			2120 Mar 31 22:28	1°♂32'53	
asc. node	2117 Dec 10 08:32	19°♄28'08			2120 Apr 23 21:58	0°♄	
inferior conj	2117 Dec 11 03:19	18°♄59'32	0°12'14	superior conj	2120 May 09 03:05	18°♄46'45	-0°41'15
minimum elong	2117 Dec 11 02:50	19°♄00'15	0°12'04	minimum elong	2120 May 09 11:10	19°♄11'40	0°40'54
transit middle	2117 Dec 11 02:50	19°♄00'15	0°12'04	max. Earth dist.	2120 May 11 06:21	21°♄24'43	1.73187 AU
transit begin	2117 Dec 11 00:01	19°♄04'34			2120 May 18 05:43	0°♁	
transit end	2117 Dec 11 05:40	18°♄55'56		asc. node	2120 May 27 03:52	10°♁58'50	
min. Earth dist.	2117 Dec 11 03:50	18°♄58'44	0.26450 AU		2120 Jun 11 15:23	0°♁	
morning rise	2117 Dec 17 07:05	15°♄24'16		evening rise	2120 Jun 15 05:06	4°♁23'00	
direct	2117 Dec 31 13:46	11°♄21'45			2120 Jul 06 02:31	0°♁	
greatest brilliancy	2118 Jan 10 17:03	13°♄18'52	-4.9m		2120 Jul 30 15:23	0°♁	
	2118 Feb 04 21:29	0°♄			2120 Aug 24 07:08	0°♁	
morning max el	2118 Feb 19 23:58	14°♄16'24	46°50'17	desc. node	2120 Sep 15 17:16	27°♁04'52	
	2118 Mar 07 00:59	0°♁			2120 Sep 18 03:34	0°♁	
desc. node	2118 Mar 31 22:12	27°♁48'03			2120 Oct 13 07:15	0°♄	
	2118 Apr 02 20:13	0°♂			2120 Nov 07 23:44	0°♄	
	2118 Apr 28 13:54	0°♂			2120 Dec 04 22:20	0°♁	

evening max el	2120 Dec 13 08:43	8°  47'42	47°18'21		2123 Apr 14 23:50	0° 	
	2121 Jan 05 11:51	0° 			2123 May 09 11:52	0° 	
asc. node	2121 Jan 06 20:34	1°  02'46			2123 Jun 02 23:54	0° 	
greatest brilliancy	2121 Jan 23 02:05	10°  34'16	-4.9m	morning set	2123 Jun 10 15:37	9°  22'33	
retrograde	2121 Feb 02 08:43	12°  36'13		asc. node	2123 Jun 24 15:46	26°  32'48	
evening set	2121 Feb 19 21:37	6°  36'57			2123 Jun 27 11:18	0° 	
min. Earth dist.	2121 Feb 22 11:35	5°  01'35	0.27451 AU	max. Earth dist.	2123 Jul 15 10:10	22°  03'16	1.73505 AU
inferior conj	2121 Feb 23 05:28	4°  33'40	8°41'00				
minimum elong	2121 Feb 23 01:11	4°  40'23	8°40'43	superior conj	2123 Jul 17 04:34	24°  13'41	0°50'10
morning rise	2121 Feb 26 04:56	2°  43'22		minimum elong	2123 Jul 16 20:13	23°  04'00	0°49'50
	2121 Mar 03 02:12	30° 			2123 Jul 21 21:06	0° 	
direct	2121 Mar 15 20:39	26°  42'11			2123 Aug 15 04:58	0° 	
greatest brilliancy	2121 Mar 24 22:36	28°  14'48	-4.8m	evening rise	2123 Aug 22 01:11	8°  27'13	
	2121 Mar 29 09:43	0° 			2123 Sep 08 11:33	0° 	
desc. node	2121 Apr 28 09:54	22°  08'16			2123 Oct 02 18:04	0° 	
morning max el	2121 May 04 07:04	27°  43'21	46°08'18	desc. node	2123 Oct 14 05:08	14°  08'58	
	2121 May 06 14:55	0° 			2123 Oct 27 01:34	0° 	
	2121 Jun 04 03:45	0° 			2123 Nov 20 11:03	0° 	
	2121 Jun 30 18:13	0° 			2123 Dec 15 00:47	0° 	
	2121 Jul 26 11:08	0° 			2124 Jan 09 00:50	0° 	
asc. node	2121 Aug 19 13:27	28°  04'24		asc. node	2124 Feb 04 08:24	0° 	
	2121 Aug 20 13:30	0° 			2124 Feb 04 02:10	0° 	
	2121 Sep 14 04:22	0° 		evening max el	2124 Feb 24 04:36	21°  22'28	46°36'00
	2121 Oct 08 10:28	0° 			2124 Mar 04 02:30	0° 	
morning set	2121 Oct 28 21:32	25°  03'24		greatest brilliancy	2124 Apr 03 11:14	21°  05'09	-4.8m
	2121 Nov 01 10:54	0° 		retrograde	2124 Apr 14 05:49	23°  33'37	
	2121 Nov 25 08:23	0° 		evening set	2124 Apr 30 06:09	18°  32'17	
max. Earth dist.	2121 Dec 07 04:38	14°  53'36	1.71143 AU	inferior conj	2124 May 05 12:23	15°  18'40	4°37'18
				minimum elong	2124 May 05 21:10	15°  04'51	4°35'04
superior conj	2121 Dec 07 17:21	15°  33'38	0°03'22	min. Earth dist.	2124 May 05 12:03	15°  19'13	0.28603 AU
minimum elong	2121 Dec 07 18:13	15°  36'23	0°03'20	morning rise	2124 May 11 12:37	11°  40'46	
behind sun begin	2121 Dec 06 16:32	14°  15'34		desc. node	2124 May 25 21:39	7°  08'26	
behind sun end	2121 Dec 08 19:55	16°  57'12		direct	2124 May 26 21:29	7°  07'16	
desc. node	2121 Dec 09 02:49	17°  18'56		greatest brilliancy	2124 Jun 05 19:29	8°  54'46	-4.7m
	2121 Dec 19 04:48	0° 			2124 Jul 07 04:12	0° 	
	2122 Jan 12 01:21	0° 		morning max el	2124 Jul 14 15:50	6°  55'07	45°43'13
evening rise	2122 Jan 18 03:11	7°  37'58			2124 Aug 06 08:11	0° 	
	2122 Feb 04 23:21	0° 			2124 Sep 02 07:15	0° 	
	2122 Mar 01 00:41	0° 		asc. node	2124 Sep 16 01:14	15°  05'30	
	2122 Mar 25 07:54	0° 			2124 Sep 27 20:37	0° 	
asc. node	2122 Apr 01 06:13	8°  28'37			2124 Oct 22 14:16	0° 	
	2122 Apr 19 00:05	0° 			2124 Nov 15 20:12	0° 	
	2122 May 14 05:19	0° 			2124 Dec 09 20:02	0° 	
	2122 Jun 09 07:24	0° 			2125 Jan 02 17:23	0° 	
	2122 Jul 07 02:55	0° 		desc. node	2125 Jan 05 14:42	3°  37'50	
evening max el	2122 Jul 18 06:35	11°  02'57	45°33'13	morning set	2125 Jan 12 09:55	12°  10'45	
desc. node	2122 Jul 21 19:34	14°  22'50			2125 Jan 26 14:19	0° 	
	2122 Aug 09 14:44	0° 			2125 Feb 19 12:09	0° 	
greatest brilliancy	2122 Aug 26 13:50	9°  07'37	-4.8m				
retrograde	2122 Sep 05 00:22	10°  04'02		superior conj	2125 Feb 22 22:43	4°  18'28	-1°24'00
evening set	2122 Sep 22 21:24	4°  46'14		minimum elong	2125 Feb 22 17:31	4°  02'10	1°23'57
inferior conj	2122 Sep 26 02:41	2°  48'46	-8°30'11	max. Earth dist.	2125 Feb 26 20:55	9°  13'10	1.71650 AU
minimum elong	2122 Sep 26 07:35	2°  41'12	8°29'50		2125 Mar 15 12:15	0° 	
min. Earth dist.	2122 Sep 26 22:04	2°  18'56	0.28100 AU	evening rise	2125 Apr 03 23:14	24°  11'02	
morning rise	2122 Sep 29 17:34	0°  03'39			2125 Apr 08 15:56	0° 	
	2122 Sep 30 18:40	30° 		asc. node	2125 Apr 28 18:04	24°  04'18	
direct	2122 Oct 17 08:48	24°  01'30			2125 May 03 00:15	0° 	
greatest brilliancy	2122 Oct 28 11:48	27°  01'30	-4.8m		2125 May 27 13:53	0° 	
	2122 Nov 03 16:14	0° 			2125 Jun 21 09:56	0° 	
asc. node	2122 Nov 11 22:44	5°  02'29			2125 Jul 16 14:57	0° 	
morning max el	2122 Dec 06 23:49	27°  48'35	46°48'43		2125 Aug 11 10:23	0° 	
	2122 Dec 09 03:10	0° 		desc. node	2125 Aug 18 07:19	7°  04'44	
	2123 Jan 05 10:30	0° 			2125 Sep 07 08:22	0° 	
	2123 Jan 30 23:27	0° 		evening max el	2125 Sep 29 05:52	22°  13'31	46°34'20
	2123 Feb 24 20:37	0° 			2125 Oct 07 00:25	0° 	
desc. node	2123 Mar 03 12:21	8°  05'33		greatest brilliancy	2125 Nov 08 14:17	22°  07'25	-4.9m
	2123 Mar 21 11:23	0° 		retrograde	2125 Nov 18 02:12	24°  10'36	

evening set	2125 Dec 02 11:34	20°♊07'17			2128 Apr 23 08:50	0°♋	
inferior conj	2125 Dec 08 15:35	16°♊31'51	-0°12'26				
minimum elong	2125 Dec 08 16:04	16°♊31'07	0°12'16	superior conj	2128 May 06 19:33	16°♋36'12	-0°44'09
transit middle	2125 Dec 08 16:04	16°♊31'07	0°12'16	minimum elong	2128 May 07 04:04	17°♋02'28	0°43'47
transit begin	2125 Dec 08 13:18	16°♊35'21		max. Earth dist.	2128 May 09 01:00	19°♋20'59	1.73151 AU
transit end	2125 Dec 08 18:51	16°♊26'54			2128 May 17 16:31	0°♌	
min. Earth dist.	2125 Dec 08 18:07	16°♊28'00	0.26461 AU	asc. node	2128 May 26 06:01	10°♌32'09	
asc. node	2125 Dec 09 10:42	16°♊02'45			2128 Jun 11 02:14	0°♍	
morning rise	2125 Dec 14 20:18	12°♊55'03		evening rise	2128 Jun 12 23:37	2°♍19'14	
direct	2125 Dec 29 01:42	8°♊53'31			2128 Jul 05 13:32	0°♎	
greatest brilliancy	2126 Jan 08 07:54	10°♊52'56	-4.9m		2128 Jul 30 02:43	0°♏	
	2126 Feb 05 04:24	0°♋			2128 Aug 23 18:57	0°♐	
morning max el	2126 Feb 17 12:11	11°♋48'42	46°51'20	desc. node	2128 Sep 14 19:14	26°♐33'19	
	2126 Mar 06 19:17	0°♌			2128 Sep 17 16:08	0°♑	
desc. node	2126 Mar 31 00:13	27°♌11'12			2128 Oct 12 20:59	0°♒	
	2126 Apr 02 10:53	0°♍			2128 Nov 07 15:31	0°♓	
	2126 Apr 28 02:54	0°♎			2128 Dec 04 18:47	0°♑	
	2126 May 23 08:32	0°♋		evening max el	2128 Dec 10 23:32	6°♑25'19	47°18'25
	2126 Jun 17 08:19	0°♌		asc. node	2129 Jan 05 22:40	29°♑45'03	
	2126 Jul 12 03:10	0°♍			2129 Jan 06 06:53	0°♒	
asc. node	2126 Jul 22 03:39	12°♍12'22		greatest brilliancy	2129 Jan 20 15:44	8°♒08'57	-4.9m
	2126 Aug 05 16:40	0°♎		retrograde	2129 Jan 30 23:26	10°♒11'51	
morning set	2126 Aug 17 09:36	14°♎23'46		evening set	2129 Feb 17 08:28	4°♒17'16	
	2126 Aug 30 00:47	0°♏		min. Earth dist.	2129 Feb 20 00:23	2°♒39'10	0.27394 AU
max. Earth dist.	2126 Sep 19 16:28	25°♏38'14	1.72374 AU	inferior conj	2129 Feb 20 19:11	2°♒09'54	8°36'11
				minimum elong	2129 Feb 20 14:05	2°♒17'51	8°35'48
superior conj	2126 Sep 23 02:55	29°♏54'51	1°23'12	morning rise	2129 Feb 23 19:56	0°♒17'58	
minimum elong	2126 Sep 23 06:43	0°♐06'42	1°23'10		2129 Feb 24 07:57	30°♓	
	2126 Sep 23 04:34	0°♑		direct	2129 Mar 13 10:09	24°♓19'19	
	2126 Oct 17 05:43	0°♒		greatest brilliancy	2129 Mar 22 11:03	25°♓51'39	-4.8m
evening rise	2126 Oct 31 12:04	17°♒49'41			2129 Mar 31 13:24	0°♓	
	2126 Nov 10 05:43	0°♓		desc. node	2129 Apr 27 11:56	21°♓13'22	
desc. node	2126 Nov 10 17:04	0°♓35'29		morning max el	2129 May 01 22:08	25°♓27'18	46°09'54
	2126 Dec 04 05:30	0°♔			2129 May 06 12:42	0°♔	
	2126 Dec 28 06:06	0°♕			2129 Jun 03 19:28	0°♋	
	2127 Jan 21 09:37	0°♌			2129 Jun 30 07:37	0°♌	
	2127 Feb 14 20:05	0°♎			2129 Jul 25 23:22	0°♍	
asc. node	2127 Mar 03 20:16	20°♎30'20		asc. node	2129 Aug 18 15:23	28°♍18'02	
	2127 Mar 11 20:15	0°♋			2129 Aug 20 01:09	0°♎	
	2127 Apr 06 22:17	0°♌			2129 Sep 13 15:41	0°♏	
	2127 May 05 10:12	0°♍			2129 Oct 07 21:39	0°♐	
evening max el	2127 May 05 21:59	0°♍28'35	45°34'36	morning set	2129 Oct 26 11:33	23°♐11'33	
greatest brilliancy	2127 Jun 12 19:44	28°♍27'54	-4.7m		2129 Oct 31 22:02	0°♑	
	2127 Jun 18 00:51	0°♎			2129 Nov 24 19:31	0°♒	
desc. node	2127 Jun 23 09:45	0°♎36'14		max. Earth dist.	2129 Dec 04 13:27	12°♒15'16	1.71160 AU
retrograde	2127 Jun 23 16:51	0°♎36'20					
	2127 Jun 29 05:29	30°♓		superior conj	2129 Dec 05 03:53	13°♒00'38	0°07'19
evening set	2127 Jul 09 05:00	26°♓00'16		minimum elong	2129 Dec 05 05:46	13°♒06'36	0°07'13
inferior conj	2127 Jul 15 05:31	22°♓23'30	-4°50'29	behind sun begin	2129 Dec 04 06:10	11°♒52'21	
minimum elong	2127 Jul 14 20:26	22°♓37'41	4°48'17	behind sun end	2129 Dec 06 05:23	14°♒20'51	
min. Earth dist.	2127 Jul 15 03:34	22°♓26'33	0.29015 AU	desc. node	2129 Dec 08 04:57	16°♒50'27	
morning rise	2127 Jul 20 11:43	19°♓11'37			2129 Dec 18 16:00	0°♓	
direct	2127 Aug 05 20:21	14°♓05'44			2130 Jan 11 12:38	0°♔	
greatest brilliancy	2127 Aug 16 09:23	16°♓05'00	-4.7m	evening rise	2130 Jan 15 13:11	5°♔03'13	
	2127 Sep 07 21:56	0°♏			2130 Feb 04 10:42	0°♕	
morning max el	2127 Sep 24 01:51	14°♏33'20	46°04'53		2130 Feb 28 12:08	0°♎	
	2127 Oct 09 03:45	0°♏			2130 Mar 24 19:34	0°♋	
asc. node	2127 Oct 14 13:07	5°♏49'09		asc. node	2130 Mar 31 08:15	7°♋58'58	
	2127 Nov 04 22:17	0°♐			2130 Apr 18 12:11	0°♌	
	2127 Nov 30 03:26	0°♑			2130 May 13 18:18	0°♍	
	2127 Dec 24 15:41	0°♒			2130 Jun 08 22:14	0°♎	
	2128 Jan 17 20:29	0°♓			2130 Jul 06 22:31	0°♏	
desc. node	2128 Feb 03 02:30	20°♓14'05		evening max el	2130 Jul 15 21:52	8°♏49'58	45°31'51
	2128 Feb 10 22:34	0°♔		desc. node	2130 Jul 20 21:31	13°♏29'38	
	2128 Mar 06 00:26	0°♕			2130 Aug 10 12:38	0°♐	
morning set	2128 Mar 29 12:30	29°♕13'16		greatest brilliancy	2130 Aug 24 02:42	6°♐50'29	-4.8m
	2128 Mar 30 03:33	0°♎		retrograde	2130 Sep 02 14:13	8°♐27'23	

evening set	2130 Sep 20 12:57	2° Ω 27'41		minimum elong	2133 Feb 20 03:35	1° Υ 28'29	1°22'58
inferior conj	2130 Sep 23 17:13	0° Ω 31'23	-8°34'23	max. Earth dist.	2133 Feb 24 05:44	6° Υ 35'41	1.71598 AU
minimum elong	2130 Sep 23 21:22	0° Ω 25'00	8°34'08		2133 Mar 14 23:22	0° Υ	
min. Earth dist.	2130 Sep 24 11:46	0° Ω 02'46	0.28163 AU	evening rise	2133 Apr 01 12:21	21° Υ 48'25	
	2130 Sep 24 13:33	30° Υ			2133 Apr 08 03:04	0° Υ	
morning rise	2130 Sep 27 05:35	28° Υ 22'44		asc. node	2133 Apr 27 20:14	24° Υ 18'36	
direct	2130 Oct 15 00:23	22° Υ 25'00			2133 May 02 11:28	0° Π	
greatest brilliancy	2130 Oct 26 02:11	24° Υ 42'00	-4.8m		2133 May 27 01:20	0° Υ	
	2130 Nov 05 03:22	0° Ω			2133 Jun 20 21:51	0° Ω	
asc. node	2130 Nov 11 00:52	4° Ω 08'18			2133 Jul 16 03:42	0° Υ	
morning max el	2130 Dec 04 13:57	25° Ω 25'39	46°47'32		2133 Aug 11 00:45	0° Ω	
	2130 Dec 09 00:25	0° Π		desc. node	2133 Aug 17 09:19	7° Ω 12'14	
	2131 Jan 05 02:31	0° Υ			2133 Sep 07 02:09	0° Π	
	2131 Jan 30 13:23	0° Υ		evening max el	2133 Sep 26 17:49	20° Π 11'39	46°31'50
	2131 Feb 24 09:28	0° \approx			2133 Oct 07 05:05	0° Υ	
desc. node	2131 Mar 02 14:21	7° \approx 33'09		greatest brilliancy	2133 Nov 06 03:40	20° Υ 02'16	-4.9m
	2131 Mar 20 23:32	0° Υ		retrograde	2133 Nov 15 13:53	21° Υ 42'19	
	2131 Apr 14 11:29	0° Υ		evening set	2133 Nov 30 00:48	17° Υ 37'13	
	2131 May 08 23:09	0° Υ		inferior conj	2133 Dec 06 03:51	14° Υ 03'35	-0°37'00
	2131 Jun 02 10:56	0° Π		minimum elong	2133 Dec 06 05:16	14° Υ 01'25	0°36'32
morning set	2131 Jun 08 09:40	7° Π 17'10		min. Earth dist.	2133 Dec 06 08:15	13° Υ 56'53	0.26487 AU
asc. node	2131 Jun 23 17:51	26° Π 05'46		asc. node	2133 Dec 08 12:46	12° Υ 37'30	
	2131 Jun 26 22:11	0° Υ		morning rise	2133 Dec 12 09:21	10° Υ 25'45	
max. Earth dist.	2131 Jul 13 06:54	20° Υ 06'08	1.73519 AU	direct	2133 Dec 26 13:50	6° Υ 24'21	
				greatest brilliancy	2134 Jan 05 22:52	8° Υ 26'21	-4.9m
superior conj	2131 Jul 14 23:13	22° Υ 10'06	0°47'37		2134 Feb 05 09:39	0° Υ	
minimum elong	2131 Jul 14 15:06	21° Υ 45'07	0°47'18	morning max el	2134 Feb 15 01:15	9° Υ 22'01	46°52'19
	2131 Jul 21 07:57	0° Ω			2134 Mar 06 13:30	0° \approx	
	2131 Aug 14 15:53	0° Υ		desc. node	2134 Mar 30 02:20	26° \approx 34'00	
evening rise	2131 Aug 19 19:24	6° Υ 21'19			2134 Apr 02 01:40	0° Υ	
	2131 Sep 07 22:41	0° Ω			2134 Apr 27 16:03	0° Υ	
	2131 Oct 02 05:31	0° Π			2134 May 22 20:43	0° Υ	
desc. node	2131 Oct 13 07:14	13° Π 39'32			2134 Jun 16 19:53	0° Π	
	2131 Oct 26 13:27	0° Υ			2134 Jul 11 14:20	0° Υ	
	2131 Nov 19 23:29	0° Υ		asc. node	2134 Jul 21 05:35	11° Υ 44'32	
	2131 Dec 14 13:57	0° \approx			2134 Aug 05 03:36	0° Ω	
	2132 Jan 08 15:18	0° Υ		morning set	2134 Aug 15 03:08	12° Ω 16'19	
asc. node	2132 Feb 03 10:22	29° Υ 34'56			2134 Aug 29 11:38	0° Υ	
	2132 Feb 03 19:27	0° Υ		max. Earth dist.	2134 Sep 17 11:23	23° Υ 33'58	1.72423 AU
evening max el	2132 Feb 21 19:17	19° Υ 03'25	46°38'18				
	2132 Mar 04 05:23	0° Υ		superior conj	2134 Sep 20 19:29	27° Υ 43'10	1°23'48
greatest brilliancy	2132 Apr 01 04:45	19° Υ 13'26	-4.8m	minimum elong	2134 Sep 20 22:34	27° Υ 52'45	1°23'47
retrograde	2132 Apr 11 21:32	21° Υ 20'31			2134 Sep 22 15:26	0° Ω	
evening set	2132 Apr 28 00:47	16° Υ 15'50			2134 Oct 16 16:41	0° Π	
inferior conj	2132 May 03 04:21	13° Υ 05'56	4°54'36	evening rise	2134 Oct 29 01:32	15° Π 27'19	
minimum elong	2132 May 03 13:27	12° Υ 51'34	4°52'21	desc. node	2134 Nov 09 19:13	0° Υ 07'26	
min. Earth dist.	2132 May 03 04:08	13° Υ 06'17	0.28575 AU		2134 Nov 09 16:50	0° Υ	
morning rise	2132 May 09 02:31	9° Υ 30'31			2134 Dec 03 16:50	0° Υ	
direct	2132 May 24 12:53	4° Υ 55'05			2134 Dec 27 17:41	0° \approx	
desc. node	2132 May 24 23:49	4° Υ 55'20			2135 Jan 20 21:34	0° Υ	
greatest brilliancy	2132 Jun 03 10:27	6° Υ 41'56	-4.7m		2135 Feb 14 08:36	0° Υ	
	2132 Jul 07 05:59	0° Π		asc. node	2135 Mar 02 22:20	19° Υ 57'30	
morning max el	2132 Jul 12 06:25	4° Π 41'22	45°43'24		2135 Mar 11 09:46	0° Υ	
	2132 Aug 06 00:46	0° Υ			2135 Apr 06 14:00	0° Π	
	2132 Sep 01 20:58	0° Ω		evening max el	2135 May 03 13:38	28° Π 16'47	45°36'09
asc. node	2132 Sep 15 03:21	15° Ω 27'40			2135 May 05 08:31	0° Υ	
	2132 Sep 27 09:05	0° Υ		greatest brilliancy	2135 Jun 10 10:49	26° Υ 17'40	-4.7m
	2132 Oct 22 02:07	0° Ω		retrograde	2135 Jun 21 09:45	28° Υ 27'42	
	2132 Nov 15 07:46	0° Π		desc. node	2135 Jun 22 11:42	28° Υ 26'19	
	2132 Dec 09 07:28	0° Υ		evening set	2135 Jul 06 19:33	23° Υ 53'37	
	2133 Jan 02 04:44	0° Υ		inferior conj	2135 Jul 12 21:51	20° Υ 14'22	-4°33'53
desc. node	2133 Jan 04 16:43	3° Υ 08'31		minimum elong	2135 Jul 12 13:05	20° Υ 28'03	4°31'42
morning set	2133 Jan 09 19:27	9° Υ 34'20		min. Earth dist.	2135 Jul 12 19:24	20° Υ 18'12	0.29013 AU
	2133 Jan 26 01:34	0° \approx		morning rise	2135 Jul 18 06:33	16° Υ 59'13	
	2133 Feb 18 23:19	0° Υ		direct	2135 Aug 03 12:51	11° Υ 56'33	
				greatest brilliancy	2135 Aug 14 01:16	13° Υ 55'41	-4.7m
superior conj	2133 Feb 20 09:44	1° Υ 47'46	-1°23'02		2135 Sep 08 04:54	0° Ω	

morning max el	2135 Sep 21 18:17	12°Ω22'58	46°03'37		2138 Feb 27 23:13	0°Υ	
	2135 Oct 08 21:17	0°Π			2138 Mar 24 06:54	0°Ϡ	
asc. node	2135 Oct 13 15:12	5°Π09'23		asc. node	2138 Mar 30 10:22	7°Ϡ30'31	
	2135 Nov 04 12:28	0°♊			2138 Apr 18 00:02	0°Π	
	2135 Nov 29 16:13	0°♋			2138 May 13 07:07	0°♌	
	2135 Dec 24 03:45	0°♍			2138 Jun 08 13:03	0°♎	
	2136 Jan 17 08:08	0°♏			2138 Jul 06 18:28	0°♐	
desc. node	2136 Feb 02 04:31	19°♏44'36		evening max el	2138 Jul 13 12:23	6°♐35'44	45°30'39
	2136 Feb 10 09:57	0°♑		desc. node	2138 Jul 19 23:33	12°♐36'12	
	2136 Mar 05 11:37	0°♒			2138 Aug 11 18:16	0°♑	
morning set	2136 Mar 27 01:56	26°♒51'42		greatest brilliancy	2138 Aug 21 16:14	4°♑35'04	-4.7m
	2136 Mar 29 14:34	0°♓		retrograde	2138 Aug 31 03:49	6°♑11'58	
	2136 Apr 22 19:43	0°♈		evening set	2138 Sep 18 04:13	0°♑10'57	
					2138 Sep 18 11:33	30°♋♐	
superior conj	2136 May 04 11:21	14°♈23'31	-0°47'02	inferior conj	2138 Sep 21 07:51	28°♐15'23	-8°37'43
minimum elong	2136 May 04 20:16	14°♈51'01	0°46'40	minimum elong	2138 Sep 21 11:10	28°♐10'15	8°37'34
max. Earth dist.	2136 May 06 20:06	17°♈18'33	1.73111 AU	min. Earth dist.	2138 Sep 22 01:49	27°♐47'36	0.28221 AU
	2136 May 17 03:18	0°♐		morning rise	2138 Sep 24 17:56	26°♐09'47	
asc. node	2136 May 25 08:02	10°♐05'10		direct	2138 Oct 12 15:22	20°♐08'15	
evening rise	2136 Jun 10 17:38	0°♌14'10		greatest brilliancy	2138 Oct 23 17:02	22°♐24'19	-4.8m
	2136 Jun 10 13:01	0°♍			2138 Nov 06 03:45	0°♑	
	2136 Jul 05 00:28	0°♎		asc. node	2138 Nov 10 02:56	2°♑57'14	
	2136 Jul 29 13:57	0°♏		morning max el	2138 Dec 02 03:25	23°♑02'07	46°46'23
	2136 Aug 23 06:41	0°♐			2138 Dec 08 20:34	0°♋	
desc. node	2136 Sep 13 21:21	26°♑02'40			2139 Jan 04 17:53	0°♍	
	2136 Sep 17 04:36	0°♋			2139 Jan 30 02:49	0°♏	
	2136 Oct 12 10:37	0°♌			2139 Feb 23 21:50	0°♑	
	2136 Nov 07 07:16	0°♍		desc. node	2139 Mar 01 16:29	7°♑02'35	
	2136 Dec 04 15:33	0°♎			2139 Mar 20 11:13	0°♒	
evening max el	2136 Dec 08 14:52	4°♎05'14	47°18'18		2139 Apr 13 22:42	0°♓	
asc. node	2137 Jan 05 00:34	28°♎25'26			2139 May 08 10:02	0°♈	
	2137 Jan 07 08:07	0°♒			2139 Jun 01 21:38	0°♐	
greatest brilliancy	2137 Jan 18 05:12	5°♒44'19	-4.9m	morning set	2139 Jun 06 03:27	5°♐11'58	
retrograde	2137 Jan 28 14:05	7°♒47'55		asc. node	2139 Jun 22 19:48	25°♐39'14	
evening set	2137 Feb 14 18:59	1°♒58'39			2139 Jun 26 08:47	0°♌	
min. Earth dist.	2137 Feb 17 13:02	0°♒17'25	0.27341 AU	max. Earth dist.	2139 Jul 11 01:44	18°♌04'02	1.73534 AU
inferior conj	2137 Feb 18 08:50	29°♎46'37	8°30'26				
minimum elong	2137 Feb 18 02:58	29°♎55'45	8°29'54	superior conj	2139 Jul 12 17:35	20°♌06'32	0°44'59
	2137 Feb 18 00:14	30°♋		minimum elong	2139 Jul 12 09:44	19°♌42'24	0°44'39
morning rise	2137 Feb 21 11:13	27°♎52'26			2139 Jul 20 18:31	0°♎	
direct	2137 Mar 10 23:59	21°♎57'06			2139 Aug 14 02:32	0°♏	
greatest brilliancy	2137 Mar 19 23:18	23°♎28'35	-4.8m	evening rise	2139 Aug 17 13:21	4°♏15'36	
	2137 Apr 01 23:18	0°♒			2139 Sep 07 09:30	0°♑	
desc. node	2137 Apr 26 14:04	20°♒20'08			2139 Oct 01 16:39	0°♋	
morning max el	2137 Apr 29 12:50	23°♒10'31	46°11'15	desc. node	2139 Oct 12 09:18	13°♋11'05	
	2137 May 06 09:36	0°♓			2139 Oct 26 01:01	0°♍	
	2137 Jun 03 10:51	0°♈			2139 Nov 19 11:35	0°♏	
	2137 Jun 29 20:46	0°♐			2139 Dec 14 02:50	0°♑	
	2137 Jul 25 11:23	0°♌			2140 Jan 08 05:30	0°♒	
asc. node	2137 Aug 17 17:29	27°♌49'56		asc. node	2140 Feb 02 12:32	28°♒53'53	
	2137 Aug 19 12:32	0°♎			2140 Feb 03 12:37	0°♓	
	2137 Sep 13 02:44	0°♏		evening max el	2140 Feb 19 09:10	16°♓43'37	46°40'42
	2137 Oct 07 08:33	0°♐			2140 Mar 04 09:17	0°♈	
morning set	2137 Oct 24 01:45	20°♑51'52		greatest brilliancy	2140 Mar 29 22:09	17°♈02'58	-4.8m
	2137 Oct 31 08:53	0°♋		retrograde	2140 Apr 09 13:18	19°♈09'05	
	2137 Nov 24 06:23	0°♌		evening set	2140 Apr 25 19:29	14°♈00'41	
max. Earth dist.	2137 Dec 01 19:40	9°♌29'42	1.71175 AU	inferior conj	2140 Apr 30 20:23	10°♈54'44	5°11'20
				minimum elong	2140 May 01 05:45	10°♈39'58	5°09'06
superior conj	2137 Dec 02 14:54	10°♌30'10	0°11'11	min. Earth dist.	2140 Apr 30 20:19	10°♈54'52	0.28550 AU
minimum elong	2137 Dec 02 17:47	10°♌39'14	0°11'02	morning rise	2140 May 06 16:20	7°♈22'09	
behind sun begin	2137 Dec 01 22:26	9°♌38'23		direct	2140 May 22 03:57	2°♈44'15	
behind sun end	2137 Dec 03 13:08	11°♌40'04		desc. node	2140 May 24 01:45	2°♈48'27	
desc. node	2137 Dec 07 06:56	16°♌22'27		greatest brilliancy	2140 Jun 01 01:50	4°♈31'00	-4.7m
	2137 Dec 18 02:53	0°♏			2140 Jul 07 05:59	0°♐	
	2138 Jan 10 23:34	0°♑		morning max el	2140 Jul 09 21:12	2°♐29'07	45°43'30
evening rise	2138 Jan 12 23:31	2°♑30'38			2140 Aug 05 16:41	0°♌	
	2138 Feb 03 21:41	0°♒			2140 Sep 01 10:17	0°♎	

asc. node	2140 Sep 14 05:27	14°♌56'42			2143 May 05 07:30	0°♊	
	2140 Sep 26 21:11	0°♍		greatest brilliancy	2143 Jun 08 02:14	24°♊08'39	-4.7m
	2140 Oct 21 13:37	0°♌		retrograde	2143 Jun 19 02:46	26°♊19'46	
	2140 Nov 14 18:59	0°♍		desc. node	2143 Jun 21 13:44	26°♊12'36	
	2140 Dec 08 18:32	0°♎		evening set	2143 Jul 04 10:25	21°♊47'47	
	2141 Jan 01 15:42	0°♏		inferior conj	2143 Jul 10 14:15	18°♊06'03	-4°17'00
desc. node	2141 Jan 03 18:40	2°♏40'13		minimum elong	2143 Jul 10 05:52	18°♊19'09	4°14'51
morning set	2141 Jan 07 05:00	6°♏59'02		min. Earth dist.	2143 Jul 10 11:11	18°♊10'50	0.29010 AU
	2141 Jan 25 12:27	0°♐		morning rise	2143 Jul 16 01:20	14°♊47'42	
				direct	2143 Aug 01 05:46	9°♊48'24	
superior conj	2141 Feb 17 20:43	29°♐17'59	-1°21'55	greatest brilliancy	2143 Aug 11 16:31	11°♊46'28	-4.7m
minimum elong	2141 Feb 17 13:39	28°♐55'51	1°21'49		2143 Sep 08 09:28	0°♋	
	2141 Feb 18 10:08	0°♑		morning max el	2143 Sep 19 10:36	10°♋12'59	46°02'08
max. Earth dist.	2141 Feb 21 11:19	3°♑49'08	1.71548 AU		2143 Oct 08 14:20	0°♑	
	2141 Mar 14 10:08	0°♒		asc. node	2143 Oct 12 17:13	4°♑30'05	
evening rise	2141 Mar 30 01:27	19°♒26'53			2143 Nov 04 02:30	0°♒	
	2141 Apr 07 13:50	0°♓			2143 Nov 29 04:58	0°♓	
asc. node	2141 Apr 26 22:14	23°♓51'33			2143 Dec 23 15:49	0°♎	
	2141 May 01 22:19	0°♑			2144 Jan 16 19:46	0°♏	
	2141 May 26 12:25	0°♊		desc. node	2144 Feb 01 06:42	19°♏15'43	
	2141 Jun 20 09:26	0°♋			2144 Feb 09 21:17	0°♐	
	2141 Jul 15 16:14	0°♌			2144 Mar 04 22:44	0°♑	
	2141 Aug 10 15:01	0°♍		morning set	2144 Mar 24 15:12	24°♑29'49	
desc. node	2141 Aug 16 11:26	6°♍36'26			2144 Mar 29 01:30	0°♒	
	2141 Sep 06 20:08	0°♎			2144 Apr 22 06:30	0°♓	
evening max el	2141 Sep 24 06:20	17°♎48'01	46°29'26				
	2141 Oct 07 11:33	0°♎		superior conj	2144 May 02 03:07	12°♓10'48	-0°49'52
greatest brilliancy	2141 Nov 03 16:26	17°♎35'10	-4.9m	minimum elong	2144 May 02 12:23	12°♓39'25	0°49'29
retrograde	2141 Nov 13 02:00	19°♎14'46		max. Earth dist.	2144 May 04 16:27	15°♓20'02	1.73070 AU
evening set	2141 Nov 27 14:10	15°♎07'30			2144 May 16 14:02	0°♑	
inferior conj	2141 Dec 03 16:00	11°♎35'50	-1°01'25	asc. node	2144 May 24 10:02	9°♑38'18	
minimum elong	2141 Dec 03 18:21	11°♎32'16	1°00'40	evening rise	2144 Jun 08 11:44	28°♑09'25	
min. Earth dist.	2141 Dec 03 21:55	11°♎26'51	0.26513 AU		2144 Jun 09 23:47	0°♊	
asc. node	2141 Dec 07 14:41	9°♎14'26			2144 Jul 04 11:23	0°♋	
morning rise	2141 Dec 09 22:06	7°♎57'31			2144 Jul 29 01:10	0°♌	
direct	2141 Dec 24 02:21	3°♎55'49			2144 Aug 22 18:23	0°♍	
greatest brilliancy	2142 Jan 03 13:09	5°♎59'52	-4.9m	desc. node	2144 Sep 12 23:25	25°♍31'48	
	2142 Feb 05 12:43	0°♏			2144 Sep 16 17:07	0°♎	
morning max el	2142 Feb 12 15:15	6°♏58'38	46°53'12		2144 Oct 12 00:26	0°♎	
	2142 Mar 06 06:58	0°♐			2144 Nov 06 23:26	0°♏	
desc. node	2142 Mar 29 04:22	25°♐57'45			2144 Dec 04 13:21	0°♐	
	2142 Apr 01 15:59	0°♑		evening max el	2144 Dec 06 06:09	1°♐44'10	47°17'56
	2142 Apr 27 04:47	0°♒		asc. node	2145 Jan 04 02:44	27°♐02'34	
	2142 May 22 08:32	0°♓			2145 Jan 08 20:31	0°♑	
	2142 Jun 16 07:06	0°♑		greatest brilliancy	2145 Jan 15 19:12	3°♑19'04	-4.9m
	2142 Jul 11 01:10	0°♊		retrograde	2145 Jan 26 04:17	5°♑22'19	
asc. node	2142 Jul 20 07:42	11°♊18'06			2145 Feb 11 15:03	30°♒	
	2142 Aug 04 14:15	0°♋		evening set	2145 Feb 12 05:06	29°♒39'09	
morning set	2142 Aug 12 20:42	10°♋09'51		min. Earth dist.	2145 Feb 15 01:50	27°♒53'50	0.27281 AU
	2142 Aug 28 22:16	0°♌		inferior conj	2145 Feb 15 22:16	27°♒22'02	8°23'48
max. Earth dist.	2142 Sep 15 05:27	21°♌27'41	1.72476 AU	minimum elong	2145 Feb 15 15:40	27°♒32'19	8°23'07
				morning rise	2145 Feb 19 02:32	25°♒25'03	
superior conj	2142 Sep 18 11:55	25°♌31'42	1°24'16	direct	2145 Mar 08 13:23	19°♒33'50	
minimum elong	2142 Sep 18 14:16	25°♌39'00	1°24'16	greatest brilliancy	2145 Mar 17 11:35	21°♒04'28	-4.8m
	2142 Sep 22 02:09	0°♍			2145 Apr 02 23:49	0°♑	
	2142 Oct 16 03:31	0°♎		desc. node	2145 Apr 25 16:04	19°♑27'13	
evening rise	2142 Oct 26 14:45	13°♎04'36		morning max el	2145 Apr 27 02:24	20°♑50'29	46°12'42
desc. node	2142 Nov 08 21:09	29°♎39'07			2145 May 06 05:54	0°♒	
	2142 Nov 09 03:50	0°♎			2145 Jun 03 02:04	0°♓	
	2142 Dec 03 04:01	0°♏			2145 Jun 29 09:54	0°♑	
	2142 Dec 27 05:07	0°♐			2145 Jul 24 23:26	0°♊	
	2143 Jan 20 09:21	0°♑		asc. node	2145 Aug 16 19:35	27°♊21'34	
	2143 Feb 13 20:57	0°♒			2145 Aug 18 23:58	0°♋	
asc. node	2143 Mar 02 00:25	19°♒25'11			2145 Sep 12 13:52	0°♌	
	2143 Mar 10 23:10	0°♓			2145 Oct 06 19:32	0°♍	
	2143 Apr 06 05:44	0°♑		morning set	2145 Oct 21 16:18	18°♍33'00	
evening max el	2143 May 01 06:14	26°♑07'53	45°37'46		2145 Oct 30 19:50	0°♎	

	2145 Nov 23 17:24	0°♊		evening set	2148 Apr 23 14:04	11°♋43'09	
max. Earth dist.	2145 Nov 29 00:27	6°♊39'11	1.71202 AU	inferior conj	2148 Apr 28 12:15	8°♋41'27	5°27'49
				minimum elong	2148 Apr 28 21:50	8°♋26'21	5°25'35
superior conj	2145 Nov 30 02:05	7°♊59'44	0°15'00	min. Earth dist.	2148 Apr 28 12:16	8°♋41'26	0.28525 AU
minimum elong	2145 Nov 30 05:54	8°♊11'47	0°14'50	morning rise	2148 May 04 05:51	5°♋12'11	
behind sun begin	2145 Nov 29 19:03	7°♊37'38		direct	2148 May 19 18:39	0°♋31'12	
behind sun end	2145 Nov 30 16:46	8°♊45'55		desc. node	2148 May 23 03:49	0°♋44'15	
desc. node	2145 Dec 06 09:00	15°♊54'08		greatest brilliancy	2148 May 29 17:08	2°♋18'18	-4.7m
	2145 Dec 17 14:00	0°♋			2148 Jul 07 05:25	0°♋	
evening rise	2146 Jan 10 09:29	29°♋56'00		morning max el	2148 Jul 07 12:38	0°♋17'09	45°43'47
	2146 Jan 10 10:45	0°♋			2148 Aug 05 08:44	0°♋	
	2146 Feb 03 08:56	0°♋			2148 Aug 31 23:48	0°♋	
	2146 Feb 27 10:36	0°♋		asc. node	2148 Sep 13 07:23	14°♋24'26	
	2146 Mar 23 18:32	0°♋			2148 Sep 26 09:34	0°♋	
asc. node	2146 Mar 29 12:21	7°♋00'53			2148 Oct 21 01:25	0°♋	
	2146 Apr 17 12:10	0°♋			2148 Nov 14 06:30	0°♋	
	2146 May 12 20:15	0°♋			2148 Dec 08 05:53	0°♋	
	2146 Jun 08 04:16	0°♋			2149 Jan 01 02:56	0°♋	
	2146 Jul 06 15:16	0°♋		desc. node	2149 Jan 02 20:53	2°♋11'51	
evening max el	2146 Jul 11 02:24	4°♋19'54	45°29'36	morning set	2149 Jan 04 15:08	4°♋24'41	
desc. node	2146 Jul 19 01:44	11°♋41'32			2149 Jan 24 23:37	0°♋	
	2146 Aug 13 13:32	0°♋					
greatest brilliancy	2146 Aug 19 06:12	2°♋20'05	-4.7m	superior conj	2149 Feb 15 07:49	26°♋47'30	-1°20'38
retrograde	2146 Aug 28 17:36	3°♋57'11		minimum elong	2149 Feb 14 23:53	26°♋22'38	1°20'29
	2146 Sep 12 02:42	30°♋			2149 Feb 17 21:15	0°♋	
evening set	2146 Sep 15 19:21	27°♋55'12		max. Earth dist.	2149 Feb 18 17:13	1°♋02'30	1.71508 AU
inferior conj	2146 Sep 18 22:47	25°♋59'56	-8°40'11		2149 Mar 13 21:15	0°♋	
minimum elong	2146 Sep 19 01:15	25°♋56'06	8°40'06	evening rise	2149 Mar 27 14:27	17°♋03'47	
min. Earth dist.	2146 Sep 19 16:22	25°♋32'42	0.28278 AU		2149 Apr 07 00:58	0°♋	
morning rise	2146 Sep 22 06:56	23°♋57'00		asc. node	2149 Apr 26 00:14	23°♋23'14	
direct	2146 Oct 10 06:15	17°♋51'52			2149 May 01 09:34	0°♋	
greatest brilliancy	2146 Oct 21 08:36	20°♋07'48	-4.8m		2149 May 25 23:56	0°♋	
	2146 Nov 06 21:43	0°♋			2149 Jun 19 21:28	0°♋	
asc. node	2146 Nov 09 04:53	1°♋47'45			2149 Jul 15 05:14	0°♋	
morning max el	2146 Nov 29 16:51	20°♋38'18	46°45'11		2149 Aug 10 05:50	0°♋	
	2146 Dec 08 16:15	0°♋		desc. node	2149 Aug 15 13:28	5°♋59'01	
	2147 Jan 04 09:17	0°♋			2149 Sep 06 14:58	0°♋	
	2147 Jan 29 16:27	0°♋		evening max el	2149 Sep 21 19:54	15°♋26'17	46°27'03
	2147 Feb 23 10:29	0°♋			2149 Oct 07 20:55	0°♋	
desc. node	2147 Feb 28 18:30	6°♋30'36		greatest brilliancy	2149 Nov 01 04:56	15°♋07'19	-4.9m
	2147 Mar 19 23:14	0°♋		retrograde	2149 Nov 10 14:43	16°♋46'46	
	2147 Apr 13 10:15	0°♋		evening set	2149 Nov 25 03:55	12°♋37'14	
	2147 May 07 21:15	0°♋		inferior conj	2149 Dec 01 04:15	9°♋07'35	-1°25'42
	2147 Jun 01 08:37	0°♋		minimum elong	2149 Dec 01 07:32	9°♋02'38	1°24'39
morning set	2147 Jun 03 21:01	3°♋05'09		min. Earth dist.	2149 Dec 01 11:26	8°♋56'42	0.26540 AU
asc. node	2147 Jun 21 21:56	25°♋12'25		asc. node	2149 Dec 06 16:52	5°♋53'11	
	2147 Jun 25 19:38	0°♋		morning rise	2149 Dec 07 10:44	5°♋29'09	
max. Earth dist.	2147 Jul 08 21:20	16°♋03'28	1.73549 AU	direct	2149 Dec 21 15:28	1°♋26'59	
				greatest brilliancy	2150 Jan 01 02:59	3°♋32'18	-4.9m
superior conj	2147 Jul 10 11:58	18°♋02'13	0°42'18		2150 Feb 05 14:35	0°♋	
minimum elong	2147 Jul 10 04:25	17°♋39'01	0°41'58	morning max el	2150 Feb 10 05:57	4°♋36'21	46°54'04
	2147 Jul 20 05:22	0°♋			2150 Mar 06 00:18	0°♋	
	2147 Aug 13 13:28	0°♋		desc. node	2150 Mar 28 06:24	25°♋21'02	
evening rise	2147 Aug 15 07:38	2°♋10'06			2150 Apr 01 06:24	0°♋	
	2147 Sep 06 20:38	0°♋			2150 Apr 26 17:45	0°♋	
	2147 Oct 01 04:06	0°♋			2150 May 21 20:39	0°♋	
desc. node	2147 Oct 11 11:18	12°♋41'32			2150 Jun 15 18:39	0°♋	
	2147 Oct 25 12:52	0°♋			2150 Jul 10 12:22	0°♋	
	2147 Nov 18 23:59	0°♋		asc. node	2150 Jul 19 09:49	10°♋50'35	
	2147 Dec 13 16:03	0°♋			2150 Aug 04 01:15	0°♋	
	2148 Jan 07 20:11	0°♋		morning set	2150 Aug 10 14:18	8°♋02'35	
asc. node	2148 Feb 01 14:33	28°♋10'45			2150 Aug 28 09:11	0°♋	
	2148 Feb 03 06:36	0°♋		max. Earth dist.	2150 Sep 12 22:33	19°♋17'36	1.72525 AU
evening max el	2148 Feb 16 22:50	14°♋21'51	46°42'55				
	2148 Mar 04 15:54	0°♋		superior conj	2150 Sep 16 04:32	23°♋19'58	1°24'36
greatest brilliancy	2148 Mar 27 15:07	14°♋49'57	-4.8m	minimum elong	2150 Sep 16 06:09	23°♋24'59	1°24'36
retrograde	2148 Apr 07 05:11	16°♋55'39			2150 Sep 21 13:07	0°♋	

	2150 Oct 15 14:38	0°♌		morning max el	2153 Apr 24 15:16	18°♋28'18	46°14'18
evening rise	2150 Oct 24 04:16	10°♌41'56		desc. node	2153 Apr 24 18:07	18°♋35'17	
desc. node	2150 Nov 07 23:15	29°♌10'25			2153 May 06 01:37	0°♍	
	2150 Nov 08 15:07	0°♌			2153 Jun 02 17:06	0°♌	
	2150 Dec 02 15:31	0°♌			2153 Jun 28 22:56	0°♌	
	2150 Dec 26 16:52	0°♌			2153 Jul 24 11:27	0°♌	
	2151 Jan 19 21:26	0°♋		asc. node	2153 Aug 15 21:32	26°♌52'40	
	2151 Feb 13 09:35	0°♍			2153 Aug 18 11:27	0°♌	
asc. node	2151 Mar 01 02:25	18°♍51'48			2153 Sep 12 01:03	0°♍	
	2151 Mar 10 12:53	0°♌			2153 Oct 06 06:34	0°♌	
	2151 Apr 05 21:58	0°♌		morning set	2153 Oct 19 06:47	16°♌13'49	
evening max el	2151 Apr 28 23:09	23°♌58'56	45°39'13		2153 Oct 30 06:50	0°♌	
	2151 May 05 07:54	0°♌			2153 Nov 23 04:26	0°♌	
greatest brilliancy	2151 Jun 05 18:18	21°♌59'31	-4.7m	max. Earth dist.	2153 Nov 26 05:55	3°♌50'54	1.71228 AU
retrograde	2151 Jun 16 19:30	24°♌10'47					
desc. node	2151 Jun 20 15:55	23°♌53'10		superior conj	2153 Nov 27 13:19	5°♌29'33	0°18'48
evening set	2151 Jul 02 01:30	19°♌41'00		minimum elong	2153 Nov 27 18:03	5°♌44'26	0°18'34
inferior conj	2151 Jul 08 06:41	15°♌56'56	-3°59'40	desc. node	2153 Dec 05 11:08	15°♌26'07	
minimum elong	2151 Jul 07 22:43	16°♌09'23	3°57'35		2153 Dec 17 01:05	0°♌	
min. Earth dist.	2151 Jul 08 03:16	16°♌02'16	0.29004 AU	evening rise	2154 Jan 07 19:29	27°♌21'39	
morning rise	2151 Jul 13 20:03	12°♌35'15			2154 Jan 09 21:55	0°♌	
direct	2151 Jul 29 22:40	7°♌39'36			2154 Feb 02 20:11	0°♋	
greatest brilliancy	2151 Aug 09 07:41	9°♌36'10	-4.7m		2154 Feb 26 21:59	0°♍	
	2151 Sep 08 12:41	0°♌			2154 Mar 23 06:11	0°♌	
morning max el	2151 Sep 17 02:23	8°♌00'59	46°00'43	asc. node	2154 Mar 28 14:24	6°♌31'23	
	2151 Oct 08 07:19	0°♍			2154 Apr 17 00:20	0°♌	
asc. node	2151 Oct 11 19:18	3°♍50'41			2154 May 12 09:25	0°♌	
	2151 Nov 03 16:35	0°♌			2154 Jun 07 19:37	0°♌	
	2151 Nov 28 17:47	0°♌			2154 Jul 06 12:44	0°♍	
	2151 Dec 23 03:59	0°♌		evening max el	2154 Jul 08 16:02	2°♍03'27	45°28'36
	2152 Jan 16 07:33	0°♌		desc. node	2154 Jul 18 03:41	10°♍45'22	
desc. node	2152 Jan 31 08:40	18°♌45'36			2154 Aug 16 14:03	0°♌	
	2152 Feb 09 08:48	0°♌		greatest brilliancy	2154 Aug 16 19:28	0°♌04'32	-4.7m
	2152 Mar 04 10:01	0°♋		retrograde	2154 Aug 26 07:36	1°♌42'42	
morning set	2152 Mar 22 04:36	22°♋07'46			2154 Sep 04 16:06	30°♍	
	2152 Mar 28 12:35	0°♍		evening set	2154 Sep 13 10:02	25°♍39'55	
	2152 Apr 21 17:26	0°♌		inferior conj	2154 Sep 16 13:38	23°♍44'31	-8°41'48
				minimum elong	2154 Sep 16 15:17	23°♍41'59	8°41'46
superior conj	2152 Apr 29 19:01	9°♌58'04	-0°52'36	min. Earth dist.	2154 Sep 17 06:48	23°♍17'57	0.28338 AU
minimum elong	2152 Apr 30 04:34	10°♌27'33	0°52'13	morning rise	2154 Sep 19 20:17	21°♍43'51	
max. Earth dist.	2152 May 02 13:49	13°♌24'15	1.73026 AU	direct	2154 Oct 07 21:10	15°♍35'21	
	2152 May 16 00:54	0°♌		greatest brilliancy	2154 Oct 19 00:28	17°♍51'50	-4.8m
asc. node	2152 May 23 12:12	9°♌11'33			2154 Nov 07 11:10	0°♌	
evening rise	2152 Jun 06 05:53	26°♌04'18		asc. node	2154 Nov 08 07:03	0°♌40'26	
	2152 Jun 09 10:41	0°♌		morning max el	2154 Nov 27 07:07	18°♌16'39	46°44'03
	2152 Jul 03 22:28	0°♌			2154 Dec 08 11:23	0°♌	
	2152 Jul 28 12:34	0°♍			2155 Jan 04 00:25	0°♌	
	2152 Aug 22 06:18	0°♌			2155 Jan 29 05:51	0°♌	
desc. node	2152 Sep 12 01:23	25°♌00'02			2155 Feb 22 22:56	0°♌	
	2152 Sep 16 05:50	0°♌		desc. node	2155 Feb 27 20:31	5°♌59'12	
	2152 Oct 11 14:30	0°♌			2155 Mar 19 11:02	0°♋	
	2152 Nov 06 15:58	0°♌			2155 Apr 12 21:37	0°♍	
evening max el	2152 Dec 03 20:43	29°♌21'05	47°17'24		2155 May 07 08:19	0°♌	
	2152 Dec 04 12:05	0°♌			2155 May 31 19:28	0°♌	
asc. node	2153 Jan 03 04:48	25°♌36'27		morning set	2155 Jun 01 14:37	0°♌58'42	
	2153 Jan 11 04:56	0°♋		asc. node	2155 Jun 20 24:00	24°♌45'51	
greatest brilliancy	2153 Jan 13 09:47	0°♋54'13	-4.9m		2155 Jun 25 06:21	0°♌	
retrograde	2153 Jan 23 17:59	2°♋56'20		max. Earth dist.	2155 Jul 06 18:31	14°♌08'16	1.73560 AU
	2153 Feb 04 16:52	30°♋					
evening set	2153 Feb 09 15:03	27°♌19'44		superior conj	2155 Jul 08 06:27	15°♌58'43	0°39'32
min. Earth dist.	2153 Feb 12 15:09	25°♌29'21	0.27222 AU	minimum elong	2155 Jul 07 23:14	15°♌36'32	0°39'14
inferior conj	2153 Feb 13 11:43	24°♌57'17	8°16'06		2155 Jul 19 16:02	0°♌	
minimum elong	2153 Feb 13 04:27	25°♌08'38	8°15'16	evening rise	2155 Aug 13 02:09	0°♍05'59	
morning rise	2153 Feb 16 18:10	22°♌56'56			2155 Aug 13 00:13	0°♍	
direct	2153 Mar 06 02:15	17°♌10'13			2155 Sep 06 07:37	0°♌	
greatest brilliancy	2153 Mar 15 00:35	18°♌40'37	-4.8m		2155 Sep 30 15:25	0°♌	
	2153 Apr 03 18:02	0°♋		desc. node	2155 Oct 10 13:25	12°♌12'48	

	2155 Oct 25 00:37	0°♊			2158 Mar 31 20:26	0°♋		
	2155 Nov 18 12:18	0°♌			2158 Apr 26 06:22	0°♍		
	2155 Dec 13 05:13	0°♎			2158 May 21 08:24	0°♐		
	2156 Jan 07 10:52	0°♏			2158 Jun 15 05:52	0°♑		
asc. node	2156 Jan 31 16:32	27°♏27'31			2158 Jul 09 23:14	0°♒		
	2156 Feb 03 00:49	0°♓		asc. node	2158 Jul 18 11:44	10°♒23'29		
evening max el	2156 Feb 14 13:06	12°♓02'09	46°45'17		2158 Aug 03 11:56	0°♓		
	2156 Mar 05 00:44	0°♈		morning set	2158 Aug 08 07:56	5°♓56'23		
greatest brilliancy	2156 Mar 25 07:21	12°♈36'30	-4.8m		2158 Aug 27 19:50	0°♈		
retrograde	2156 Apr 04 21:24	14°♈42'37		max. Earth dist.	2158 Sep 10 13:41	17°♈02'32	1.72570 AU	
evening set	2156 Apr 21 08:37	9°♈25'40						
inferior conj	2156 Apr 26 04:00	6°♈28'20	5°43'51	superior conj	2158 Sep 13 21:24	21°♈10'08	1°24'49	
minimum elong	2156 Apr 26 13:45	6°♈12'58	5°41'38	minimum elong	2158 Sep 13 22:16	21°♈12'48	1°24'49	
min. Earth dist.	2156 Apr 26 03:49	6°♈28'37	0.28502 AU		2158 Sep 20 23:48	0°♉		
morning rise	2156 May 01 19:08	3°♈02'48			2158 Oct 15 01:24	0°♊		
	2156 May 08 05:07	30°♋♓		evening rise	2158 Oct 21 18:04	8°♊21'24		
direct	2156 May 17 09:39	28°♓18'16		desc. node	2158 Nov 07 01:22	28°♊42'59		
desc. node	2156 May 22 05:59	28°♓44'57			2158 Nov 08 02:03	0°♋		
	2156 May 27 01:28	0°♌			2158 Dec 02 02:39	0°♌		
greatest brilliancy	2156 May 27 08:00	0°♌05'33	-4.7m		2158 Dec 26 04:18	0°♍		
morning max el	2156 Jul 05 04:58	28°♌08'00	45°44'12		2159 Jan 19 09:15	0°♎		
	2156 Jul 07 03:38	0°♍			2159 Feb 12 22:01	0°♏		
	2156 Aug 05 00:15	0°♎		asc. node	2159 Feb 28 04:29	18°♓19'11		
	2156 Aug 31 12:56	0°♏			2159 Mar 10 02:29	0°♈		
asc. node	2156 Sep 12 09:31	13°♏53'41			2159 Apr 05 14:15	0°♉		
	2156 Sep 25 21:36	0°♐		evening max el	2159 Apr 26 15:25	21°♉48'57	45°40'48	
	2156 Oct 20 12:56	0°♑			2159 May 05 09:16	0°♊		
	2156 Nov 13 17:45	0°♒		greatest brilliancy	2159 Jun 03 10:51	19°♊51'31	-4.7m	
	2156 Dec 07 17:01	0°♋		retrograde	2159 Jun 14 11:35	22°♊02'18		
	2156 Dec 31 13:59	0°♌		desc. node	2159 Jun 19 17:50	21°♊29'30		
desc. node	2157 Jan 01 22:52	1°♌43'23		evening set	2159 Jun 29 16:39	17°♊34'32		
morning set	2157 Jan 02 00:58	1°♌49'58		inferior conj	2159 Jul 05 23:02	13°♊48'29	-3°41'56	
	2157 Jan 24 10:35	0°♍		minimum elong	2159 Jul 05 15:32	14°♊00'13	3°39'57	
				min. Earth dist.	2159 Jul 05 19:37	13°♊53'50	0.28997 AU	
superior conj	2157 Feb 12 18:20	24°♍15'46	-1°19'09	morning rise	2159 Jul 11 14:32	10°♊23'25		
minimum elong	2157 Feb 12 09:35	23°♍48'19	1°18'59	direct	2159 Jul 27 15:09	5°♋31'22		
max. Earth dist.	2157 Feb 16 00:17	28°♍20'06	1.71466 AU	greatest brilliancy	2159 Aug 06 23:11	7°♋26'48	-4.7m	
	2157 Feb 17 08:10	0°♋			2159 Sep 08 14:05	0°♌		
	2157 Mar 13 08:07	0°♍		morning max el	2159 Sep 14 17:16	5°♌47'40	45°59'25	
evening rise	2157 Mar 25 03:06	14°♓40'22			2159 Oct 07 23:40	0°♍		
	2157 Apr 06 11:52	0°♈		asc. node	2159 Oct 10 21:22	3°♍12'26		
asc. node	2157 Apr 25 02:24	22°♈56'16			2159 Nov 03 06:13	0°♎		
	2157 Apr 30 20:34	0°♉			2159 Nov 28 06:13	0°♏		
	2157 May 25 11:13	0°♊			2159 Dec 22 15:46	0°♋		
	2157 Jun 19 09:17	0°♌			2160 Jan 15 18:57	0°♌		
	2157 Jul 14 18:01	0°♍		desc. node	2160 Jan 30 10:41	18°♌16'51		
	2157 Aug 09 20:29	0°♎			2160 Feb 08 19:58	0°♍		
desc. node	2157 Aug 14 15:30	5°♎22'19			2160 Mar 03 20:59	0°♋		
	2157 Sep 06 09:52	0°♏		morning set	2160 Mar 19 17:35	19°♋45'12		
evening max el	2157 Sep 19 10:15	13°♏07'49	46°24'39		2160 Mar 27 23:24	0°♌		
	2157 Oct 08 08:48	0°♐			2160 Apr 21 04:07	0°♍		
greatest brilliancy	2157 Oct 29 17:14	12°♐40'45	-4.9m					
retrograde	2157 Nov 08 03:19	14°♐19'50		superior conj	2160 Apr 27 10:30	7°♌44'41	-0°55'17	
evening set	2157 Nov 22 17:55	10°♐08'05		minimum elong	2160 Apr 27 20:16	8°♌14'52	0°54'55	
inferior conj	2157 Nov 28 16:31	6°♐40'26	-1°49'46	max. Earth dist.	2160 Apr 30 09:36	11°♌24'15	1.72978 AU	
minimum elong	2157 Nov 28 20:41	6°♐34'07	1°48'26		2160 May 15 11:31	0°♉		
min. Earth dist.	2157 Nov 29 00:48	6°♐27'52	0.26574 AU	asc. node	2160 May 22 14:11	8°♉45'00		
morning rise	2157 Dec 04 23:06	3°♐01'59		evening rise	2160 Jun 03 23:32	23°♉58'26		
asc. node	2157 Dec 05 18:54	2°♐36'20			2160 Jun 08 21:22	0°♊		
	2157 Dec 12 05:21	30°♋♌			2160 Jul 03 09:19	0°♌		
direct	2157 Dec 19 04:55	28°♌59'22			2160 Jul 27 23:45	0°♍		
	2157 Dec 26 09:16	0°♋			2160 Aug 21 18:02	0°♎		
greatest brilliancy	2157 Dec 29 16:38	1°♋05'15	-4.9m	desc. node	2160 Sep 11 03:31	24°♎29'21		
	2158 Feb 05 14:56	0°♌			2160 Sep 15 18:25	0°♏		
morning max el	2158 Feb 07 20:20	2°♌13'50	46°54'40		2160 Oct 11 04:27	0°♐		
	2158 Mar 05 17:06	0°♍			2160 Nov 06 08:30	0°♑		
desc. node	2158 Mar 27 08:30	24°♍45'24		evening max el	2160 Dec 01 10:24	26°♑56'49	47°16'56	

	2160 Dec 04 11:20	0°♊		asc. node	2163 Jun 20 01:59	24°♊19'15	
asc. node	2161 Jan 02 06:44	24°♊08'25			2163 Jun 24 17:01	0°♊	
greatest brilliancy	2161 Jan 11 00:43	28°♊30'58 -4.9m		max. Earth dist.	2163 Jul 04 16:49	12°♊16'33	1.73573 AU
	2161 Jan 16 03:11	0°♋					
retrograde	2161 Jan 21 07:23	0°♋31'49		superior conj	2163 Jul 06 00:54	13°♊55'09	0°36'44
	2161 Jan 26 08:45	30°♋		minimum elong	2163 Jul 05 18:04	13°♊34'09	0°36'26
evening set	2161 Feb 07 00:57	25°♋01'48			2163 Jul 19 02:41	0°♋	
min. Earth dist.	2161 Feb 10 04:52	23°♋05'52 0.27167 AU		evening rise	2163 Aug 10 20:38	28°♋01'49	
inferior conj	2161 Feb 11 01:19	22°♋34'00 8°07'29			2163 Aug 12 10:59	0°♌	
minimum elong	2161 Feb 10 17:24	22°♋46'21 8°06'28			2163 Sep 05 18:36	0°♌	
morning rise	2161 Feb 14 10:08	20°♋30'00			2163 Sep 30 02:44	0°♌	
direct	2161 Mar 03 14:50	14°♋47'44		desc. node	2163 Oct 09 15:28	11°♌43'47	
greatest brilliancy	2161 Mar 12 14:22	16°♋18'44 -4.8m			2163 Oct 24 12:25	0°♍	
	2161 Apr 04 07:10	0°♋			2163 Nov 18 00:43	0°♍	
morning max el	2161 Apr 22 04:02	16°♋06'30 46°15'47			2163 Dec 12 18:33	0°♍	
desc. node	2161 Apr 23 20:15	17°♋45'15			2164 Jan 07 01:49	0°♋	
	2161 May 05 20:30	0°♎		asc. node	2164 Jan 30 18:42	26°♋44'04	
	2161 Jun 02 07:44	0°♏			2164 Feb 02 19:33	0°♎	
	2161 Jun 28 11:44	0°♐		evening max el	2164 Feb 12 04:35	9°♎45'20 46°47'43	
	2161 Jul 23 23:16	0°♑			2164 Mar 05 12:41	0°♏	
asc. node	2161 Aug 14 23:40	26°♑24'57		greatest brilliancy	2164 Mar 22 23:13	10°♏22'52 -4.8m	
	2161 Aug 17 22:42	0°♒		retrograde	2164 Apr 02 14:07	12°♏29'46	
	2161 Sep 11 12:00	0°♓		evening set	2164 Apr 19 03:19	7°♏08'28	
	2161 Oct 05 17:24	0°♑		inferior conj	2164 Apr 23 19:49	4°♏15'23 5°59'14	
morning set	2161 Oct 16 21:17	13°♑55'14		minimum elong	2164 Apr 24 05:41	3°♏59'52 5°57'06	
	2161 Oct 29 17:40	0°♒		min. Earth dist.	2164 Apr 23 19:03	4°♏16'37 0.28474 AU	
	2161 Nov 22 15:18	0°♓		morning rise	2164 Apr 29 08:21	0°♏53'55	
max. Earth dist.	2161 Nov 23 12:54	1°♓07'52 1.71256 AU			2164 Apr 30 23:44	30°♓	
				direct	2164 May 15 01:12	26°♓05'48	
superior conj	2161 Nov 25 00:43	3°♓00'22 0°22'33		desc. node	2164 May 21 07:54	26°♓50'17	
minimum elong	2161 Nov 25 06:18	3°♓17'56 0°22'17		greatest brilliancy	2164 May 24 22:17	27°♓52'31 -4.7m	
desc. node	2161 Dec 04 13:07	14°♓58'05			2164 May 30 00:59	0°♔	
	2161 Dec 16 12:01	0°♕		morning max el	2164 Jul 02 21:50	26°♔00'16 45°44'28	
evening rise	2162 Jan 05 05:48	24°♕48'52			2164 Jul 07 00:58	0°♐	
	2162 Jan 09 08:53	0°♖			2164 Aug 04 15:34	0°♑	
	2162 Feb 02 07:13	0°♗			2164 Aug 31 02:04	0°♒	
	2162 Feb 26 09:09	0°♘		asc. node	2164 Sep 11 11:36	13°♒22'34	
	2162 Mar 22 17:39	0°♙			2164 Sep 25 09:43	0°♓	
asc. node	2162 Mar 27 16:32	6°♙02'45			2164 Oct 20 00:33	0°♑	
	2162 Apr 16 12:21	0°♐			2164 Nov 13 05:06	0°♒	
	2162 May 11 22:32	0°♑			2164 Dec 07 04:14	0°♓	
	2162 Jun 07 11:05	0°♒		morning set	2164 Dec 30 10:50	29°♓15'03	
	2162 Jul 06 10:55	0°♓			2164 Dec 31 01:08	0°♔	
evening max el	2162 Jul 06 06:10	29°♒48'39 45°27'47		desc. node	2165 Jan 01 00:52	1°♔14'36	
desc. node	2162 Jul 17 05:45	9°♓48'29			2165 Jan 23 21:41	0°♖	
greatest brilliancy	2162 Aug 14 08:12	27°♓49'00 -4.7m					
retrograde	2162 Aug 23 22:15	29°♓28'59		superior conj	2165 Feb 10 04:43	21°♖42'59 -1°17'30	
evening set	2162 Sep 11 00:23	23°♓25'50		minimum elong	2165 Feb 09 19:14	21°♖13'15 1°17'18	
inferior conj	2162 Sep 14 04:35	21°♓29'40 -8°42'28		max. Earth dist.	2165 Feb 13 09:19	25°♖43'13 1.71426 AU	
minimum elong	2162 Sep 14 05:23	21°♓28'25 8°42'28			2165 Feb 16 19:14	0°♗	
min. Earth dist.	2162 Sep 14 20:57	21°♓04'22 0.28397 AU			2165 Mar 12 19:10	0°♘	
morning rise	2162 Sep 17 10:10	19°♓30'45		evening rise	2165 Mar 22 15:42	12°♘16'10	
direct	2162 Oct 05 12:31	13°♓19'30			2165 Apr 05 22:54	0°♙	
greatest brilliancy	2162 Oct 16 16:08	15°♓36'20 -4.8m		asc. node	2165 Apr 24 04:23	22°♙28'19	
asc. node	2162 Nov 07 09:06	29°♓34'57			2165 Apr 30 07:42	0°♐	
	2162 Nov 07 21:00	0°♑			2165 May 24 22:37	0°♑	
morning max el	2162 Nov 24 22:20	15°♑57'56 46°42'49			2165 Jun 18 21:15	0°♒	
	2162 Dec 08 05:56	0°♒			2165 Jul 14 07:03	0°♓	
	2163 Jan 03 15:17	0°♓			2165 Aug 09 11:32	0°♑	
	2163 Jan 28 19:05	0°♔		desc. node	2165 Aug 13 17:36	4°♑44'51	
	2163 Feb 22 11:13	0°♖			2165 Sep 06 05:36	0°♒	
desc. node	2163 Feb 26 22:39	5°♖28'33		evening max el	2165 Sep 17 00:50	10°♒49'14 46°22'06	
	2163 Mar 18 22:42	0°♗			2165 Oct 09 01:07	0°♓	
	2163 Apr 12 08:51	0°♘		greatest brilliancy	2165 Oct 27 05:56	10°♓14'06 -4.9m	
	2163 May 06 19:16	0°♙		retrograde	2165 Nov 05 15:29	11°♓52'09	
morning set	2163 May 30 08:20	28°♙52'52		evening set	2165 Nov 20 08:09	7°♙38'15	
	2163 May 31 06:14	0°♐		inferior conj	2165 Nov 26 04:51	4°♙12'47 -2°13'25	

minimum elong	2165 Nov 26 09:51	4°♊05'11	2°11'51			2168 May 14 22:32	0°♊	
min. Earth dist.	2165 Nov 26 14:22	3°♊58'20	0.26608 AU	asc. node		2168 May 21 16:12	8°♊17'22	
morning rise	2165 Dec 02 11:13	0°♊34'22		evening rise		2168 Jun 01 17:09	21°♊51'15	
	2165 Dec 03 13:56	30°♋				2168 Jun 08 08:25	0°♋	
asc. node	2165 Dec 04 20:52	29°♋22'47				2168 Jul 02 20:32	0°♋	
direct	2165 Dec 16 18:15	26°♋31'18				2168 Jul 27 11:15	0°♋	
greatest brilliancy	2165 Dec 27 06:25	28°♋37'36	-4.9m			2168 Aug 21 06:04	0°♋	
	2165 Dec 30 10:57	0°♋		desc. node		2168 Sep 10 05:34	23°♋57'26	
morning max el	2166 Feb 05 09:44	29°♋48'01	46°55'10			2168 Sep 15 07:21	0°♋	
	2166 Feb 05 14:29	0°♋				2168 Oct 10 18:53	0°♋	
	2166 Mar 05 09:51	0°♋				2168 Nov 06 01:47	0°♋	
desc. node	2166 Mar 26 10:33	24°♋09'03		evening max el		2168 Nov 28 23:21	24°♋29'10	47°16'09
	2166 Mar 31 10:36	0°♋				2168 Dec 04 12:21	0°♋	
	2166 Apr 25 19:11	0°♋		asc. node		2169 Jan 01 08:55	22°♋35'24	
	2166 May 20 20:23	0°♋		greatest brilliancy		2169 Jan 08 15:12	26°♋04'39	-4.9m
	2166 Jun 14 17:17	0°♋		retrograde		2169 Jan 18 20:23	28°♋04'40	
	2166 Jul 09 10:18	0°♋		evening set		2169 Feb 04 10:16	22°♋41'03	
asc. node	2166 Jul 17 13:54	9°♋56'32		min. Earth dist.		2169 Feb 07 18:19	20°♋39'23	0.27113 AU
	2166 Aug 02 22:50	0°♋		inferior conj		2169 Feb 08 14:32	20°♋07'57	7°57'46
morning set	2166 Aug 06 01:50	3°♋50'26		minimum elong		2169 Feb 08 06:00	20°♋21'13	7°56'33
	2166 Aug 27 06:42	0°♋		morning rise		2169 Feb 12 01:59	18°♋00'07	
max. Earth dist.	2166 Sep 08 04:23	14°♋45'21	1.72623 AU	direct		2169 Mar 01 02:56	12°♋22'16	
				greatest brilliancy		2169 Mar 10 04:04	13°♋54'29	-4.9m
superior conj	2166 Sep 11 14:31	19°♋00'18	1°24'53			2169 Apr 04 17:42	0°♋	
minimum elong	2166 Sep 11 14:38	19°♋00'42	1°24'54	morning max el		2169 Apr 19 16:55	13°♋43'18	46°17'27
	2166 Sep 20 10:45	0°♋		desc. node		2169 Apr 22 22:15	16°♋54'17	
	2166 Oct 14 12:30	0°♋				2169 May 05 15:24	0°♋	
evening rise	2166 Oct 19 07:55	6°♋00'02				2169 Jun 01 22:36	0°♋	
desc. node	2166 Nov 06 03:19	28°♋13'52				2169 Jun 28 00:48	0°♋	
	2166 Nov 07 13:20	0°♋				2169 Jul 23 11:22	0°♋	
	2166 Dec 01 14:10	0°♋		asc. node		2169 Aug 14 01:45	25°♋56'10	
	2166 Dec 25 16:06	0°♋				2169 Aug 17 10:14	0°♋	
	2167 Jan 18 21:27	0°♋				2169 Sep 10 23:13	0°♋	
	2167 Feb 12 10:51	0°♋				2169 Oct 05 04:28	0°♋	
asc. node	2167 Feb 27 06:35	17°♋45'20		morning set		2169 Oct 14 12:17	11°♋37'37	
	2167 Mar 09 16:35	0°♋				2169 Oct 29 04:43	0°♋	
	2167 Apr 05 07:14	0°♋		max. Earth dist.		2169 Nov 20 23:46	28°♋36'12	1.71291 AU
evening max el	2167 Apr 24 07:04	19°♋36'18	45°42'28			2169 Nov 22 02:26	0°♋	
	2167 May 05 12:32	0°♋						
greatest brilliancy	2167 Jun 01 03:53	17°♋43'17	-4.7m	superior conj		2169 Nov 22 12:25	0°♋31'22	0°26'13
retrograde	2167 Jun 12 03:33	19°♋53'33		minimum elong		2169 Nov 22 18:48	0°♋51'26	0°25'55
desc. node	2167 Jun 18 19:55	19°♋00'41		desc. node		2169 Dec 03 15:11	14°♋29'31	
evening set	2167 Jun 27 08:08	15°♋27'24				2169 Dec 15 23:15	0°♋	
inferior conj	2167 Jul 03 15:35	11°♋39'50	-3°24'04	evening rise		2170 Jan 02 16:03	22°♋14'54	
minimum elong	2167 Jul 03 08:35	11°♋50'49	3°22'10			2170 Jan 08 20:12	0°♋	
min. Earth dist.	2167 Jul 03 12:25	11°♋44'48	0.28986 AU			2170 Feb 01 18:37	0°♋	
morning rise	2167 Jul 09 09:05	8°♋11'35				2170 Feb 25 20:43	0°♋	
direct	2167 Jul 25 07:21	3°♋22'56				2170 Mar 22 05:31	0°♋	
greatest brilliancy	2167 Aug 04 15:20	5°♋17'51	-4.7m	asc. node		2170 Mar 26 18:29	5°♋32'21	
	2167 Sep 08 14:27	0°♋				2170 Apr 16 00:48	0°♋	
morning max el	2167 Sep 12 07:37	3°♋32'30	45°58'08			2170 May 11 12:07	0°♋	
	2167 Oct 07 15:59	0°♋				2170 Jun 07 03:09	0°♋	
asc. node	2167 Oct 09 23:24	2°♋33'45		evening max el		2170 Jul 03 21:07	27°♋35'01	45°27'08
	2167 Nov 02 20:02	0°♋				2170 Jul 06 10:27	0°♋	
	2167 Nov 27 18:56	0°♋		desc. node		2170 Jul 16 07:54	8°♋49'34	
	2167 Dec 22 03:55	0°♋		greatest brilliancy		2170 Aug 11 20:35	25°♋32'36	-4.7m
	2168 Jan 15 06:45	0°♋		retrograde		2170 Aug 21 13:24	27°♋14'42	
desc. node	2168 Jan 29 12:53	17°♋47'22		evening set		2170 Sep 08 14:27	21°♋11'53	
	2168 Feb 08 07:31	0°♋		inferior conj		2170 Sep 11 19:33	19°♋14'22	-8°42'24
	2168 Mar 03 08:20	0°♋		minimum elong		2170 Sep 11 19:31	19°♋14'25	8°42'25
morning set	2168 Mar 17 06:11	17°♋20'09		min. Earth dist.		2170 Sep 12 10:43	18°♋50'57	0.28448 AU
	2168 Mar 27 10:34	0°♋		morning rise		2170 Sep 15 00:23	17°♋16'43	
	2168 Apr 20 15:10	0°♋		direct		2170 Oct 03 04:21	11°♋03'31	
				greatest brilliancy		2170 Oct 14 07:04	13°♋19'54	-4.8m
superior conj	2168 Apr 25 01:50	5°♋29'41	-0°57'53	asc. node		2170 Nov 06 11:04	28°♋30'40	
minimum elong	2168 Apr 25 11:47	6°♋00'26	0°57'32			2170 Nov 08 04:17	0°♋	
max. Earth dist.	2168 Apr 28 03:30	9°♋17'14	1.72929 AU	morning max el		2170 Nov 22 13:59	13°♋40'18	46°41'32

	2170 Dec 08 00:08	0°♌			2173 Jul 13 20:11	0°♐		
	2171 Jan 03 06:05	0°♊			2173 Aug 09 02:47	0°♌		
	2171 Jan 28 08:24	0°♊		desc. node	2173 Aug 12 19:37	4°♌06'51		
	2171 Feb 21 23:41	0°♊			2173 Sep 06 01:54	0°♌		
desc. node	2171 Feb 26 00:38	4°♊56'46		evening max el	2173 Sep 14 14:26	8°♌28'30	46°19'33	
	2171 Mar 18 10:37	0°♋			2173 Oct 09 22:50	0°♊		
	2171 Apr 11 20:22	0°♐		greatest brilliancy	2173 Oct 24 19:12	7°♊48'30	-4.9m	
	2171 May 06 06:29	0°♋		retrograde	2173 Nov 03 03:07	9°♊24'55		
morning set	2171 May 28 01:33	26°♋44'41		evening set	2173 Nov 17 22:33	5°♊08'39		
	2171 May 30 17:13	0°♌		inferior conj	2173 Nov 23 17:11	1°♊45'45	-2°36'47	
asc. node	2171 Jun 19 04:06	23°♌52'21		minimum elong	2173 Nov 23 23:00	1°♊36'55	2°35'00	
	2171 Jun 24 03:53	0°♌		min. Earth dist.	2173 Nov 24 04:14	1°♊28'57	0.26642 AU	
max. Earth dist.	2171 Jul 02 15:51	10°♌26'29	1.73581 AU		2173 Nov 26 15:18	30°♌		
				morning rise	2173 Nov 29 23:02	28°♌07'32		
superior conj	2171 Jul 03 18:56	11°♌49'40	0°33'52	asc. node	2173 Dec 03 23:02	26°♌13'50		
minimum elong	2171 Jul 03 12:31	11°♌29'58	0°33'34	direct	2173 Dec 14 07:02	24°♌03'43		
	2171 Jul 18 13:33	0°♌		greatest brilliancy	2173 Dec 24 20:39	26°♌10'58	-4.9m	
evening rise	2171 Aug 08 15:00	25°♌56'39			2174 Jan 01 14:12	0°♊		
	2171 Aug 11 21:57	0°♐		morning max el	2174 Feb 02 22:07	27°♊20'09	46°55'50	
	2171 Sep 05 05:47	0°♌			2174 Feb 05 12:47	0°♊		
	2171 Sep 29 14:14	0°♌			2174 Mar 05 02:00	0°♊		
desc. node	2171 Oct 08 17:26	11°♌14'04		desc. node	2174 Mar 25 12:33	23°♊33'43		
	2171 Oct 24 00:19	0°♊			2174 Mar 31 00:21	0°♋		
	2171 Nov 17 13:13	0°♊			2174 Apr 25 07:40	0°♐		
	2171 Dec 12 07:58	0°♊			2174 May 20 08:05	0°♋		
	2172 Jan 06 16:59	0°♋			2174 Jun 14 04:30	0°♌		
asc. node	2172 Jan 29 20:42	25°♋59'16			2174 Jul 08 21:13	0°♌		
	2172 Feb 02 14:55	0°♐		asc. node	2174 Jul 16 15:57	9°♌29'40		
evening max el	2172 Feb 09 20:28	7°♐29'05	46°49'47		2174 Aug 02 09:35	0°♌		
	2172 Mar 06 05:12	0°♋		morning set	2174 Aug 03 19:24	1°♌43'55		
greatest brilliancy	2172 Mar 20 14:56	8°♋07'52	-4.8m		2174 Aug 26 17:24	0°♐		
retrograde	2172 Mar 31 06:31	10°♋15'06		max. Earth dist.	2174 Sep 05 19:57	12°♐31'33	1.72674 AU	
evening set	2172 Apr 16 21:48	4°♋49'41						
inferior conj	2172 Apr 21 11:20	2°♋00'48	6°14'19	superior conj	2174 Sep 09 07:25	16°♐50'34	1°24'50	
minimum elong	2172 Apr 21 21:15	1°♋45'12	6°12'15	minimum elong	2174 Sep 09 06:50	16°♐48'44	1°24'51	
min. Earth dist.	2172 Apr 21 09:49	2°♋03'11	0.28447 AU		2174 Sep 19 21:30	0°♌		
	2172 Apr 24 17:06	30°♋			2174 Oct 13 23:23	0°♌		
morning rise	2172 Apr 26 21:03	28°♐43'33		evening rise	2174 Oct 16 21:46	3°♌39'28		
direct	2172 May 12 16:48	23°♐51'51		desc. node	2174 Nov 05 05:24	27°♌45'52		
desc. node	2172 May 20 09:59	24°♐58'33			2174 Nov 07 00:24	0°♊		
greatest brilliancy	2172 May 22 11:57	25°♐37'25	-4.7m		2174 Dec 01 01:29	0°♊		
	2172 May 31 20:17	0°♋			2174 Dec 25 03:42	0°♊		
morning max el	2172 Jun 30 14:03	23°♋50'18	45°44'47		2175 Jan 18 09:24	0°♋		
	2172 Jul 06 21:48	0°♌			2175 Feb 11 23:24	0°♐		
	2172 Aug 04 06:48	0°♌		asc. node	2175 Feb 26 08:33	17°♐12'09		
	2172 Aug 30 15:11	0°♌			2175 Mar 09 06:22	0°♋		
asc. node	2172 Sep 10 13:32	12°♌50'57			2175 Apr 05 00:05	0°♌		
	2172 Sep 24 21:50	0°♐		evening max el	2175 Apr 21 21:45	17°♌22'23	45°44'06	
	2172 Oct 19 12:09	0°♌			2175 May 05 17:03	0°♌		
	2172 Nov 12 16:27	0°♌		greatest brilliancy	2175 May 29 20:36	15°♌35'31	-4.7m	
	2172 Dec 06 15:25	0°♊		retrograde	2175 Jun 09 19:35	17°♌45'46		
morning set	2172 Dec 27 21:16	26°♊42'09		desc. node	2175 Jun 17 22:03	16°♌27'54		
	2172 Dec 30 12:12	0°♊		evening set	2175 Jun 24 23:41	13°♌20'37		
desc. node	2172 Dec 31 03:02	0°♊46'39		inferior conj	2175 Jul 01 08:06	9°♌31'56	-3°05'49	
	2173 Jan 23 08:41	0°♊		minimum elong	2175 Jul 01 01:38	9°♌42'04	3°04'01	
				min. Earth dist.	2175 Jul 01 05:19	9°♌36'18	0.28981 AU	
superior conj	2173 Feb 07 15:23	19°♊11'26	-1°15'42	morning rise	2175 Jul 07 03:34	6°♌00'42		
minimum elong	2173 Feb 07 05:16	18°♊39'43	1°15'27	direct	2175 Jul 22 23:14	1°♌14'59		
max. Earth dist.	2173 Feb 10 21:08	23°♊15'21	1.71388 AU	greatest brilliancy	2175 Aug 02 08:06	3°♌10'14	-4.7m	
	2173 Feb 16 06:11	0°♋			2175 Sep 08 13:29	0°♌		
	2173 Mar 12 06:07	0°♐		morning max el	2175 Sep 09 22:14	1°♌18'41	45°56'56	
evening rise	2173 Mar 20 04:15	9°♐51'56			2175 Oct 07 07:46	0°♐		
	2173 Apr 05 09:53	0°♋		asc. node	2175 Oct 09 01:27	1°♐56'10		
asc. node	2173 Apr 23 06:24	22°♋00'28			2175 Nov 02 09:27	0°♌		
	2173 Apr 29 18:50	0°♌			2175 Nov 27 07:16	0°♌		
	2173 May 24 10:03	0°♌			2175 Dec 21 15:41	0°♊		
	2173 Jun 18 09:17	0°♌			2176 Jan 14 18:11	0°♊		

desc. node	2176 Jan 28 14:47	17°♄18'08		evening set	2178 Sep 06 04:20	19°♎00'19	
	2176 Feb 07 18:42	0°♊		inferior conj	2178 Sep 09 10:41	17°♎00'44	-8°41'32
	2176 Mar 02 19:17	0°♋		minimum elong	2178 Sep 09 09:50	17°♎02'03	8°41'32
morning set	2176 Mar 14 18:48	14°♋56'14		min. Earth dist.	2178 Sep 10 00:25	16°♎39'30	0.28502 AU
	2176 Mar 26 21:19	0°♌		morning rise	2178 Sep 12 15:10	15°♎03'35	
	2176 Apr 20 01:47	0°♍		direct	2178 Sep 30 20:41	8°♎49'20	
				greatest brilliancy	2178 Oct 11 21:36	11°♎04'17	-4.8m
superior conj	2176 Apr 22 17:23	3°♌16'37	-1°00'24	asc. node	2178 Nov 05 13:13	27°♎29'11	
minimum elong	2176 Apr 23 03:27	3°♌47'44	1°00'02		2178 Nov 08 09:04	0°♏	
max. Earth dist.	2176 Apr 25 20:39	7°♌09'12	1.72878 AU	morning max el	2178 Nov 20 05:44	11°♏23'48	46°40'04
	2176 May 14 09:06	0°♐			2178 Dec 07 17:42	0°♐	
asc. node	2176 May 20 18:21	7°♐51'30			2179 Jan 02 20:31	0°♑	
evening rise	2176 May 30 10:56	19°♐45'59			2179 Jan 27 21:22	0°♒	
	2176 Jun 07 19:03	0°♑			2179 Feb 21 11:48	0°♓	
	2176 Jul 02 07:21	0°♒		desc. node	2179 Feb 25 02:42	4°♓26'12	
	2176 Jul 26 22:26	0°♓			2179 Mar 17 22:11	0°♋	
	2176 Aug 20 17:51	0°♏			2179 Apr 11 07:33	0°♌	
desc. node	2176 Sep 09 07:31	23°♏26'03			2179 May 05 17:23	0°♍	
	2176 Sep 14 20:03	0°♐		morning set	2179 May 25 19:00	24°♍38'09	
	2176 Oct 10 09:09	0°♑			2179 May 30 03:54	0°♐	
	2176 Nov 05 19:04	0°♒		asc. node	2179 Jun 18 06:09	23°♐26'14	
evening max el	2176 Nov 26 12:21	22°♒02'55	47°15'25		2179 Jun 23 14:26	0°♑	
	2176 Dec 04 14:14	0°♓		max. Earth dist.	2179 Jun 30 15:14	8°♑38'26	1.73582 AU
asc. node	2176 Dec 31 10:55	20°♓59'44					
greatest brilliancy	2177 Jan 06 05:00	23°♓38'26	-4.9m	superior conj	2179 Jul 01 13:18	9°♒46'14	0°30'57
retrograde	2177 Jan 16 09:44	25°♓38'32		minimum elong	2179 Jul 01 07:21	9°♒27'56	0°30'41
evening set	2177 Feb 01 19:27	20°♓20'58			2179 Jul 18 00:04	0°♓	
min. Earth dist.	2177 Feb 05 07:25	18°♓13'57	0.27060 AU	evening rise	2179 Aug 06 09:47	23°♓53'54	
inferior conj	2177 Feb 06 03:37	17°♓42'38	7°47'07		2179 Aug 11 08:35	0°♔	
minimum elong	2177 Feb 05 18:35	17°♓56'40	7°45'42		2179 Sep 04 16:41	0°♕	
morning rise	2177 Feb 09 17:58	15°♓30'52			2179 Sep 29 01:30	0°♖	
direct	2177 Feb 26 15:11	9°♓57'28		desc. node	2179 Oct 07 19:35	10°♖45'35	
greatest brilliancy	2177 Mar 07 17:22	11°♓30'47	-4.9m		2179 Oct 23 12:05	0°♗	
	2177 Apr 05 00:56	0°♋			2179 Nov 17 01:38	0°♘	
morning max el	2177 Apr 17 06:45	11°♋23'39	46°19'17		2179 Dec 11 21:24	0°♙	
desc. node	2177 Apr 22 00:18	16°♋05'38			2180 Jan 06 08:14	0°♚	
	2177 May 05 09:18	0°♌		asc. node	2180 Jan 28 22:42	25°♚14'15	
	2177 Jun 01 12:47	0°♍			2180 Feb 02 10:42	0°♛	
	2177 Jun 27 13:18	0°♎		evening max el	2180 Feb 07 12:17	5°♛12'51	46°51'55
	2177 Jul 22 22:58	0°♏			2180 Mar 07 03:11	0°♜	
asc. node	2177 Aug 13 03:41	25°♏28'19		greatest brilliancy	2180 Mar 18 07:12	5°♜54'03	-4.8m
	2177 Aug 16 21:20	0°♐		retrograde	2180 Mar 28 22:37	8°♜00'49	
	2177 Sep 10 10:04	0°♑		evening set	2180 Apr 14 16:24	2°♜31'28	
	2177 Oct 04 15:14	0°♒			2180 Apr 18 18:31	30°♜♎	
morning set	2177 Oct 12 03:14	9°♒20'54		inferior conj	2180 Apr 19 02:54	29°♛46'47	6°28'57
	2177 Oct 28 15:30	0°♓		minimum elong	2180 Apr 19 12:48	29°♛31'11	6°26'57
max. Earth dist.	2177 Nov 18 11:17	26°♓07'37	1.71322 AU	min. Earth dist.	2180 Apr 19 00:43	29°♛50'13	0.28414 AU
				morning rise	2180 Apr 24 09:36	26°♛33'48	
superior conj	2177 Nov 20 00:01	28°♓03'01	0°29'50	direct	2180 May 10 08:28	21°♛38'38	
minimum elong	2177 Nov 20 07:09	28°♓25'25	0°29'30	desc. node	2180 May 19 12:09	23°♛11'32	
	2177 Nov 21 13:16	0°♗		greatest brilliancy	2180 May 20 01:35	23°♛22'44	-4.7m
desc. node	2177 Dec 02 17:19	14°♗02'09			2180 Jun 02 01:36	0°♜	
	2177 Dec 15 10:08	0°♘		morning max el	2180 Jun 28 05:34	21°♜39'12	45°45'14
evening rise	2177 Dec 31 02:12	19°♘41'44			2180 Jul 06 17:41	0°♞	
	2178 Jan 08 07:09	0°♙			2180 Aug 03 21:33	0°♟	
	2178 Feb 01 05:41	0°♚			2180 Aug 30 03:57	0°♠	
	2178 Feb 25 07:57	0°♛		asc. node	2180 Sep 09 15:40	12°♠20'49	
	2178 Mar 21 17:03	0°♜			2180 Sep 24 09:39	0°♡	
asc. node	2178 Mar 25 20:33	5°♜03'18			2180 Oct 18 23:32	0°♢	
	2178 Apr 15 12:53	0°♞			2180 Nov 12 03:37	0°♣	
	2178 May 11 01:20	0°♟			2180 Dec 06 02:29	0°♤	
	2178 Jun 06 18:58	0°♠		morning set	2180 Dec 25 07:28	24°♤08'35	
evening max el	2178 Jul 01 12:52	25°♠24'53	45°26'30		2180 Dec 29 23:14	0°♥	
	2178 Jul 06 10:25	0°♡		desc. node	2180 Dec 30 05:01	0°♦18'12	
desc. node	2178 Jul 15 09:50	7°♡50'26			2181 Jan 22 19:41	0°♧	
greatest brilliancy	2178 Aug 09 09:04	23°♡18'09	-4.7m				
retrograde	2178 Aug 19 04:36	25°♡02'05		superior conj	2181 Feb 05 01:32	16°♧38'15	-1°13'43

minimum elong	2181 Feb 04 14:52	16° \approx 04'44	1°13'26			2183 Jul 13 20:32	30° \approx II	
max. Earth dist.	2181 Feb 08 06:03	20° \approx 38'21	1.71348 AU	direct		2183 Jul 20 14:59	29°II05'55	
	2181 Feb 15 17:09	0° \approx				2183 Jul 27 15:17	0° \approx	
	2181 Mar 11 17:03	0° \approx		greatest brilliancy		2183 Jul 31 00:47	1° \approx 01'50	-4.7m
evening rise	2181 Mar 17 16:13	7° \approx 25'52		morning max el		2183 Sep 07 13:39	29° \approx 06'20	45°55'54
	2181 Apr 04 20:51	0° \approx				2183 Sep 08 11:49	0° \approx	
asc. node	2181 Apr 22 08:33	21° \approx 33'09				2183 Oct 06 23:29	0° \approx	
	2181 Apr 29 05:55	0° \approx		asc. node		2183 Oct 08 03:32	1° \approx 18'29	
	2181 May 23 21:28	0° \approx				2183 Nov 01 22:55	0° \approx	
	2181 Jun 17 21:19	0° \approx				2183 Nov 26 19:42	0° \approx	
	2181 Jul 13 09:18	0° \approx				2183 Dec 21 03:34	0° \approx	
	2181 Aug 08 18:06	0° \approx				2184 Jan 14 05:46	0° \approx	
desc. node	2181 Aug 11 21:40	3° \approx 29'03		desc. node		2184 Jan 27 16:52	16° \approx 348'55	
	2181 Sep 05 22:38	0° \approx				2184 Feb 07 06:03	0° \approx	
evening max el	2181 Sep 12 03:12	6° \approx 06'28	46°17'04			2184 Mar 02 06:29	0° \approx	
	2181 Oct 11 04:01	0° \approx		morning set		2184 Mar 12 07:02	12° \approx 30'05	
greatest brilliancy	2181 Oct 22 08:50	5° \approx 24'24	-4.8m			2184 Mar 26 08:23	0° \approx	
retrograde	2181 Oct 31 14:38	6° \approx 59'09				2184 Apr 19 12:46	0° \approx	
evening set	2181 Nov 15 13:17	2° \approx 39'53						
	2181 Nov 20 03:28	30° \approx		superior conj		2184 Apr 20 08:24	1° \approx 00'44	-1°02'50
inferior conj	2181 Nov 21 05:48	29° \approx 19'56	-2°59'37	minimum elong		2184 Apr 20 18:31	1° \approx 32'00	1°02'29
minimum elong	2181 Nov 21 12:21	29° \approx 09'56	2°57'36	max. Earth dist.		2184 Apr 23 11:46	4° \approx 53'45	1.72831 AU
min. Earth dist.	2181 Nov 21 18:30	29° \approx 00'34	0.26686 AU			2184 May 13 20:03	0° \approx	
morning rise	2181 Nov 27 10:53	25° \approx 42'13		asc. node		2184 May 19 20:19	7° \approx II23'55	
asc. node	2181 Dec 03 01:02	23° \approx 11'17		evening rise		2184 May 28 04:12	17° \approx II38'02	
direct	2181 Dec 11 19:42	21° \approx 36'55				2184 Jun 07 06:03	0° \approx	
greatest brilliancy	2181 Dec 22 11:39	23° \approx 45'50	-4.9m			2184 Jul 01 18:32	0° \approx	
	2182 Jan 03 00:02	0° \approx				2184 Jul 26 09:58	0° \approx	
morning max el	2182 Jan 31 10:25	24° \approx 51'35	46°56'15			2184 Aug 20 05:59	0° \approx	
	2182 Feb 05 10:23	0° \approx		desc. node		2184 Sep 08 09:40	22° \approx 54'11	
	2182 Mar 04 18:05	0° \approx				2184 Sep 14 09:10	0° \approx	
desc. node	2182 Mar 24 14:41	22° \approx 58'27				2184 Oct 09 23:52	0° \approx	
	2182 Mar 30 14:09	0° \approx				2184 Nov 05 12:58	0° \approx	
	2182 Apr 24 20:14	0° \approx		evening max el		2184 Nov 24 02:24	19° \approx 39'01	47°14'48
	2182 May 19 19:52	0° \approx				2184 Dec 04 17:45	0° \approx	
	2182 Jun 13 15:46	0° \approx		asc. node		2184 Dec 30 12:53	19° \approx 20'27	
	2182 Jul 08 08:11	0° \approx		greatest brilliancy		2185 Jan 03 18:23	21° \approx 11'44	-4.9m
asc. node	2182 Jul 15 17:53	9° \approx 02'18		retrograde		2185 Jan 13 23:50	23° \approx 12'32	
morning set	2182 Aug 01 13:08	29° \approx 37'43		evening set		2185 Jan 30 04:51	18° \approx 00'49	
	2182 Aug 01 20:24	0° \approx		min. Earth dist.		2185 Feb 02 20:22	15° \approx 48'57	0.27010 AU
	2182 Aug 26 04:10	0° \approx		inferior conj		2185 Feb 03 16:54	15° \approx 17'13	7°35'28
max. Earth dist.	2182 Sep 03 13:38	10° \approx 24'08	1.72722 AU	minimum elong		2185 Feb 03 07:25	15° \approx 31'53	7°33'53
				morning rise		2185 Feb 07 10:17	13° \approx 01'24	
superior conj	2182 Sep 07 00:47	14° \approx 42'05	1°24'40	direct		2185 Feb 24 04:11	7° \approx 32'42	
minimum elong	2182 Sep 06 23:29	14° \approx 38'01	1°24'39	greatest brilliancy		2185 Mar 05 06:20	9° \approx 06'27	-4.9m
	2182 Sep 19 08:18	0° \approx				2185 Apr 05 06:16	0° \approx	
	2182 Oct 13 10:18	0° \approx		morning max el		2185 Apr 14 21:24	9° \approx 05'07	46°20'46
evening rise	2182 Oct 14 12:20	1° \approx 21'07		desc. node		2185 Apr 21 02:26	15° \approx 17'12	
desc. node	2182 Nov 04 07:31	27° \approx 17'50				2185 May 05 03:11	0° \approx	
	2182 Nov 06 11:31	0° \approx				2185 Jun 01 03:16	0° \approx	
	2182 Nov 30 12:52	0° \approx				2185 Jun 27 02:11	0° \approx	
	2182 Dec 24 15:23	0° \approx				2185 Jul 22 10:58	0° \approx	
	2183 Jan 17 21:32	0° \approx		asc. node		2185 Aug 12 05:50	24° \approx 59'57	
	2183 Feb 11 12:15	0° \approx				2185 Aug 16 08:49	0° \approx	
asc. node	2183 Feb 25 10:38	16° \approx 38'14				2185 Sep 09 21:16	0° \approx	
	2183 Mar 08 20:38	0° \approx				2185 Oct 04 02:19	0° \approx	
	2183 Apr 04 17:42	0° \approx		morning set		2185 Oct 09 18:18	7° \approx 03'37	
evening max el	2183 Apr 19 12:10	15° \approx II06'47	45°45'59			2185 Oct 28 02:36	0° \approx	
	2183 May 06 00:11	0° \approx		max. Earth dist.		2185 Nov 15 21:48	23° \approx III34'56	1.71352 AU
greatest brilliancy	2183 May 27 12:53	13° \approx 26'12	-4.7m					
retrograde	2183 Jun 07 12:00	15° \approx 37'05		superior conj		2185 Nov 17 11:55	25° \approx III34'39	0°33'23
desc. node	2183 Jun 16 23:59	13° \approx 49'48		minimum elong		2185 Nov 17 19:43	25° \approx III59'07	0°33'01
evening set	2183 Jun 22 15:20	11° \approx 12'28				2185 Nov 21 00:25	0° \approx	
inferior conj	2183 Jun 29 00:32	7° \approx 23'00	-2°47'12	desc. node		2185 Dec 01 19:16	13° \approx 33'13	
minimum elong	2183 Jun 28 18:39	7° \approx 32'13	2°45'33			2185 Dec 14 21:20	0° \approx	
min. Earth dist.	2183 Jun 28 22:00	7° \approx 26'59	0.28973 AU	evening rise		2185 Dec 28 12:39	17° \approx 308'28	
morning rise	2183 Jul 04 21:54	3° \approx 49'10				2186 Jan 07 18:25	0° \approx	

	2186 Jan 31 17:02	0° H			2188 Aug 29 17:00	0° Ω
	2186 Feb 24 19:28	0° Y		asc. node	2188 Sep 08 17:44	11° Ω 49'32
	2186 Mar 21 04:55	0° B			2188 Sep 23 21:48	0° M
asc. node	2186 Mar 24 22:40	4° B 33'26			2188 Oct 18 11:13	0° Ω
	2186 Apr 15 01:23	0° II			2188 Nov 11 15:03	0° M
	2186 May 10 15:07	0° E			2188 Dec 05 13:47	0° J
	2186 Jun 06 11:36	0° Ω		morning set	2188 Dec 22 17:38	21° J 34'14
evening max el	2186 Jun 29 04:49	23° Ω 13'40	45°25'52	desc. node	2188 Dec 29 07:03	29° J 49'16
	2186 Jul 06 12:22	0° M			2188 Dec 29 10:28	0° Z
desc. node	2186 Jul 14 11:56	6° M 48'35			2189 Jan 22 06:53	0° \approx
greatest brilliancy	2186 Aug 06 22:15	21° M 02'58	-4.7m			
retrograde	2186 Aug 16 19:27	22° M 47'50		superior conj	2189 Feb 02 11:41	14° \approx 04'21 -1°11'34
evening set	2186 Sep 03 17:53	16° M 48'03		minimum elong	2189 Feb 02 00:33	13° \approx 29'23 1°11'16
inferior conj	2186 Sep 07 01:47	14° M 45'50	-8°39'53	max. Earth dist.	2189 Feb 05 11:56	17° \approx 51'07 1.71311 AU
minimum elong	2186 Sep 07 00:08	14° M 48'24	8°39'50		2189 Feb 15 04:20	0° H
min. Earth dist.	2186 Sep 07 14:17	14° M 26'28	0.28549 AU		2189 Mar 11 04:12	0° Y
morning rise	2186 Sep 10 06:15	12° M 48'32		evening rise	2189 Mar 15 04:09	4° Y 58'53
direct	2186 Sep 28 12:48	6° M 34'05			2189 Apr 04 08:01	0° B
greatest brilliancy	2186 Oct 09 11:48	8° M 47'06	-4.8m	asc. node	2189 Apr 21 10:32	21° B 04'42
asc. node	2186 Nov 04 15:15	26° M 27'47			2189 Apr 28 17:12	0° II
	2186 Nov 08 12:34	0° Ω			2189 May 23 09:05	0° E
morning max el	2186 Nov 17 20:37	9° Ω 04'12	46°38'34		2189 Jun 17 09:34	0° Ω
	2186 Dec 07 11:15	0° M			2189 Jul 12 22:45	0° M
	2187 Jan 02 11:07	0° J			2189 Aug 08 09:56	0° Ω
	2187 Jan 27 10:34	0° Z		desc. node	2189 Aug 10 23:46	2° Ω 50'13
	2187 Feb 21 00:10	0° \approx			2189 Sep 05 20:32	0° M
desc. node	2187 Feb 24 04:49	3° \approx 55'02		evening max el	2189 Sep 09 15:21	3° M 42'08 46°14'32
	2187 Mar 17 10:00	0° H			2189 Oct 12 22:59	0° J
	2187 Apr 10 18:59	0° Y		greatest brilliancy	2189 Oct 19 22:21	2° J 59'06 -4.8m
	2187 May 05 04:32	0° B		retrograde	2189 Oct 29 02:19	4° J 32'35
morning set	2187 May 23 12:28	22° B 30'43		evening set	2189 Nov 13 04:03	0° J 09'45
	2187 May 29 14:53	0° II			2189 Nov 13 11:13	30° R M
asc. node	2187 Jun 17 08:08	22° II 58'50		inferior conj	2189 Nov 18 18:18	26° M 53'11 -3°22'02
	2187 Jun 23 01:20	0° E		minimum elong	2189 Nov 19 01:35	26° M 42'07 3°19'51
max. Earth dist.	2187 Jun 28 13:03	6° E 44'31	1.73586 AU	min. Earth dist.	2189 Nov 19 08:42	26° M 31'15 0.26732 AU
				morning rise	2189 Nov 24 22:27	23° M 16'31
superior conj	2187 Jun 29 07:32	7° E 41'15	0°27'59	asc. node	2189 Dec 02 03:00	20° M 13'12
minimum elong	2187 Jun 29 02:04	7° E 24'28	0°27'44	direct	2189 Dec 09 08:03	19° M 09'04
	2187 Jul 17 11:00	0° Ω		greatest brilliancy	2189 Dec 20 02:42	21° M 20'10 -4.9m
evening rise	2187 Aug 04 04:17	21° Ω 49'05			2190 Jan 04 00:36	0° J
	2187 Aug 10 19:38	0° M		morning max el	2190 Jan 28 23:20	22° J 24'08 46°56'45
	2187 Sep 04 03:58	0° Ω			2190 Feb 05 07:23	0° Z
	2187 Sep 28 13:08	0° M			2190 Mar 04 09:59	0° \approx
desc. node	2187 Oct 06 21:37	10° M 15'37		desc. node	2190 Mar 23 16:42	22° \approx 22'54
	2187 Oct 23 00:11	0° J			2190 Mar 30 03:55	0° H
	2187 Nov 16 14:26	0° Z			2190 Apr 24 08:48	0° Y
	2187 Dec 11 11:15	0° \approx			2190 May 19 07:41	0° B
	2188 Jan 06 00:03	0° H			2190 Jun 13 03:06	0° II
asc. node	2188 Jan 28 00:52	24° H 28'13			2190 Jul 07 19:12	0° E
	2188 Feb 02 07:27	0° Y		asc. node	2190 Jul 14 20:05	8° E 35'33
evening max el	2188 Feb 05 03:29	2° Y 54'01	46°54'00	morning set	2190 Jul 30 07:03	27° E 31'54
	2188 Mar 08 10:17	0° B			2190 Aug 01 07:16	0° Ω
greatest brilliancy	2188 Mar 16 00:07	3° B 40'12	-4.8m		2190 Aug 25 15:00	0° M
retrograde	2188 Mar 26 14:22	5° B 45'50		max. Earth dist.	2190 Sep 01 09:09	8° M 22'11 1.72775 AU
evening set	2188 Apr 12 11:03	0° B 12'44				
	2188 Apr 12 19:33	30° R Y		superior conj	2190 Sep 04 18:10	12° M 33'22 1°24'21
inferior conj	2188 Apr 16 18:32	27° Y 32'16	6°42'48	minimum elong	2190 Sep 04 16:09	12° M 27'07 1°24'21
minimum elong	2188 Apr 17 04:21	27° Y 16'47	6°40'56		2190 Sep 18 19:13	0° Ω
min. Earth dist.	2188 Apr 16 15:53	27° Y 36'27	0.28380 AU	evening rise	2190 Oct 12 02:49	29° Ω 02'11
morning rise	2188 Apr 21 22:02	24° Y 23'36			2190 Oct 12 21:22	0° M
direct	2188 May 07 23:46	19° Y 24'58		desc. node	2190 Nov 03 09:28	26° M 48'49
greatest brilliancy	2188 May 17 15:31	21° Y 07'45	-4.7m		2190 Nov 05 22:48	0° J
desc. node	2188 May 18 14:03	21° Y 27'43			2190 Nov 30 00:23	0° Z
	2188 Jun 02 23:09	0° B			2190 Dec 24 03:12	0° \approx
morning max el	2188 Jun 25 20:13	19° B 25'14	45°45'36		2191 Jan 17 09:45	0° H
	2188 Jul 06 13:14	0° II			2191 Feb 11 01:12	0° Y
	2188 Aug 03 12:27	0° E		asc. node	2191 Feb 24 12:43	16° Y 04'05

	2191 Mar 08 11:03	0°♄			2193 Oct 03 13:06	0°♎	
	2191 Apr 04 11:42	0°♈		morning set	2193 Oct 07 09:48	4°♎48'45	
evening max el	2191 Apr 17 03:23	12°♈53'16 45°47'57			2193 Oct 27 13:23	0°♎	
	2191 May 06 09:56	0°♊		max. Earth dist.	2193 Nov 13 07:13	20°♎59'51	1.71387 AU
greatest brilliancy	2191 May 25 04:49	11°♊16'41 -4.7m					
retrograde	2191 Jun 05 04:57	13°♊28'46		superior conj	2193 Nov 15 00:14	23°♎08'33	0°36'49
desc. node	2191 Jun 16 02:05	11°♊07'47		minimum elong	2193 Nov 15 08:36	23°♎34'49	0°36'26
evening set	2191 Jun 20 07:14	9°♊04'26			2193 Nov 20 11:17	0°♊	
inferior conj	2191 Jun 26 17:00	5°♊14'20 -2°28'22		desc. node	2193 Nov 30 21:22	13°♊05'36	
minimum elong	2191 Jun 26 11:43	5°♊22'37 2°26'52			2193 Dec 14 08:17	0°♊	
min. Earth dist.	2191 Jun 26 14:26	5°♊18'23 0.28965 AU		evening rise	2193 Dec 25 22:59	14°♊35'33	
morning rise	2191 Jul 02 16:12	1°♊38'15			2194 Jan 07 05:28	0°♊	
	2191 Jul 05 19:56	30°♋♈			2194 Jan 31 04:12	0°♋	
direct	2191 Jul 18 07:05	26°♈57'15			2194 Feb 24 06:50	0°♋	
greatest brilliancy	2191 Jul 28 16:59	28°♈53'27 -4.7m			2194 Mar 20 16:35	0°♄	
	2191 Jul 31 12:23	0°♊		asc. node	2194 Mar 24 00:38	4°♄03'39	
morning max el	2191 Sep 05 05:58	26°♊56'42 45°54'49			2194 Apr 14 13:41	0°♈	
	2191 Sep 08 09:10	0°♎			2194 May 10 04:42	0°♊	
	2191 Oct 06 14:53	0°♎			2194 Jun 06 04:11	0°♎	
asc. node	2191 Oct 07 05:33	0°♎41'13		evening max el	2194 Jun 26 20:28	21°♎02'47	45°25'18
	2191 Nov 01 12:15	0°♎			2194 Jul 06 15:16	0°♎	
	2191 Nov 26 08:06	0°♎		desc. node	2194 Jul 13 14:04	5°♎46'34	
	2191 Dec 20 15:28	0°♊		greatest brilliancy	2194 Aug 04 12:16	18°♎50'13	-4.7m
	2192 Jan 13 17:20	0°♊		retrograde	2194 Aug 14 10:03	20°♎35'26	
desc. node	2192 Jan 26 19:03	16°♊20'05		evening set	2194 Sep 01 07:19	14°♎38'18	
	2192 Feb 06 17:23	0°♊		inferior conj	2194 Sep 04 17:07	12°♎32'59	-8°37'24
	2192 Mar 01 17:35	0°♋		minimum elong	2194 Sep 04 14:40	12°♎36'48	8°37'20
morning set	2192 Mar 09 18:59	10°♋03'16		min. Earth dist.	2194 Sep 05 04:44	12°♎14'56	0.28591 AU
	2192 Mar 25 19:19	0°♋		morning rise	2194 Sep 07 21:52	10°♎34'57	
				direct	2194 Sep 26 04:40	4°♎20'52	
superior conj	2192 Apr 17 23:18	28°♋44'48 -1°05'10		greatest brilliancy	2194 Oct 07 02:34	6°♎32'17	-4.8m
minimum elong	2192 Apr 18 09:25	29°♋16'06 1°04'51		asc. node	2194 Nov 03 17:14	25°♎29'11	
	2192 Apr 18 23:36	0°♄			2194 Nov 08 13:57	0°♎	
max. Earth dist.	2192 Apr 21 03:51	2°♄41'35 1.72782 AU		morning max el	2194 Nov 15 10:43	6°♎44'06	46°37'06
	2192 May 13 06:52	0°♈			2194 Dec 07 03:58	0°♎	
asc. node	2192 May 18 22:23	6°♈57'01			2195 Jan 02 01:07	0°♊	
evening rise	2192 May 25 21:35	15°♈30'47			2195 Jan 26 23:18	0°♊	
	2192 Jun 06 16:55	0°♊			2195 Feb 20 12:10	0°♊	
	2192 Jul 01 05:34	0°♎		desc. node	2195 Feb 23 06:48	3°♊24'31	
	2192 Jul 25 21:21	0°♎			2195 Mar 16 21:31	0°♋	
	2192 Aug 19 17:58	0°♎			2195 Apr 10 06:09	0°♋	
desc. node	2192 Sep 07 11:42	22°♎22'29			2195 May 04 15:25	0°♄	
	2192 Sep 13 22:10	0°♎		morning set	2195 May 21 05:39	20°♄23'18	
	2192 Oct 09 14:35	0°♊			2195 May 29 01:32	0°♈	
	2192 Nov 05 07:10	0°♊		asc. node	2195 Jun 16 10:17	22°♈33'02	
evening max el	2192 Nov 21 17:12	17°♊17'13 47°13'48			2195 Jun 22 11:53	0°♊	
	2192 Dec 04 23:07	0°♊		max. Earth dist.	2195 Jun 26 09:52	4°♊48'36	1.73585 AU
asc. node	2192 Dec 29 15:04	17°♊37'01					
greatest brilliancy	2193 Jan 01 07:22	18°♊43'52 -4.9m		superior conj	2195 Jun 27 01:40	5°♊37'09	0°24'59
retrograde	2193 Jan 11 13:48	20°♊45'11		minimum elong	2195 Jun 26 20:44	5°♊22'00	0°24'45
evening set	2193 Jan 27 13:54	15°♊39'37			2195 Jul 16 21:33	0°♎	
min. Earth dist.	2193 Jan 31 08:55	13°♊22'50 0.26956 AU		evening rise	2195 Aug 01 22:55	19°♎45'51	
inferior conj	2193 Feb 01 05:47	12°♊50'38 7°22'49			2195 Aug 10 06:20	0°♎	
minimum elong	2193 Jan 31 19:55	13°♊05'51 7°21'03			2195 Sep 03 14:54	0°♎	
morning rise	2193 Feb 05 02:18	10°♊30'35			2195 Sep 28 00:25	0°♎	
direct	2193 Feb 21 17:12	5°♊07'02		desc. node	2195 Oct 05 23:36	9°♎46'38	
greatest brilliancy	2193 Mar 02 18:36	6°♊40'39 -4.9m			2195 Oct 22 11:56	0°♊	
	2193 Apr 05 09:42	0°♋			2195 Nov 16 02:51	0°♊	
morning max el	2193 Apr 12 11:46	6°♋46'09 46°22'22			2195 Dec 11 00:45	0°♊	
desc. node	2193 Apr 20 04:25	14°♋29'35			2196 Jan 05 15:37	0°♋	
	2193 May 04 20:28	0°♋		asc. node	2196 Jan 27 02:52	23°♋42'15	
	2193 May 31 17:20	0°♄			2196 Feb 02 04:28	0°♋	
	2193 Jun 26 14:43	0°♈		evening max el	2196 Feb 02 17:39	0°♋33'29	46°55'48
	2193 Jul 21 22:37	0°♊			2196 Mar 10 07:53	0°♄	
asc. node	2193 Aug 11 07:53	24°♊32'12		greatest brilliancy	2196 Mar 13 17:15	1°♄26'55	-4.8m
	2193 Aug 15 19:58	0°♎		retrograde	2196 Mar 24 05:40	3°♄31'08	
	2193 Sep 09 08:09	0°♎			2196 Apr 06 11:18	30°♋♈	

evening set	2196 Apr 10 05:33	27° Υ 54'10		superior conj	2198 Sep 02 11:27	10° η 25'16	1°23'56
inferior conj	2196 Apr 14 10:03	25° Υ 18'05	6°56'09	minimum elong	2198 Sep 02 08:46	10° η 16'56	1°23'55
minimum elong	2196 Apr 14 19:42	25° Υ 02'50	6°54'24		2198 Sep 18 05:52	0° Ω	
min. Earth dist.	2196 Apr 14 07:16	25° Υ 22'29	0.28348 AU	evening rise	2198 Oct 09 17:26	26° Ω 44'34	
morning rise	2196 Apr 19 10:11	22° Υ 13'57			2198 Oct 12 08:11	0° \mathbb{M}	
direct	2196 May 05 14:21	17° Υ 11'23		desc. node	2198 Nov 02 11:35	26° \mathbb{M} 21'00	
greatest brilliancy	2196 May 15 05:58	18° Υ 53'38	-4.8m		2198 Nov 05 09:50	0° \propto	
desc. node	2196 May 17 16:11	19° Υ 48'13			2198 Nov 29 11:42	0° Ξ	
	2196 Jun 03 14:51	0° \mathcal{B}			2198 Dec 23 14:50	0° \approx	
morning max el	2196 Jun 23 10:30	17° \mathcal{B} 10'57	45°46'13		2199 Jan 16 21:49	0° \mathcal{H}	
	2196 Jul 06 07:55	0° \mathbb{I}			2199 Feb 10 14:00	0° Υ	
	2196 Aug 03 02:47	0° \mathcal{E}		asc. node	2199 Feb 23 14:43	15° Υ 30'19	
	2196 Aug 29 05:33	0° Ω			2199 Mar 08 01:21	0° \mathcal{B}	
asc. node	2196 Sep 07 19:42	11° Ω 19'19			2199 Apr 04 05:50	0° \mathbb{I}	
	2196 Sep 23 09:31	0° η		evening max el	2199 Apr 14 19:25	10° \mathbb{I} 42'32	45°49'54
	2196 Oct 17 22:29	0° Ω			2199 May 06 22:41	0° \mathcal{E}	
	2196 Nov 11 02:06	0° \mathbb{M}		greatest brilliancy	2199 May 22 20:32	9° \mathcal{E} 07'39	-4.7m
	2196 Dec 05 00:43	0° \propto		retrograde	2199 Jun 02 22:05	11° \mathcal{E} 20'50	
morning set	2196 Dec 20 04:15	19° \propto 02'28		desc. node	2199 Jun 15 04:11	8° \mathcal{E} 22'19	
desc. node	2196 Dec 28 09:13	29° \propto 21'57		evening set	2199 Jun 17 23:19	6° \mathcal{E} 56'45	
	2196 Dec 28 21:19	0° Ξ		inferior conj	2199 Jun 24 09:27	3° \mathcal{E} 06'02	-2°09'20
	2197 Jan 21 17:41	0° \approx		minimum elong	2199 Jun 24 04:47	3° \mathcal{E} 13'19	2°08'00
				min. Earth dist.	2199 Jun 24 06:39	3° \mathcal{E} 10'25	0.28956 AU
superior conj	2197 Jan 30 22:10	11° \approx 32'44	-1°09'18		2199 Jun 29 11:40	30° \mathcal{R} \mathbb{I}	
minimum elong	2197 Jan 30 10:40	10° \approx 56'36	1°08'57	morning rise	2199 Jun 30 10:22	29° \mathbb{I} 27'52	
max. Earth dist.	2197 Feb 02 16:07	14° \approx 59'46	1.71276 AU	direct	2199 Jul 15 23:41	24° \mathbb{I} 49'01	
	2197 Feb 14 15:06	0° \mathcal{H}		greatest brilliancy	2199 Jul 26 08:42	26° \mathbb{I} 44'54	-4.7m
	2197 Mar 10 14:58	0° Υ			2199 Aug 02 13:30	0° \mathcal{E}	
evening rise	2197 Mar 12 16:13	2° Υ 33'25		morning max el	2199 Sep 02 22:50	24° \mathcal{E} 48'53	45°53'44
	2197 Apr 03 18:50	0° \mathcal{B}			2199 Sep 08 05:38	0° Ω	
asc. node	2197 Apr 20 12:34	20° \mathcal{B} 37'23		asc. node	2199 Oct 06 07:38	0° η 04'49	
	2197 Apr 28 04:12	0° \mathbb{I}			2199 Oct 06 05:55	0° η	
	2197 May 22 20:25	0° \mathcal{E}			2199 Nov 01 01:20	0° Ω	
	2197 Jun 16 21:33	0° Ω			2199 Nov 25 20:16	0° \mathbb{M}	
	2197 Jul 12 11:58	0° η			2199 Dec 20 03:10	0° \propto	
	2197 Aug 08 01:37	0° Ω			2200 Jan 13 04:46	0° Ξ	
desc. node	2197 Aug 10 01:47	2° Ω 11'52		desc. node	2200 Jan 25 20:56	15° Ξ 50'42	
	2197 Sep 05 18:48	0° \mathbb{M}			2200 Feb 06 04:35	0° \approx	
evening max el	2197 Sep 07 03:41	1° \mathbb{M} 19'43	46°12'10		2200 Mar 02 04:36	0° \mathcal{H}	
	2197 Oct 15 19:48	0° \propto		morning set	2200 Mar 08 06:54	7° \mathcal{H} 36'29	
greatest brilliancy	2197 Oct 17 11:25	0° \propto 34'51	-4.8m		2200 Mar 26 06:11	0° Υ	
retrograde	2197 Oct 26 14:29	2° \propto 07'48					
	2197 Nov 05 22:40	30° \mathcal{R} \mathbb{M}		superior conj	2200 Apr 16 14:11	26° Υ 28'56	-1°07'25
evening set	2197 Nov 10 19:03	27° \mathbb{M} 40'49		minimum elong	2200 Apr 17 00:14	27° Υ 00'03	1°07'06
inferior conj	2197 Nov 16 06:55	24° \mathbb{M} 27'50	-3°43'52		2200 Apr 19 10:21	0° \mathcal{B}	
minimum elong	2197 Nov 16 14:50	24° \mathbb{M} 15'47	3°41'33	max. Earth dist.	2200 Apr 19 21:36	0° \mathcal{B} 34'47	1.72732 AU
min. Earth dist.	2197 Nov 16 22:45	24° \mathbb{M} 03'46	0.26783 AU		2200 May 13 17:35	0° \mathbb{I}	
morning rise	2197 Nov 22 09:56	20° \mathbb{M} 52'46		asc. node	2200 May 19 00:31	6° \mathbb{I} 30'38	
asc. node	2197 Dec 01 05:13	17° \mathbb{M} 22'10		evening rise	2200 May 24 14:58	13° \mathbb{I} 23'51	
direct	2197 Dec 06 21:00	16° \mathbb{M} 42'26			2200 Jun 07 03:42	0° \mathcal{E}	
greatest brilliancy	2197 Dec 17 17:40	18° \mathbb{M} 55'42	-4.9m		2200 Jul 01 16:33	0° Ω	
	2198 Jan 04 18:14	0° \propto			2200 Jul 26 08:44	0° η	
morning max el	2198 Jan 26 13:26	20° \propto 00'48	46°57'18		2200 Aug 20 06:01	0° Ω	
	2198 Feb 05 03:18	0° Ξ		desc. node	2200 Sep 07 13:40	21° Ω 50'25	
	2198 Mar 04 01:17	0° \approx			2200 Sep 14 11:16	0° \mathbb{M}	
desc. node	2198 Mar 22 18:43	21° \approx 48'39			2200 Oct 10 05:30	0° \propto	
	2198 Mar 29 17:12	0° \mathcal{H}			2200 Nov 06 01:49	0° Ξ	
	2198 Apr 23 20:58	0° Υ		evening max el	2200 Nov 20 08:20	14° Ξ 56'20	47°12'44
	2198 May 18 19:10	0° \mathcal{B}			2200 Dec 06 06:39	0° \approx	
	2198 Jun 12 14:09	0° \mathbb{I}		asc. node	2200 Dec 29 17:04	15° \approx 49'16	
	2198 Jul 07 05:59	0° \mathcal{E}		greatest brilliancy	2200 Dec 30 20:33	16° \approx 16'13	-4.9m
asc. node	2198 Jul 13 22:06	8° \mathcal{E} 08'59		retrograde	2201 Jan 10 03:29	18° \approx 17'20	
morning set	2198 Jul 28 00:52	25° \mathcal{E} 26'32		evening set	2201 Jan 25 23:01	13° \approx 18'05	
	2198 Jul 31 17:53	0° Ω		min. Earth dist.	2201 Jan 29 21:38	10° \approx 56'00	0.26905 AU
	2198 Aug 25 01:35	0° η		inferior conj	2201 Jan 30 18:35	10° \approx 23'39	7°09'18
max. Earth dist.	2198 Aug 30 05:25	6° η 23'24	1.72821 AU	minimum elong	2201 Jan 30 08:27	10° \approx 39'19	7°07'21
				morning rise	2201 Feb 03 18:19	7° \approx 59'05	

direct	2201 Feb 20 06:14	2° \approx 41'04		desc. node	2203 Oct 06 01:45	9° \mathbb{M} 17'02	
greatest brilliancy	2201 Mar 01 07:01	4° \approx 14'22	-4.9m		2203 Oct 23 00:06	0° \mathcal{X}	
	2201 Apr 06 11:44	0° \mathcal{H}			2203 Nov 16 15:46	0° \mathcal{Z}	
morning max el	2201 Apr 11 01:35	4° \mathcal{H} 25'23	46°23'58		2203 Dec 11 14:51	0° \approx	
desc. node	2201 Apr 20 06:29	13° \mathcal{H} 42'41			2204 Jan 06 07:57	0° \mathcal{H}	
	2201 May 05 13:30	0° \mathcal{Y}		asc. node	2204 Jan 27 04:52	22° \mathcal{H} 54'14	
	2201 Jun 01 07:20	0° \mathcal{B}		evening max el	2204 Feb 01 07:09	28° \mathcal{H} 09'46	46°57'47
	2201 Jun 27 03:14	0° \mathbb{I}			2204 Feb 03 02:50	0° \mathcal{Y}	
	2201 Jul 22 10:19	0° \mathcal{E}		greatest brilliancy	2204 Mar 12 09:59	29° \mathcal{Y} 11'32	-4.8m
asc. node	2201 Aug 11 09:51	24° \mathcal{E} 03'55			2204 Mar 14 19:10	0° \mathcal{B}	
	2201 Aug 16 07:12	0° \mathcal{O}		retrograde	2204 Mar 22 20:51	1° \mathcal{B} 14'56	
	2201 Sep 09 19:10	0° \mathbb{P}			2204 Mar 30 16:18	30° \mathcal{R} \mathcal{Y}	
	2201 Oct 04 00:04	0° \mathcal{L}		evening set	2204 Apr 08 23:51	25° \mathcal{Y} 33'45	
morning set	2201 Oct 06 01:10	2° \mathcal{L} 32'56		inferior conj	2204 Apr 13 01:25	23° \mathcal{Y} 02'14	7°08'58
	2201 Oct 28 00:22	0° \mathbb{M}		minimum elong	2204 Apr 13 10:51	22° \mathcal{Y} 47'20	7°07'20
max. Earth dist.	2201 Nov 11 13:39	18° \mathbb{M} 14'58	1.71421 AU	min. Earth dist.	2204 Apr 12 22:31	23° \mathcal{Y} 06'49	0.28315 AU
				morning rise	2204 Apr 17 22:07	20° \mathcal{Y} 02'57	
superior conj	2201 Nov 13 12:31	20° \mathbb{M} 41'59	0°40'10	direct	2204 May 04 04:30	14° \mathcal{Y} 55'55	
minimum elong	2201 Nov 13 21:24	21° \mathbb{M} 09'51	0°39'47	greatest brilliancy	2204 May 13 20:35	16° \mathcal{Y} 38'15	-4.8m
	2201 Nov 20 22:18	0° \mathcal{X}		desc. node	2204 May 17 18:18	18° \mathcal{Y} 10'54	
desc. node	2201 Nov 30 23:28	12° \mathcal{X} 37'26			2204 Jun 05 03:11	0° \mathcal{B}	
	2201 Dec 14 19:23	0° \mathcal{Z}		morning max el	2204 Jun 22 01:13	14° \mathcal{B} 56'25	45°46'56
evening rise	2201 Dec 24 09:11	12° \mathcal{Z} 01'48			2204 Jul 07 02:34	0° \mathbb{I}	
	2202 Jan 07 16:40	0° \approx			2204 Aug 03 17:21	0° \mathcal{E}	
	2202 Jan 31 15:33	0° \mathcal{H}			2204 Aug 29 18:25	0° \mathcal{O}	
	2202 Feb 24 18:24	0° \mathcal{Y}		asc. node	2204 Sep 07 21:49	10° \mathcal{O} 48'33	
	2202 Mar 21 04:30	0° \mathcal{B}			2204 Sep 23 21:32	0° \mathbb{P}	
asc. node	2202 Mar 24 02:43	3° \mathcal{B} 33'34			2204 Oct 18 10:05	0° \mathcal{L}	
	2202 Apr 15 02:16	0° \mathbb{I}			2204 Nov 11 13:29	0° \mathbb{M}	
	2202 May 10 18:38	0° \mathcal{E}		greatest brilliancy	2204 Nov 27 02:45	19° \mathbb{M} 28'26	-3.9m
	2202 Jun 06 21:19	0° \mathcal{O}			2204 Dec 05 12:01	0° \mathcal{X}	
evening max el	2202 Jun 25 11:18	18° \mathcal{O} 49'22	45°24'49	morning set	2204 Dec 18 14:43	16° \mathcal{X} 28'52	
	2202 Jul 07 20:11	0° \mathbb{P}		desc. node	2204 Dec 28 11:10	28° \mathcal{X} 52'35	
desc. node	2202 Jul 13 16:00	4° \mathbb{P} 42'08			2204 Dec 29 08:36	0° \mathcal{Z}	
greatest brilliancy	2202 Aug 03 02:26	16° \mathbb{P} 37'09	-4.7m		2205 Jan 22 04:57	0° \approx	
retrograde	2202 Aug 13 00:20	18° \mathbb{P} 22'46					
evening set	2202 Aug 30 20:28	12° \mathbb{P} 28'34		superior conj	2205 Jan 29 08:03	8° \approx 57'43	-1°06'50
inferior conj	2202 Sep 03 08:31	10° \mathbb{P} 19'46	-8°34'12	minimum elong	2205 Jan 28 20:15	8° \approx 20'39	1°06'27
minimum elong	2202 Sep 03 05:16	10° \mathbb{P} 24'51	8°34'03	max. Earth dist.	2205 Jan 31 18:34	12° \approx 01'31	1.71247 AU
min. Earth dist.	2202 Sep 03 19:31	10° \mathbb{P} 02'40	0.28635 AU		2205 Feb 15 02:20	0° \mathcal{H}	
morning rise	2202 Sep 06 13:53	8° \mathbb{P} 20'33		evening rise	2205 Mar 11 03:41	0° \mathcal{Y} 04'43	
direct	2202 Sep 24 20:09	2° \mathbb{P} 07'03			2205 Mar 11 02:10	0° \mathcal{Y}	
greatest brilliancy	2202 Oct 05 18:05	4° \mathbb{P} 17'43	-4.8m		2205 Apr 04 06:05	0° \mathcal{B}	
asc. node	2202 Nov 03 19:24	24° \mathbb{P} 31'20		asc. node	2205 Apr 20 14:42	20° \mathcal{B} 09'01	
	2202 Nov 09 14:30	0° \mathcal{L}			2205 Apr 28 15:37	0° \mathbb{I}	
morning max el	2202 Nov 14 00:25	4° \mathcal{L} 22'01	46°35'35		2205 May 23 08:14	0° \mathcal{E}	
	2202 Dec 07 20:45	0° \mathbb{M}			2205 Jun 17 10:03	0° \mathcal{O}	
	2203 Jan 02 15:21	0° \mathcal{X}			2205 Jul 13 01:44	0° \mathbb{P}	
	2203 Jan 27 12:17	0° \mathcal{Z}			2205 Aug 08 18:01	0° \mathcal{L}	
	2203 Feb 21 00:25	0° \approx		desc. node	2205 Aug 10 03:50	1° \mathcal{L} 32'04	
desc. node	2203 Feb 23 08:51	2° \approx 53'23		evening max el	2205 Sep 05 16:58	28° \mathcal{L} 58'47	46°09'57
	2203 Mar 17 09:17	0° \mathcal{H}			2205 Sep 06 18:28	0° \mathbb{M}	
	2203 Apr 10 17:34	0° \mathcal{Y}		greatest brilliancy	2205 Oct 15 23:46	28° \mathbb{M} 09'19	-4.8m
	2203 May 05 02:34	0° \mathcal{B}		retrograde	2205 Oct 25 03:08	29° \mathbb{M} 42'27	
morning set	2203 May 19 22:40	18° \mathcal{B} 14'18		evening set	2205 Nov 09 10:14	25° \mathbb{M} 11'11	
	2203 May 29 12:30	0° \mathbb{I}		inferior conj	2205 Nov 14 19:34	22° \mathbb{M} 01'44	-4°05'09
asc. node	2203 Jun 16 12:17	22° \mathbb{I} 05'44		minimum elong	2205 Nov 15 04:04	21° \mathbb{M} 48'49	4°02'44
	2203 Jun 22 22:45	0° \mathcal{E}		min. Earth dist.	2205 Nov 15 12:21	21° \mathbb{M} 36'15	0.26838 AU
max. Earth dist.	2203 Jun 25 05:26	2° \mathcal{E} 47'58	1.73580 AU	morning rise	2205 Nov 20 21:14	18° \mathbb{M} 28'45	
				asc. node	2205 Dec 01 07:09	14° \mathbb{M} 36'39	
superior conj	2203 Jun 25 19:49	3° \mathcal{E} 32'07	0°21'57	direct	2205 Dec 05 10:39	14° \mathbb{M} 15'17	
minimum elong	2203 Jun 25 15:25	3° \mathcal{E} 18'38	0°21'44	greatest brilliancy	2205 Dec 16 08:06	16° \mathbb{M} 29'54	-4.9m
	2203 Jul 17 08:25	0° \mathcal{O}			2206 Jan 06 07:52	0° \mathcal{X}	
evening rise	2203 Jul 31 17:40	17° \mathcal{O} 42'10		morning max el	2206 Jan 25 04:18	17° \mathcal{X} 38'12	46°57'31
	2203 Aug 10 17:20	0° \mathbb{P}			2206 Feb 05 23:08	0° \mathcal{Z}	
	2203 Sep 04 02:09	0° \mathcal{L}			2206 Mar 04 16:52	0° \approx	
	2203 Sep 28 12:03	0° \mathbb{M}		desc. node	2206 Mar 22 20:49	21° \approx 13'25	

	2206 Mar 30 06:52	0° H			2208 Nov 05 21:07	0° Z	
	2206 Apr 24 09:32	0° Y		evening max el	2208 Nov 17 23:14	12° Z 34'30	47°11'36
	2206 May 19 07:02	0° B			2208 Dec 06 16:57	0° \approx	
	2206 Jun 13 01:33	0° II		greatest brilliancy	2208 Dec 28 10:27	13° \approx 49'30	-4.9m
	2206 Jul 07 17:07	0° E		asc. node	2208 Dec 28 19:02	13° \approx 57'23	
asc. node	2206 Jul 14 00:03	7° E 41'05		retrograde	2209 Jan 07 16:52	15° \approx 49'35	
morning set	2206 Jul 26 18:37	23° E 19'55		evening set	2209 Jan 23 08:24	10° \approx 56'46	
	2206 Aug 01 04:53	0° Ω		min. Earth dist.	2209 Jan 27 10:54	8° \approx 29'03	0.26851 AU
	2206 Aug 25 12:33	0° P		inferior conj	2209 Jan 28 07:32	7° \approx 57'10	6°54'58
max. Earth dist.	2206 Aug 29 00:40	4° P 20'19	1.72864 AU	minimum elong	2209 Jan 27 21:11	8° \approx 13'09	6°52'52
				morning rise	2209 Feb 01 10:25	5° \approx 27'54	
superior conj	2206 Sep 01 04:52	8° P 16'23	1°23'23	direct	2209 Feb 17 18:59	0° \approx 15'38	
minimum elong	2206 Sep 01 01:31	8° P 06'02	1°23'21	greatest brilliancy	2209 Feb 26 20:07	1° \approx 49'02	-4.9m
	2206 Sep 18 16:53	0° E			2209 Apr 06 12:23	0° H	
evening rise	2206 Oct 08 08:20	24° E 26'49		morning max el	2209 Apr 08 14:27	2° H 02'13	46°25'25
	2206 Oct 12 19:20	0° M		desc. node	2209 Apr 19 08:36	12° H 56'45	
desc. node	2206 Nov 02 13:39	25° M 52'10			2209 May 05 06:12	0° Y	
	2206 Nov 05 21:12	0° J			2209 May 31 21:15	0° B	
	2206 Nov 29 23:19	0° Z			2209 Jun 26 15:45	0° II	
	2206 Dec 24 02:46	0° \approx			2209 Jul 21 22:02	0° E	
	2207 Jan 17 10:13	0° H		asc. node	2209 Aug 10 12:00	23° E 36'08	
	2207 Feb 11 03:14	0° Y			2209 Aug 15 18:27	0° Ω	
asc. node	2207 Feb 23 16:47	14° Y 55'23			2209 Sep 09 06:10	0° P	
	2207 Mar 08 16:16	0° B			2209 Oct 03 11:00	0° E	
	2207 Apr 05 00:59	0° II		morning set	2209 Oct 03 16:28	0° E 17'02	
evening max el	2207 Apr 13 12:05	8° II 31'55	45°51'58		2209 Oct 27 11:20	0° M	
	2207 May 08 16:43	0° E		max. Earth dist.	2209 Nov 08 19:56	15° M 29'36	1.71461 AU
greatest brilliancy	2207 May 21 12:37	6° E 57'41	-4.7m				
retrograde	2207 Jun 01 15:01	9° E 11'17		superior conj	2209 Nov 11 01:01	18° M 16'05	0°43'26
desc. node	2207 Jun 15 06:06	5° E 31'56		minimum elong	2209 Nov 11 10:20	18° M 45'20	0°43'02
evening set	2207 Jun 16 15:32	4° E 47'37			2209 Nov 20 09:21	0° J	
inferior conj	2207 Jun 23 01:47	0° E 56'19	-1°50'02	desc. node	2209 Nov 30 01:25	12° J 08'47	
minimum elong	2207 Jun 22 21:48	1° E 02'34	1°48'52		2209 Dec 14 06:29	0° Z	
min. Earth dist.	2207 Jun 22 22:44	1° E 01'06	0.28944 AU	evening rise	2209 Dec 21 19:35	9° Z 28'41	
	2207 Jun 24 13:52	30° R II			2210 Jan 07 03:50	0° \approx	
morning rise	2207 Jun 29 04:16	27° II 16'06			2210 Jan 31 02:49	0° H	
direct	2207 Jul 14 16:27	22° II 39'38			2210 Feb 24 05:50	0° Y	
greatest brilliancy	2207 Jul 24 23:53	24° II 34'30	-4.7m		2210 Mar 20 16:17	0° B	
	2207 Aug 04 22:48	0° E		asc. node	2210 Mar 23 04:48	3° B 03'57	
morning max el	2207 Sep 01 15:11	22° E 38'59	45°52'37		2210 Apr 14 14:45	0° II	
	2207 Sep 09 01:49	0° Ω			2210 May 10 08:34	0° E	
asc. node	2207 Oct 06 09:42	29° Ω 27'51			2210 Jun 06 14:43	0° Ω	
	2207 Oct 06 21:04	0° P		evening max el	2210 Jun 23 01:35	16° Ω 34'54	45°24'25
	2207 Nov 01 14:35	0° E			2210 Jul 08 03:08	0° P	
	2207 Nov 26 08:37	0° M		desc. node	2210 Jul 12 18:06	3° P 36'36	
	2207 Dec 20 15:02	0° J		greatest brilliancy	2210 Jul 31 16:33	14° P 24'21	-4.7m
	2208 Jan 13 16:19	0° Z		retrograde	2210 Aug 10 14:53	16° P 10'54	
desc. node	2208 Jan 25 23:02	15° Z 21'33		evening set	2210 Aug 28 09:25	10° P 19'44	
	2208 Feb 06 15:55	0° \approx		inferior conj	2210 Sep 01 00:02	8° P 07'15	-8°30'09
	2208 Mar 01 15:46	0° H		minimum elong	2210 Aug 31 20:01	8° P 13'30	8°29'55
morning set	2208 Mar 05 18:45	5° H 08'57		min. Earth dist.	2210 Sep 01 10:31	7° P 50'57	0.28678 AU
	2208 Mar 25 17:14	0° Y		morning rise	2210 Sep 04 06:25	6° P 06'26	
					2210 Sep 20 04:39	30° R Ω	
superior conj	2208 Apr 14 04:44	24° Y 11'14	-1°09'34	direct	2210 Sep 22 11:30	29° Ω 53'48	
minimum elong	2208 Apr 14 14:37	24° Y 41'52	1°09'16		2210 Sep 24 18:58	0° P	
max. Earth dist.	2208 Apr 17 15:56	28° Y 28'59	1.72683 AU	greatest brilliancy	2210 Oct 03 10:13	2° P 04'38	-4.8m
	2208 Apr 18 21:20	0° B		asc. node	2210 Nov 02 21:24	23° P 34'55	
	2208 May 13 04:32	0° II			2210 Nov 09 13:44	0° E	
asc. node	2208 May 18 02:28	6° II 02'56		morning max el	2210 Nov 11 14:18	2° E 01'03	46°34'05
evening rise	2208 May 22 07:52	11° II 14'40			2210 Dec 07 13:03	0° M	
	2208 Jun 06 14:42	0° E			2211 Jan 02 05:16	0° J	
	2208 Jul 01 03:45	0° Ω			2211 Jan 27 01:01	0° Z	
	2208 Jul 25 20:21	0° P			2211 Feb 20 12:26	0° \approx	
	2208 Aug 19 18:19	0° E		desc. node	2211 Feb 22 10:58	2° \approx 23'05	
desc. node	2208 Sep 06 15:49	21° E 18'09			2211 Mar 16 20:49	0° H	
	2208 Sep 14 00:40	0° M			2211 Apr 10 04:43	0° Y	
	2208 Oct 09 20:48	0° J			2211 May 04 13:26	0° B	

morning set	2211 May 17 15:51	16°♄06'36		minimum elong	2213 Nov 12 17:16	19°♎23'00	4°23'25
	2211 May 28 23:11	0°♈		min. Earth dist.	2213 Nov 13 01:40	19°♎10'14	0.26895 AU
asc. node	2211 Jun 15 14:18	21°♈39'16		morning rise	2213 Nov 18 08:19	16°♎06'03	
	2211 Jun 22 09:21	0°♄		asc. node	2213 Nov 30 09:10	11°♎58'08	
max. Earth dist.	2211 Jun 23 01:18	0°♄49'00	1.73581 AU	direct	2213 Dec 03 00:38	11°♎49'28	
				greatest brilliancy	2213 Dec 13 22:00	14°♎04'31	-4.9m
superior conj	2211 Jun 23 14:05	1°♄28'13	0°18'53		2214 Jan 06 17:38	0°♈	
minimum elong	2211 Jun 23 10:15	1°♄16'29	0°18'42	morning max el	2214 Jan 22 19:07	15°♈16'36	46°57'38
	2211 Jul 16 19:04	0°♈			2214 Feb 05 18:00	0°♄	
evening rise	2211 Jul 29 12:31	15°♈39'32			2214 Mar 04 07:50	0°♎	
	2211 Aug 10 04:07	0°♈		desc. node	2214 Mar 21 22:51	20°♎39'20	
	2211 Sep 03 13:12	0°♈			2214 Mar 29 20:02	0°♈	
	2211 Sep 27 23:28	0°♎			2214 Apr 23 21:39	0°♈	
desc. node	2211 Oct 05 03:45	8°♎47'44			2214 May 18 18:29	0°♄	
	2211 Oct 22 12:04	0°♈			2214 Jun 12 12:34	0°♈	
	2211 Nov 16 04:31	0°♄			2214 Jul 07 03:50	0°♄	
	2211 Dec 11 04:50	0°♎		asc. node	2214 Jul 13 02:14	7°♄15'12	
	2212 Jan 06 00:17	0°♈		morning set	2214 Jul 24 12:48	21°♄16'01	
asc. node	2212 Jan 26 07:01	22°♈06'44			2214 Jul 31 15:27	0°♈	
evening max el	2212 Jan 29 21:03	25°♈47'51	46°59'46		2214 Aug 24 23:05	0°♈	
	2212 Feb 03 01:47	0°♈		max. Earth dist.	2214 Aug 26 19:28	2°♈17'21	1.72908 AU
greatest brilliancy	2212 Mar 10 02:15	26°♈56'30	-4.8m				
retrograde	2212 Mar 20 12:31	28°♈59'58		superior conj	2214 Aug 29 22:39	6°♈10'06	1°22'44
evening set	2212 Apr 06 18:13	23°♈14'23		minimum elong	2214 Aug 29 18:41	5°♈57'48	1°22'41
inferior conj	2212 Apr 10 16:52	20°♈47'32	7°21'02		2214 Sep 18 03:30	0°♈	
minimum elong	2212 Apr 11 02:03	20°♈33'04	7°19'32	evening rise	2214 Oct 05 23:29	22°♈11'01	
min. Earth dist.	2212 Apr 10 13:38	20°♈52'39	0.28280 AU		2214 Oct 12 06:08	0°♎	
morning rise	2212 Apr 15 10:07	17°♈53'28		desc. node	2214 Nov 01 15:38	25°♈24'00	
direct	2212 May 01 18:52	12°♈41'37			2214 Nov 05 08:15	0°♈	
greatest brilliancy	2212 May 11 11:03	14°♈24'08	-4.8m		2214 Nov 29 10:39	0°♄	
desc. node	2212 May 16 20:12	16°♈38'10			2214 Dec 23 14:25	0°♎	
	2212 Jun 05 11:41	0°♄			2215 Jan 16 22:22	0°♈	
morning max el	2212 Jun 19 16:48	12°♄45'18	45°47'42		2215 Feb 10 16:15	0°♈	
	2212 Jul 06 20:15	0°♈		asc. node	2215 Feb 22 18:51	14°♈21'15	
	2212 Aug 03 07:21	0°♄			2215 Mar 08 07:01	0°♄	
	2212 Aug 29 06:51	0°♈			2215 Apr 04 20:17	0°♈	
asc. node	2212 Sep 06 23:52	10°♈18'41		evening max el	2215 Apr 11 04:42	6°♈22'02	45°53'58
	2212 Sep 23 09:12	0°♈			2215 May 09 16:34	0°♄	
	2212 Oct 17 21:21	0°♈		greatest brilliancy	2215 May 19 05:27	4°♄49'38	-4.7m
	2212 Nov 11 00:32	0°♎		retrograde	2215 May 30 07:39	7°♄02'46	
greatest brilliancy	2212 Nov 29 17:11	23°♎25'08	-3.9m	evening set	2215 Jun 14 08:00	2°♄39'33	
	2212 Dec 04 22:59	0°♈		desc. node	2215 Jun 14 08:15	2°♄39'13	
morning set	2212 Dec 16 01:22	13°♈56'59			2215 Jun 18 20:03	30°♈	
desc. node	2212 Dec 27 13:14	28°♈24'41		inferior conj	2215 Jun 20 18:12	28°♈47'54	-1°30'32
	2212 Dec 28 19:32	0°♄		minimum elong	2215 Jun 20 14:54	28°♈53'04	1°29'34
	2213 Jan 21 15:52	0°♎		min. Earth dist.	2215 Jun 20 15:06	28°♈52'45	0.28926 AU
				morning rise	2215 Jun 26 22:04	25°♈05'38	
superior conj	2213 Jan 26 17:51	6°♎23'24	-1°04'13	direct	2215 Jul 12 09:08	20°♈31'40	
minimum elong	2213 Jan 26 05:52	5°♎45'45	1°03'49	greatest brilliancy	2215 Jul 22 15:04	22°♈25'18	-4.7m
max. Earth dist.	2213 Jan 29 00:01	9°♎13'35	1.71223 AU		2215 Aug 05 21:51	0°♄	
	2213 Feb 14 13:14	0°♈		morning max el	2215 Aug 30 06:42	20°♄28'25	45°51'37
evening rise	2213 Mar 08 15:11	27°♈37'04			2215 Sep 08 20:51	0°♈	
	2213 Mar 10 13:03	0°♈		asc. node	2215 Oct 05 11:42	28°♈52'18	
	2213 Apr 03 17:00	0°♄			2215 Oct 06 11:33	0°♈	
asc. node	2213 Apr 19 16:40	19°♄41'15			2215 Nov 01 03:22	0°♈	
	2213 Apr 28 02:42	0°♈			2215 Nov 25 20:37	0°♎	
	2213 May 22 19:39	0°♄			2215 Dec 20 02:38	0°♈	
	2213 Jun 16 22:10	0°♈			2216 Jan 13 03:39	0°♄	
	2213 Jul 12 15:10	0°♈		desc. node	2216 Jan 25 01:11	14°♄53'13	
	2213 Aug 08 10:15	0°♈			2216 Feb 06 03:02	0°♎	
desc. node	2213 Aug 09 05:56	0°♄53'17			2216 Mar 01 02:42	0°♈	
evening max el	2213 Sep 03 07:09	26°♄41'20	46°07'33	morning set	2216 Mar 03 06:07	2°♈40'31	
	2213 Sep 06 18:48	0°♎			2216 Mar 25 04:03	0°♈	
greatest brilliancy	2213 Oct 13 11:47	25°♎44'44	-4.8m				
retrograde	2213 Oct 22 16:00	27°♎18'06		superior conj	2216 Apr 11 18:57	21°♈53'15	-1°11'36
evening set	2213 Nov 07 01:37	22°♎42'43		minimum elong	2216 Apr 12 04:36	22°♈23'11	1°11'21
inferior conj	2213 Nov 12 08:14	19°♎36'43	-4°25'55	max. Earth dist.	2216 Apr 15 10:42	26°♈25'12	1.72630 AU




































































































































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	2216 May 12 15:15	0°♊			2218 Oct 01 10:52	0°♍	
asc. node	2216 May 17 04:32	5°♊36'16		asc. node	2218 Nov 01 23:24	22°♍39'55	
evening rise	2216 May 20 00:34	9°♊05'29		morning max el	2218 Nov 09 04:57	29°♍42'27	46°32'49
	2216 Jun 06 01:29	0°♋			2218 Nov 09 11:56	0°♎	
	2216 Jun 30 14:44	0°♌			2218 Dec 07 04:57	0°♏	
	2216 Jul 25 07:43	0°♍			2219 Jan 01 18:57	0°♐	
	2216 Aug 19 06:21	0°♎			2219 Jan 26 13:37	0°♑	
desc. node	2216 Sep 05 17:51	20°♎46'30			2219 Feb 20 00:25	0°♒	
	2216 Sep 13 13:49	0°♏		desc. node	2219 Feb 21 12:56	1°♒52'25	
	2216 Oct 09 11:56	0°♐			2219 Mar 16 08:23	0°♓	
	2216 Nov 05 16:39	0°♑			2219 Apr 09 15:58	0°♈	
evening max el	2216 Nov 15 13:01	10°♑10'35	47°10'07		2219 May 04 00:25	0°♉	
	2216 Dec 07 06:29	0°♒		morning set	2219 May 15 08:30	13°♉56'43	
greatest brilliancy	2216 Dec 26 00:35	11°♒22'56	-4.9m		2219 May 28 10:00	0°♊	
asc. node	2216 Dec 27 21:13	12°♒01'04		asc. node	2219 Jun 14 16:26	21°♊12'48	
retrograde	2217 Jan 05 05:21	13°♒21'30					
evening set	2217 Jan 20 17:37	8°♒34'53		superior conj	2219 Jun 21 07:54	29°♊22'36	0°15'45
min. Earth dist.	2217 Jan 25 00:24	6°♒01'07	0.26804 AU	minimum elong	2219 Jun 21 04:41	29°♊12'42	0°15'36
inferior conj	2217 Jan 25 20:17	5°♒30'23	6°39'31	behind sun begin	2219 Jun 21 00:52	29°♊00'57	
minimum elong	2217 Jan 25 09:48	5°♒46'34	6°37'17	behind sun end	2219 Jun 21 08:31	29°♊24'28	
morning rise	2217 Jan 30 02:24	2°♒56'18		max. Earth dist.	2219 Jun 20 22:00	28°♊52'09	1.73578 AU
	2217 Feb 04 22:47	30°♒3			2219 Jun 21 20:05	0°♋	
direct	2217 Feb 15 07:08	27°♒49'35			2219 Jul 16 05:51	0°♌	
greatest brilliancy	2217 Feb 24 09:47	29°♒23'56	-4.9m	evening rise	2219 Jul 27 07:13	13°♌36'07	
	2217 Feb 26 02:00	0°♍			2219 Aug 09 15:04	0°♍	
morning max el	2217 Apr 06 02:26	29°♍36'43	46°26'59		2219 Sep 03 00:24	0°♎	
	2217 Apr 06 11:53	0°♐			2219 Sep 27 11:02	0°♏	
desc. node	2217 Apr 18 10:35	12°♐11'19		desc. node	2219 Oct 04 05:45	8°♏18'00	
	2217 May 04 22:30	0°♑			2219 Oct 22 00:09	0°♐	
	2217 May 31 10:54	0°♒			2219 Nov 15 17:23	0°♑	
	2217 Jun 26 04:04	0°♊			2219 Dec 10 18:56	0°♒	
	2217 Jul 21 09:34	0°♋			2220 Jan 05 16:53	0°♓	
asc. node	2217 Aug 09 14:01	23°♋08'20		asc. node	2220 Jan 25 09:00	21°♓17'59	
	2217 Aug 15 05:33	0°♌		evening max el	2220 Jan 27 11:36	23°♓27'31	47°01'35
	2217 Sep 08 17:02	0°♍			2220 Feb 03 01:49	0°♈	
morning set	2217 Oct 01 08:16	28°♍03'14		greatest brilliancy	2220 Mar 07 17:39	24°♈39'45	-4.9m
	2217 Oct 02 21:47	0°♎		retrograde	2220 Mar 18 04:26	26°♈44'01	
	2217 Oct 26 22:07	0°♏		evening set	2220 Apr 04 12:20	20°♈53'55	
max. Earth dist.	2217 Nov 06 06:16	12°♏57'39	1.71503 AU	inferior conj	2220 Apr 08 08:10	18°♈31'33	7°32'23
				minimum elong	2220 Apr 08 17:01	18°♈17'37	7°31'02
superior conj	2217 Nov 08 14:04	15°♏52'37	0°46'34	min. Earth dist.	2220 Apr 08 04:12	18°♈37'46	0.28250 AU
minimum elong	2217 Nov 08 23:45	16°♏23'00	0°46'09	morning rise	2220 Apr 12 21:54	15°♈42'55	
	2217 Nov 19 20:11	0°♐		direct	2220 Apr 29 09:38	10°♈26'00	
desc. node	2217 Nov 29 03:33	11°♐41'15		greatest brilliancy	2220 May 09 01:05	12°♈08'23	-4.8m
	2217 Dec 13 17:26	0°♑		desc. node	2220 May 15 22:21	15°♈07'55	
evening rise	2217 Dec 19 06:18	6°♑57'08			2220 Jun 05 18:13	0°♉	
	2218 Jan 06 14:55	0°♒		morning max el	2220 Jun 17 08:56	10°♉34'27	45°48'25
	2218 Jan 30 14:04	0°♓			2220 Jul 06 13:54	0°♊	
	2218 Feb 23 17:19	0°♈			2220 Aug 02 21:30	0°♋	
	2218 Mar 20 04:08	0°♉			2220 Aug 28 19:29	0°♌	
asc. node	2218 Mar 22 06:45	2°♉33'44		asc. node	2220 Sep 06 01:51	9°♌47'58	
	2218 Apr 14 03:20	0°♊			2220 Sep 22 21:04	0°♍	
	2218 May 09 22:42	0°♋			2220 Oct 17 08:49	0°♎	
	2218 Jun 06 08:36	0°♌			2220 Nov 10 11:48	0°♏	
evening max el	2218 Jun 20 15:41	14°♌19'56	45°24'11	greatest brilliancy	2220 Nov 30 19:01	25°♌26'23	-3.9m
	2218 Jul 08 12:49	0°♍			2220 Dec 04 10:09	0°♐	
desc. node	2218 Jul 11 20:13	2°♍29'11		morning set	2220 Dec 13 12:27	11°♐25'57	
greatest brilliancy	2218 Jul 29 06:06	12°♍10'51	-4.7m	desc. node	2220 Dec 26 15:23	27°♐56'28	
retrograde	2218 Aug 08 05:55	13°♍59'06			2220 Dec 28 06:38	0°♑	
evening set	2218 Aug 25 22:03	8°♍11'04			2221 Jan 21 02:56	0°♒	
inferior conj	2218 Aug 29 15:28	5°♍54'37	-8°25'18				
minimum elong	2218 Aug 29 10:44	6°♍01'59	8°24'59	superior conj	2221 Jan 24 03:59	3°♍49'39	-1°01'29
min. Earth dist.	2218 Aug 30 01:14	5°♍39'27	0.28717 AU	minimum elong	2221 Jan 23 15:56	3°♍11'48	1°01'04
morning rise	2218 Sep 01 23:10	3°♍51'56		max. Earth dist.	2221 Jan 26 09:08	6°♍36'44	1.71196 AU
	2218 Sep 09 07:26	30°♍♌			2221 Feb 14 00:15	0°♐	
direct	2218 Sep 20 02:55	27°♌40'26		evening rise	2221 Mar 06 02:59	25°♐09'48	

	2221 Mar 10 00:04	0°♄		asc. node	2223 Oct 04 13:48	28°♎16'01	
	2221 Apr 03 04:07	0°♄			2223 Oct 06 02:19	0°♎	
asc. node	2221 Apr 18 18:43	19°♄13'04			2223 Oct 31 16:29	0°♎	
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	2221 May 22 07:24	0°♎			2223 Dec 19 14:32	0°♄	
	2221 Jun 16 10:39	0°♎			2224 Jan 12 15:16	0°♄	
	2221 Jul 12 05:05	0°♎		desc. node	2224 Jan 24 03:05	14°♄23'06	
desc. node	2221 Aug 08 07:56	0°♎12'43			2224 Feb 05 14:27	0°♎	
	2221 Aug 08 03:12	0°♎		morning set	2224 Feb 29 17:26	0°♄10'53	
evening max el	2221 Aug 31 21:31	24°♎23'22	46°05'12		2224 Feb 29 13:57	0°♄	
	2221 Sep 06 20:53	0°♎			2224 Mar 24 15:09	0°♄	
greatest brilliancy	2221 Oct 11 00:01	23°♎19'39	-4.8m				
retrograde	2221 Oct 20 04:34	24°♎52'41		superior conj	2224 Apr 09 09:24	19°♄35'06	-1°13'32
evening set	2221 Nov 04 17:08	20°♎13'19		minimum elong	2224 Apr 09 18:46	20°♄04'09	1°13'18
inferior conj	2221 Nov 09 20:52	17°♎10'50	-4°46'06	max. Earth dist.	2224 Apr 13 04:46	24°♄18'20	1.72571 AU
minimum elong	2221 Nov 10 06:21	16°♎56'25	4°43'33		2224 Apr 17 19:04	0°♄	
min. Earth dist.	2221 Nov 10 14:57	16°♎43'20	0.26949 AU		2224 May 12 02:12	0°♎	
morning rise	2221 Nov 15 19:03	13°♎42'33		asc. node	2224 May 16 06:41	5°♎09'10	
asc. node	2221 Nov 29 11:22	9°♎24'28		evening rise	2224 May 17 17:29	6°♎56'12	
direct	2221 Nov 30 14:35	9°♎22'53			2224 Jun 05 12:31	0°♎	
greatest brilliancy	2221 Dec 11 11:43	11°♎37'51	-4.9m		2224 Jun 30 02:00	0°♎	
	2222 Jan 07 01:08	0°♄			2224 Jul 24 19:27	0°♎	
morning max el	2222 Jan 20 09:09	12°♄52'09	46°57'52		2224 Aug 18 18:49	0°♎	
	2222 Feb 05 12:39	0°♄		desc. node	2224 Sep 04 19:49	20°♎13'22	
	2222 Mar 03 22:49	0°♎			2224 Sep 13 03:29	0°♎	
desc. node	2222 Mar 21 00:52	20°♎04'49			2224 Oct 09 03:44	0°♄	
	2222 Mar 29 09:17	0°♄			2224 Nov 05 13:13	0°♄	
	2222 Apr 23 09:55	0°♄		evening max el	2224 Nov 13 01:45	7°♄42'57	47°08'43
	2222 May 18 06:09	0°♄			2224 Dec 08 01:08	0°♎	
	2222 Jun 11 23:51	0°♎		greatest brilliancy	2224 Dec 23 14:46	8°♎55'18	-4.9m
	2222 Jul 06 14:53	0°♎		asc. node	2224 Dec 26 23:11	9°♎58'43	
asc. node	2222 Jul 12 04:14	6°♎47'40		retrograde	2225 Jan 02 17:42	10°♎52'34	
morning set	2222 Jul 22 06:45	19°♎10'21		evening set	2225 Jan 18 02:55	6°♎11'30	
	2222 Jul 31 02:22	0°♎		min. Earth dist.	2225 Jan 22 14:02	3°♎31'54	0.26759 AU
	2222 Aug 24 09:58	0°♎		inferior conj	2225 Jan 23 09:01	3°♎02'36	6°23'21
max. Earth dist.	2222 Aug 24 12:22	0°♎07'24	1.72951 AU	minimum elong	2225 Jan 22 22:29	3°♎18'52	6°20'59
				morning rise	2225 Jan 27 18:23	0°♎23'51	
superior conj	2222 Aug 27 16:14	4°♎02'08	1°21'56		2225 Jan 28 11:12	30°♎♄	
minimum elong	2222 Aug 27 11:40	3°♎48'00	1°21'53	direct	2225 Feb 12 18:57	25°♎22'14	
	2222 Sep 17 14:29	0°♎		greatest brilliancy	2225 Feb 21 23:49	26°♎58'10	-4.9m
evening rise	2222 Oct 03 14:28	19°♎53'40			2225 Feb 28 22:21	0°♎	
	2222 Oct 11 17:18	0°♎		morning max el	2225 Apr 03 14:47	27°♎11'04	46°28'43
desc. node	2222 Oct 31 17:44	24°♎55'10			2225 Apr 06 10:44	0°♄	
	2222 Nov 04 19:40	0°♄		desc. node	2225 Apr 17 12:42	11°♄26'06	
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	2223 Mar 07 22:12	0°♄			2225 Aug 14 16:49	0°♎	
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evening max el	2223 Apr 08 20:29	4°♎09'22	45°55'59	morning set	2225 Sep 29 00:02	25°♎48'29	
	2223 May 11 02:35	0°♎			2225 Oct 02 08:50	0°♎	
greatest brilliancy	2223 May 16 22:47	2°♎41'36	-4.7m		2225 Oct 26 09:12	0°♎	
retrograde	2223 May 27 23:53	4°♎53'49		max. Earth dist.	2225 Nov 03 18:06	10°♎29'24	1.71547 AU
evening set	2223 Jun 12 00:44	0°♎30'43					
	2223 Jun 12 22:42	30°♎♎		superior conj	2225 Nov 06 02:57	13°♎27'36	0°49'37
desc. node	2223 Jun 13 10:19	29°♎43'19		minimum elong	2225 Nov 06 12:55	13°♎58'53	0°49'13
inferior conj	2223 Jun 18 10:44	26°♎39'02	-1°11'03		2225 Nov 19 07:21	0°♄	
minimum elong	2223 Jun 18 08:08	26°♎43'07	1°10'17	desc. node	2225 Nov 28 05:38	11°♄12'38	
min. Earth dist.	2223 Jun 18 07:54	26°♎43'30	0.28913 AU		2225 Dec 13 04:41	0°♄	
morning rise	2223 Jun 24 15:48	22°♎54'42		evening rise	2225 Dec 16 16:48	4°♄24'03	
direct	2223 Jul 10 01:36	18°♎23'05			2226 Jan 06 02:17	0°♎	
greatest brilliancy	2223 Jul 20 06:54	20°♎15'53	-4.7m		2226 Jan 30 01:35	0°♄	
	2223 Aug 06 15:21	0°♎			2226 Feb 23 05:03	0°♄	
morning max el	2223 Aug 27 21:30	18°♎14'55	45°50'33		2226 Mar 19 16:16	0°♄	
	2223 Sep 08 15:52	0°♎		asc. node	2226 Mar 21 08:51	2°♄03'12	

	2226 Apr 13 16:13	0°♊			2228 Sep 22 08:46	0°♎	
	2226 May 09 13:09	0°♋			2228 Oct 16 20:07	0°♌	
	2226 Jun 06 03:01	0°♍			2228 Nov 09 22:56	0°♎	
evening max el	2226 Jun 18 06:37	12°♌06'58 45°24'11		greatest brilliancy	2228 Nov 30 21:21	26°♎14'12 -3.9m	
	2226 Jul 09 01:49	0°♎			2228 Dec 03 21:14	0°♏	
desc. node	2226 Jul 10 22:10	1°♎19'44		morning set	2228 Dec 10 23:36	8°♏55'15	
greatest brilliancy	2226 Jul 26 19:18	9°♎57'28 -4.7m		desc. node	2228 Dec 25 17:19	27°♏27'40	
retrograde	2226 Aug 05 21:46	11°♎47'59			2228 Dec 27 17:44	0°♐	
evening set	2226 Aug 23 10:46	6°♎03'15			2229 Jan 20 14:01	0°♑	
inferior conj	2226 Aug 27 07:10	3°♎42'29 -8°19'44					
minimum elong	2226 Aug 27 01:43	3°♎50'56 8°19'18		superior conj	2229 Jan 21 13:36	1°♑14'10 -0°58'36	
min. Earth dist.	2226 Aug 27 15:46	3°♎29'08 0.28757 AU		minimum elong	2229 Jan 21 01:38	0°♑36'31 0°58'09	
morning rise	2226 Aug 30 16:28	1°♎37'34		max. Earth dist.	2229 Jan 23 17:25	3°♑57'01 1.71174 AU	
	2226 Sep 02 11:54	30°♎♌			2229 Feb 13 11:19	0°♒	
direct	2226 Sep 17 19:00	25°♌27'42		evening rise	2229 Mar 03 14:05	22°♒40'09	
greatest brilliancy	2226 Sep 28 17:55	27°♌38'43 -4.8m			2229 Mar 09 11:07	0°♓	
	2226 Oct 03 22:51	0°♎			2229 Apr 02 15:14	0°♐	
asc. node	2226 Nov 01 01:35	21°♎46'02		asc. node	2229 Apr 17 20:51	18°♐45'13	
morning max el	2226 Nov 06 20:43	27°♎26'20 46°31'13			2229 Apr 27 01:21	0°♊	
	2226 Nov 09 09:31	0°♌			2229 May 21 19:06	0°♋	
	2226 Dec 06 20:53	0°♍			2229 Jun 15 23:06	0°♌	
	2227 Jan 01 08:48	0°♏			2229 Jul 11 18:58	0°♎	
	2227 Jan 26 02:24	0°♐		desc. node	2229 Aug 07 10:00	29°♎32'36	
	2227 Feb 19 12:33	0°♑			2229 Aug 07 20:15	0°♌	
desc. node	2227 Feb 20 15:02	1°♑21'35		evening max el	2229 Aug 29 11:51	22°♌06'21 46°02'58	
	2227 Mar 15 20:04	0°♒			2229 Sep 06 24:00	0°♍	
	2227 Apr 09 03:18	0°♓		greatest brilliancy	2229 Oct 08 13:02	20°♍57'23 -4.8m	
	2227 May 03 11:30	0°♐		retrograde	2229 Oct 17 16:58	22°♍29'30	
morning set	2227 May 13 01:12	11°♐46'37		evening set	2229 Nov 02 09:06	17°♍46'15	
	2227 May 27 20:54	0°♊		inferior conj	2229 Nov 07 09:57	14°♍47'21 -5°05'20	
asc. node	2227 Jun 13 18:26	20°♊45'37		minimum elong	2229 Nov 07 19:47	14°♍32'22 5°02'47	
				min. Earth dist.	2229 Nov 08 04:44	14°♍18'43 0.27008 AU	
superior conj	2227 Jun 19 01:56	27°♊17'18 0°12'38		morning rise	2229 Nov 13 05:59	11°♍21'32	
minimum elong	2227 Jun 18 23:20	27°♊09'18 0°12'29		direct	2229 Nov 28 04:31	6°♍58'41	
behind sun begin	2227 Jun 18 09:15	26°♊26'03		asc. node	2229 Nov 28 13:18	6°♍58'50	
behind sun end	2227 Jun 19 13:25	27°♊52'33		greatest brilliancy	2229 Dec 09 01:59	9°♍13'33 -4.9m	
max. Earth dist.	2227 Jun 18 20:01	26°♊59'07 1.73570 AU			2230 Jan 07 06:02	0°♏	
	2227 Jun 21 06:54	0°♋		morning max el	2230 Jan 17 22:28	10°♏26'28 46°57'40	
	2227 Jul 15 16:40	0°♌			2230 Feb 05 06:41	0°♐	
evening rise	2227 Jul 25 02:18	11°♌33'48			2230 Mar 03 13:31	0°♑	
	2227 Aug 09 02:00	0°♎		desc. node	2230 Mar 20 02:59	19°♑30'54	
	2227 Sep 02 11:36	0°♌			2230 Mar 28 22:23	0°♒	
	2227 Sep 26 22:39	0°♍			2230 Apr 22 22:04	0°♓	
desc. node	2227 Oct 03 07:55	7°♍48'37			2230 May 17 17:40	0°♐	
	2227 Oct 21 12:23	0°♏			2230 Jun 11 10:57	0°♊	
	2227 Nov 15 06:28	0°♐			2230 Jul 06 01:42	0°♋	
	2227 Dec 10 09:24	0°♑		asc. node	2230 Jul 11 06:13	6°♋20'43	
	2228 Jan 05 10:03	0°♒		morning set	2230 Jul 20 00:41	17°♋05'18	
asc. node	2228 Jan 24 11:02	20°♒27'52			2230 Jul 30 13:03	0°♌	
evening max el	2228 Jan 25 03:02	21°♒08'38 47°03'25		max. Earth dist.	2230 Aug 22 04:56	27°♌57'15 1.72992 AU	
	2228 Feb 03 03:20	0°♓			2230 Aug 23 20:38	0°♎	
greatest brilliancy	2228 Mar 05 08:41	22°♓21'53 -4.9m					
retrograde	2228 Mar 15 20:32	24°♓27'00		superior conj	2230 Aug 25 10:05	1°♎55'50 1°21'03	
evening set	2228 Apr 02 06:17	18°♓32'40		minimum elong	2230 Aug 25 04:57	1°♎39'59 1°20'58	
inferior conj	2228 Apr 05 23:16	16°♓14'38 7°43'12			2230 Sep 17 01:13	0°♌	
minimum elong	2228 Apr 06 07:43	16°♓01'20 7°42'00		evening rise	2230 Oct 01 05:57	17°♌38'52	
min. Earth dist.	2228 Apr 05 18:13	16°♓22'34 0.28214 AU			2230 Oct 11 04:12	0°♍	
morning rise	2228 Apr 10 09:25	13°♓31'36		desc. node	2230 Oct 30 19:48	24°♍27'13	
direct	2228 Apr 27 00:38	8°♓09'48			2230 Nov 04 06:46	0°♏	
greatest brilliancy	2228 May 06 14:14	9°♓51'12 -4.8m			2230 Nov 28 09:42	0°♐	
desc. node	2228 May 15 00:27	13°♓40'23			2230 Dec 22 14:11	0°♑	
	2228 Jun 05 22:45	0°♐			2231 Jan 15 23:11	0°♒	
morning max el	2228 Jun 15 01:07	8°♐23'46 45°49'14			2231 Feb 09 18:54	0°♓	
	2228 Jul 06 07:08	0°♊		asc. node	2231 Feb 20 22:57	13°♓11'21	
	2228 Aug 02 11:27	0°♋			2231 Mar 07 13:28	0°♐	
	2228 Aug 28 07:57	0°♌			2231 Apr 04 13:05	0°♊	
asc. node	2228 Sep 05 03:59	9°♌18'06		evening max el	2231 Apr 06 11:19	1°♊54'27 45°58'01	

	2231 May 13 06:44	0°☿			2233 Oct 01 19:32	0°♊	
greatest brilliancy	2231 May 14 16:14	0°☿33'34 -4.7m			2233 Oct 25 19:56	0°♊	
retrograde	2231 May 25 15:51	2°☿44'52	max. Earth dist.		2233 Nov 01 07:47	8°♊08'08	1.71589 AU
	2231 Jun 06 11:11	30°♋♊					
evening set	2231 Jun 09 17:25	28°♊21'30	superior conj		2233 Nov 03 15:53	11°♊03'59	0°52'35
desc. node	2231 Jun 12 12:14	26°♊45'00	minimum elong		2233 Nov 04 02:05	11°♊35'57	0°52'11
inferior conj	2231 Jun 16 03:08	24°♊30'15 -0°51'21			2233 Nov 18 18:09	0°♊	
minimum elong	2231 Jun 16 01:14	24°♊33'13 0°50'47	desc. node		2233 Nov 27 07:34	10°♊44'39	
min. Earth dist.	2231 Jun 16 00:48	24°♊33'54 0.28896 AU			2233 Dec 12 15:35	0°♊	
morning rise	2231 Jun 22 09:15	20°♊44'06	evening rise		2233 Dec 14 03:31	1°♊52'46	
direct	2231 Jul 07 17:23	16°♊14'33			2234 Jan 05 13:17	0°♊	
greatest brilliancy	2231 Jul 17 23:03	18°♊07'13 -4.7m			2234 Jan 29 12:43	0°♊	
	2231 Aug 07 04:06	0°☿			2234 Feb 22 16:22	0°♊	
morning max el	2231 Aug 25 11:54	16°☿01'19 45°49'43			2234 Mar 19 03:59	0°♊	
	2231 Sep 08 10:01	0°♊	asc. node		2234 Mar 20 10:57	1°♊33'53	
asc. node	2231 Oct 03 15:51	27°♊40'56			2234 Apr 13 04:45	0°♊	
	2231 Oct 05 16:32	0°♊			2234 May 09 03:25	0°☿	
	2231 Oct 31 05:08	0°♊			2234 Jun 05 21:38	0°♊	
	2231 Nov 24 20:51	0°♊	evening max el		2234 Jun 15 22:23	9°♊56'44	45°24'07
	2231 Dec 19 02:00	0°♊			2234 Jul 09 19:01	0°♊	
desc. node	2232 Jan 12 02:27	0°♊	desc. node		2234 Jul 10 00:16	0°♊08'58	
	2232 Jan 23 05:12	13°♊54'57	greatest brilliancy		2234 Jul 24 08:22	7°♊44'20	-4.7m
	2232 Feb 05 01:26	0°♊	retrograde		2234 Aug 03 13:35	9°♊36'53	
morning set	2232 Feb 27 04:41	27°♊42'05	evening set		2234 Aug 20 23:13	3°♊55'58	
	2232 Feb 29 00:49	0°♊	inferior conj		2234 Aug 24 22:40	1°♊30'35	-8°13'29
	2232 Mar 24 01:56	0°♊	minimum elong		2234 Aug 24 16:35	1°♊40'01	8°12'55
			min. Earth dist.		2234 Aug 25 05:58	1°♊19'14	0.28792 AU
superior conj	2232 Apr 06 23:33	17°♊16'51 -1°15'21			2234 Aug 27 09:21	30°♋♊	
minimum elong	2232 Apr 07 08:33	17°♊44'44 1°15'07	morning rise		2234 Aug 28 09:47	29°♋23'01	
max. Earth dist.	2232 Apr 10 19:59	22°♊03'29 1.72518 AU	direct		2234 Sep 15 11:17	23°♋15'24	
	2232 Apr 17 05:47	0°♊	greatest brilliancy		2234 Sep 26 08:46	25°♋25'23	-4.8m
	2232 May 11 12:54	0°♊			2234 Oct 05 12:19	0°♊	
evening rise	2232 May 15 09:49	4°♊45'52	asc. node		2234 Oct 31 03:33	20°♊53'29	
asc. node	2232 May 15 08:37	4°♊42'12	morning max el		2234 Nov 04 12:36	25°♊11'40	46°29'39
	2232 Jun 04 23:17	0°☿			2234 Nov 09 06:01	0°♊	
	2232 Jun 29 13:00	0°♊			2234 Dec 06 12:13	0°♊	
	2232 Jul 24 06:54	0°♊			2234 Dec 31 22:11	0°♊	
	2232 Aug 18 07:01	0°♊			2235 Jan 25 14:48	0°♊	
desc. node	2232 Sep 03 21:58	19°♊41'40			2235 Feb 19 00:20	0°♊	
	2232 Sep 12 16:54	0°♊	desc. node		2235 Feb 19 17:06	0°♊51'42	
	2232 Oct 08 19:22	0°♊			2235 Mar 15 07:24	0°♊	
	2232 Nov 05 10:00	0°♊			2235 Apr 08 14:18	0°♊	
evening max el	2232 Nov 10 14:20	5°♊16'26 47°07'22			2235 May 02 22:14	0°♊	
	2232 Dec 09 01:24	0°♊	morning set		2235 May 10 17:59	9°♊37'45	
greatest brilliancy	2232 Dec 21 04:41	6°♊28'48 -4.9m			2235 May 27 07:29	0°♊	
asc. node	2232 Dec 26 01:12	7°♊52'57	asc. node		2235 Jun 12 20:28	20°♊19'24	
retrograde	2232 Dec 31 06:30	8°♊25'26					
evening set	2233 Jan 15 12:25	3°♊49'15	superior conj		2235 Jun 16 19:51	25°♊12'27	0°09'28
min. Earth dist.	2233 Jan 20 03:36	1°♊04'23 0.26717 AU	minimum elong		2235 Jun 16 17:53	25°♊06'24	0°09'22
inferior conj	2233 Jan 20 21:48	0°♊36'22 6°06'21	behind sun begin		2235 Jun 15 23:24	24°♊09'36	
minimum elong	2233 Jan 20 11:17	0°♊52'33 6°03'52	behind sun end		2235 Jun 17 12:22	26°♊03'13	
	2233 Jan 21 21:26	30°♋♊	max. Earth dist.		2235 Jun 16 19:11	25°♊10'23	1.73566 AU
morning rise	2233 Jan 25 10:26	27°♊53'12			2235 Jun 20 17:27	0°☿	
direct	2233 Feb 10 06:51	22°♊56'19			2235 Jul 15 03:17	0°♊	
greatest brilliancy	2233 Feb 19 13:43	24°♊33'57 -4.9m	evening rise		2235 Jul 22 21:10	9°♊31'29	
	2233 Mar 02 15:11	0°♊			2235 Aug 08 12:47	0°♊	
morning max el	2233 Apr 01 03:53	24°♊48'33 46°30'17			2235 Sep 01 22:38	0°♊	
	2233 Apr 06 08:09	0°♊	desc. node		2235 Sep 26 10:06	0°♊	
desc. node	2233 Apr 16 14:46	10°♊42'41			2235 Oct 02 09:53	7°♊19'16	
	2233 May 04 06:24	0°♊			2235 Oct 21 00:26	0°♊	
	2233 May 30 13:57	0°♊			2235 Nov 14 19:25	0°♊	
	2233 Jun 25 04:35	0°♊			2235 Dec 09 23:45	0°♊	
	2233 Jul 20 08:39	0°☿			2236 Jan 05 03:19	0°♊	
asc. node	2233 Aug 07 18:10	22°☿12'52	evening max el		2236 Jan 22 18:53	18°♊51'22	47°05'07
	2233 Aug 14 03:48	0°♊	asc. node		2236 Jan 23 13:11	19°♊37'49	
	2233 Sep 07 14:54	0°♊			2236 Feb 03 05:59	0°♊	
morning set	2233 Sep 26 15:43	23°♊34'42	greatest brilliancy		2236 Mar 03 00:07	20°♊04'59	-4.9m

retrograde	2236 Mar 13 12:32	22° Υ 10'14		minimum elong	2238 Aug 22 22:25	29° Ω 32'22	1°19'57
evening set	2236 Mar 31 00:10	16° Υ 12'09			2238 Aug 23 07:21	0° \mathbb{M}	
inferior conj	2236 Apr 03 14:20	13° Υ 58'11	7°53'21		2238 Sep 16 12:04	0° $\underline{\Omega}$	
minimum elong	2236 Apr 03 22:21	13° Υ 45'34	7°52'17	evening rise	2238 Sep 28 21:34	15° $\underline{\Omega}$ 24'08	
min. Earth dist.	2236 Apr 03 08:09	14° Υ 07'54	0.28173 AU		2238 Oct 10 15:16	0° \mathbb{M}	
morning rise	2236 Apr 07 20:50	11° Υ 20'39		desc. node	2238 Oct 29 21:46	23° \mathbb{M} 58'17	
direct	2236 Apr 24 15:44	5° Υ 54'21			2238 Nov 03 18:05	0° \mathcal{X}	
greatest brilliancy	2236 May 04 02:57	7° Υ 34'07	-4.8m		2238 Nov 27 21:19	0° \mathcal{Z}	
desc. node	2236 May 14 02:21	12° Υ 16'08			2238 Dec 22 02:11	0° \approx	
	2236 Jun 06 01:16	0° \mathcal{X}			2239 Jan 15 11:44	0° \mathcal{H}	
morning max el	2236 Jun 12 16:40	6° \mathcal{X} 12'14	45°50'00		2239 Feb 09 08:27	0° Υ	
	2236 Jul 05 23:46	0° \mathbb{I}		asc. node	2239 Feb 20 00:58	12° Υ 35'47	
	2236 Aug 02 01:05	0° \mathcal{E}			2239 Mar 07 05:05	0° \mathcal{X}	
	2236 Aug 27 20:14	0° Ω		evening max el	2239 Apr 04 01:37	29° \mathcal{X} 37'43	46°00'13
asc. node	2236 Sep 04 06:01	8° Ω 48'19			2239 Apr 04 10:41	0° \mathbb{I}	
	2236 Sep 21 20:22	0° \mathbb{M}		greatest brilliancy	2239 May 12 09:27	28° \mathbb{I} 24'47	-4.7m
	2236 Oct 16 07:22	0° $\underline{\Omega}$			2239 May 17 17:35	0° \mathcal{E}	
	2236 Nov 09 10:01	0° \mathbb{M}		retrograde	2239 May 23 08:06	0° \mathcal{E} 35'48	
greatest brilliancy	2236 Nov 30 08:04	26° \mathbb{M} 13'16	-3.9m		2239 May 28 19:24	30° \mathcal{R} \mathbb{I}	
	2236 Dec 03 08:14	0° \mathcal{X}		evening set	2239 Jun 07 10:18	26° \mathbb{I} 11'33	
morning set	2236 Dec 08 10:43	6° \mathcal{X} 24'51		desc. node	2239 Jun 11 14:24	23° \mathbb{I} 44'18	
desc. node	2236 Dec 24 19:24	26° \mathcal{X} 59'41		inferior conj	2239 Jun 13 19:35	22° \mathbb{I} 21'09	-0°31'28
	2236 Dec 27 04:43	0° \mathcal{Z}		minimum elong	2239 Jun 13 18:25	22° \mathbb{I} 22'59	0°31'08
				min. Earth dist.	2239 Jun 13 17:48	22° \mathbb{I} 23'57	0.28880 AU
superior conj	2237 Jan 18 23:14	28° \mathcal{Z} 39'05	-0°55'34	morning rise	2239 Jun 20 02:40	18° \mathbb{I} 33'32	
minimum elong	2237 Jan 18 11:25	28° \mathcal{Z} 01'57	0°55'07	direct	2239 Jul 05 08:54	14° \mathbb{I} 05'29	
	2237 Jan 20 00:58	0° \approx		greatest brilliancy	2239 Jul 15 15:32	15° \mathbb{I} 58'36	-4.7m
max. Earth dist.	2237 Jan 21 01:00	1° \approx 15'33	1.71152 AU		2239 Aug 07 13:42	0° \mathcal{E}	
	2237 Feb 12 22:16	0° \mathcal{H}		morning max el	2239 Aug 23 03:03	13° \mathcal{E} 49'10	45°49'00
evening rise	2237 Mar 01 01:07	20° \mathcal{H} 10'30			2239 Sep 08 03:53	0° Ω	
	2237 Mar 08 22:06	0° Υ		asc. node	2239 Oct 02 17:51	27° Ω 05'24	
	2237 Apr 02 02:17	0° \mathcal{X}			2239 Oct 05 06:47	0° \mathbb{M}	
asc. node	2237 Apr 16 22:48	18° \mathcal{X} 17'02			2239 Oct 30 17:57	0° $\underline{\Omega}$	
	2237 Apr 26 12:35	0° \mathbb{I}			2239 Nov 24 08:59	0° \mathbb{M}	
	2237 May 21 06:44	0° \mathcal{E}			2239 Dec 18 13:46	0° \mathcal{X}	
	2237 Jun 15 11:31	0° Ω			2240 Jan 11 13:58	0° \mathcal{Z}	
	2237 Jul 11 08:56	0° \mathbb{M}		desc. node	2240 Jan 22 07:20	13° \mathcal{Z} 25'47	
desc. node	2237 Aug 06 12:05	28° \mathbb{M} 52'01			2240 Feb 04 12:46	0° \approx	
	2237 Aug 07 13:41	0° $\underline{\Omega}$		morning set	2240 Feb 24 15:26	25° \approx 10'34	
evening max el	2237 Aug 27 01:09	19° $\underline{\Omega}$ 46'36	46°00'29		2240 Feb 28 12:00	0° \mathcal{H}	
	2237 Sep 07 05:05	0° \mathbb{M}			2240 Mar 23 12:59	0° Υ	
greatest brilliancy	2237 Oct 06 02:26	18° \mathbb{M} 34'46	-4.8m				
retrograde	2237 Oct 15 04:45	20° \mathbb{M} 05'33		superior conj	2240 Apr 04 13:26	14° Υ 56'51	-1°17'01
evening set	2237 Oct 31 00:55	15° \mathbb{M} 18'05		minimum elong	2240 Apr 04 21:58	15° Υ 23'22	1°16'50
inferior conj	2237 Nov 04 22:51	12° \mathbb{M} 23'07	-5°24'07	max. Earth dist.	2240 Apr 08 09:30	19° Υ 42'33	1.72461 AU
minimum elong	2237 Nov 05 08:57	12° \mathbb{M} 07'40	5°21'34		2240 Apr 16 16:45	0° \mathcal{X}	
min. Earth dist.	2237 Nov 05 18:43	11° \mathbb{M} 52'46	0.27068 AU		2240 May 10 23:52	0° \mathbb{I}	
morning rise	2237 Nov 10 16:27	9° \mathbb{M} 00'02		evening rise	2240 May 13 02:06	2° \mathbb{I} 34'34	
direct	2237 Nov 25 17:40	4° \mathbb{M} 33'24		asc. node	2240 May 14 10:41	4° \mathbb{I} 14'47	
asc. node	2237 Nov 27 15:20	4° \mathbb{M} 37'45			2240 Jun 04 10:21	0° \mathcal{E}	
greatest brilliancy	2237 Dec 06 16:37	6° \mathbb{M} 49'00	-4.9m		2240 Jun 29 00:19	0° Ω	
	2238 Jan 07 09:23	0° \mathcal{X}			2240 Jul 23 18:39	0° \mathbb{M}	
morning max el	2238 Jan 15 11:01	7° \mathcal{X} 58'25	46°57'40		2240 Aug 17 19:31	0° $\underline{\Omega}$	
	2238 Feb 05 00:21	0° \mathcal{Z}		desc. node	2240 Sep 02 23:58	19° $\underline{\Omega}$ 08'41	
	2238 Mar 03 04:04	0° \approx			2240 Sep 12 06:41	0° \mathbb{M}	
desc. node	2238 Mar 19 05:00	18° \approx 56'52			2240 Oct 08 11:32	0° \mathcal{X}	
	2238 Mar 28 11:23	0° \mathcal{H}			2240 Nov 05 07:56	0° \mathcal{Z}	
	2238 Apr 22 10:11	0° Υ		evening max el	2240 Nov 08 03:28	2° \mathcal{Z} 50'26	47°05'45
	2238 May 17 05:12	0° \mathcal{X}			2240 Dec 10 12:26	0° \approx	
	2238 Jun 10 22:05	0° \mathbb{I}		greatest brilliancy	2240 Dec 18 17:46	3° \approx 59'25	-4.9m
	2238 Jul 05 12:34	0° \mathcal{E}		asc. node	2240 Dec 25 03:22	5° \approx 39'47	
asc. node	2238 Jul 10 08:24	5° \mathcal{E} 54'14		retrograde	2240 Dec 28 19:26	5° \approx 56'03	
morning set	2238 Jul 17 18:47	15° \mathcal{E} 00'35		evening set	2241 Jan 12 21:45	1° \approx 24'15	
	2238 Jul 29 23:46	0° Ω			2241 Jan 15 08:17	30° \mathcal{R} \mathcal{Z}	
max. Earth dist.	2238 Aug 19 23:09	25° Ω 52'00	1.73038 AU	min. Earth dist.	2241 Jan 17 16:40	28° \mathcal{Z} 34'33	0.26680 AU
				inferior conj	2241 Jan 18 10:14	28° \mathcal{Z} 07'37	5°48'14
superior conj	2238 Aug 23 04:05	29° Ω 49'53	1°20'02	minimum elong	2241 Jan 17 23:51	28° \mathcal{Z} 23'33	5°45'41

morning rise	2241 Jan 23 02:13	25°  20'08			2243 Jun 20 04:22	0° 	
direct	2241 Feb 07 18:57	20°  27'48			2243 Jul 14 14:14	0° 	
greatest brilliancy	2241 Feb 17 03:03	22°  06'51	-4.9m	evening rise	2243 Jul 20 15:56	7°  27'51	
	2241 Mar 03 20:34	0° 			2243 Aug 07 23:53	0° 	
morning max el	2241 Mar 29 17:50	22°  26'28	46°31'59		2243 Sep 01 10:01	0° 	
	2241 Apr 06 05:24	0° 			2243 Sep 25 21:56	0° 	
desc. node	2241 Apr 15 16:45	9°  58'08		desc. node	2243 Oct 01 11:54	6°  48'57	
	2241 May 03 22:13	0° 			2243 Oct 20 12:52	0° 	
	2241 May 30 03:30	0° 			2243 Nov 14 08:43	0° 	
	2241 Jun 24 16:57	0° 			2243 Dec 09 14:30	0° 	
	2241 Jul 19 20:20	0° 			2244 Jan 04 21:10	0° 	
asc. node	2241 Aug 06 20:09	21°  44'21		evening max el	2244 Jan 20 10:24	16°  32'27	47°06'33
	2241 Aug 13 15:05	0° 		asc. node	2244 Jan 22 15:08	18°  45'42	
	2241 Sep 07 01:59	0° 			2244 Feb 03 10:37	0° 	
morning set	2241 Sep 24 07:56	21°  44'21		greatest brilliancy	2244 Feb 29 16:01	17°  47'41	-4.9m
	2241 Oct 01 06:33	0° 		retrograde	2244 Mar 11 04:03	19°  52'12	
	2241 Oct 25 06:58	0° 		evening set	2244 Mar 28 17:55	13°  50'48	
max. Earth dist.	2241 Oct 29 21:35	5°  46'21	1.71631 AU	inferior conj	2244 Apr 01 05:24	11°  40'42	8°02'41
				minimum elong	2244 Apr 01 12:55	11°  28'52	8°01'46
superior conj	2241 Nov 01 05:26	8°  41'20	0°55'24	min. Earth dist.	2244 Mar 31 22:24	11°  51'44	0.28134 AU
minimum elong	2241 Nov 01 15:45	9°  13'40	0°55'00	morning rise	2244 Apr 05 08:13	9°  08'27	
	2241 Nov 18 05:15	0° 		direct	2244 Apr 22 06:40	3°  37'50	
desc. node	2241 Nov 26 09:43	10°  16'21		greatest brilliancy	2244 May 01 16:06	5°  16'07	-4.8m
evening rise	2241 Dec 11 14:34	29°  21'32		desc. node	2244 May 13 04:32	10°  53'52	
	2241 Dec 12 02:49	0° 			2244 Jun 06 02:51	0° 	
	2242 Jan 05 00:41	0° 		morning max el	2244 Jun 10 07:27	3°  57'31	45°50'47
	2242 Jan 29 00:17	0° 			2244 Jul 05 16:29	0° 	
	2242 Feb 22 04:11	0° 			2244 Aug 01 14:54	0° 	
	2242 Mar 18 16:13	0° 			2244 Aug 27 08:43	0° 	
asc. node	2242 Mar 19 12:53	1°  02'36		asc. node	2244 Sep 03 08:00	8°  17'43	
	2242 Apr 12 17:51	0° 			2244 Sep 21 08:09	0° 	
	2242 May 08 18:19	0° 			2244 Oct 15 18:48	0° 	
	2242 Jun 05 17:14	0° 			2244 Nov 08 21:17	0° 	
evening max el	2242 Jun 13 14:52	7°  47'09	45°24'14	greatest brilliancy	2244 Nov 29 14:51	25°  59'19	-3.9m
desc. node	2242 Jul 09 02:22	28°  55'11			2244 Dec 02 19:27	0° 	
	2242 Jul 10 18:56	0° 		morning set	2244 Dec 05 22:11	3°  54'52	
greatest brilliancy	2242 Jul 21 22:00	5°  31'15	-4.7m	desc. node	2244 Dec 23 21:31	26°  31'12	
retrograde	2242 Aug 01 05:21	7°  25'14			2244 Dec 26 15:53	0° 	
evening set	2242 Aug 18 11:48	1°  48'32					
	2242 Aug 21 11:28	30°  48'32		superior conj	2245 Jan 16 09:16	26°  04'46	-0°52'27
inferior conj	2242 Aug 22 14:22	29°  18'17	-8°06'32	minimum elong	2245 Jan 15 21:44	25°  28'28	0°52'00
minimum elong	2242 Aug 22 07:42	29°  28'38	8°05'51	max. Earth dist.	2245 Jan 18 06:13	28°  26'04	1.71128 AU
min. Earth dist.	2242 Aug 22 20:24	29°  08'53	0.28822 AU		2245 Jan 19 12:06	0° 	
morning rise	2242 Aug 26 03:27	27°  07'42			2245 Feb 12 09:21	0° 	
direct	2242 Sep 13 03:57	21°  02'55		evening rise	2245 Feb 26 12:22	17°  40'58	
greatest brilliancy	2242 Sep 23 23:20	23°  01'09	-4.8m		2245 Mar 08 09:12	0° 	
	2242 Oct 06 14:56	0° 			2245 Apr 01 13:30	0° 	
asc. node	2242 Oct 30 05:35	20°  48'42		asc. node	2245 Apr 16 00:53	17°  48'42	
morning max el	2242 Nov 02 04:20	22°  55'58	46°28'07		2245 Apr 26 00:02	0° 	
	2242 Nov 09 02:09	0° 			2245 May 20 18:37	0° 	
	2242 Dec 06 03:37	0° 			2245 Jun 15 00:14	0° 	
	2242 Dec 31 11:45	0° 			2245 Jul 10 23:16	0° 	
	2243 Jan 25 03:26	0° 		desc. node	2245 Aug 05 14:05	28°  10'11	
desc. node	2243 Feb 18 19:05	0°  20'35			2245 Aug 07 07:43	0° 	
	2243 Feb 18 12:25	0° 		evening max el	2245 Aug 24 13:44	17°  24'56	45°58'14
	2243 Mar 14 19:06	0° 			2245 Sep 07 12:27	0° 	
	2243 Apr 08 01:41	0° 		greatest brilliancy	2245 Oct 03 16:00	16°  42'17	-4.8m
	2243 May 02 09:23	0° 		retrograde	2245 Oct 12 16:42	17° 	
morning set	2243 May 08 10:24	7°  26'24		evening set	2245 Oct 28 16:56	12°  50'04	
	2243 May 26 18:29	0° 		inferior conj	2245 Nov 02 11:58	9°  59'21	-5°42'01
asc. node	2243 Jun 11 22:35	19°  52'23		minimum elong	2245 Nov 02 22:17	9°  43'34	5°39'30
				min. Earth dist.	2245 Nov 03 09:01	9°  27'10	0.27132 AU
superior conj	2243 Jun 14 13:27	23°  05'31	0°06'16	morning rise	2245 Nov 08 02:59	6°  39'24	
minimum elong	2243 Jun 14 12:09	23°  01'29	0°06'13	direct	2245 Nov 23 06:50	2°  08'17	
behind sun begin	2243 Jun 13 15:04	21°  56'42		asc. node	2245 Nov 26 17:30	2° 	
behind sun end	2243 Jun 15 09:14	24°  06'17		greatest brilliancy	2245 Dec 04 07:58	4°  42'27	-4.9m
max. Earth dist.	2243 Jun 14 18:15	23°  20'15	1.73552 AU		2246 Jan 07 11:18	0° 	

morning max el	2246 Jan 13 00:04	5° ♁ 31'21	46°57'44		2248 Jul 23 06:17	0° ♁	
	2246 Feb 04 17:43	0° ♁			2248 Aug 17 07:57	0° ♁	
	2246 Mar 02 18:30	0° ♁		desc. node	2248 Sep 02 01:58	18° ♁ 35'53	
desc. node	2246 Mar 18 07:01	18° ♁ 22'52			2248 Sep 11 20:27	0° ♁	
	2246 Mar 28 00:21	0° ♁			2248 Oct 08 03:48	0° ♁	
	2246 Apr 21 22:16	0° ♁			2248 Nov 05 06:30	0° ♁	
	2246 May 16 16:44	0° ♁		evening max el	2248 Nov 05 17:38	0° ♁ 27'51	47°04'15
	2246 Jun 10 09:15	0° ♁			2248 Dec 12 16:35	0° ♁	
	2246 Jul 04 23:29	0° ♁		greatest brilliancy	2248 Dec 16 06:28	1° ♁ 30'36	-4.9m
asc. node	2246 Jul 09 10:22	5° ♁ 26'55		asc. node	2248 Dec 24 05:18	3° ♁ 21'54	
morning set	2246 Jul 15 12:47	12° ♁ 55'20		retrograde	2248 Dec 26 08:47	3° ♁ 27'31	
	2246 Jul 29 10:34	0° ♁			2249 Jan 08 09:50	30° ♁	
max. Earth dist.	2246 Aug 17 18:26	23° ♁ 49'56	1.73081 AU	evening set	2249 Jan 10 07:23	28° ♁ 59'55	
				min. Earth dist.	2249 Jan 15 05:33	26° ♁ 05'54	0.26644 AU
superior conj	2246 Aug 20 22:02	27° ♁ 43'35	1°18'55	inferior conj	2249 Jan 15 22:41	25° ♁ 39'39	5°29'30
minimum elong	2246 Aug 20 15:52	27° ♁ 24'31	1°18'48	minimum elong	2249 Jan 15 12:30	25° ♁ 55'15	5°26'54
	2246 Aug 22 18:09	0° ♁		morning rise	2249 Jan 20 17:58	22° ♁ 48'00	
	2246 Sep 15 22:58	0° ♁		direct	2249 Feb 05 07:38	18° ♁ 00'18	
evening rise	2246 Sep 26 13:20	13° ♁ 09'57		greatest brilliancy	2249 Feb 14 15:59	19° ♁ 40'06	-4.9m
	2246 Oct 10 02:20	0° ♁			2249 Mar 04 17:34	0° ♁	
desc. node	2246 Oct 28 23:54	23° ♁ 29'58		morning max el	2249 Mar 27 08:23	20° ♁ 06'40	46°33'30
	2246 Nov 03 05:24	0° ♁			2249 Apr 06 01:39	0° ♁	
	2246 Nov 27 08:57	0° ♁		desc. node	2249 Apr 14 18:52	9° ♁ 15'16	
	2246 Dec 21 14:12	0° ♁			2249 May 03 13:30	0° ♁	
	2247 Jan 15 00:21	0° ♁			2249 May 29 16:40	0° ♁	
	2247 Feb 08 22:04	0° ♁			2249 Jun 24 04:58	0° ♁	
asc. node	2247 Feb 19 03:00	12° ♁ 00'05			2249 Jul 19 07:40	0° ♁	
	2247 Mar 06 20:52	0° ♁		asc. node	2249 Aug 05 22:10	21° ♁ 16'50	
evening max el	2247 Apr 01 16:09	27° ♁ 21'53	46°02'31		2249 Aug 13 02:04	0° ♁	
	2247 Apr 04 08:58	0° ♁			2249 Sep 06 12:49	0° ♁	
greatest brilliancy	2247 May 10 02:02	26° ♁ 15'41	-4.7m	morning set	2249 Sep 22 00:06	19° ♁ 09'27	
retrograde	2247 May 21 00:47	28° ♁ 27'16			2249 Sep 30 17:20	0° ♁	
evening set	2247 Jun 05 03:21	24° ♁ 01'42			2249 Oct 24 17:47	0° ♁	
desc. node	2247 Jun 10 16:26	20° ♁ 43'14		max. Earth dist.	2249 Oct 27 08:12	3° ♁ 15'24	1.71673 AU
inferior conj	2247 Jun 11 12:05	20° ♁ 12'24	-0°11'39				
minimum elong	2247 Jun 11 11:39	20° ♁ 13'05	0°11'31	superior conj	2249 Oct 29 18:56	6° ♁ 19'19	0°58'07
transit middle	2247 Jun 11 11:39	20° ♁ 13'05	0°11'31	minimum elong	2249 Oct 30 05:17	6° ♁ 51'43	0°57'44
transit begin	2247 Jun 11 08:47	20° ♁ 17'34			2249 Nov 17 16:09	0° ♁	
transit end	2247 Jun 11 14:30	20° ♁ 08'36		desc. node	2249 Nov 25 11:48	9° ♁ 48'35	
min. Earth dist.	2247 Jun 11 10:38	20° ♁ 14'40	0.28868 AU	evening rise	2249 Dec 09 01:21	26° ♁ 50'13	
morning rise	2247 Jun 17 20:01	16° ♁ 23'42			2249 Dec 11 13:49	0° ♁	
direct	2247 Jul 03 00:37	11° ♁ 56'40			2250 Jan 04 11:48	0° ♁	
greatest brilliancy	2247 Jul 13 08:02	13° ♁ 50'25	-4.7m		2250 Jan 28 11:33	0° ♁	
	2247 Aug 07 20:36	0° ♁			2250 Feb 21 15:42	0° ♁	
morning max el	2247 Aug 20 19:16	11° ♁ 39'49	45°48'15		2250 Mar 18 04:13	0° ♁	
	2247 Sep 07 21:19	0° ♁		asc. node	2250 Mar 18 15:00	0° ♁ 32'39	
asc. node	2247 Oct 01 19:56	26° ♁ 30'28			2250 Apr 12 06:44	0° ♁	
	2247 Oct 04 20:51	0° ♁			2250 May 08 09:06	0° ♁	
	2247 Oct 30 06:37	0° ♁			2250 Jun 05 13:03	0° ♁	
	2247 Nov 23 20:57	0° ♁		evening max el	2250 Jun 11 07:15	5° ♁ 38'14	45°24'22
	2247 Dec 18 01:20	0° ♁		desc. node	2250 Jul 08 04:19	27° ♁ 40'01	
	2248 Jan 11 01:19	0° ♁			2250 Jul 12 03:36	0° ♁	
desc. node	2248 Jan 21 09:14	12° ♁ 56'24		greatest brilliancy	2250 Jul 19 12:14	3° ♁ 20'03	-4.7m
	2248 Feb 03 23:57	0° ♁		retrograde	2250 Jul 29 20:44	5° ♁ 14'46	
morning set	2248 Feb 22 02:01	22° ♁ 38'52			2250 Aug 15 12:27	30° ♁	
	2248 Feb 27 23:03	0° ♁		evening set	2250 Aug 16 00:21	29° ♁ 42'42	
	2248 Mar 22 23:55	0° ♁		inferior conj	2250 Aug 20 06:07	27° ♁ 07'23	-7°58'52
				minimum elong	2250 Aug 19 22:53	27° ♁ 18'38	7°58'04
superior conj	2248 Apr 02 03:13	12° ♁ 36'50	-1°18'35	min. Earth dist.	2250 Aug 20 11:07	26° ♁ 59'35	0.28849 AU
minimum elong	2248 Apr 02 11:16	13° ♁ 01'51	1°18'26	morning rise	2250 Aug 23 21:18	24° ♁ 53'25	
max. Earth dist.	2248 Apr 05 22:00	17° ♁ 18'45	1.72403 AU	direct	2250 Sep 10 20:25	18° ♁ 51'55	
	2248 Apr 16 03:35	0° ♁		greatest brilliancy	2250 Sep 21 14:02	20° ♁ 58'16	-4.8m
	2248 May 10 10:39	0° ♁			2250 Oct 07 09:50	0° ♁	
evening rise	2248 May 10 18:24	0° ♁ 23'52		asc. node	2250 Oct 29 07:44	19° ♁ 11'09	
asc. node	2248 May 13 12:50	3° ♁ 48'12		morning max el	2250 Oct 30 19:11	20° ♁ 39'04	46°26'24
	2248 Jun 03 21:14	0° ♁			2250 Nov 08 21:23	0° ♁	
	2248 Jun 28 11:27	0° ♁			2250 Dec 05 18:33	0° ♁	




































































































































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	2251 Jan 24 15:46	0°♋		desc. node	2253 Aug 04 16:10	27°♎28'46	
desc. node	2251 Feb 17 21:12	29°♋50'49			2253 Aug 07 01:55	0°♌	
	2251 Feb 18 00:10	0°♌		evening max el	2253 Aug 22 02:19	15°♌04'15	45°56'08
	2251 Mar 14 06:26	0°♍			2253 Sep 07 22:01	0°♍	
	2251 Apr 07 12:42	0°♎		greatest brilliancy	2253 Oct 01 05:06	13°♍51'12	-4.8m
	2251 May 01 20:11	0°♏		retrograde	2253 Oct 10 05:07	15°♍20'45	
morning set	2251 May 06 02:41	5°♏15'38		evening set	2253 Oct 26 09:06	10°♍23'25	
	2251 May 26 05:08	0°♐		inferior conj	2253 Oct 31 01:12	7°♍37'03	-5°59'01
asc. node	2251 Jun 11 00:34	19°♐25'51		minimum elong	2253 Oct 31 11:39	7°♍21'05	5°56'36
				min. Earth dist.	2253 Oct 31 23:09	7°♍03'32	0.27197 AU
superior conj	2251 Jun 12 07:06	20°♐59'39	0°03'04	morning rise	2253 Nov 05 13:32	4°♍20'47	
minimum elong	2251 Jun 12 06:27	20°♐57'40	0°03'01		2253 Nov 17 07:26	30°♎♌	
behind sun begin	2251 Jun 11 08:03	19°♐48'50		direct	2253 Nov 20 20:22	29°♌44'37	
behind sun end	2251 Jun 13 04:51	22°♐06'31			2253 Nov 24 10:43	0°♍	
max. Earth dist.	2251 Jun 12 16:05	21°♐27'17	1.73536 AU	asc. node	2253 Nov 25 19:25	0°♍13'35	
	2251 Jun 19 14:58	0°♑		greatest brilliancy	2253 Dec 01 23:19	2°♍03'31	-4.9m
	2251 Jul 14 00:52	0°♒			2254 Jan 07 11:33	0°♊	
evening rise	2251 Jul 18 10:47	5°♒25'31		morning max el	2254 Jan 10 13:57	3°♊07'22	46°57'35
	2251 Aug 07 10:39	0°♓			2254 Feb 04 10:28	0°♋	
	2251 Aug 31 21:04	0°♌			2254 Mar 02 08:36	0°♌	
	2251 Sep 25 09:26	0°♍		desc. node	2254 Mar 17 09:08	17°♌49'47	
desc. node	2251 Sep 30 14:04	6°♍20'09			2254 Mar 27 13:05	0°♍	
	2251 Oct 20 01:02	0°♊			2254 Apr 21 10:11	0°♎	
	2251 Nov 13 21:49	0°♋			2254 May 16 04:06	0°♏	
	2251 Dec 09 05:11	0°♌			2254 Jun 09 20:13	0°♐	
	2252 Jan 04 15:12	0°♍			2254 Jul 04 10:13	0°♑	
evening max el	2252 Jan 18 01:06	14°♍11'51	47°07'59	asc. node	2254 Jul 08 12:23	5°♑00'16	
asc. node	2252 Jan 21 17:11	17°♍53'23		morning set	2254 Jul 13 06:38	10°♑50'12	
	2252 Feb 03 17:01	0°♎			2254 Jul 28 21:12	0°♒	
greatest brilliancy	2252 Feb 27 08:20	15°♎31'10	-4.9m	max. Earth dist.	2254 Aug 15 15:01	21°♒52'23	1.73122 AU
retrograde	2252 Mar 08 19:00	17°♎34'29					
evening set	2252 Mar 26 11:25	11°♎30'08		superior conj	2254 Aug 18 15:57	25°♒37'41	1°17'41
inferior conj	2252 Mar 29 20:23	9°♎23'42	8°11'17	minimum elong	2254 Aug 18 09:19	25°♒17'13	1°17'33
minimum elong	2252 Mar 30 03:19	9°♎12'46	8°10'32		2254 Aug 22 04:48	0°♓	
min. Earth dist.	2252 Mar 29 12:48	9°♎35'39	0.28091 AU		2254 Sep 15 09:43	0°♌	
morning rise	2252 Apr 02 19:29	6°♎56'44		evening rise	2254 Sep 24 05:19	10°♌56'57	
direct	2252 Apr 19 20:56	1°♎21'45			2254 Oct 09 13:16	0°♍	
greatest brilliancy	2252 Apr 29 05:39	2°♎59'05	-4.8m	desc. node	2254 Oct 28 01:56	23°♍01'49	
desc. node	2252 May 12 06:37	9°♎34'44			2254 Nov 02 16:33	0°♊	
	2252 Jun 06 02:50	0°♏			2254 Nov 26 20:23	0°♋	
morning max el	2252 Jun 07 21:30	1°♏41'44	45°51'39		2254 Dec 21 02:03	0°♌	
	2252 Jul 05 08:34	0°♐			2255 Jan 14 12:49	0°♍	
	2252 Aug 01 04:17	0°♑			2255 Feb 08 11:39	0°♎	
	2252 Aug 26 20:49	0°♒		asc. node	2255 Feb 18 05:05	11°♎24'43	
asc. node	2252 Sep 02 10:07	7°♒48'35			2255 Mar 06 12:49	0°♏	
	2252 Sep 20 19:35	0°♓		evening max el	2255 Mar 30 07:34	25°♏08'16	46°04'49
	2252 Oct 15 05:53	0°♌			2255 Apr 04 08:13	0°♐	
	2252 Nov 08 08:14	0°♍		greatest brilliancy	2255 May 07 18:08	24°♐05'47	-4.8m
greatest brilliancy	2252 Nov 28 14:23	25°♍23'36	-3.9m	retrograde	2255 May 18 17:43	26°♐18'19	
	2252 Dec 02 06:22	0°♊		evening set	2255 Jun 02 20:29	21°♐51'19	
morning set	2252 Dec 03 09:46	1°♊26'06		inferior conj	2255 Jun 09 04:25	18°♐03'11	0°08'17
desc. node	2252 Dec 22 23:29	26°♊03'04		minimum elong	2255 Jun 09 04:44	18°♐02'42	0°08'12
	2252 Dec 26 02:47	0°♋		transit middle	2255 Jun 09 04:44	18°♐02'42	0°08'12
				transit begin	2255 Jun 09 01:14	18°♐08'12	
superior conj	2253 Jan 13 19:01	23°♋30'14	-0°49'12	transit end	2255 Jun 09 08:14	17°♐57'13	
minimum elong	2253 Jan 13 07:51	22°♋55'07	0°48'44	min. Earth dist.	2255 Jun 09 03:02	18°♐05'22	0.28854 AU
max. Earth dist.	2253 Jan 15 08:18	25°♋27'27	1.71113 AU	desc. node	2255 Jun 09 18:23	17°♐41'18	
	2253 Jan 18 23:00	0°♌		morning rise	2255 Jun 15 13:07	14°♐13'47	
	2253 Feb 11 20:15	0°♍		direct	2255 Jun 30 16:45	9°♐47'30	
evening rise	2253 Feb 23 23:04	15°♍10'16		greatest brilliancy	2255 Jul 10 23:55	11°♐41'30	-4.7m
	2253 Mar 07 20:08	0°♎			2255 Aug 08 01:19	0°♑	
	2253 Apr 01 00:31	0°♏		morning max el	2255 Aug 18 11:58	9°♑31'55	45°47'30
asc. node	2253 Apr 15 02:59	17°♏21'08			2255 Sep 07 14:19	0°♒	
	2253 Apr 25 11:15	0°♐		asc. node	2255 Sep 30 22:01	25°♒55'53	
	2253 May 20 06:18	0°♑			2255 Oct 04 10:43	0°♓	
	2253 Jun 14 12:47	0°♒			2255 Oct 29 19:10	0°♌	

	2255 Nov 23 08:50	0°♍	evening max el	2258 Jun 08 23:03	3°♏27'25	45°24'25
	2255 Dec 17 12:50	0°♊	desc. node	2258 Jul 07 06:27	26°♏22'18	
	2256 Jan 10 12:33	0°♊		2258 Jul 14 05:20	0°♏	
desc. node	2256 Jan 20 11:22	12°♊28'06	greatest brilliancy	2258 Jul 17 03:11	1°♏09'09	-4.7m
	2256 Feb 03 11:01	0°♊	retrograde	2258 Jul 27 11:50	3°♏04'08	
morning set	2256 Feb 19 12:50	20°♊08'11		2258 Aug 09 01:45	30°♏	
	2256 Feb 27 10:00	0°♋	evening set	2258 Aug 13 13:01	27°♏36'46	
	2256 Mar 22 10:46	0°♋	inferior conj	2258 Aug 17 22:03	24°♏56'27	-7°50'35
			minimum elong	2258 Aug 17 14:19	25°♏08'31	7°49'38
superior conj	2256 Mar 30 16:55	10°♋16'36 -1°20'01	min. Earth dist.	2258 Aug 18 02:25	24°♏49'39	0.28874 AU
minimum elong	2256 Mar 31 00:24	10°♋39'52 1°19'52	morning rise	2258 Aug 21 15:28	22°♏38'52	
max. Earth dist.	2256 Apr 03 11:45	14°♋58'53 1.72353 AU	direct	2258 Sep 08 12:35	16°♏40'47	
	2256 Apr 15 14:22	0°♌	greatest brilliancy	2258 Sep 19 05:32	18°♏45'56	-4.8m
evening rise	2256 May 08 10:29	28°♌12'24		2258 Oct 08 00:08	0°♏	
	2256 May 09 21:27	0°♌	asc. node	2258 Oct 28 09:43	18°♏20'53	
asc. node	2256 May 12 14:46	3°♌20'55	morning max el	2258 Oct 28 09:06	18°♏19'22	46°24'41
	2256 Jun 03 08:08	0°♍		2258 Nov 08 16:18	0°♍	
	2256 Jun 27 22:39	0°♍		2258 Dec 05 09:31	0°♍	
	2256 Jul 22 17:58	0°♎		2258 Dec 30 14:20	0°♊	
	2256 Aug 16 20:28	0°♎		2259 Jan 24 04:16	0°♊	
desc. node	2256 Sep 01 04:07	18°♎03'15	desc. node	2259 Feb 16 23:15	29°♊20'11	
	2256 Sep 11 10:23	0°♎		2259 Feb 17 12:08	0°♊	
	2256 Oct 07 20:27	0°♊		2259 Mar 13 17:58	0°♋	
evening max el	2256 Nov 03 08:39	28°♊07'17 47°02'36		2259 Apr 06 23:55	0°♋	
	2256 Nov 05 06:08	0°♊		2259 May 01 07:10	0°♌	
greatest brilliancy	2256 Dec 13 19:21	29°♊02'00 -4.9m	morning set	2259 May 03 19:14	3°♌05'02	
	2256 Dec 16 20:07	0°♊		2259 May 25 15:59	0°♌	
asc. node	2256 Dec 23 07:22	0°♊58'17				
retrograde	2256 Dec 23 22:08	0°♊58'45	superior conj	2259 Jun 10 01:02	18°♌54'08	-0°00'10
	2256 Dec 30 18:38	30°♌	minimum elong	2259 Jun 10 01:03	18°♌54'12	0°00'10
evening set	2257 Jan 07 17:19	26°♌35'28	behind sun begin	2259 Jun 09 02:28	17°♌44'46	
inferior conj	2257 Jan 13 11:09	23°♌11'41 5°10'08	behind sun end	2259 Jun 10 23:39	20°♌03'38	
minimum elong	2257 Jan 13 01:15	23°♌26'50 5°07'30	asc. node	2259 Jun 10 02:40	18°♌59'10	
min. Earth dist.	2257 Jan 12 18:31	23°♌37'08 0.26604 AU	max. Earth dist.	2259 Jun 10 13:15	19°♌31'42 1.73520 AU	
morning rise	2257 Jan 18 09:36	20°♌15'53		2259 Jun 19 01:47	0°♍	
direct	2257 Feb 02 20:35	15°♌33'05		2259 Jul 13 11:44	0°♍	
greatest brilliancy	2257 Feb 12 04:46	17°♌13'09 -4.9m	evening rise	2259 Jul 16 05:50	3°♏23'06	
	2257 Mar 05 09:05	0°♌		2259 Aug 06 21:41	0°♎	
morning max el	2257 Mar 24 22:19	17°♌45'27 46°34'58		2259 Aug 31 08:25	0°♎	
	2257 Apr 05 21:13	0°♋		2259 Sep 24 21:15	0°♍	
desc. node	2257 Apr 13 20:57	8°♋32'58	desc. node	2259 Sep 29 16:02	5°♍49'48	
	2257 May 03 04:34	0°♋		2259 Oct 19 13:31	0°♊	
	2257 May 29 05:47	0°♌		2259 Nov 13 11:19	0°♊	
	2257 Jun 23 17:02	0°♌		2259 Dec 08 20:22	0°♊	
	2257 Jul 18 19:08	0°♍		2260 Jan 04 10:03	0°♋	
asc. node	2257 Aug 05 00:20	20°♍49'23	evening max el	2260 Jan 15 14:52	11°♋47'39 47°09'16	
	2257 Aug 12 13:10	0°♍	asc. node	2260 Jan 20 19:21	16°♋59'12	
	2257 Sep 05 23:44	0°♎		2260 Feb 04 02:28	0°♋	
morning set	2257 Sep 19 16:17	16°♎57'00	greatest brilliancy	2260 Feb 25 00:47	13°♋13'21	-4.9m
	2257 Sep 30 04:13	0°♎	retrograde	2260 Mar 06 09:44	15°♋15'33	
	2257 Oct 24 04:42	0°♍	evening set	2260 Mar 24 04:41	9°♋08'20	
max. Earth dist.	2257 Oct 24 17:35	0°♍40'17 1.71719 AU	inferior conj	2260 Mar 27 11:18	7°♋05'32 8°19'11	
			minimum elong	2260 Mar 27 17:36	6°♋55'36 8°18'34	
superior conj	2257 Oct 27 08:37	3°♍57'36 1°00'42	min. Earth dist.	2260 Mar 27 03:25	7°♋17'59 0.28046 AU	
minimum elong	2257 Oct 27 18:56	4°♍29'52 1°00'21	morning rise	2260 Mar 31 06:47	4°♋43'50	
	2257 Nov 17 03:11	0°♊		2260 Apr 10 15:39	30°♋	
desc. node	2257 Nov 24 13:44	9°♊19'55	direct	2260 Apr 17 10:41	29°♋04'16	
evening rise	2257 Dec 06 12:13	24°♊18'39		2260 Apr 24 11:26	0°♋	
	2257 Dec 11 01:00	0°♊	greatest brilliancy	2260 Apr 26 19:40	0°♋41'29	-4.8m
	2258 Jan 03 23:06	0°♊	desc. node	2260 May 11 08:31	8°♋16'49	
	2258 Jan 27 23:00	0°♋	morning max el	2260 Jun 05 11:26	29°♋24'50 45°52'48	
	2258 Feb 21 03:22	0°♋		2260 Jun 06 02:03	0°♌	
asc. node	2258 Mar 17 17:06	0°♌02'18		2260 Jul 05 00:36	0°♌	
	2258 Mar 17 16:20	0°♌		2260 Jul 31 17:48	0°♍	
	2258 Apr 11 19:48	0°♌		2260 Aug 26 09:08	0°♍	
	2258 May 08 00:12	0°♍	asc. node	2260 Sep 01 12:09	7°♏18'21	
	2258 Jun 05 09:43	0°♏		2260 Sep 20 07:17	0°♎	

	2260 Oct 14 17:17	0°♄			2263 Apr 04 09:00	0°♈	
	2260 Nov 07 19:30	0°♍		greatest brilliancy	2263 May 05 10:13	21°♈54'50	-4.8m
greatest brilliancy	2260 Nov 27 15:50	24°♍52'55	-3.9m	retrograde	2263 May 16 10:45	24°♈08'03	
morning set	2260 Nov 30 21:23	28°♍56'29		evening set	2263 May 31 13:43	19°♈39'42	
	2260 Dec 01 17:36	0°♊		inferior conj	2263 Jun 06 20:40	15°♈52'43	0°28'23
desc. node	2260 Dec 22 01:35	25°♊34'28		minimum elong	2263 Jun 06 21:42	15°♈51'04	0°28'04
	2260 Dec 25 14:00	0°♋		min. Earth dist.	2263 Jun 06 19:06	15°♈55'09	0.28836 AU
				desc. node	2263 Jun 08 20:33	14°♈38'00	
superior conj	2261 Jan 11 04:40	20°♋54'21	-0°45'50	morning rise	2263 Jun 13 05:57	12°♈02'50	
minimum elong	2261 Jan 10 17:57	20°♋20'39	0°45'22	direct	2263 Jun 28 09:11	7°♈37'22	
max. Earth dist.	2261 Jan 12 10:59	22°♋29'44	1.71103 AU	greatest brilliancy	2263 Jul 08 15:08	9°♈30'52	-4.7m
	2261 Jan 18 10:12	0°♌			2263 Aug 08 04:35	0°♉	
	2261 Feb 11 07:28	0°♌		morning max el	2263 Aug 16 04:42	7°♉23'38	45°46'55
evening rise	2261 Feb 21 09:44	12°♌38'23			2263 Sep 07 07:10	0°♊	
	2261 Mar 07 07:24	0°♍		asc. node	2263 Sep 30 00:00	25°♊20'54	
	2261 Mar 31 11:53	0°♎			2263 Oct 04 00:36	0°♋	
asc. node	2261 Apr 14 04:57	16°♎52'03			2263 Oct 29 07:47	0°♌	
	2261 Apr 24 22:50	0°♍			2263 Nov 22 20:50	0°♍	
	2261 May 19 18:18	0°♎			2263 Dec 17 00:30	0°♊	
	2261 Jun 14 01:40	0°♎			2264 Jan 10 00:02	0°♋	
	2261 Jul 10 04:13	0°♏		desc. node	2264 Jan 19 13:29	11°♋58'54	
desc. node	2261 Aug 03 18:15	26°♏46'07			2264 Feb 02 22:21	0°♌	
	2261 Aug 06 20:53	0°♍		morning set	2264 Feb 16 23:11	17°♌35'04	
evening max el	2261 Aug 19 15:23	12°♍44'11	45°54'01		2264 Feb 26 21:12	0°♎	
	2261 Sep 08 11:22	0°♍			2264 Mar 21 21:51	0°♍	
greatest brilliancy	2261 Sep 28 17:30	11°♍28'26	-4.8m				
retrograde	2261 Oct 07 18:05	12°♍58'32		superior conj	2264 Mar 28 06:05	7°♍53'51	-1°21'19
evening set	2261 Oct 24 01:19	7°♍55'52		minimum elong	2264 Mar 28 12:54	8°♍15'06	1°21'12
inferior conj	2261 Oct 28 14:28	5°♍13'47	-6°15'20	max. Earth dist.	2264 Apr 01 03:15	12°♍43'32	1.72299 AU
minimum elong	2261 Oct 29 00:59	4°♍57'44	6°13'01		2264 Apr 15 01:23	0°♎	
min. Earth dist.	2261 Oct 29 12:53	4°♍39'35	0.27268 AU	evening rise	2264 May 06 02:13	25°♎59'08	
morning rise	2261 Nov 02 23:59	2°♍01'38			2264 May 09 08:28	0°♍	
	2261 Nov 06 23:43	30°♎♄		asc. node	2264 May 11 16:52	2°♍53'28	
direct	2261 Nov 18 10:28	27°♄20'02			2264 Jun 02 19:17	0°♎	
asc. node	2261 Nov 24 21:30	28°♄08'51			2264 Jun 27 10:04	0°♎	
greatest brilliancy	2261 Nov 29 14:19	29°♄40'14	-4.9m		2264 Jul 22 05:52	0°♏	
	2261 Nov 30 09:36	0°♍			2264 Aug 16 09:10	0°♍	
	2262 Jan 07 11:10	0°♊		desc. node	2264 Aug 31 06:06	17°♍29'44	
morning max el	2262 Jan 08 04:43	0°♊44'35	46°57'23		2264 Sep 11 00:31	0°♍	
	2262 Feb 04 03:18	0°♋			2264 Oct 07 13:27	0°♊	
	2262 Mar 01 22:53	0°♌		evening max el	2264 Oct 31 23:21	25°♊45'57	47°00'42
desc. node	2262 Mar 16 11:09	17°♌15'33			2264 Nov 05 06:54	0°♋	
	2262 Mar 27 02:05	0°♎		greatest brilliancy	2264 Dec 11 08:23	26°♋33'09	-4.9m
	2262 Apr 20 22:23	0°♍		retrograde	2264 Dec 21 10:52	28°♋29'01	
	2262 May 15 15:45	0°♎		asc. node	2264 Dec 22 09:30	28°♋27'55	
	2262 Jun 09 07:29	0°♍		evening set	2265 Jan 05 03:22	24°♋09'57	
	2262 Jul 03 21:14	0°♎		inferior conj	2265 Jan 10 23:28	20°♋42'51	4°49'52
asc. node	2262 Jul 07 14:34	4°♎33'20		minimum elong	2265 Jan 10 13:59	20°♋57'24	4°47'16
morning set	2262 Jul 11 00:49	8°♎45'14		min. Earth dist.	2265 Jan 10 07:42	21°♋07'01	0.26573 AU
	2262 Jul 28 08:04	0°♎		morning rise	2265 Jan 16 01:01	17°♋42'44	
max. Earth dist.	2262 Aug 13 13:04	19°♎58'40	1.73159 AU	direct	2265 Jan 31 09:16	13°♋04'55	
				greatest brilliancy	2265 Feb 09 17:57	14°♋45'24	-4.9m
superior conj	2262 Aug 16 10:11	23°♎32'06	1°16'21		2265 Mar 05 21:06	0°♌	
minimum elong	2262 Aug 16 03:08	23°♎10'20	1°16'12	morning max el	2265 Mar 22 11:12	15°♌20'29	46°36'21
	2262 Aug 21 15:40	0°♏			2265 Apr 05 16:31	0°♎	
	2262 Sep 14 20:43	0°♍		desc. node	2265 Apr 12 22:55	7°♎50'05	
evening rise	2262 Sep 21 21:39	8°♍44'21			2265 May 02 19:40	0°♍	
	2262 Oct 09 00:28	0°♍			2265 May 28 18:58	0°♎	
desc. node	2262 Oct 27 03:56	22°♍32'37			2265 Jun 23 05:11	0°♍	
	2262 Nov 02 04:02	0°♊			2265 Jul 18 06:39	0°♎	
	2262 Nov 26 08:12	0°♋		asc. node	2265 Aug 04 02:18	20°♎21'12	
	2262 Dec 20 14:18	0°♌			2265 Aug 12 00:20	0°♎	
	2263 Jan 14 01:44	0°♎			2265 Sep 05 10:42	0°♏	
	2263 Feb 08 01:43	0°♍		morning set	2265 Sep 17 08:41	14°♏45'06	
asc. node	2263 Feb 17 07:07	10°♍47'49			2265 Sep 29 15:06	0°♍	
	2263 Mar 06 05:25	0°♎		max. Earth dist.	2265 Oct 22 03:26	28°♍06'52	1.71763 AU
evening max el	2263 Mar 27 23:35	22°♎55'03	46°07'09		2265 Oct 23 15:36	0°♍	

superior conj	2265 Oct 24 22:50	1°♍37'45	1°03'09	minimum elong	2268 Mar 25 07:51	4°♍39'13	8°25'39
minimum elong	2265 Oct 25 09:03	2°♍09'42	1°02'49	morning rise	2268 Mar 28 18:16	2°♍31'37	
	2265 Nov 16 14:10	0°♊			2268 Apr 02 08:17	30°♊	
desc. node	2265 Nov 23 15:54	8°♊52'10		direct	2268 Apr 15 00:28	26°♊47'18	
evening rise	2265 Dec 03 23:31	21°♊48'44		greatest brilliancy	2268 Apr 24 09:53	28°♊24'50	-4.8m
	2265 Dec 10 12:07	0°♊			2268 Apr 28 11:01	0°♍	
	2266 Jan 03 10:22	0°♊		desc. node	2268 May 10 10:43	7°♍02'22	
	2266 Jan 27 10:27	0°♊		morning max el	2268 Jun 03 01:59	27°♍09'49	45°53'50
	2266 Feb 20 15:06	0°♍			2268 Jun 06 00:07	0°♊	
asc. node	2266 Mar 16 19:01	29°♍31'05			2268 Jul 04 16:12	0°♊	
	2266 Mar 17 04:35	0°♊			2268 Jul 31 07:00	0°♊	
	2266 Apr 11 09:03	0°♊			2268 Aug 25 21:09	0°♊	
	2266 May 07 15:36	0°♊		asc. node	2268 Aug 31 14:09	6°♊48'51	
	2266 Jun 05 07:12	0°♊			2268 Sep 19 18:42	0°♊	
evening max el	2266 Jun 06 13:44	1°♊13'41	45°24'40		2268 Oct 14 04:24	0°♊	
desc. node	2266 Jul 06 08:30	25°♊01'43			2268 Nov 07 06:30	0°♍	
greatest brilliancy	2266 Jul 14 18:05	28°♊57'54	-4.7m	greatest brilliancy	2268 Nov 26 20:20	24°♍32'43	-3.9m
	2266 Jul 18 03:51	0°♊		morning set	2268 Nov 28 09:13	26°♍28'30	
retrograde	2266 Jul 25 02:46	0°♊53'25			2268 Dec 01 04:32	0°♊	
	2266 Jul 31 20:44	30°♊		desc. node	2268 Dec 21 03:40	25°♊06'46	
evening set	2266 Aug 11 01:30	25°♊30'30			2268 Dec 25 00:53	0°♊	
inferior conj	2266 Aug 15 13:52	22°♊45'20	-7°41'37				
minimum elong	2266 Aug 15 05:40	22°♊58'09	7°40'31	superior conj	2269 Jan 08 14:32	18°♊20'15	-0°42'22
min. Earth dist.	2266 Aug 15 17:49	22°♊39'11	0.28897 AU	minimum elong	2269 Jan 08 04:21	17°♊48'13	0°41'56
morning rise	2266 Aug 19 09:39	20°♊24'03		max. Earth dist.	2269 Jan 09 16:05	19°♊40'36	1.71090 AU
direct	2266 Sep 06 04:11	14°♊29'19			2269 Jan 17 21:03	0°♊	
greatest brilliancy	2266 Sep 16 21:30	16°♊34'09	-4.8m		2269 Feb 10 18:18	0°♊	
	2266 Oct 08 10:44	0°♊		evening rise	2269 Feb 18 20:46	10°♊08'55	
morning max el	2266 Oct 25 22:47	15°♊59'27	46°23'17		2269 Mar 06 18:16	0°♍	
asc. node	2266 Oct 27 11:46	17°♊31'54			2269 Mar 30 22:51	0°♊	
	2266 Nov 08 10:35	0°♊		asc. node	2269 Apr 13 07:02	16°♊24'32	
	2266 Dec 05 00:06	0°♍			2269 Apr 24 10:03	0°♊	
	2266 Dec 30 03:22	0°♊			2269 May 19 06:01	0°♊	
	2267 Jan 23 16:30	0°♊			2269 Jun 13 14:20	0°♊	
desc. node	2267 Feb 16 01:14	28°♊50'02			2269 Jul 09 18:49	0°♊	
	2267 Feb 16 23:51	0°♊		desc. node	2269 Aug 02 20:15	26°♊03'22	
	2267 Mar 13 05:20	0°♊			2269 Aug 06 16:07	0°♊	
	2267 Apr 06 11:01	0°♍		evening max el	2269 Aug 17 05:14	10°♊26'59	45°52'03
	2267 Apr 30 18:05	0°♊			2269 Sep 09 04:43	0°♍	
morning set	2267 May 01 11:08	0°♊52'35		greatest brilliancy	2269 Sep 26 05:23	9°♍06'15	-4.8m
	2267 May 25 02:45	0°♊		retrograde	2269 Oct 05 07:24	10°♍37'10	
				evening set	2269 Oct 21 17:34	5°♍29'16	
superior conj	2267 Jun 07 18:23	16°♊47'05	-0°03'27	inferior conj	2269 Oct 26 03:39	2°♍51'21	-6°30'59
minimum elong	2267 Jun 07 19:06	16°♊49'17	0°03'24	minimum elong	2269 Oct 26 14:09	2°♍35'20	6°28'45
behind sun begin	2267 Jun 06 20:43	15°♊40'30		min. Earth dist.	2269 Oct 27 02:08	2°♍17'04	0.27337 AU
behind sun end	2267 Jun 08 17:29	17°♊58'04			2269 Oct 30 22:31	30°♊	
max. Earth dist.	2267 Jun 08 08:20	17°♊29'59	1.73501 AU	morning rise	2269 Oct 31 10:11	29°♊43'34	
asc. node	2267 Jun 09 04:45	18°♊32'41		direct	2269 Nov 16 00:55	24°♊56'33	
	2267 Jun 18 12:29	0°♊		asc. node	2269 Nov 23 23:40	26°♊09'51	
	2267 Jul 12 22:28	0°♊		greatest brilliancy	2269 Nov 27 04:34	27°♊17'02	-4.9m
evening rise	2267 Jul 14 00:27	1°♊19'49			2269 Dec 02 20:38	0°♍	
	2267 Aug 06 08:35	0°♊		morning max el	2270 Jan 05 19:53	28°♍23'58	46°57'09
	2267 Aug 30 19:39	0°♊			2270 Jan 07 09:25	0°♊	
	2267 Sep 24 08:58	0°♍			2270 Feb 03 19:24	0°♊	
desc. node	2267 Sep 28 18:03	5°♍19'59			2270 Mar 01 12:36	0°♊	
	2267 Oct 19 01:54	0°♊		desc. node	2270 Mar 15 13:10	16°♊42'53	
	2267 Nov 13 00:39	0°♊			2270 Mar 26 14:32	0°♊	
	2267 Dec 08 11:23	0°♊			2270 Apr 20 10:04	0°♍	
	2268 Jan 04 04:58	0°♊			2270 May 15 02:55	0°♊	
evening max el	2268 Jan 13 04:09	9°♊23'24	47°10'34		2270 Jun 08 18:19	0°♊	
asc. node	2268 Jan 19 21:17	16°♊04'38			2270 Jul 03 07:51	0°♊	
	2268 Feb 04 14:31	0°♍		asc. node	2270 Jul 06 16:30	4°♊06'49	
greatest brilliancy	2268 Feb 22 16:34	10°♍55'42	-4.9m	morning set	2270 Jul 08 18:54	6°♊41'07	
retrograde	2268 Mar 04 00:30	12°♍57'40			2270 Jul 27 18:37	0°♊	
evening set	2268 Mar 21 21:38	6°♍47'32		max. Earth dist.	2270 Aug 11 09:51	18°♊02'03	1.73196 AU
min. Earth dist.	2268 Mar 24 17:53	5°♍01'15	0.28008 AU				
inferior conj	2268 Mar 25 02:13	4°♍48'07	8°26'08	superior conj	2270 Aug 14 04:10	21°♊26'48	1°14'54

minimum elong	2270 Aug 13 20:45	21°Ω03'52	1°14'44	morning max el	2273 Mar 19 23:09	12°≈53'42	46°37'49
	2270 Aug 21 02:15	0°൬			2273 Apr 05 11:02	0°✠	
	2270 Sep 14 07:24	0°♎		desc. node	2273 Apr 12 01:03	7°✠08'54	
evening rise	2270 Sep 19 13:46	6°♎32'03			2273 May 02 10:17	0°Υ	
	2270 Oct 08 11:21	0°♎			2273 May 28 07:47	0°♠	
desc. node	2270 Oct 26 06:03	22°♎04'49			2273 Jun 22 16:59	0°Π	
	2270 Nov 01 15:11	0°♠			2273 Jul 17 17:52	0°☿	
	2270 Nov 25 19:42	0°☿		asc. node	2273 Aug 03 04:20	19°☿54'05	
	2270 Dec 20 02:16	0°≈			2273 Aug 11 11:13	0°Ω	
	2271 Jan 13 14:21	0°✠			2273 Sep 04 21:26	0°൬	
asc. node	2271 Feb 07 15:29	0°Υ		morning set	2273 Sep 15 01:09	12°൬34'08	
	2271 Feb 16 09:09	10°Υ11'51			2273 Sep 29 01:49	0°♎	
	2271 Mar 05 21:49	0°♠		max. Earth dist.	2273 Oct 19 14:24	25°♎37'20	1.71816 AU
evening max el	2271 Mar 25 16:00	20°♠44'15	46°09'35				
	2271 Apr 04 10:22	0°Π		superior conj	2273 Oct 22 13:04	29°♎18'18	1°05'30
greatest brilliancy	2271 May 03 02:55	19°Π46'29	-4.8m	minimum elong	2273 Oct 22 23:05	29°♎49'41	1°05'10
retrograde	2271 May 14 03:47	21°Π59'34			2273 Oct 23 02:23	0°♎	
evening set	2271 May 29 07:20	17°Π29'59			2273 Nov 16 01:05	0°♠	
inferior conj	2271 Jun 04 13:05	13°Π44'10	0°48'18	desc. node	2273 Nov 22 17:56	8°♠24'15	
minimum elong	2271 Jun 04 14:52	13°Π41'23	0°47'46	evening rise	2273 Dec 01 10:36	19°♠18'28	
min. Earth dist.	2271 Jun 04 11:19	13°Π46'57	0.28818 AU		2273 Dec 09 23:10	0°☿	
desc. node	2271 Jun 07 22:33	11°Π38'04			2274 Jan 02 21:34	0°≈	
morning rise	2271 Jun 10 22:46	9°Π53'51			2274 Jan 26 21:48	0°✠	
direct	2271 Jun 26 01:57	5°Π29'17			2274 Feb 20 02:46	0°Υ	
greatest brilliancy	2271 Jul 06 06:12	7°Π21'38	-4.7m	asc. node	2274 Mar 15 21:09	29°Υ00'43	
	2271 Aug 08 05:50	0°☿			2274 Mar 16 16:47	0°♠	
morning max el	2271 Aug 13 20:56	5°☿15'18	45°46'06		2274 Apr 10 22:16	0°Π	
	2271 Sep 06 23:21	0°Ω			2274 May 07 07:03	0°☿	
asc. node	2271 Sep 29 02:06	24°Ω47'15		evening max el	2274 Jun 04 04:14	29°☿00'07	45°25'10
	2271 Oct 03 14:05	0°൬			2274 Jun 05 05:16	0°Ω	
	2271 Oct 28 20:05	0°♎		desc. node	2274 Jul 05 10:29	23°Ω39'33	
	2271 Nov 22 08:31	0°♎		greatest brilliancy	2274 Jul 12 08:55	26°Ω47'46	-4.7m
	2271 Dec 16 11:51	0°♠		retrograde	2274 Jul 22 18:24	28°Ω44'30	
	2272 Jan 09 11:10	0°☿		evening set	2274 Aug 08 14:17	23°Ω25'41	
desc. node	2272 Jan 18 15:23	11°☿30'07		inferior conj	2274 Aug 13 06:01	20°Ω35'49	-7°31'56
	2272 Feb 02 09:22	0°≈		minimum elong	2274 Aug 12 21:24	20°Ω49'16	7°30'43
morning set	2272 Feb 14 09:27	15°≈02'43		min. Earth dist.	2274 Aug 13 09:27	20°Ω30'28	0.28920 AU
	2272 Feb 26 08:05	0°✠		morning rise	2274 Aug 17 04:18	18°Ω10'48	
	2272 Mar 21 08:36	0°Υ		direct	2274 Sep 03 19:57	12°Ω19'20	
				greatest brilliancy	2274 Sep 14 13:55	14°Ω24'19	-4.8m
superior conj	2272 Mar 25 19:17	5°Υ32'10	-1°22'28		2274 Oct 08 18:10	0°൬	
minimum elong	2272 Mar 26 01:24	5°Υ51'13	1°22'23	morning max el	2274 Oct 23 13:17	13°൬42'09	46°21'38
max. Earth dist.	2272 Mar 29 19:55	10°Υ32'48	1.72240 AU	asc. node	2274 Oct 26 13:54	16°൬44'20	
	2272 Apr 14 12:03	0°♠			2274 Nov 08 04:22	0°♎	
evening rise	2272 May 03 18:01	23°♠47'07			2274 Dec 04 14:34	0°♎	
	2272 May 08 19:07	0°Π			2274 Dec 29 16:26	0°♠	
asc. node	2272 May 10 18:58	2°Π27'12			2275 Jan 23 04:48	0°☿	
	2272 Jun 02 06:03	0°☿		desc. node	2275 Feb 15 03:21	28°☿20'07	
	2272 Jun 26 21:07	0°Ω			2275 Feb 16 11:38	0°≈	
	2272 Jul 21 17:27	0°൬			2275 Mar 12 16:44	0°✠	
	2272 Aug 15 21:40	0°♎			2275 Apr 05 22:08	0°Υ	
desc. node	2272 Aug 30 08:06	16°♎56'46		morning set	2275 Apr 29 02:54	28°Υ39'32	
	2272 Sep 10 14:35	0°♎			2275 Apr 30 05:00	0°♠	
	2272 Oct 07 06:36	0°♠			2275 May 24 13:33	0°Π	
evening max el	2272 Oct 29 13:09	23°♠22'49	46°58'42				
	2272 Nov 05 08:48	0°☿		superior conj	2275 Jun 05 11:51	14°Π40'18	-0°06'40
greatest brilliancy	2272 Dec 08 21:59	24°☿05'27	-4.9m	minimum elong	2275 Jun 05 13:16	14°Π44'38	0°06'36
retrograde	2272 Dec 18 23:01	25°☿59'39		behind sun begin	2275 Jun 04 16:16	13°Π40'05	
asc. node	2272 Dec 21 11:26	25°☿51'53		behind sun end	2275 Jun 06 10:16	15°Π49'10	
evening set	2273 Jan 02 13:34	21°☿44'32		max. Earth dist.	2275 Jun 06 03:10	15°Π27'21	1.73481 AU
inferior conj	2273 Jan 08 11:45	18°☿14'37	4°28'59	asc. node	2275 Jun 08 06:42	18°Π05'43	
minimum elong	2273 Jan 08 02:42	18°☿28'29	4°26'26		2275 Jun 17 23:13	0°☿	
min. Earth dist.	2273 Jan 07 21:12	18°☿36'55	0.26542 AU	evening rise	2275 Jul 11 19:25	29°☿17'35	
morning rise	2273 Jan 13 16:14	15°☿10'12			2275 Jul 12 09:14	0°Ω	
direct	2273 Jan 28 21:21	10°☿37'10			2275 Aug 05 19:31	0°൬	
greatest brilliancy	2273 Feb 07 07:37	12°☿18'40	-4.9m		2275 Aug 30 06:54	0°♎	
	2273 Mar 06 05:44	0°≈			2275 Sep 23 20:43	0°♎	

desc. node	2275 Sep 27 20:14	4°  50'35		desc. node	2278 Mar 14 15:17	16°  09'24	
	2275 Oct 18 14:22	0° 			2278 Mar 26 03:22	0° 	
	2275 Nov 12 14:13	0° 			2278 Apr 19 22:10	0° 	
	2275 Dec 08 02:51	0° 			2278 May 14 14:30	0° 	
	2276 Jan 04 00:47	0° 			2278 Jun 08 05:31	0° 	
evening max el	2276 Jan 10 18:02	6°  59'39	47°11'46		2278 Jul 02 18:50	0° 	
asc. node	2276 Jan 18 23:21	15°  08'06		asc. node	2278 Jul 05 18:32	3°  39'29	
	2276 Feb 05 07:23	0° 		morning set	2278 Jul 06 12:51	4°  35'32	
greatest brilliancy	2276 Feb 20 07:40	8°  35'45	-4.9m		2278 Jul 27 05:30	0° 	
retrograde	2276 Mar 01 15:37	10°  38'14		max. Earth dist.	2278 Aug 09 05:33	16°  01'07	1.73228 AU
evening set	2276 Mar 19 14:06	4° 					
inferior conj	2276 Mar 22 16:53	2°  28'59	8°32'16	superior conj	2278 Aug 11 22:15	19°  20'45	1°13'21
minimum elong	2276 Mar 22 21:48	2°  21'15	8°31'55	minimum elong	2278 Aug 11 14:30	18°  25'49	1°13'10
min. Earth dist.	2276 Mar 22 07:44	2°  43'22	0.27965 AU		2278 Aug 20 13:10	0° 	
morning rise	2276 Mar 26 05:41	0° 			2278 Sep 13 18:26	0° 	
	2276 Mar 26 17:31	30°  08'44		evening rise	2278 Sep 17 06:12	4°  19'47	
direct	2276 Apr 12 14:16	24°  08'44			2278 Oct 07 22:34	0° 	
greatest brilliancy	2276 Apr 21 23:20	26°  06'16	-4.8m	desc. node	2278 Oct 25 08:04	21°  35'45	
	2276 Apr 30 14:03	0° 			2278 Nov 01 02:38	0° 	
desc. node	2276 May 09 12:45	5°  49'02			2278 Nov 25 07:29	0° 	
morning max el	2276 May 31 17:13	24°  55'46	45°55'01		2278 Dec 19 14:31	0° 	
	2276 Jun 05 21:34	0° 			2279 Jan 13 03:19	0° 	
	2276 Jul 04 07:43	0° 			2279 Feb 07 05:45	0° 	
	2276 Jul 30 20:14	0° 		asc. node	2279 Feb 15 11:14	9°  34'39	
asc. node	2276 Aug 25 09:16	0° 			2279 Mar 05 15:00	0° 	
	2276 Aug 30 16:16	6°  19'22		evening max el	2279 Mar 23 08:03	18°  30'44	46°11'44
	2276 Sep 19 06:12	0° 			2279 Apr 04 14:01	0° 	
	2276 Oct 13 15:37	0° 		greatest brilliancy	2279 Apr 30 20:11	17°  36'32	-4.8m
	2276 Nov 06 17:36	0° 		retrograde	2279 May 11 20:09	19°  48'33	
morning set	2276 Nov 25 21:33	24°  01'43		evening set	2279 May 27 00:52	15°  17'46	
	2276 Nov 30 15:37	0° 		inferior conj	2279 Jun 02 05:18	11°  33'23	1°08'16
desc. node	2276 Dec 20 05:38	24°  38'03		minimum elong	2279 Jun 02 07:48	11°  29'27	1°07'32
	2276 Dec 24 11:59	0° 		min. Earth dist.	2279 Jun 02 03:38	11°  35'59	0.28798 AU
				desc. node	2279 Jun 07 00:31	8°  37'03	
superior conj	2277 Jan 06 00:17	15°  34'51	-0°38'49	morning rise	2279 Jun 08 15:08	7°  42'36	
minimum elong	2277 Jan 05 14:45	15°  14'53	0°38'24	direct	2279 Jun 23 18:13	3°  19'02	
max. Earth dist.	2277 Jan 06 23:30	16°  35'55	1.71088 AU	greatest brilliancy	2279 Jul 03 21:11	5°  10'13	-4.7m
	2277 Jan 17 08:11	0° 			2279 Aug 08 06:29	0° 	
	2277 Feb 10 05:28	0° 		morning max el	2279 Aug 11 12:06	3°  02'57	45°45'28
evening rise	2277 Feb 16 07:19	7°  36'46			2279 Sep 06 15:43	0° 	
	2277 Mar 06 05:29	0° 		asc. node	2279 Sep 28 04:09	24°  12'36	
	2277 Mar 30 10:11	0° 			2279 Oct 03 03:49	0° 	
asc. node	2277 Apr 12 09:07	15°  35'53			2279 Oct 28 08:39	0° 	
	2277 Apr 23 21:37	0° 			2279 Nov 21 20:29	0° 	
	2277 May 18 18:06	0° 			2279 Dec 15 23:28	0° 	
	2277 Jun 13 03:25	0° 			2280 Jan 08 22:35	0° 	
	2277 Jul 09 09:55	0° 		desc. node	2280 Jan 17 17:32	11°  30'120	
desc. node	2277 Aug 01 22:20	25°  19'37			2280 Feb 01 20:38	0° 	
	2277 Aug 06 12:12	0° 		morning set	2280 Feb 11 19:59	12°  30'18	
evening max el	2277 Aug 14 20:07	8°  11'50	45°50'12		2280 Feb 25 19:14	0° 	
	2277 Sep 10 04:19	0° 			2280 Mar 20 19:41	0° 	
greatest brilliancy	2277 Sep 23 17:37	6°  44'51	-4.8m				
retrograde	2277 Oct 02 20:59	8°  16'16		superior conj	2280 Mar 23 08:28	3°  09'20	-1°23'28
evening set	2277 Oct 19 10:10	3°  03'34		minimum elong	2280 Mar 23 13:50	3°  26'01	1°23'24
inferior conj	2277 Oct 23 17:12	0°  29'37	-6°45'35	max. Earth dist.	2280 Mar 27 12:15	8°  19'51	1.72187 AU
minimum elong	2277 Oct 24 03:36	0°  13'43	6°43'30		2280 Apr 13 23:05	0° 	
min. Earth dist.	2277 Oct 24 15:28	29°  55'38	0.27404 AU	evening rise	2280 May 01 09:25	21°  32'29	
	2277 Oct 24 12:36	30°  08'44			2280 May 08 06:12	0° 	
morning rise	2277 Oct 28 20:35	27°  26'09		asc. node	2280 May 09 20:54	1°  59'03	
direct	2277 Nov 13 15:48	22°  34'03			2280 Jun 01 17:17	0° 	
asc. node	2277 Nov 23 01:32	24°  15'37			2280 Jun 26 08:39	0° 	
greatest brilliancy	2277 Nov 24 18:25	24°  53'43	-4.9m		2280 Jul 21 05:31	0° 	
	2277 Dec 04 10:06	0° 			2280 Aug 15 10:38	0° 	
morning max el	2278 Jan 03 10:50	26°  02'24	46°56'35	desc. node	2280 Aug 29 10:15	16°  22'51	
	2278 Jan 07 06:59	0° 			2280 Sep 10 05:12	0° 	
	2278 Feb 03 11:32	0° 			2280 Oct 07 00:31	0° 	
	2278 Mar 01 02:35	0° 		evening max el	2280 Oct 27 02:07	20°  56'45	46°56'45

	2280 Nov 05 12:36	0°♁		superior conj	2283 Jun 03 05:25	12°♊33'36	-0°09'52
greatest brilliancy	2280 Dec 06 12:10	21°♁37'44	-4.9m	minimum elong	2283 Jun 03 07:31	12°♊40'02	0°09'46
retrograde	2280 Dec 16 11:00	23°♁30'04		behind sun begin	2283 Jun 02 13:14	11°♊43'51	
asc. node	2280 Dec 20 13:31	23°♁09'24		behind sun end	2283 Jun 04 01:47	13°♊36'12	
evening set	2280 Dec 31 00:06	19°♁18'16		max. Earth dist.	2283 Jun 03 23:37	13°♊29'34	1.73463 AU
min. Earth dist.	2281 Jan 05 11:12	16°♁06'04	0.26512 AU	asc. node	2283 Jun 07 08:48	17°♊39'00	
inferior conj	2281 Jan 06 00:11	15°♁46'09	4°07'39		2283 Jun 17 10:00	0°♄	
minimum elong	2281 Jan 05 15:40	15°♁59'14	4°05'11	evening rise	2283 Jul 09 14:26	27°♄15'16	
morning rise	2281 Jan 11 07:29	12°♁37'42			2283 Jul 11 20:06	0°♁	
direct	2281 Jan 26 09:07	8°♁08'56			2283 Aug 05 06:36	0°♄	
greatest brilliancy	2281 Feb 04 21:52	9°♁52'12	-4.9m		2283 Aug 29 18:19	0°♄	
	2281 Mar 06 12:06	0°♄			2283 Sep 23 08:39	0°♄	
morning max el	2281 Mar 17 11:01	10°♄26'02	46°39'18	desc. node	2283 Sep 26 22:10	4°♄19'56	
	2281 Apr 05 05:16	0°♄			2283 Oct 18 03:01	0°♄	
desc. node	2281 Apr 11 03:07	6°♄27'27			2283 Nov 12 03:58	0°♁	
	2281 May 02 00:57	0°♄			2283 Dec 07 18:34	0°♄	
	2281 May 27 20:48	0°♄			2284 Jan 03 21:14	0°♄	
	2281 Jun 22 05:05	0°♊		evening max el	2284 Jan 08 08:48	4°♄38'12	47°12'58
	2281 Jul 17 05:25	0°♄		asc. node	2284 Jan 18 01:29	14°♄10'33	
asc. node	2281 Aug 02 06:29	19°♄26'16			2284 Feb 06 06:08	0°♄	
	2281 Aug 10 22:26	0°♁		greatest brilliancy	2284 Feb 17 22:20	6°♄15'14	-4.9m
	2281 Sep 04 08:29	0°♄		retrograde	2284 Feb 28 07:16	8°♄18'37	
morning set	2281 Sep 12 17:29	10°♄21'47		evening set	2284 Mar 17 06:18	2°♄03'28	
	2281 Sep 28 12:49	0°♄		inferior conj	2284 Mar 20 07:30	0°♄09'38	8°37'41
max. Earth dist.	2281 Oct 17 04:09	23°♄15'42	1.71867 AU	minimum elong	2284 Mar 20 11:41	0°♄03'05	8°37'26
				min. Earth dist.	2284 Mar 19 21:13	0°♄25'46	0.27920 AU
superior conj	2281 Oct 20 03:17	26°♄58'07	1°07'42		2284 Mar 20 13:39	30°♄♄	
minimum elong	2281 Oct 20 13:05	27°♄28'45	1°07'25	morning rise	2284 Mar 23 17:15	28°♄03'14	
	2281 Oct 22 13:27	0°♄		direct	2284 Apr 10 04:27	22°♄10'08	
	2281 Nov 15 12:16	0°♄		greatest brilliancy	2284 Apr 19 12:10	23°♄47'02	-4.8m
desc. node	2281 Nov 21 19:54	7°♄55'17			2284 May 01 23:46	0°♄	
evening rise	2281 Nov 28 21:54	16°♄48'10		desc. node	2284 May 08 14:41	4°♄37'49	
	2281 Dec 09 10:29	0°♁		morning max el	2284 May 29 08:58	22°♄43'16	45°56'14
	2282 Jan 02 09:00	0°♄			2284 Jun 05 18:11	0°♄	
	2282 Jan 26 09:24	0°♄			2284 Jul 03 22:54	0°♊	
	2282 Feb 19 14:38	0°♄			2284 Jul 30 09:17	0°♄	
asc. node	2282 Mar 14 23:13	28°♄29'33			2284 Aug 24 21:17	0°♁	
	2282 Mar 16 05:11	0°♄		asc. node	2284 Aug 29 18:18	5°♁49'50	
	2282 Apr 10 11:46	0°♊			2284 Sep 18 17:42	0°♄	
	2282 May 06 22:58	0°♄			2284 Oct 13 02:51	0°♄	
evening max el	2282 Jun 01 19:02	26°♄46'33	45°25'34		2284 Nov 06 04:44	0°♄	
	2282 Jun 05 04:37	0°♁		morning set	2284 Nov 23 09:47	21°♄34'42	
desc. node	2282 Jul 04 12:37	22°♁13'40			2284 Nov 30 02:40	0°♄	
greatest brilliancy	2282 Jul 09 23:05	24°♁35'37	-4.7m	desc. node	2284 Dec 19 07:46	24°♄10'03	
retrograde	2282 Jul 20 10:20	26°♁34'10			2284 Dec 23 23:01	0°♁	
evening set	2282 Aug 06 02:51	21°♁19'20					
inferior conj	2282 Aug 10 21:58	18°♁24'48	-7°21'33	superior conj	2285 Jan 03 09:52	13°♁09'12	-0°35'10
minimum elong	2282 Aug 10 12:58	18°♁38'49	7°20'11	minimum elong	2285 Jan 03 01:04	12°♁41'33	0°34'46
min. Earth dist.	2282 Aug 11 00:44	18°♁20'29	0.28944 AU	max. Earth dist.	2285 Jan 04 08:31	14°♁20'28	1.71082 AU
morning rise	2282 Aug 14 22:52	15°♁56'03			2285 Jan 16 19:13	0°♄	
direct	2282 Sep 01 11:45	10°♁07'52			2285 Feb 09 16:32	0°♄	
greatest brilliancy	2282 Sep 12 06:03	12°♁13'05	-4.8m	evening rise	2285 Feb 13 17:48	5°♄04'42	
	2282 Oct 08 23:48	0°♄			2285 Mar 05 16:36	0°♄	
morning max el	2282 Oct 21 04:36	11°♄26'16	46°20'08		2285 Mar 29 21:24	0°♄	
asc. node	2282 Oct 25 15:52	15°♄56'18		asc. node	2285 Apr 11 11:04	15°♄27'08	
	2282 Nov 07 22:00	0°♄			2285 Apr 23 09:05	0°♊	
	2282 Dec 04 05:03	0°♄			2285 May 18 06:04	0°♄	
	2282 Dec 29 05:33	0°♄			2285 Jun 12 16:24	0°♁	
	2283 Jan 22 17:09	0°♁			2285 Jul 09 01:01	0°♄	
desc. node	2283 Feb 14 05:25	27°♁49'44		desc. node	2285 Aug 01 00:26	24°♄35'46	
	2283 Feb 15 23:29	0°♄			2285 Aug 06 08:45	0°♄	
	2283 Mar 12 04:12	0°♄		evening max el	2285 Aug 12 10:50	5°♄56'44	45°48'06
	2283 Apr 05 09:19	0°♄			2285 Sep 11 12:59	0°♄	
morning set	2283 Apr 26 18:48	26°♄26'36		greatest brilliancy	2285 Sep 21 06:09	4°♄24'00	-4.8m
	2283 Apr 29 15:58	0°♄		retrograde	2285 Sep 30 09:51	5°♄55'11	
	2283 May 24 00:23	0°♊		evening set	2285 Oct 17 02:37	0°♄37'57	
					2285 Oct 18 04:36	30°♄♄	

inferior conj	2285 Oct 21 06:38	28° Ω 07'56	-6°59'29			2288 Apr 13 09:48	0° \mathcal{B}	
minimum elong	2285 Oct 21 16:50	27° Ω 52'17	6°57'33	evening rise		2288 Apr 29 00:33	19° \mathcal{B} 18'04	
min. Earth dist.	2285 Oct 22 04:54	27° Ω 33'50	0.27473 AU			2288 May 07 16:57	0° Π	
morning rise	2285 Oct 26 06:39	25° Ω 08'48		asc. node		2288 May 08 23:02	1° Π 32'30	
direct	2285 Nov 11 06:23	20° Ω 11'30				2288 Jun 01 04:11	0° \mathcal{E}	
asc. node	2285 Nov 22 03:40	22° Ω 25'41				2288 Jun 25 19:51	0° Ω	
greatest brilliancy	2285 Nov 22 08:25	22° Ω 30'22	-4.9m			2288 Jul 20 17:14	0° \mathcal{M}	
	2285 Dec 05 12:34	0° \mathcal{M}				2288 Aug 14 23:17	0° Ω	
morning max el	2286 Jan 01 00:53	23° \mathcal{M} 38'36	46°56'05	desc. node		2288 Aug 28 12:15	15° Ω 49'38	
	2286 Jan 07 03:47	0° \mathcal{A}				2288 Sep 09 19:30	0° \mathcal{M}	
	2286 Feb 03 03:17	0° \mathcal{Z}				2288 Oct 06 18:21	0° \mathcal{A}	
	2286 Feb 28 16:14	0° \approx		evening max el		2288 Oct 24 14:26	18° \mathcal{A} 30'39	46°54'39
desc. node	2286 Mar 13 17:18	15° \approx 36'31				2288 Nov 05 17:40	0° \mathcal{Z}	
	2286 Mar 25 15:53	0° \mathcal{H}		greatest brilliancy		2288 Dec 04 01:57	19° \mathcal{Z} 10'25	-4.9m
	2286 Apr 19 09:57	0° Υ		retrograde		2288 Dec 13 22:55	21° \mathcal{Z} 01'25	
	2286 May 14 01:48	0° \mathcal{B}		asc. node		2288 Dec 19 15:39	20° \mathcal{Z} 21'29	
	2286 Jun 07 16:28	0° Π		evening set		2288 Dec 28 10:43	16° \mathcal{Z} 52'02	
	2286 Jul 02 05:33	0° \mathcal{E}		min. Earth dist.		2289 Jan 03 01:08	13° \mathcal{Z} 35'38	0.26494 AU
morning set	2286 Jul 04 07:06	2° \mathcal{E} 31'41		inferior conj		2289 Jan 03 12:30	13° \mathcal{Z} 18'14	3°45'36
asc. node	2286 Jul 04 20:43	3° \mathcal{E} 13'21		minimum elong		2289 Jan 03 04:34	13° \mathcal{Z} 30'22	3°43'15
	2286 Jul 26 16:08	0° Ω		morning rise		2289 Jan 08 22:34	10° \mathcal{Z} 06'00	
max. Earth dist.	2286 Aug 07 00:32	13° Ω 58'57	1.73260 AU	direct		2289 Jan 23 20:43	5° \mathcal{Z} 40'50	
				greatest brilliancy		2289 Feb 02 12:21	7° \mathcal{Z} 26'24	-4.9m
superior conj	2286 Aug 09 16:41	17° Ω 16'47	1°11'43			2289 Mar 06 16:17	0° \approx	
minimum elong	2286 Aug 09 08:39	16° Ω 52'01	1°11'31	morning max el		2289 Mar 14 23:47	8° \approx 00'55	46°40'49
	2286 Aug 19 23:49	0° \mathcal{M}				2289 Apr 04 22:52	0° \mathcal{H}	
	2286 Sep 13 05:13	0° Ω		desc. node		2289 Apr 10 05:06	5° \mathcal{H} 46'52	
evening rise	2286 Sep 14 22:57	2° Ω 09'23				2289 May 01 15:12	0° Υ	
	2286 Oct 07 09:33	0° \mathcal{M}				2289 May 27 09:26	0° \mathcal{B}	
desc. node	2286 Oct 24 10:05	21° \mathcal{M} 07'16				2289 Jun 21 16:47	0° Π	
	2286 Oct 31 13:55	0° \mathcal{A}				2289 Jul 16 16:35	0° \mathcal{E}	
	2286 Nov 24 19:09	0° \mathcal{Z}		asc. node		2289 Aug 01 08:26	18° \mathcal{E} 59'01	
	2286 Dec 19 02:39	0° \approx				2289 Aug 10 09:17	0° Ω	
	2287 Jan 12 16:10	0° \mathcal{H}				2289 Sep 03 19:09	0° \mathcal{M}	
	2287 Feb 06 19:55	0° Υ		morning set		2289 Sep 10 10:13	8° \mathcal{M} 11'54	
asc. node	2287 Feb 14 13:16	8° Υ 57'44				2289 Sep 27 23:27	0° Ω	
	2287 Mar 05 08:15	0° \mathcal{B}		max. Earth dist.		2289 Oct 14 19:47	21° Ω 01'11	1.71914 AU
evening max el	2287 Mar 20 23:13	16° \mathcal{B} 15'46	46°14'03					
	2287 Apr 04 19:00	0° Π		superior conj		2289 Oct 17 18:04	24° Ω 40'51	1°09'46
greatest brilliancy	2287 Apr 28 13:58	15° Π 28'17	-4.8m	minimum elong		2289 Oct 18 03:35	25° Ω 10'35	1°09'30
retrograde	2287 May 09 12:15	17° Π 38'56				2289 Oct 22 00:08	0° \mathcal{M}	
evening set	2287 May 24 18:39	13° Π 06'37				2289 Nov 14 23:04	0° \mathcal{A}	
inferior conj	2287 May 30 21:39	9° Π 24'01	1°28'09	desc. node		2289 Nov 20 22:04	7° \mathcal{A} 28'12	
minimum elong	2287 May 31 00:51	9° Π 18'59	1°27'13	evening rise		2289 Nov 26 09:45	14° \mathcal{A} 20'53	
min. Earth dist.	2287 May 30 20:24	9° Π 26'00	0.28776 AU			2289 Dec 08 21:25	0° \mathcal{Z}	
morning rise	2287 Jun 06 07:26	5° Π 32'54				2290 Jan 01 20:05	0° \approx	
desc. node	2287 Jun 06 02:44	5° Π 39'22				2290 Jan 25 20:43	0° \mathcal{H}	
direct	2287 Jun 21 10:06	1° Π 10'05				2290 Feb 19 02:17	0° Υ	
greatest brilliancy	2287 Jul 01 12:46	3° Π 00'37	-4.7m	asc. node		2290 Mar 14 01:11	27° Υ 58'41	
	2287 Aug 08 05:31	0° \mathcal{E}				2290 Mar 15 17:26	0° \mathcal{B}	
morning max el	2287 Aug 09 02:56	0° \mathcal{E} 50'58	45°45'01			2290 Apr 10 01:08	0° Π	
	2287 Sep 06 07:22	0° Ω				2290 May 06 14:53	0° \mathcal{E}	
asc. node	2287 Sep 27 06:09	23° Ω 39'12		evening max el		2290 May 30 10:43	24° \mathcal{E} 36'06	45°26'17
	2287 Oct 02 17:03	0° \mathcal{M}				2290 Jun 05 04:40	0° Ω	
	2287 Oct 27 20:48	0° Ω		desc. node		2290 Jul 03 14:39	20° Ω 46'03	
	2287 Nov 21 08:06	0° \mathcal{M}		greatest brilliancy		2290 Jul 07 12:58	22° Ω 24'28	-4.7m
	2287 Dec 15 10:49	0° \mathcal{A}		retrograde		2290 Jul 18 02:43	24° Ω 25'12	
	2288 Jan 08 09:46	0° \mathcal{Z}		evening set		2290 Aug 03 15:40	19° Ω 14'14	
desc. node	2288 Jan 16 19:38	10° \mathcal{Z} 32'59		inferior conj		2290 Aug 08 14:00	16° Ω 15'06	-7°10'41
	2288 Feb 01 07:41	0° \approx		minimum elong		2290 Aug 08 04:43	16° Ω 29'33	7°09'10
morning set	2288 Feb 09 05:54	9° \approx 56'28		min. Earth dist.		2290 Aug 08 15:49	16° Ω 12'16	0.28962 AU
	2288 Feb 25 06:10	0° \mathcal{H}		morning rise		2290 Aug 12 17:35	13° Ω 42'34	
	2288 Mar 20 06:28	0° Υ		direct		2290 Aug 30 04:08	7° Ω 57'50	
				greatest brilliancy		2290 Sep 09 21:42	10° Ω 02'40	-4.8m
superior conj	2288 Mar 20 21:14	0° Υ 46'00	-1°24'20			2290 Oct 09 03:05	0° \mathcal{M}	
minimum elong	2288 Mar 21 01:46	1° Υ 00'05	1°24'17	morning max el		2290 Oct 18 20:56	9° \mathcal{M} 14'18	46°18'40
max. Earth dist.	2288 Mar 25 02:09	6° Υ 00'14	1.72127 AU	asc. node		2290 Oct 24 17:57	15° \mathcal{M} 10'27	

	2290 Nov 07 14:53	0°♌		2293 Apr 22 20:28	0°♊
	2290 Dec 03 19:00	0°♍		2293 May 17 18:02	0°♎
	2290 Dec 28 18:13	0°♈		2293 Jun 12 05:28	0°♏
	2291 Jan 22 05:06	0°♎		2293 Jul 08 16:20	0°♍
desc. node	2291 Feb 13 07:23	27°♎20'12	desc. node	2293 Jul 31 02:25	23°♍51'10
	2291 Feb 15 10:58	0°♏		2293 Aug 06 06:01	0°♌
	2291 Mar 11 15:22	0°♈	evening max el	2293 Aug 10 01:08	3°♌40'46 45°46'11
	2291 Apr 04 20:16	0°♍		2293 Sep 13 13:09	0°♍
morning set	2291 Apr 24 10:20	24°♍13'01	greatest brilliancy	2293 Sep 18 19:25	2°♍04'42 -4.8m
	2291 Apr 29 02:44	0°♈	retrograde	2293 Sep 27 22:27	3°♍35'15
	2291 May 23 11:01	0°♊		2293 Oct 11 13:02	30°♌♌
			evening set	2293 Oct 14 19:17	28°♌13'32
superior conj	2291 May 31 22:35	10°♊26'09 -0°13'07	inferior conj	2293 Oct 18 20:23	25°♌47'28 -7°12'30
minimum elong	2291 Jun 01 01:21	10°♊34'41 0°12'58	minimum elong	2293 Oct 19 06:19	25°♌32'12 7°10'43
behind sun begin	2291 May 31 11:56	9°♊53'25	min. Earth dist.	2293 Oct 19 18:51	25°♌12'58 0.27541 AU
behind sun end	2291 Jun 01 14:46	11°♊15'58	morning rise	2293 Oct 23 16:55	22°♌52'44
max. Earth dist.	2291 Jun 01 20:49	11°♊34'32 1.73441 AU	direct	2293 Nov 08 20:45	17°♌50'04
asc. node	2291 Jun 06 10:55	17°♊12'58	greatest brilliancy	2293 Nov 19 23:09	20°♌08'41 -4.9m
	2291 Jun 16 20:35	0°♎	asc. node	2293 Nov 21 05:49	20°♌40'39
evening rise	2291 Jul 07 09:14	25°♎13'00		2293 Dec 06 07:45	0°♍
	2291 Jul 11 06:44	0°♏	morning max el	2293 Dec 29 14:15	21°♍13'15 46°55'28
	2291 Aug 04 17:26	0°♍		2294 Jan 06 23:52	0°♈
	2291 Aug 29 05:32	0°♌		2294 Feb 02 18:47	0°♎
	2291 Sep 22 20:22	0°♍		2294 Feb 28 05:47	0°♏
desc. node	2291 Sep 26 00:13	3°♍50'17	desc. node	2294 Mar 12 19:19	15°♏03'46
	2291 Oct 17 15:30	0°♈		2294 Mar 25 04:21	0°♈
	2291 Nov 11 17:34	0°♎		2294 Apr 18 21:43	0°♍
	2291 Dec 07 10:14	0°♏		2294 May 13 13:05	0°♈
	2292 Jan 03 18:00	0°♈		2294 Jun 07 03:26	0°♊
evening max el	2292 Jan 06 00:32	2°♈20'06 47°14'01		2294 Jul 01 16:21	0°♎
asc. node	2292 Jan 17 03:27	13°♈12'23	morning set	2294 Jul 02 01:15	0°♎27'17
	2292 Feb 07 13:06	0°♍	asc. node	2294 Jul 03 22:40	2°♎46'20
greatest brilliancy	2292 Feb 15 12:53	3°♍55'27 -4.9m		2294 Jul 26 02:52	0°♏
retrograde	2292 Feb 25 22:56	5°♍59'30	max. Earth dist.	2294 Aug 04 18:24	11°♏53'01 1.73293 AU
	2292 Mar 14 10:51	30°♌♌			
evening set	2292 Mar 14 22:12	29°♈42'45	superior conj	2294 Aug 07 11:01	15°♏12'14 1°09'59
inferior conj	2292 Mar 17 22:08	27°♈50'52 8°42'12	minimum elong	2294 Aug 07 02:45	14°♏46'43 1°09'45
minimum elong	2292 Mar 18 01:32	27°♈45'31 8°42'02		2294 Aug 19 10:34	0°♍
min. Earth dist.	2292 Mar 17 10:35	28°♈08'58 0.27876 AU	evening rise	2294 Sep 12 15:38	29°♍58'37
morning rise	2292 Mar 21 05:05	25°♈48'50		2294 Sep 12 16:05	0°♌
direct	2292 Apr 07 19:04	19°♈52'15		2294 Oct 06 20:38	0°♍
greatest brilliancy	2292 Apr 17 00:42	21°♈27'52 -4.8m	desc. node	2294 Oct 23 12:13	20°♍38'50
	2292 May 02 23:33	0°♍		2294 Oct 31 01:18	0°♈
desc. node	2292 May 07 16:54	3°♍29'34		2294 Nov 24 06:56	0°♎
morning max el	2292 May 27 00:41	20°♍30'53 45°57'19		2294 Dec 18 14:58	0°♏
	2292 Jun 05 14:00	0°♈		2295 Jan 12 05:15	0°♈
	2292 Jul 03 13:47	0°♊		2295 Feb 06 10:24	0°♍
	2292 Jul 29 22:09	0°♎	asc. node	2295 Feb 13 15:18	8°♍20'01
	2292 Aug 24 09:07	0°♏		2295 Mar 05 02:03	0°♈
asc. node	2292 Aug 28 20:19	5°♏20'45	evening max el	2295 Mar 18 13:35	13°♈58'13 46°16'27
	2292 Sep 18 05:00	0°♍		2295 Apr 05 02:25	0°♊
	2292 Oct 12 13:55	0°♌	greatest brilliancy	2295 Apr 26 07:37	13°♊19'17 -4.8m
	2292 Nov 05 15:41	0°♍	retrograde	2295 May 07 04:15	15°♊28'58
morning set	2292 Nov 20 22:14	19°♍08'51	evening set	2295 May 22 12:30	10°♊54'35
	2292 Nov 29 13:37	0°♈	inferior conj	2295 May 28 14:01	7°♊14'14 1°47'54
desc. node	2292 Dec 18 09:50	23°♈42'09	minimum elong	2295 May 28 17:54	7°♊08'06 1°46'45
	2292 Dec 23 09:57	0°♎	min. Earth dist.	2295 May 28 13:21	7°♊15'17 0.28756 AU
			morning rise	2295 Jun 03 23:35	3°♊23'03
superior conj	2292 Dec 31 19:45	10°♎34'53 -0°31'28	desc. node	2295 Jun 05 04:41	2°♊44'20
minimum elong	2292 Dec 31 11:46	10°♎09'44 0°31'05		2295 Jun 11 23:15	30°♌♌
max. Earth dist.	2293 Jan 01 15:55	11°♎38'19 1.71075 AU	direct	2295 Jun 19 01:33	29°♌00'29
	2293 Jan 16 06:09	0°♏		2295 Jun 26 10:04	0°♊
	2293 Feb 09 03:29	0°♈	greatest brilliancy	2295 Jun 29 04:50	0°♊51'06 -4.7m
evening rise	2293 Feb 11 04:29	2°♈33'32	morning max el	2295 Aug 06 17:52	28°♊38'32 45°44'34
	2293 Mar 05 03:35	0°♍		2295 Aug 08 03:51	0°♎
	2293 Mar 29 08:31	0°♈		2295 Sep 05 23:02	0°♏
asc. node	2293 Apr 10 13:13	14°♈59'17	asc. node	2295 Sep 26 08:16	23°♏05'34

	2295 Oct 02 06:26	0°♎			2298 Jun 05 06:30	0°♏
	2295 Oct 27 09:08	0°♏		desc. node	2298 Jul 02 16:39	19°♏14'20
	2295 Nov 20 19:54	0°♎		greatest brilliancy	2298 Jul 05 03:03	20°♏12'35 -4.7m
	2295 Dec 14 22:20	0°♏		retrograde	2298 Jul 15 19:08	22°♏15'05
	2296 Jan 07 21:07	0°♏		evening set	2298 Aug 01 04:36	17°♏08'15
desc. node	2296 Jan 15 21:33	10°♏03'35		inferior conj	2298 Aug 06 06:02	14°♏04'25 -6°59'08
	2296 Jan 31 18:56	0°♏		minimum elong	2298 Aug 05 20:32	14°♏19'14 6°57'30
morning set	2296 Feb 06 15:39	7°♏21'27		min. Earth dist.	2298 Aug 06 06:46	14°♏03'17 0.28976 AU
	2296 Feb 24 17:18	0°♏		morning rise	2298 Aug 10 12:20	11°♏28'00
				direct	2298 Aug 27 20:54	5°♏47'07
superior conj	2296 Mar 18 09:54	28°♏21'29 -1°25'02		greatest brilliancy	2298 Sep 07 12:42	7°♏50'44 -4.8m
minimum elong	2296 Mar 18 13:32	28°♏32'49 1°25'01			2298 Oct 09 05:15	0°♎
	2296 Mar 19 17:31	0°♎		morning max el	2298 Oct 16 13:05	7°♎01'05 46°16'59
max. Earth dist.	2296 Mar 22 12:50	3°♎29'40 1.72069 AU		asc. node	2298 Oct 23 20:05	14°♎24'23
	2296 Apr 12 20:48	0°♏			2298 Nov 07 07:51	0°♏
evening rise	2296 Apr 26 15:35	17°♏02'25			2298 Dec 03 09:16	0°♎
	2296 May 07 03:58	0°♏			2298 Dec 28 07:16	0°♏
asc. node	2296 May 08 01:08	1°♏05'04			2299 Jan 21 17:27	0°♏
	2296 May 31 15:20	0°♏		desc. node	2299 Feb 12 09:32	26°♏49'52
	2296 Jun 25 07:18	0°♏			2299 Feb 14 22:51	0°♏
	2296 Jul 20 05:16	0°♎			2299 Mar 11 02:55	0°♏
	2296 Aug 14 12:20	0°♏			2299 Apr 04 07:34	0°♎
desc. node	2296 Aug 27 14:16	15°♏15'15		morning set	2299 Apr 22 01:36	21°♎57'31
	2296 Sep 09 10:24	0°♎			2299 Apr 28 13:52	0°♏
	2296 Oct 06 13:05	0°♏			2299 May 22 22:01	0°♏
evening max el	2296 Oct 22 03:07	16°♏04'29 46°52'40				
	2296 Nov 06 01:26	0°♏		superior conj	2299 May 29 15:33	8°♏16'56 -0°16'21
greatest brilliancy	2296 Dec 01 15:13	16°♏41'28 -4.9m		minimum elong	2299 May 29 19:01	8°♏27'34 0°16'10
retrograde	2296 Dec 11 11:15	18°♏31'51		max. Earth dist.	2299 May 30 19:05	9°♏41'37 1.73418 AU
asc. node	2296 Dec 18 17:35	17°♏26'44		asc. node	2299 Jun 05 12:51	16°♏45'13
evening set	2296 Dec 25 21:31	14°♏24'14			2299 Jun 16 07:33	0°♏
min. Earth dist.	2296 Dec 31 14:44	11°♏04'25 0.26478 AU		evening rise	2299 Jul 05 03:59	23°♏09'23
inferior conj	2297 Jan 01 00:45	10°♏49'08 3°22'59			2299 Jul 10 17:46	0°♏
minimum elong	2296 Dec 31 17:28	11°♏00'14 3°20'47			2299 Aug 04 04:39	0°♎
morning rise	2297 Jan 06 13:30	7°♏33'33			2299 Aug 28 17:05	0°♏
direct	2297 Jan 21 08:39	3°♏11'30			2299 Sep 22 08:27	0°♎
greatest brilliancy	2297 Jan 31 02:27	4°♏59'15 -4.9m		desc. node	2299 Sep 25 02:22	3°♎19'55
	2297 Mar 06 19:12	0°♏			2299 Oct 17 04:21	0°♏
morning max el	2297 Mar 12 13:27	5°♏37'05 46°42'10			2299 Nov 11 07:41	0°♏
	2297 Apr 04 16:26	0°♏			2299 Dec 07 02:37	0°♏
desc. node	2297 Apr 09 07:15	5°♏06'16		evening max el	2300 Jan 03 16:21	0°♏00'31 47°14'49
	2297 May 01 05:39	0°♎			2300 Jan 03 16:09	0°♏
	2297 May 26 22:21	0°♏		asc. node	2300 Jan 16 05:31	12°♏11'26
	2297 Jun 21 04:49	0°♏			2300 Feb 09 12:46	0°♎
asc. node	2297 Jul 16 04:03	0°♏		greatest brilliancy	2300 Feb 13 03:39	1°♎33'49 -4.9m
	2297 Jul 31 10:31	18°♏31'08		retrograde	2300 Feb 23 14:01	3°♎37'46
	2297 Aug 09 20:26	0°♏			2300 Mar 08 21:49	30°♏♏
	2297 Sep 03 06:10	0°♎		evening set	2300 Mar 13 13:28	27°♏20'23
morning set	2297 Sep 08 03:00	6°♎01'10		min. Earth dist.	2300 Mar 15 23:49	25°♏49'39 0.27825 AU
	2297 Sep 27 10:27	0°♏		inferior conj	2300 Mar 16 12:27	25°♏29'49 8°45'51
max. Earth dist.	2297 Oct 12 11:03	18°♏44'21 1.71965 AU		minimum elong	2300 Mar 16 15:03	25°♏25'44 8°45'46
				morning rise	2300 Mar 19 16:52	23°♏31'37
superior conj	2297 Oct 15 08:46	22°♏22'08 1°11'44		direct	2300 Apr 06 09:22	17°♏32'22
minimum elong	2297 Oct 15 17:54	22°♏50'42 1°11'29		greatest brilliancy	2300 Apr 15 13:00	19°♏06'32 -4.8m
	2297 Oct 21 11:14	0°♎			2300 May 04 17:50	0°♎
	2297 Nov 14 10:17	0°♏		desc. node	2300 May 07 18:55	2°♎21'32
desc. node	2297 Nov 20 00:05	6°♏59'17		morning max el	2300 May 25 15:21	18°♎14'46 45°58'25
evening rise	2297 Nov 23 21:20	11°♏51'28			2300 Jun 06 09:39	0°♏
	2297 Dec 08 08:46	0°♏			2300 Jul 04 04:48	0°♏
	2298 Jan 01 07:35	0°♏			2300 Jul 30 11:14	0°♏
	2298 Jan 25 08:25	0°♏			2300 Aug 24 21:13	0°♏
	2298 Feb 18 14:20	0°♎		asc. node	2300 Aug 28 22:25	4°♏51'09
asc. node	2298 Mar 13 03:18	27°♎27'03			2300 Sep 18 16:35	0°♎
	2298 Mar 15 06:07	0°♏			2300 Oct 13 01:13	0°♏
	2298 Apr 09 15:01	0°♏			2300 Nov 06 02:52	0°♎
	2298 May 06 07:31	0°♏			2300 Nov 19 11:00	16°♎43'17
evening max el	2298 May 28 03:13	22°♏26'24 45°27'02		morning set	2300 Nov 30 00:45	0°♏

desc. node	2300 Dec 18 11:48	23° ♁ 13'12	minimum elong	2303 May 27 10:51	4° ♁ 56'47	2°06'13
	2300 Dec 23 21:07	0° ♁	min. Earth dist.	2303 May 27 06:07	5° ♁ 04'14	0.28738 AU
			morning rise	2303 Jun 02 15:31	1° ♁ 13'10	
superior conj	2300 Dec 30 05:43	8° ♁ 00'03 -0°27'41	desc. node	2303 Jun 05 06:40	29° ♁ 52'06	
minimum elong	2300 Dec 29 22:36	7° ♁ 37'39 0°27'22		2303 Jun 05 00:05	30° ♁ 8	
max. Earth dist.	2300 Dec 30 20:47	8° ♁ 47'26 1.71075 AU	direct	2303 Jun 17 16:49	26° ♁ 50'18	
	2301 Jan 16 17:21	0° ♁	greatest brilliancy	2303 Jun 27 21:04	28° ♁ 41'33	-4.7m
evening rise	2301 Feb 09 14:44	0° ♁ 00'02		2303 Jul 01 04:20	0° ♁	
	2301 Feb 09 14:44	0° ♁	morning max el	2303 Aug 05 09:23	26° ♁ 27'35	45°44'13
	2301 Mar 05 14:53	0° ♁		2303 Aug 09 01:19	0° ♁	
	2301 Mar 29 19:55	0° ♁		2303 Sep 06 14:24	0° ♁	
asc. node	2301 Apr 10 15:15	14° ♁ 30'11	asc. node	2303 Sep 26 10:18	22° ♁ 32'13	
	2301 Apr 23 08:10	0° ♁		2303 Oct 02 19:38	0° ♁	
	2301 May 18 06:19	0° ♁		2303 Oct 27 21:19	0° ♁	
	2301 Jun 12 18:54	0° ♁		2303 Nov 21 07:34	0° ♁	
	2301 Jul 09 08:10	0° ♁		2303 Dec 15 09:43	0° ♁	
desc. node	2301 Jul 31 04:30	23° ♁ 05'26		2304 Jan 08 08:19	0° ♁	
	2301 Aug 07 04:24	0° ♁	desc. node	2304 Jan 15 23:42	9° ♁ 35'26	
evening max el	2301 Aug 08 14:33	1° ♁ 22'04 45°44'20		2304 Feb 01 05:58	0° ♁	
greatest brilliancy	2301 Sep 17 08:56	29° ♁ 45'19 -4.8m	morning set	2304 Feb 05 01:49	4° ♁ 48'10	
	2301 Sep 18 04:08	0° ♁		2304 Feb 25 04:12	0° ♁	
retrograde	2301 Sep 26 11:01	1° ♁ 15'20				
	2301 Oct 04 10:54	30° ♁	superior conj	2304 Mar 16 22:46	25° ♁ 58'09	-1°25'34
evening set	2301 Oct 13 11:54	25° ♁ 49'00	minimum elong	2304 Mar 17 01:30	26° ♁ 06'41	1°25'34
inferior conj	2301 Oct 17 10:11	23° ♁ 26'59 -7°24'37		2304 Mar 20 04:20	0° ♁	
minimum elong	2301 Oct 17 19:47	23° ♁ 12'12 7°23'00	max. Earth dist.	2304 Mar 20 22:50	0° ♁ 57'38	1.72015 AU
min. Earth dist.	2301 Oct 18 09:03	22° ♁ 51'50 0.27607 AU		2304 Apr 13 07:36	0° ♁	
morning rise	2301 Oct 22 03:13	20° ♁ 36'54	evening rise	2304 Apr 25 06:38	14° ♁ 47'25	
direct	2301 Nov 07 10:42	15° ♁ 28'30		2304 May 07 14:49	0° ♁	
greatest brilliancy	2301 Nov 18 14:21	17° ♁ 47'37 -4.9m	asc. node	2304 May 08 03:04	0° ♁ 37'40	
asc. node	2301 Nov 21 07:41	18° ♁ 59'06		2304 Jun 01 02:20	0° ♁	
	2301 Dec 07 22:08	0° ♁		2304 Jun 25 18:37	0° ♁	
morning max el	2301 Dec 28 03:16	18° ♁ 46'48 46°54'53		2304 Jul 20 17:10	0° ♁	
	2302 Jan 07 19:24	0° ♁		2304 Aug 15 01:17	0° ♁	
	2302 Feb 03 10:09	0° ♁	desc. node	2304 Aug 27 16:24	14° ♁ 41'39	
	2302 Feb 28 19:21	0° ♁		2304 Sep 10 01:16	0° ♁	
desc. node	2302 Mar 12 21:26	14° ♁ 31'03		2304 Oct 07 08:05	0° ♁	
	2302 Mar 25 16:54	0° ♁	evening max el	2304 Oct 20 16:38	13° ♁ 41'17	46°50'36
	2302 Apr 19 09:37	0° ♁		2304 Nov 07 11:37	0° ♁	
	2302 May 14 00:30	0° ♁	greatest brilliancy	2304 Nov 30 03:55	14° ♁ 12'33	-4.9m
	2302 Jun 07 14:31	0° ♁	retrograde	2304 Dec 09 23:57	16° ♁ 02'51	
morning set	2302 Jun 30 19:06	28° ♁ 21'37	asc. node	2304 Dec 18 19:41	14° ♁ 26'46	
	2302 Jul 02 03:13	0° ♁	evening set	2304 Dec 24 08:32	11° ♁ 56'45	
asc. node	2302 Jul 04 00:43	2° ♁ 19'20	min. Earth dist.	2304 Dec 30 04:01	8° ♁ 34'01	0.26463 AU
	2302 Jul 26 13:40	0° ♁	inferior conj	2304 Dec 30 12:54	8° ♁ 20'31	2°59'53
max. Earth dist.	2302 Aug 03 13:18	9° ♁ 50'04 1.73327 AU	minimum elong	2304 Dec 30 06:20	8° ♁ 30'31	2°57'52
			morning rise	2305 Jan 05 04:13	5° ♁ 01'56	
superior conj	2302 Aug 06 05:13	13° ♁ 07'04 1°08'08	direct	2305 Jan 19 21:12	0° ♁ 42'52	
minimum elong	2302 Aug 05 20:44	12° ♁ 40'56 1°07'54	greatest brilliancy	2305 Jan 29 15:59	2° ♁ 32'10	-4.9m
	2302 Aug 19 21:25	0° ♁		2305 Mar 07 20:15	0° ♁	
evening rise	2302 Sep 11 08:28	27° ♁ 48'07	morning max el	2305 Mar 11 03:42	3° ♁ 15'45	46°43'39
	2302 Sep 13 03:03	0° ♁		2305 Apr 05 09:13	0° ♁	
	2302 Oct 07 07:48	0° ♁	desc. node	2305 Apr 09 09:16	4° ♁ 26'53	
desc. node	2302 Oct 23 14:12	20° ♁ 09'45		2305 May 01 19:32	0° ♁	
	2302 Oct 31 12:45	0° ♁		2305 May 27 10:49	0° ♁	
	2302 Nov 24 18:45	0° ♁		2305 Jun 21 16:29	0° ♁	
	2302 Dec 19 03:17	0° ♁		2305 Jul 16 15:12	0° ♁	
	2303 Jan 12 18:20	0° ♁	asc. node	2305 Jul 31 12:38	18° ♁ 04'21	
	2303 Feb 07 00:58	0° ♁		2305 Aug 10 07:16	0° ♁	
asc. node	2303 Feb 13 17:24	7° ♁ 42'23		2305 Sep 03 16:51	0° ♁	
	2303 Mar 05 20:15	0° ♁	morning set	2305 Sep 06 19:47	3° ♁ 51'35	
evening max el	2303 Mar 17 03:43	11° ♁ 39'59 46°18'45		2305 Sep 27 21:07	0° ♁	
	2303 Apr 06 12:40	0° ♁	max. Earth dist.	2305 Oct 11 01:32	16° ♁ 26'15	1.72014 AU
greatest brilliancy	2303 Apr 25 00:41	11° ♁ 09'09 -4.8m				
retrograde	2303 May 05 20:25	13° ♁ 18'40	superior conj	2305 Oct 13 23:34	20° ♁ 04'54	1°13'33
evening set	2303 May 21 06:22	8° ♁ 41'44	minimum elong	2305 Oct 14 08:16	20° ♁ 32'04	1°13'20
inferior conj	2303 May 27 06:17	5° ♁ 03'58 2°07'33		2305 Oct 21 21:59	0° ♁	

	2305 Nov 14 21:11	0°♊		desc. node	2308 May 06 20:52	1°♑16'20	
desc. node	2305 Nov 20 02:04	6°♊31'14		morning max el	2308 May 23 05:06	15°♑57'28	45°59'45
evening rise	2305 Nov 22 09:02	9°♊23'26			2308 Jun 06 04:14	0°♐	
	2305 Dec 08 19:48	0°♐			2308 Jul 03 19:08	0°♑	
	2306 Jan 01 18:47	0°♑			2308 Jul 29 23:45	0°♒	
	2306 Jan 25 19:49	0°♒			2308 Aug 24 08:50	0°♓	
asc. node	2306 Feb 19 02:04	0°♑		asc. node	2308 Aug 28 00:26	4°♓22'38	
	2306 Mar 13 05:21	26°♑56'23			2308 Sep 18 03:44	0°♑	
	2306 Mar 15 18:25	0°♐			2308 Oct 12 12:10	0°♑	
	2306 Apr 10 04:32	0°♑			2308 Nov 05 13:44	0°♒	
evening max el	2306 May 06 23:54	0°♒		morning set	2308 Nov 16 23:47	14°♒18'44	
	2306 May 26 20:03	20°♒18'54	45°27'42		2308 Nov 29 11:35	0°♊	
	2306 Jun 06 09:09	0°♓		desc. node	2308 Dec 17 13:58	22°♊45'52	
desc. node	2306 Jul 02 18:46	17°♓41'06			2308 Dec 23 07:58	0°♐	
greatest brilliancy	2306 Jul 03 17:50	18°♓02'58	-4.7m				
retrograde	2306 Jul 14 11:22	20°♓06'23		superior conj	2308 Dec 27 15:40	5°♐26'15	-0°23'52
evening set	2306 Jul 30 17:47	15°♓03'52		minimum elong	2308 Dec 27 09:28	5°♐06'45	0°23'34
inferior conj	2306 Aug 04 22:14	11°♓55'21	-6°47'00	max. Earth dist.	2308 Dec 27 23:08	5°♐49'44	1.71076 AU
minimum elong	2306 Aug 04 12:32	12°♓10'27	6°45'16		2309 Jan 16 04:14	0°♑	
min. Earth dist.	2306 Aug 04 22:01	11°♓55'40	0.28989 AU	evening rise	2309 Feb 07 00:56	27°♑27'17	
morning rise	2306 Aug 09 07:14	9°♓14'51			2309 Feb 09 01:39	0°♒	
direct	2306 Aug 26 13:54	3°♓38'09			2309 Mar 05 01:52	0°♑	
greatest brilliancy	2306 Sep 06 03:45	5°♓40'08	-4.8m		2309 Mar 29 07:03	0°♐	
	2306 Oct 10 05:36	0°♑		asc. node	2309 Apr 09 17:14	14°♐01'45	
morning max el	2306 Oct 15 04:32	4°♑47'26	46°15'17		2309 Apr 22 19:35	0°♑	
asc. node	2306 Oct 23 22:00	13°♑39'40			2309 May 17 18:19	0°♒	
	2306 Nov 08 00:05	0°♓			2309 Jun 12 08:03	0°♓	
	2306 Dec 03 22:59	0°♒			2309 Jul 08 23:48	0°♑	
	2306 Dec 28 19:49	0°♊		desc. node	2309 Jul 30 06:35	22°♑20'20	
	2307 Jan 22 05:21	0°♐		evening max el	2309 Aug 06 03:19	29°♑03'12	45°42'32
desc. node	2307 Feb 12 11:33	26°♐20'25			2309 Aug 07 03:10	0°♓	
	2307 Feb 15 10:20	0°♑		greatest brilliancy	2309 Sep 14 22:09	27°♓27'01	-4.8m
	2307 Mar 11 14:05	0°♒		retrograde	2309 Sep 23 23:53	28°♓57'10	
	2307 Apr 04 18:28	0°♑		evening set	2309 Oct 11 04:30	23°♓25'55	
morning set	2307 Apr 20 17:04	19°♑43'50		inferior conj	2309 Oct 15 00:08	21°♓07'53	-7°35'43
	2307 Apr 29 00:32	0°♐		minimum elong	2309 Oct 15 09:20	20°♓53'44	7°34'18
	2307 May 23 08:33	0°♑		min. Earth dist.	2309 Oct 15 23:17	20°♓32'18	0.27680 AU
				morning rise	2309 Oct 19 13:41	18°♓22'40	
superior conj	2307 May 28 08:46	6°♑09'53	-0°19'32	direct	2309 Nov 05 00:50	13°♓08'00	
minimum elong	2307 May 28 12:53	6°♑22'32	0°19'20	greatest brilliancy	2309 Nov 16 06:06	15°♓28'18	-4.9m
max. Earth dist.	2307 May 29 18:22	7°♑53'13	1.73389 AU	asc. node	2309 Nov 20 09:50	17°♓22'27	
asc. node	2307 Jun 05 14:58	16°♑19'25			2309 Dec 08 08:34	0°♒	
	2307 Jun 16 18:02	0°♒		morning max el	2309 Dec 25 16:55	16°♒22'33	46°54'16
evening rise	2307 Jul 03 22:56	21°♒07'46			2310 Jan 07 14:14	0°♊	
	2307 Jul 11 04:21	0°♓			2310 Feb 03 01:08	0°♐	
	2307 Aug 04 15:28	0°♑			2310 Feb 28 08:37	0°♑	
	2307 Aug 29 04:17	0°♓		desc. node	2310 Mar 11 23:27	13°♑58'48	
	2307 Sep 22 20:12	0°♒			2310 Mar 25 05:11	0°♒	
desc. node	2307 Sep 25 04:19	2°♒49'58			2310 Apr 18 21:14	0°♑	
	2307 Oct 17 16:55	0°♊			2310 May 13 11:40	0°♐	
	2307 Nov 11 21:31	0°♐			2310 Jun 07 01:23	0°♑	
	2307 Dec 07 18:52	0°♑		morning set	2310 Jun 28 13:08	26°♑17'06	
evening max el	2308 Jan 02 07:18	27°♑39'47	47°15'27		2310 Jul 01 13:54	0°♒	
	2308 Jan 04 14:42	0°♒		asc. node	2310 Jul 03 02:51	1°♒53'15	
asc. node	2308 Jan 16 07:38	11°♒10'20			2310 Jul 26 00:15	0°♓	
greatest brilliancy	2308 Feb 11 18:59	29°♒13'47	-4.9m	max. Earth dist.	2310 Aug 01 10:09	7°♓53'54	1.73355 AU
	2308 Feb 14 01:09	0°♑					
retrograde	2308 Feb 22 04:36	1°♑16'49		superior conj	2310 Aug 03 23:43	11°♓03'37	1°06'14
	2308 Mar 01 00:57	30°♒♒		minimum elong	2310 Aug 03 15:06	10°♓37'01	1°05'58
evening set	2308 Mar 11 04:21	24°♒59'38			2310 Aug 19 08:00	0°♑	
min. Earth dist.	2308 Mar 13 13:24	23°♒30'48	0.27772 AU	evening rise	2310 Sep 09 01:49	25°♑40'02	
inferior conj	2308 Mar 14 02:47	23°♒09'47	8°48'41		2310 Sep 12 13:46	0°♓	
minimum elong	2308 Mar 14 04:31	23°♒07'03	8°48'39		2310 Oct 06 18:46	0°♒	
morning rise	2308 Mar 17 04:55	21°♒14'53		desc. node	2310 Oct 22 16:15	19°♒41'25	
direct	2308 Apr 03 23:16	15°♒13'26			2310 Oct 31 00:04	0°♊	
greatest brilliancy	2308 Apr 13 01:55	16°♒46'40	-4.8m		2310 Nov 24 06:29	0°♐	
	2308 May 05 06:56	0°♑			2310 Dec 18 15:33	0°♑	

	2311 Jan 12 07:27	0°			2313 Jun 21 04:19	0°		
	2311 Feb 06 15:40	0°			2313 Jul 16 02:32	0°		
asc. node	2311 Feb 12 19:24	7°04'19		asc. node	2313 Jul 30 14:35	17°36'22		
	2311 Mar 05 14:52	0°			2313 Aug 09 18:19	0°		
evening max el	2311 Mar 14 18:05	9°22'26 46°21'13			2313 Sep 03 03:45	0°		
	2311 Apr 07 02:27	0°		morning set	2313 Sep 04 12:41	1°41'44		
greatest brilliancy	2311 Apr 22 17:06	8°58'13 -4.8m			2313 Sep 27 08:01	0°		
retrograde	2311 May 03 12:55	11°08'17		max. Earth dist.	2313 Oct 08 14:05	14°01'35 1.72058 AU		
evening set	2311 May 19 00:16	6°28'26						
inferior conj	2311 May 24 22:25	2°53'22 2°27'06		superior conj	2313 Oct 11 14:48	17°48'31 1°15'13		
minimum elong	2311 May 25 03:38	2°45'10 2°25'37		minimum elong	2313 Oct 11 23:02	18°14'12 1°15'02		
min. Earth dist.	2311 May 24 22:26	2°53'20 0.28720 AU			2313 Oct 21 08:56	0°		
	2311 May 29 15:20	30°			2313 Nov 14 08:14	0°		
morning rise	2311 May 31 07:11	29°03'25		desc. node	2313 Nov 19 04:14	6°03'17		
desc. node	2311 Jun 04 08:52	27°03'09		evening rise	2313 Nov 19 21:09	6°56'19		
direct	2311 Jun 15 08:20	24°39'44			2313 Dec 08 06:59	0°		
greatest brilliancy	2311 Jun 25 12:54	26°31'32 -4.7m			2314 Jan 01 06:08	0°		
	2311 Jul 03 05:04	0°			2314 Jan 25 07:26	0°		
morning max el	2311 Aug 03 01:45	24°18'57 45°44'04			2314 Feb 18 14:05	0°		
	2311 Aug 08 21:57	0°		asc. node	2314 Mar 12 07:18	26°24'21		
	2311 Sep 06 05:25	0°			2314 Mar 15 07:07	0°		
asc. node	2311 Sep 25 12:17	21°59'15			2314 Apr 09 18:34	0°		
	2311 Oct 02 08:36	0°			2314 May 06 17:06	0°		
	2311 Oct 27 09:20	0°		evening max el	2314 May 24 12:14	18°08'28 45°28'28		
	2311 Nov 20 19:07	0°			2314 Jun 06 14:10	0°		
	2311 Dec 14 21:03	0°		greatest brilliancy	2314 Jul 01 09:14	15°52'39 -4.7m		
	2312 Jan 07 19:32	0°		desc. node	2314 Jul 01 20:48	16°03'02		
desc. node	2312 Jan 15 01:46	9°06'52		retrograde	2314 Jul 12 03:04	17°56'12		
	2312 Jan 31 17:05	0°		evening set	2314 Jul 28 06:57	12°57'59		
morning set	2312 Feb 02 11:29	2°13'04		inferior conj	2314 Aug 02 14:18	9°44'57 -6°34'24		
	2312 Feb 24 15:12	0°		minimum elong	2314 Aug 02 04:29	10°00'17 6°32'33		
				min. Earth dist.	2314 Aug 02 13:30	9°46'12 0.28998 AU		
superior conj	2312 Mar 14 10:54	23°32'07 -1°25'58		morning rise	2314 Aug 07 01:58	7°00'16		
minimum elong	2312 Mar 14 12:41	23°37'41 1°25'58		direct	2314 Aug 24 06:21	1°27'50		
max. Earth dist.	2312 Mar 18 08:49	28°25'07 1.71962 AU		greatest brilliancy	2314 Sep 03 18:54	3°28'17 -4.8m		
	2312 Mar 19 15:16	0°			2314 Oct 10 05:19	0°		
	2312 Apr 12 18:30	0°		morning max el	2314 Oct 12 19:03	2°30'28 46°13'46		
evening rise	2312 Apr 22 21:10	12°30'27		asc. node	2314 Oct 23 00:08	12°55'05		
asc. node	2312 May 07 05:11	0°10'30			2314 Nov 07 16:24	0°		
	2312 May 07 01:46	0°			2314 Dec 03 12:52	0°		
	2312 May 31 13:27	0°			2314 Dec 28 08:33	0°		
	2312 Jun 25 06:04	0°			2315 Jan 21 17:26	0°		
	2312 Jul 20 05:13	0°		desc. node	2315 Feb 11 13:33	25°50'16		
	2312 Aug 14 14:24	0°			2315 Feb 14 22:00	0°		
desc. node	2312 Aug 26 18:23	14°07'16			2315 Mar 11 01:28	0°		
	2312 Sep 09 16:21	0°			2315 Apr 04 05:39	0°		
	2312 Oct 07 03:36	0°		morning set	2315 Apr 18 08:11	17°27'58		
evening max el	2312 Oct 18 06:53	11°20'17 46°48'31			2315 Apr 28 11:34	0°		
	2312 Nov 08 01:09	0°			2315 May 22 19:29	0°		
greatest brilliancy	2312 Nov 27 16:14	11°43'34 -4.9m						
retrograde	2312 Dec 07 12:48	13°33'52		superior conj	2315 May 26 01:35	4°00'20 -0°22'44		
asc. node	2312 Dec 17 21:46	11°21'32		minimum elong	2315 May 26 06:21	4°14'59 0°22'30		
evening set	2312 Dec 21 19:54	9°29'10		max. Earth dist.	2315 May 27 15:33	5°57'07 1.73360 AU		
min. Earth dist.	2312 Dec 27 17:08	6°03'50 0.26455 AU		asc. node	2315 Jun 04 17:03	15°52'14		
inferior conj	2312 Dec 28 01:04	5°51'46 2°36'28			2315 Jun 16 04:57	0°		
minimum elong	2312 Dec 27 19:17	6°00'34 2°34'39		evening rise	2315 Jul 01 17:25	19°03'32		
morning rise	2313 Jan 02 18:49	2°30'19			2315 Jul 10 15:21	0°		
	2313 Jan 08 04:24	30°			2315 Aug 04 02:42	0°		
direct	2313 Jan 17 10:11	28°14'16			2315 Aug 28 15:55	0°		
greatest brilliancy	2313 Jan 27 05:14	0°04'18 -4.9m			2315 Sep 22 08:24	0°		
	2313 Jan 27 00:23	0°		desc. node	2315 Sep 24 06:22	2°19'06		
	2313 Mar 07 20:24	0°			2315 Oct 17 05:56	0°		
morning max el	2313 Mar 08 17:54	0°53'29 46°44'48			2315 Nov 11 11:52	0°		
	2313 Apr 05 01:59	0°			2315 Dec 07 11:44	0°		
desc. node	2313 Apr 08 11:17	3°47'05		evening max el	2315 Dec 30 21:23	25°16'03 47°16'10		
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	2313 May 26 23:29	0°		asc. node	2316 Jan 15 09:36	10°06'59		




































































































































greatest brilliancy	2316 Feb 09 10:41	26° H 53'45	-4.9m	superior conj	2318 Aug 01 18:10	8° Ω 59'00	1°04'13
retrograde	2316 Feb 19 18:56	28° H 55'46		minimum elong	2318 Aug 01 09:25	8° Ω 32'04	1°03'56
evening set	2316 Mar 08 18:59	22° H 39'21			2318 Aug 18 18:56	0° M	
min. Earth dist.	2316 Mar 11 03:24	21° H 11'31	0.27722 AU	evening rise	2318 Sep 06 19:04	23° M 30'44	
inferior conj	2316 Mar 11 17:19	20° H 49'39	8°50'37		2318 Sep 12 00:50	0° Ω	
minimum elong	2316 Mar 11 18:11	20° H 48'16	8°50'36		2318 Oct 06 06:04	0° M	
morning rise	2316 Mar 14 17:36	18° H 57'26		desc. node	2318 Oct 21 18:23	19° M 12'23	
direct	2316 Apr 01 12:55	12° H 54'13			2318 Oct 30 11:42	0° H	
greatest brilliancy	2316 Apr 10 15:34	14° H 27'06	-4.8m		2318 Nov 23 18:32	0° Z	
desc. node	2316 May 05 23:06	0° Y 12'44			2318 Dec 18 04:10	0° \approx	
	2316 May 05 16:59	0° Y			2319 Jan 11 20:55	0° H	
morning max el	2316 May 20 18:28	13° Y 38'01	46°00'55		2319 Feb 06 06:48	0° Y	
	2316 Jun 05 22:45	0° H		asc. node	2319 Feb 11 21:27	6° Y 25'22	
	2316 Jul 03 09:45	0° II			2319 Mar 05 10:13	0° H	
	2316 Jul 29 12:39	0° G		evening max el	2319 Mar 12 09:32	7° H 07'03	46°23'52
	2316 Aug 23 20:51	0° Ω			2319 Apr 07 21:06	0° II	
asc. node	2316 Aug 27 02:28	3° Ω 52'55		greatest brilliancy	2319 Apr 20 09:25	6° II 47'12	-4.8m
	2316 Sep 17 15:17	0° M		retrograde	2319 May 01 06:03	8° II 58'02	
	2316 Oct 11 23:29	0° Ω		evening set	2319 May 16 18:31	4° II 15'17	
	2316 Nov 05 00:57	0° M		inferior conj	2319 May 22 14:44	0° II 42'54	2°46'23
morning set	2316 Nov 14 12:33	11° M 53'03		minimum elong	2319 May 22 20:35	0° II 33'44	2°44'43
	2316 Nov 28 22:47	0° H		min. Earth dist.	2319 May 22 14:33	0° II 43'12	0.28699 AU
desc. node	2316 Dec 16 15:59	22° H 16'55			2319 May 23 18:06	30° R H	
	2316 Dec 22 19:10	0° Z		morning rise	2319 May 28 22:55	26° H 54'11	
				desc. node	2319 Jun 03 10:49	24° H 19'13	
superior conj	2316 Dec 25 01:44	2° Z 51'39	-0°20'01	direct	2319 Jun 13 00:32	22° H 29'33	
minimum elong	2316 Dec 24 20:29	2° Z 35'10	0°19'44	greatest brilliancy	2319 Jun 23 04:14	24° H 21'11	-4.7m
max. Earth dist.	2316 Dec 25 01:28	2° Z 50'50	1.71079 AU		2319 Jul 04 13:29	0° II	
	2317 Jan 15 15:27	0° \approx		morning max el	2319 Jul 31 18:39	22° II 11'26	45°43'42
evening rise	2317 Feb 04 11:21	24° \approx 54'19			2319 Aug 08 18:01	0° G	
	2317 Feb 08 12:52	0° H			2319 Sep 05 20:26	0° Ω	
	2317 Mar 04 13:07	0° Y		asc. node	2319 Sep 24 14:25	21° Ω 26'12	
	2317 Mar 28 18:26	0° H			2319 Oct 01 21:43	0° M	
asc. node	2317 Apr 08 19:22	13° H 33'02			2319 Oct 26 21:33	0° Ω	
	2317 Apr 22 07:18	0° II			2319 Nov 20 06:53	0° M	
	2317 May 17 06:43	0° G			2319 Dec 14 08:34	0° H	
	2317 Jun 11 21:43	0° Ω			2320 Jan 07 06:54	0° Z	
	2317 Jul 08 16:11	0° M		desc. node	2320 Jan 14 03:43	8° Z 37'25	
desc. node	2317 Jul 29 08:35	21° M 32'59		morning set	2320 Jan 30 21:06	29° Z 37'19	
evening max el	2317 Aug 03 16:22	26° M 43'50	45°40'52		2320 Jan 31 04:19	0° \approx	
	2317 Aug 07 03:36	0° Ω			2320 Feb 24 02:21	0° H	
greatest brilliancy	2317 Sep 12 10:44	25° Ω 06'53	-4.8m				
retrograde	2317 Sep 21 13:18	26° Ω 37'55		superior conj	2320 Mar 11 22:56	21° H 05'13	-1°26'12
evening set	2317 Oct 08 20:56	21° Ω 01'42		minimum elong	2320 Mar 11 23:42	21° H 07'38	1°26'12
inferior conj	2317 Oct 12 14:01	18° Ω 47'30	-7°46'03	max. Earth dist.	2320 Mar 15 20:32	25° H 57'23	1.71909 AU
minimum elong	2317 Oct 12 22:45	18° Ω 34'05	7°44'48		2320 Mar 19 02:20	0° Y	
min. Earth dist.	2317 Oct 13 13:06	18° Ω 12'04	0.27753 AU		2320 Apr 12 05:31	0° H	
morning rise	2317 Oct 17 00:07	16° Ω 07'25		evening rise	2320 Apr 20 11:46	10° H 13'19	
direct	2317 Nov 02 15:14	10° Ω 46'18		asc. node	2320 May 06 07:17	29° H 43'02	
greatest brilliancy	2317 Nov 13 21:25	13° Ω 07'35	-4.9m		2320 May 06 12:48	0° II	
asc. node	2317 Nov 19 11:57	15° Ω 48'09			2320 May 31 00:36	0° G	
	2317 Dec 08 16:43	0° M			2320 Jun 24 17:33	0° Ω	
morning max el	2317 Dec 23 07:28	13° M 59'36	46°53'38		2320 Jul 19 17:21	0° M	
	2318 Jan 07 08:58	0° H			2320 Aug 14 03:41	0° Ω	
	2318 Feb 02 16:17	0° Z		desc. node	2320 Aug 25 20:26	13° Ω 32'39	
	2318 Feb 27 22:05	0° \approx			2320 Sep 09 07:47	0° M	
desc. node	2318 Mar 11 01:28	13° \approx 25'52			2320 Oct 06 23:55	0° H	
	2318 Mar 24 17:39	0° H		evening max el	2320 Oct 15 21:30	8° H 59'40	46°46'13
	2318 Apr 18 09:02	0° Y			2320 Nov 08 19:33	0° Z	
	2318 May 12 23:01	0° H		greatest brilliancy	2320 Nov 25 04:59	9° Z 14'37	-4.9m
	2318 Jun 06 12:27	0° II		retrograde	2320 Dec 05 01:25	11° Z 04'02	
morning set	2318 Jun 26 07:16	24° II 12'08		asc. node	2320 Dec 16 23:43	8° Z 10'44	
	2318 Jul 01 00:49	0° G		evening set	2320 Dec 19 07:31	7° Z 00'51	
asc. node	2318 Jul 02 04:47	1° G 25'44		inferior conj	2320 Dec 25 13:11	3° Z 22'31	2°12'37
	2318 Jul 25 11:08	0° Ω		minimum elong	2320 Dec 25 08:14	3° Z 30'04	2°11'02
max. Earth dist.	2318 Jul 30 08:08	6° Ω 00'12	1.73388 AU	min. Earth dist.	2320 Dec 25 06:25	3° Z 32'49	0.26447 AU
				morning rise	2320 Dec 31 09:08	29° H 58'12	

	2320 Dec 31 07:48	30°R♄		evening rise	2323 Jun 29 12:04	17°♄00'29	
direct	2321 Jan 14 22:59	25°♄45'20			2323 Jul 10 02:08	0°♄	
greatest brilliancy	2321 Jan 24 18:30	27°♄35'53	-4.9m		2323 Aug 03 13:41	0°♄	
	2321 Jan 30 05:26	0°♄			2323 Aug 28 03:14	0°♄	
morning max el	2321 Mar 06 07:10	28°♄28'35	46°45'56		2323 Sep 21 20:17	0°♄	
	2321 Mar 07 19:34	0°♄		desc. node	2323 Sep 23 08:32	1°♄49'34	
	2321 Apr 04 18:28	0°♄			2323 Oct 16 18:42	0°♄	
desc. node	2321 Apr 07 13:27	3°♄08'03			2323 Nov 11 02:04	0°♄	
	2321 Apr 30 23:30	0°♄			2323 Dec 07 04:44	0°♄	
	2321 May 26 12:03	0°♄		evening max el	2323 Dec 28 10:34	22°♄50'11	47°16'32
	2321 Jun 20 16:04	0°♄			2324 Jan 04 15:23	0°♄	
	2321 Jul 15 13:46	0°♄		asc. node	2324 Jan 14 11:41	9°♄02'12	
asc. node	2321 Jul 29 16:41	17°♄09'10		greatest brilliancy	2324 Feb 07 02:07	24°♄32'34	-4.9m
	2321 Aug 09 05:14	0°♄		retrograde	2324 Feb 17 08:57	26°♄33'50	
morning set	2321 Sep 02 05:57	29°♄33'24		evening set	2324 Mar 06 08:44	20°♄18'47	
	2321 Sep 02 14:34	0°♄		min. Earth dist.	2324 Mar 08 17:12	18°♄51'01	0.27672 AU
	2321 Sep 26 18:51	0°♄		inferior conj	2324 Mar 09 07:29	18°♄28'35	8°51'30
max. Earth dist.	2321 Oct 06 02:08	11°♄35'40	1.72112 AU	minimum elong	2324 Mar 09 07:29	18°♄28'36	8°51'30
				morning rise	2324 Mar 12 06:25	16°♄38'29	
superior conj	2321 Oct 09 06:20	15°♄33'18	1°16'46	direct	2324 Mar 30 01:50	10°♄33'52	
minimum elong	2321 Oct 09 14:02	15°♄57'19	1°16'36	greatest brilliancy	2324 Apr 08 05:10	12°♄07'04	-4.8m
	2321 Oct 20 19:52	0°♄		desc. node	2324 May 05 01:04	29°♄10'22	
	2321 Nov 13 19:18	0°♄			2324 May 06 00:14	0°♄	
evening rise	2321 Nov 17 09:12	4°♄28'56		morning max el	2324 May 18 07:54	11°♄19'01	46°02'21
desc. node	2321 Nov 18 06:15	5°♄34'51			2324 Jun 05 16:34	0°♄	
	2321 Dec 07 18:12	0°♄			2324 Jul 02 23:54	0°♄	
	2321 Dec 31 17:33	0°♄			2324 Jul 29 01:09	0°♄	
	2322 Jan 24 19:05	0°♄			2324 Aug 23 08:29	0°♄	
	2322 Feb 18 02:06	0°♄		asc. node	2324 Aug 26 04:34	3°♄24'30	
asc. node	2322 Mar 11 09:28	25°♄53'04			2324 Sep 17 02:27	0°♄	
	2322 Mar 14 19:49	0°♄			2324 Oct 11 10:25	0°♄	
	2322 Apr 09 08:39	0°♄			2324 Nov 04 11:46	0°♄	
	2322 May 06 10:31	0°♄		morning set	2324 Nov 12 01:59	9°♄30'44	
evening max el	2322 May 22 03:52	15°♄57'06	45°29'23		2324 Nov 28 09:36	0°♄	
	2322 Jun 06 21:00	0°♄		desc. node	2324 Dec 15 17:59	21°♄49'05	
greatest brilliancy	2322 Jun 29 01:22	13°♄44'10	-4.7m		2324 Dec 22 06:01	0°♄	
desc. node	2322 Jun 30 22:49	14°♄22'39					
retrograde	2322 Jul 09 18:49	15°♄47'39		superior conj	2324 Dec 22 12:03	0°♄18'57	-0°16'07
evening set	2322 Jul 25 20:33	10°♄53'27		minimum elong	2324 Dec 22 07:48	0°♄05'34	0°15'55
inferior conj	2322 Jul 31 06:41	7°♄36'19	-6°21'18	behind sun begin	2324 Dec 22 01:46	29°♄46'36	
minimum elong	2322 Jul 30 20:49	7°♄51'45	6°19'21	behind sun end	2324 Dec 22 13:49	0°♄24'32	
min. Earth dist.	2322 Jul 31 05:38	7°♄37'58	0.29003 AU	max. Earth dist.	2324 Dec 22 08:03	0°♄06'23	1.71094 AU
morning rise	2322 Aug 04 21:00	4°♄47'26			2325 Jan 15 02:22	0°♄	
	2322 Aug 16 01:23	30°R♄		evening rise	2325 Feb 01 21:37	22°♄21'41	
direct	2322 Aug 21 22:32	29°♄19'14			2325 Feb 07 23:50	0°♄	
	2322 Aug 27 23:25	0°♄			2325 Mar 04 00:10	0°♄	
greatest brilliancy	2322 Sep 01 10:47	1°♄18'47	-4.8m		2325 Mar 28 05:38	0°♄	
	2322 Oct 10 03:38	0°♄		asc. node	2325 Apr 07 21:24	13°♄04'38	
morning max el	2322 Oct 10 09:03	0°♄13'18	46°12'09		2325 Apr 21 18:51	0°♄	
asc. node	2322 Oct 22 02:14	12°♄11'55			2325 May 16 18:54	0°♄	
	2322 Nov 07 08:10	0°♄			2325 Jun 11 11:12	0°♄	
	2322 Dec 03 02:28	0°♄			2325 Jul 08 08:30	0°♄	
	2322 Dec 27 21:07	0°♄		desc. node	2325 Jul 28 10:42	20°♄46'15	
	2323 Jan 21 05:24	0°♄		evening max el	2325 Aug 01 06:30	24°♄28'24	45°39'25
desc. node	2323 Feb 10 15:42	25°♄20'48			2325 Aug 07 04:44	0°♄	
	2323 Feb 14 09:35	0°♄		greatest brilliancy	2325 Sep 09 23:05	22°♄48'29	-4.8m
	2323 Mar 10 12:45	0°♄		retrograde	2325 Sep 19 03:32	24°♄20'50	
	2323 Apr 03 16:41	0°♄		evening set	2325 Oct 06 13:32	18°♄39'57	
morning set	2323 Apr 15 22:58	15°♄11'29		inferior conj	2325 Oct 10 04:09	16°♄29'18	-7°55'33
	2323 Apr 27 22:25	0°♄		minimum elong	2325 Oct 10 12:24	16°♄16'40	7°54'27
	2323 May 22 06:13	0°♄		min. Earth dist.	2325 Oct 11 02:45	15°♄54'39	0.27821 AU
				morning rise	2325 Oct 14 10:52	13°♄54'20	
superior conj	2323 May 23 18:23	1°♄51'20	-0°25'55	direct	2325 Oct 31 06:16	8°♄27'06	
minimum elong	2323 May 23 23:46	2°♄07'55	0°25'39	greatest brilliancy	2325 Nov 11 12:10	10°♄48'26	-4.9m
max. Earth dist.	2323 May 25 11:11	3°♄56'54	1.73326 AU	asc. node	2325 Nov 18 13:51	14°♄18'49	
asc. node	2323 Jun 03 19:01	15°♄25'21			2325 Dec 08 21:48	0°♄	
	2323 Jun 15 15:38	0°♄		morning max el	2325 Dec 20 22:59	11°♄41'02	46°52'52

	2326 Jan 07 02:41	0°♊			2328 Aug 13 16:53	0°♎	
	2326 Feb 02 06:45	0°♋		desc. node	2328 Aug 24 22:34	12°♎58'38	
	2326 Feb 27 11:04	0°♌			2328 Sep 08 23:14	0°♏	
desc. node	2326 Mar 10 03:35	12°♌54'22			2328 Oct 06 20:39	0°♐	
	2326 Mar 24 05:45	0°♍		evening max el	2328 Oct 13 11:33	6°♐38'30	46°43'54
	2326 Apr 17 20:34	0°♎			2328 Nov 09 19:52	0°♑	
	2326 May 12 10:08	0°♏		greatest brilliancy	2328 Nov 22 18:23	6°♑47'16	-4.9m
	2326 Jun 05 23:16	0°♐		retrograde	2328 Dec 02 13:29	8°♑34'58	
morning set	2326 Jun 24 01:06	22°♐07'04		asc. node	2328 Dec 16 01:53	4°♑55'56	
	2326 Jun 30 11:27	0°♑		evening set	2328 Dec 16 19:24	4°♑33'05	
asc. node	2326 Jul 01 06:54	0°♑59'36		inferior conj	2328 Dec 23 01:20	0°♑54'14	1°48'27
	2326 Jul 24 21:41	0°♒		minimum elong	2328 Dec 22 21:14	1°♑00'29	1°47'09
max. Earth dist.	2326 Jul 28 06:56	4°♒10'07	1.73413 AU	min. Earth dist.	2328 Dec 22 20:07	1°♑02'12	0.26439 AU
					2328 Dec 24 13:01	30°♒♊	
superior conj	2326 Jul 30 12:23	6°♒54'42	1°02'06	morning rise	2328 Dec 28 23:14	27°♒27'03	
minimum elong	2326 Jul 30 03:34	6°♒27'34	1°01'49	direct	2329 Jan 12 11:21	23°♒17'12	
	2326 Aug 18 05:31	0°♓		greatest brilliancy	2329 Jan 22 08:14	25°♒08'40	-4.9m
evening rise	2326 Sep 04 12:24	21°♓22'43			2329 Feb 01 02:07	0°♑	
	2326 Sep 11 11:34	0°♎		morning max el	2329 Mar 03 19:32	26°♑02'09	46°47'09
	2326 Oct 05 17:02	0°♏			2329 Mar 07 17:27	0°♌	
desc. node	2326 Oct 20 20:21	18°♏43'59			2329 Apr 04 10:20	0°♍	
	2326 Oct 29 22:59	0°♐		desc. node	2329 Apr 06 15:26	2°♍29'46	
	2326 Nov 23 06:13	0°♑			2329 Apr 30 13:01	0°♎	
	2326 Dec 17 16:23	0°♒			2329 May 26 00:20	0°♏	
	2327 Jan 11 10:02	0°♋			2329 Jun 20 03:37	0°♐	
asc. node	2327 Feb 05 21:43	0°♎			2329 Jul 15 00:52	0°♑	
	2327 Feb 10 23:34	5°♎47'22		asc. node	2329 Jul 28 18:48	16°♑42'16	
	2327 Mar 05 05:48	0°♏			2329 Aug 08 16:04	0°♒	
evening max el	2327 Mar 10 01:35	4°♏53'50	46°26'08	morning set	2329 Aug 30 22:52	27°♒24'15	
	2327 Apr 08 22:29	0°♐			2329 Sep 02 01:17	0°♓	
greatest brilliancy	2327 Apr 18 01:40	4°♐36'02	-4.8m		2329 Sep 26 05:34	0°♎	
retrograde	2327 Apr 28 22:54	6°♐47'03		max. Earth dist.	2329 Oct 03 14:48	9°♎12'03	1.72164 AU
evening set	2327 May 14 12:36	2°♐01'32					
	2327 May 17 22:15	30°♒♋		superior conj	2329 Oct 06 21:42	13°♎18'03	1°18'11
inferior conj	2327 May 20 06:42	28°♋31'49	3°05'40	minimum elong	2329 Oct 07 04:50	13°♎40'15	1°18'02
minimum elong	2327 May 20 13:09	28°♋21'42	3°03'51		2329 Oct 20 06:41	0°♏	
min. Earth dist.	2327 May 20 06:13	28°♋32'35	0.28679 AU		2329 Nov 13 06:14	0°♐	
morning rise	2327 May 26 14:04	24°♋44'30		evening rise	2329 Nov 14 21:16	2°♐02'08	
desc. node	2327 Jun 02 12:51	21°♋38'45		desc. node	2329 Nov 17 08:14	5°♐06'40	
direct	2327 Jun 10 16:41	20°♋18'56			2329 Dec 07 05:18	0°♑	
greatest brilliancy	2327 Jun 20 18:44	22°♋09'38	-4.7m		2329 Dec 31 04:51	0°♌	
	2327 Jul 05 12:41	0°♐			2330 Jan 24 06:38	0°♍	
morning max el	2327 Jul 29 11:08	20°♐03'22	45°43'28		2330 Feb 17 14:01	0°♎	
	2327 Aug 08 13:17	0°♑		asc. node	2330 Mar 10 11:29	25°♎21'41	
	2327 Sep 05 10:59	0°♒			2330 Mar 14 08:25	0°♋	
asc. node	2327 Sep 23 16:28	20°♒53'58			2330 Apr 08 22:41	0°♐	
	2327 Oct 01 10:25	0°♓			2330 May 06 04:09	0°♑	
	2327 Oct 26 09:24	0°♎		evening max el	2330 May 19 18:40	13°♑43'59	45°30'13
	2327 Nov 19 18:18	0°♏			2330 Jun 07 06:22	0°♒	
	2327 Dec 13 19:45	0°♐		greatest brilliancy	2330 Jun 26 17:05	11°♒34'57	-4.7m
desc. node	2328 Jan 06 17:54	0°♑		desc. node	2330 Jun 30 00:56	12°♒38'24	
morning set	2328 Jan 13 05:53	8°♑09'46		retrograde	2330 Jul 07 10:23	13°♒38'52	
	2328 Jan 28 07:11	27°♑04'14		evening set	2330 Jul 23 10:01	8°♒48'09	
	2328 Jan 30 15:11	0°♒		inferior conj	2330 Jul 28 22:56	5°♒27'15	-6°07'28
	2328 Feb 23 13:07	0°♋		minimum elong	2330 Jul 28 13:03	5°♒42'43	6°05'27
				min. Earth dist.	2330 Jul 28 21:51	5°♒28'57	0.29012 AU
superior conj	2328 Mar 09 11:10	18°♋39'58	-1°26'15	morning rise	2330 Aug 02 15:56	2°♒34'15	
minimum elong	2328 Mar 09 10:56	18°♋39'15	1°26'16		2330 Aug 07 12:59	30°♒♑	
max. Earth dist.	2328 Mar 13 10:50	23°♋38'43	1.71859 AU	direct	2330 Aug 19 14:18	27°♑09'54	
	2328 Mar 18 13:02	0°♎		greatest brilliancy	2330 Aug 30 03:14	29°♑09'29	-4.8m
	2328 Apr 11 16:14	0°♏			2330 Sep 01 06:36	0°♒	
evening rise	2328 Apr 18 02:15	7°♏56'39		morning max el	2330 Oct 07 23:16	27°♒56'25	46°10'42
asc. node	2328 May 05 09:13	29°♏15'50			2330 Oct 10 01:14	0°♓	
	2328 May 05 23:35	0°♐		asc. node	2330 Oct 21 04:11	11°♓28'41	
	2328 May 30 11:34	0°♑			2330 Nov 06 23:46	0°♎	
	2328 Jun 24 04:53	0°♒			2330 Dec 02 15:57	0°♏	
	2328 Jul 19 05:22	0°♓			2330 Dec 27 09:36	0°♐	

	2331 Jan 20 17:19	0° Z		evening max el	2333 Jul 29 21:25	22° M 14'19	45°37'55
desc. node	2331 Feb 09 17:43	24° Z 50'59			2333 Aug 07 07:36	0° L	
	2331 Feb 13 21:07	0° \approx		greatest brilliancy	2333 Sep 07 11:01	20° L 29'00	-4.8m
	2331 Mar 10 00:01	0° H		retrograde	2333 Sep 16 17:36	22° L 02'37	
	2331 Apr 03 03:43	0° Y		evening set	2333 Oct 04 05:53	16° L 17'28	
morning set	2331 Apr 13 13:44	12° Y 54'47		inferior conj	2333 Oct 07 18:13	14° L 09'59	-8°04'05
	2331 Apr 27 09:15	0° B		minimum elong	2333 Oct 08 01:54	13° L 58'12	8°03'09
				min. Earth dist.	2333 Oct 08 16:04	13° L 36'28	0.27893 AU
superior conj	2331 May 21 11:17	29° B 42'39	-0°29'02	morning rise	2333 Oct 11 21:35	11° L 39'53	
minimum elong	2331 May 21 17:17	0° II 01'05	0°28'45	direct	2333 Oct 28 21:40	6° L 06'50	
	2331 May 21 16:55	0° II		greatest brilliancy	2333 Nov 09 02:25	8° L 27'23	-4.9m
max. Earth dist.	2331 May 23 05:48	1° II 53'30	1.73292 AU	asc. node	2333 Nov 17 16:01	12° L 51'30	
asc. node	2331 Jun 02 21:08	14° II 58'55			2333 Dec 09 01:42	0° M	
	2331 Jun 15 02:21	0° G		morning max el	2333 Dec 18 14:33	9° M 21'15	46°51'58
evening rise	2331 Jun 27 06:47	14° G 57'35			2334 Jan 06 20:32	0° X	
	2331 Jul 09 12:58	0° Q			2334 Feb 01 21:32	0° Z	
	2331 Aug 03 00:47	0° M			2334 Feb 27 00:20	0° \approx	
	2331 Aug 27 14:44	0° L		desc. node	2334 Mar 09 05:35	12° \approx 21'32	
	2331 Sep 21 08:24	0° M			2334 Mar 23 18:08	0° H	
desc. node	2331 Sep 22 10:27	1° M 18'38			2334 Apr 17 08:21	0° Y	
	2331 Oct 16 07:44	0° X			2334 May 11 21:31	0° B	
	2331 Nov 10 16:36	0° Z			2334 Jun 05 10:23	0° II	
	2331 Dec 06 22:13	0° \approx		morning set	2334 Jun 21 19:06	20° II 01'38	
evening max el	2331 Dec 25 23:45	20° \approx 24'04	47°17'01		2334 Jun 29 22:24	0° G	
	2332 Jan 04 17:45	0° H		asc. node	2334 Jun 30 09:00	0° G 32'31	
asc. node	2332 Jan 13 13:48	7° H 55'24			2334 Jul 24 08:33	0° Q	
greatest brilliancy	2332 Feb 04 16:59	22° H 10'11	-4.9m	max. Earth dist.	2334 Jul 26 05:15	2° Q 17'33	1.73433 AU
retrograde	2332 Feb 14 23:17	24° H 11'28					
evening set	2332 Mar 03 21:54	17° H 58'08		superior conj	2334 Jul 28 06:49	4° Q 50'12	0°59'55
inferior conj	2332 Mar 06 21:35	16° H 06'49	8°51'26	minimum elong	2334 Jul 27 22:01	4° Q 23'05	0°59'37
minimum elong	2332 Mar 06 20:41	16° H 08'14	8°51'26		2334 Aug 17 16:24	0° M	
min. Earth dist.	2332 Mar 06 06:44	16° H 30'05	0.27622 AU	evening rise	2334 Sep 02 06:00	19° M 14'41	
morning rise	2332 Mar 09 19:37	14° H 18'15			2334 Sep 10 22:37	0° L	
direct	2332 Mar 27 14:50	8° H 12'40			2334 Oct 05 04:22	0° M	
greatest brilliancy	2332 Apr 05 18:35	9° H 46'17	-4.8m	desc. node	2334 Oct 19 22:25	18° M 14'45	
desc. node	2332 May 04 03:04	28° H 09'08			2334 Oct 29 10:41	0° X	
	2332 May 06 05:30	0° Y			2334 Nov 22 18:21	0° Z	
morning max el	2332 May 15 22:14	9° Y 01'44	46°03'54		2334 Dec 17 05:08	0° \approx	
	2332 Jun 05 10:07	0° B			2335 Jan 10 23:45	0° H	
	2332 Jul 02 14:02	0° II			2335 Feb 05 13:21	0° Y	
	2332 Jul 28 13:44	0° G		asc. node	2335 Feb 10 01:33	5° Y 07'16	
	2332 Aug 22 20:16	0° Q			2335 Mar 05 02:31	0° B	
asc. node	2332 Aug 25 06:35	2° Q 55'17		evening max el	2335 Mar 07 17:40	2° B 39'18	46°28'37
	2332 Sep 16 13:50	0° M			2335 Apr 10 11:31	0° II	
	2332 Oct 10 21:36	0° L		greatest brilliancy	2335 Apr 15 18:33	2° II 24'35	-4.8m
	2332 Nov 03 22:53	0° M		retrograde	2335 Apr 26 15:31	4° II 34'56	
morning set	2332 Nov 09 15:13	7° M 06'54			2335 May 11 21:31	30° R B	
	2332 Nov 27 20:42	0° X		evening set	2335 May 12 06:54	29° B 46'47	
desc. node	2332 Dec 14 20:08	21° X 20'49		inferior conj	2335 May 17 22:45	26° B 19'50	3°24'37
				minimum elong	2335 May 18 05:45	26° B 08'50	3°22'41
superior conj	2332 Dec 19 22:03	27° X 44'22	-0°12'10	min. Earth dist.	2335 May 17 22:03	26° B 20'56	0.28654 AU
minimum elong	2332 Dec 19 18:50	27° X 34'14	0°12'01	morning rise	2335 May 24 05:04	22° B 33'55	
behind sun begin	2332 Dec 19 00:47	26° X 37'26		desc. node	2335 Jun 01 15:02	19° B 01'54	
behind sun end	2332 Dec 20 12:53	28° X 31'02		direct	2335 Jun 08 08:50	18° B 07'33	
max. Earth dist.	2332 Dec 19 16:51	27° X 28'00	1.71104 AU	greatest brilliancy	2335 Jun 18 09:07	19° B 56'53	-4.7m
	2332 Dec 21 17:10	0° Z			2335 Jul 06 06:16	0° II	
	2333 Jan 14 13:32	0° \approx		morning max el	2335 Jul 27 03:06	17° II 53'07	45°43'17
evening rise	2333 Jan 30 07:46	19° \approx 47'56			2335 Aug 08 08:21	0° G	
	2333 Feb 07 11:02	0° H			2335 Sep 05 01:40	0° Q	
	2333 Mar 03 11:26	0° Y		asc. node	2335 Sep 22 18:26	20° Q 20'44	
	2333 Mar 27 17:06	0° B			2335 Sep 30 23:21	0° M	
asc. node	2333 Apr 06 23:23	12° B 35'14			2335 Oct 25 21:31	0° L	
	2333 Apr 21 06:40	0° II			2335 Nov 19 06:01	0° M	
	2333 May 16 07:24	0° G			2335 Dec 13 07:16	0° X	
	2333 Jun 11 01:02	0° Q			2336 Jan 06 05:19	0° Z	
	2333 Jul 08 01:22	0° M		desc. node	2336 Jan 12 07:55	7° Z 40'24	
desc. node	2333 Jul 27 12:46	19° M 57'58		morning set	2336 Jan 25 16:49	24° Z 28'13	

	2336 Jan 30 02:30	0°♊		inferior conj	2338 Jul 26 15:17	3°♎17'54	-5°53'17
	2336 Feb 23 00:20	0°♋		minimum elong	2338 Jul 26 05:26	3°♎33'18	5°51'10
				min. Earth dist.	2338 Jul 26 14:00	3°♎19'56	0.29018 AU
superior conj	2336 Mar 06 22:48	16°♋11'22	-1°26'09	morning rise	2338 Jul 31 10:57	0°♎21'05	
minimum elong	2336 Mar 06 21:33	16°♋07'29	1°26'09		2338 Aug 01 01:35	30°♋☾	
max. Earth dist.	2336 Mar 10 24:00	21°♋15'04	1.71804 AU	direct	2338 Aug 17 06:06	25°☾00'16	
	2336 Mar 18 00:12	0°♌		greatest brilliancy	2338 Aug 27 19:50	27°☾00'17	-4.7m
	2336 Apr 11 03:21	0°♍			2338 Sep 03 10:38	0°♎	
evening rise	2336 Apr 15 16:12	5°♍36'57		morning max el	2338 Oct 05 14:32	25°♎42'01	46°09'18
asc. node	2336 May 04 11:21	28°♍48'08			2338 Oct 09 22:12	0°♎	
	2336 May 05 10:44	0°♎		asc. node	2338 Oct 20 06:19	10°♎46'08	
	2336 May 29 22:54	0°☾			2338 Nov 06 15:15	0°♎	
	2336 Jun 23 16:36	0°♎			2338 Dec 02 05:26	0°♎	
	2336 Jul 18 17:46	0°♎			2338 Dec 26 22:05	0°♎	
	2336 Aug 13 06:31	0°♎			2339 Jan 20 05:15	0°♎	
desc. node	2336 Aug 24 00:32	12°♎23'04		desc. node	2339 Feb 08 19:43	24°♎21'05	
	2336 Sep 08 15:13	0°♎			2339 Feb 13 08:41	0°♎	
	2336 Oct 06 18:22	0°♎			2339 Mar 09 11:20	0°♎	
evening max el	2336 Oct 11 00:47	4°♎14'43	46°41'31		2339 Apr 02 14:50	0°♌	
	2336 Nov 11 06:04	0°♎		morning set	2339 Apr 11 04:14	10°♌36'47	
greatest brilliancy	2336 Nov 20 08:11	4°♎19'57	-4.9m		2339 Apr 26 20:12	0°♌	
retrograde	2336 Nov 30 01:05	6°♎05'39					
evening set	2336 Dec 14 07:34	2°♎04'26		superior conj	2339 May 19 03:51	27°♌32'25	-0°32'09
asc. node	2336 Dec 15 03:55	1°♎36'58		minimum elong	2339 May 19 10:25	27°♌52'41	0°31'51
	2336 Dec 17 23:18	30°♌♎		max. Earth dist.	2339 May 20 23:10	29°♌45'48	1.73259 AU
inferior conj	2336 Dec 20 13:36	28°♌25'38	1°24'16		2339 May 21 03:47	0°♎	
minimum elong	2336 Dec 20 10:24	28°♌30'31	1°23'13	asc. node	2339 Jun 01 23:13	14°♎31'58	
min. Earth dist.	2336 Dec 20 10:15	28°♌30'45	0.26442 AU		2339 Jun 14 13:11	0°☾	
morning rise	2336 Dec 26 13:14	24°♌55'43		evening rise	2339 Jun 25 01:12	12°☾53'31	
direct	2337 Jan 09 23:25	20°♌48'20			2339 Jul 08 23:54	0°♎	
greatest brilliancy	2337 Jan 19 22:46	22°♌41'32	-4.9m		2339 Aug 02 11:57	0°♎	
	2337 Feb 02 09:12	0°♎			2339 Aug 27 02:19	0°♎	
morning max el	2337 Mar 01 07:40	23°♎33'37	46°48'14		2339 Sep 20 20:35	0°♎	
	2337 Mar 07 15:02	0°♎		desc. node	2339 Sep 21 12:32	0°♎48'04	
	2337 Apr 04 02:26	0°♋			2339 Oct 15 20:53	0°♎	
desc. node	2337 Apr 05 17:27	1°♋50'33			2339 Nov 10 07:20	0°♎	
	2337 Apr 30 02:50	0°♌			2339 Dec 06 16:05	0°♎	
	2337 May 25 12:55	0°♍		evening max el	2339 Dec 23 14:06	18°♎01'13	47°17'30
	2337 Jun 19 15:26	0°♎			2340 Jan 04 21:34	0°♋	
	2337 Jul 14 12:12	0°☾		asc. node	2340 Jan 12 15:46	6°♋46'47	
asc. node	2337 Jul 27 20:45	16°☾14'05		greatest brilliancy	2340 Feb 02 07:16	19°♋47'29	-4.9m
	2337 Aug 08 03:09	0°♎		retrograde	2340 Feb 12 14:10	21°♋49'34	
morning set	2337 Aug 28 15:56	25°♎14'52		evening set	2340 Mar 01 10:41	15°♋38'30	
	2337 Sep 01 12:15	0°♎		inferior conj	2340 Mar 04 11:43	13°♋45'24	8°50'31
	2337 Sep 25 16:32	0°♎		minimum elong	2340 Mar 04 09:56	13°♋48'12	8°50'28
max. Earth dist.	2337 Oct 01 05:12	6°♎53'08	1.72215 AU	min. Earth dist.	2340 Mar 03 19:58	14°♋10'02	0.27572 AU
				morning rise	2340 Mar 07 09:21	11°♋57'46	
superior conj	2337 Oct 04 13:32	11°♎03'29	1°19'27	direct	2340 Mar 25 04:19	5°♋51'56	
minimum elong	2337 Oct 04 20:03	11°♎23'50	1°19'20	greatest brilliancy	2340 Apr 03 07:33	7°♋25'31	-4.8m
	2337 Oct 19 17:43	0°♎		desc. node	2340 May 03 05:16	27°♋10'08	
evening rise	2337 Nov 12 09:55	29°♎36'41			2340 May 06 08:47	0°♌	
	2337 Nov 12 17:23	0°♎		morning max el	2340 May 13 13:31	6°♌46'58	46°05'16
desc. node	2337 Nov 16 10:25	4°♎38'33			2340 Jun 05 03:14	0°♍	
	2337 Dec 06 16:36	0°♎			2340 Jul 02 04:00	0°♎	
	2337 Dec 30 16:21	0°♎			2340 Jul 28 02:14	0°☾	
	2338 Jan 23 18:25	0°♋			2340 Aug 22 07:58	0°♎	
	2338 Feb 17 02:14	0°♌		asc. node	2340 Aug 24 08:38	2°♎26'24	
asc. node	2338 Mar 09 13:27	24°♌49'12			2340 Sep 16 01:05	0°♎	
	2338 Mar 13 21:24	0°♍			2340 Oct 10 08:38	0°♎	
	2338 Apr 08 13:13	0°♎			2340 Nov 03 09:50	0°♎	
	2338 May 05 22:35	0°☾		morning set	2340 Nov 07 04:41	4°♎44'23	
evening max el	2338 May 17 09:26	11°☾29'58	45°31'23		2340 Nov 27 07:41	0°♎	
	2338 Jun 07 19:28	0°♎		desc. node	2340 Dec 13 22:09	20°♎52'33	
greatest brilliancy	2338 Jun 24 08:25	9°♎24'46	-4.7m				
desc. node	2338 Jun 29 02:56	10°♎49'45		superior conj	2340 Dec 17 08:18	25°♎10'58	-0°08'14
retrograde	2338 Jul 05 02:31	11°♎29'58		minimum elong	2340 Dec 17 06:08	25°♎04'07	0°08'07
evening set	2338 Jul 20 23:43	6°♎42'14		behind sun begin	2340 Dec 16 07:05	23°♎51'36	

behind sun end	2340 Dec 18 05:11	26°  16'38		direct	2343 Jun 06 00:43	15°  57'30	
max. Earth dist.	2340 Dec 17 02:17	24°  52'02	1.71115 AU	greatest brilliancy	2343 Jun 15 23:55	17°  45'45	-4.7m
	2340 Dec 21 04:10	0°  3			2343 Jul 06 18:47	0°  II	
	2341 Jan 14 00:34	0°  ≈		morning max el	2343 Jul 24 18:11	15°  II41'52	45°43'04
evening rise	2341 Jan 27 18:07	17°  ≈15'10			2343 Aug 08 02:29	0°  ☾	
	2341 Feb 06 22:05	0°  ✕			2343 Sep 04 15:49	0°  Ω	
	2341 Mar 02 22:32	0°  Υ		asc. node	2343 Sep 21 20:35	19°  Ω49'04	
	2341 Mar 27 04:22	0°  8			2343 Sep 30 11:54	0°  ♍	
asc. node	2341 Apr 06 01:32	12°  807'02			2343 Oct 25 09:18	0°  ♌	
	2341 Apr 20 18:18	0°  II			2343 Nov 18 17:25	0°  ♍	
	2341 May 15 19:46	0°  ☾			2343 Dec 12 18:26	0°  ♊	
	2341 Jun 10 14:49	0°  Ω			2344 Jan 05 16:20	0°  3	
	2341 Jul 07 18:24	0°  ♍		desc. node	2344 Jan 11 09:53	7°  312'00	
desc. node	2341 Jul 26 14:45	19°  ♍09'02		morning set	2344 Jan 23 02:23	21°  353'10	
evening max el	2341 Jul 27 12:56	20°  ♍02'10	45°36'28		2344 Jan 29 13:25	0°  ≈	
	2341 Aug 07 11:57	0°  ♌			2344 Feb 22 11:11	0°  ✕	
greatest brilliancy	2341 Sep 04 23:27	18°  ♌11'03	-4.8m				
retrograde	2341 Sep 14 07:28	19°  ♌45'24		superior conj	2344 Mar 04 10:23	13°  ✕43'40	-1°25'53
evening set	2341 Oct 01 22:14	13°  ♌56'41		minimum elong	2344 Mar 04 08:06	13°  ✕36'32	1°25'52
inferior conj	2341 Oct 05 08:28	11°  ♌51'58	-8°11'46	max. Earth dist.	2344 Mar 08 11:18	18°  ✕46'38	1.71751 AU
minimum elong	2341 Oct 05 15:30	11°  ♌41'08	8°11'01		2344 Mar 17 11:00	0°  Υ	
min. Earth dist.	2341 Oct 06 05:29	11°  ♌19'39	0.27959 AU		2344 Apr 10 14:08	0°  8	
morning rise	2341 Oct 09 08:30	9°  ♌26'30		evening rise	2344 Apr 13 05:58	3°  817'40	
direct	2341 Oct 26 13:12	3°  ♌48'08		asc. node	2344 May 03 13:25	28°  821'13	
greatest brilliancy	2341 Nov 06 16:30	6°  ♌07'18	-4.9m		2344 May 04 21:33	0°  II	
asc. node	2341 Nov 16 18:05	11°  ♌27'53			2344 May 29 09:53	0°  ☾	
	2341 Dec 09 03:40	0°  ♍			2344 Jun 23 03:58	0°  Ω	
morning max el	2341 Dec 16 05:27	7°  ♍00'44	46°50'53		2344 Jul 18 05:51	0°  ♍	
	2342 Jan 06 13:42	0°  ♊			2344 Aug 12 19:54	0°  ♌	
	2342 Feb 01 11:52	0°  3		desc. node	2344 Aug 23 02:36	11°  ♌48'34	
	2342 Feb 26 13:15	0°  ≈			2344 Sep 08 07:07	0°  ♍	
desc. node	2342 Mar 08 07:38	11°  ≈49'44			2344 Oct 06 16:38	0°  ♊	
	2342 Mar 23 06:11	0°  ✕		evening max el	2344 Oct 08 13:11	1°  ♊49'48	46°39'03
	2342 Apr 16 19:49	0°  Υ			2344 Nov 13 08:45	0°  3	
	2342 May 11 08:35	0°  8		greatest brilliancy	2344 Nov 17 22:00	1°  353'11	-4.9m
	2342 Jun 04 21:11	0°  II		retrograde	2344 Nov 27 12:32	3°  337'06	
morning set	2342 Jun 19 13:12	17°  II57'25			2344 Dec 11 01:09	30°  R♊	
asc. node	2342 Jun 29 10:57	0°  ☾05'51		evening set	2344 Dec 11 19:49	29°  ♊35'49	
	2342 Jun 29 09:02	0°  ☾		asc. node	2344 Dec 14 05:52	28°  ♊15'18	
	2342 Jul 23 19:08	0°  Ω		inferior conj	2344 Dec 18 01:47	25°  ♊57'39	0°59'47
max. Earth dist.	2342 Jul 24 02:00	0°  Ω21'07	1.73456 AU	minimum elong	2344 Dec 17 23:29	26°  ♊01'08	0°59'02
				min. Earth dist.	2344 Dec 18 00:28	25°  ♊59'39	0.26447 AU
superior conj	2342 Jul 26 01:17	2°  Ω46'38	0°57'40	morning rise	2344 Dec 24 02:59	22°  ♊25'25	
minimum elong	2342 Jul 25 16:31	2°  Ω19'40	0°57'20	direct	2345 Jan 07 11:09	18°  ♊19'50	
	2342 Aug 17 03:03	0°  ♍		greatest brilliancy	2345 Jan 17 13:36	20°  ♊15'34	-4.9m
evening rise	2342 Aug 30 23:34	17°  ♍07'21			2345 Feb 03 07:16	0°  3	
	2342 Sep 10 09:25	0°  ♌		morning max el	2345 Feb 26 19:56	21°  306'23	46°49'21
	2342 Oct 04 15:25	0°  ♍			2345 Mar 07 11:28	0°  ≈	
desc. node	2342 Oct 19 00:32	17°  ♍46'32			2345 Apr 03 17:53	0°  ✕	
	2342 Oct 28 22:04	0°  ♊		desc. node	2345 Apr 04 19:38	1°  ✕13'15	
	2342 Nov 22 06:12	0°  3			2345 Apr 29 16:10	0°  Υ	
	2342 Dec 16 17:36	0°  ≈			2345 May 25 01:05	0°  8	
	2343 Jan 10 13:15	0°  ✕			2345 Jun 19 02:52	0°  II	
	2343 Feb 05 04:53	0°  Υ			2345 Jul 13 23:11	0°  ☾	
asc. node	2343 Feb 09 03:36	4°  Υ27'56		asc. node	2345 Jul 26 22:50	15°  ☾47'29	
	2343 Mar 04 23:34	0°  8			2345 Aug 07 13:51	0°  Ω	
evening max el	2343 Mar 05 09:21	0°  824'31	46°31'00	morning set	2345 Aug 26 09:13	23°  Ω07'15	
	2343 Apr 12 20:48	0°  II			2345 Aug 31 22:52	0°  ♍	
greatest brilliancy	2343 Apr 13 12:01	0°  II14'50	-4.8m		2345 Sep 25 03:11	0°  ♌	
retrograde	2343 Apr 24 07:39	2°  II23'53		max. Earth dist.	2345 Sep 28 22:11	4°  ♌43'19	1.72271 AU
	2343 May 05 05:22	30°  R8					
evening set	2343 May 10 01:20	27°  833'06		superior conj	2345 Oct 02 05:26	8°  ♌50'15	1°20'35
inferior conj	2343 May 15 14:52	24°  809'10	3°43'15	minimum elong	2345 Oct 02 11:21	9°  ♌08'38	1°20'30
minimum elong	2343 May 15 22:22	23°  857'21	3°41'14		2345 Oct 19 04:27	0°  ♍	
min. Earth dist.	2343 May 15 14:14	24°  810'10	0.28627 AU	evening rise	2345 Nov 09 22:33	27°  ♍11'59	
morning rise	2343 May 21 19:52	20°  824'43			2345 Nov 12 04:17	0°  ♊	
desc. node	2343 May 31 16:57	16°  831'12		desc. node	2345 Nov 15 12:23	4°  ♊10'34	

	2345 Dec 06 03:41	0°☾			2348 Jul 01 17:45	0°☿	
	2345 Dec 30 03:38	0°♊			2348 Jul 27 14:35	0°♋	
	2346 Jan 23 05:58	0°♌			2348 Aug 21 19:34	0°♍	
	2346 Feb 16 14:12	0°♎		asc. node	2348 Aug 23 10:43	1°♎57'52	
asc. node	2346 Mar 08 15:36	24°♏18'01			2348 Sep 15 12:16	0°♐	
	2346 Mar 13 10:08	0°♑			2348 Oct 09 19:36	0°♑	
	2346 Apr 08 03:36	0°♒			2348 Nov 02 20:44	0°♒	
	2346 May 05 17:10	0°♓		morning set	2348 Nov 04 18:40	2°♒23'48	
evening max el	2346 May 15 00:44	9°♓18'08 45°32'37			2348 Nov 26 18:34	0°♓	
	2346 Jun 08 12:35	0°♈		desc. node	2348 Dec 13 00:09	20°♓24'30	
greatest brilliancy	2346 Jun 21 23:17	7°♈14'53 -4.7m					
desc. node	2346 Jun 28 04:59	8°♈57'55		superior conj	2348 Dec 14 18:57	22°♓39'06 -0°04'18	
retrograde	2346 Jul 02 19:05	9°♈21'52		minimum elong	2348 Dec 14 17:49	22°♓35'30 0°04'15	
evening set	2346 Jul 18 13:32	4°♈36'54		behind sun begin	2348 Dec 13 16:21	21°♓15'27	
inferior conj	2346 Jul 24 07:35	1°♈09'18 -5°38'32		behind sun end	2348 Dec 15 19:16	23°♓55'35	
minimum elong	2346 Jul 23 21:50	1°♈24'31 5°36'21		max. Earth dist.	2348 Dec 14 10:58	22°♓13'58 1.71128 AU	
min. Earth dist.	2346 Jul 24 05:51	1°♈12'00 0.29022 AU			2348 Dec 20 15:07	0°♓	
	2346 Jul 26 04:05	30°♋☾			2349 Jan 13 11:34	0°♊	
morning rise	2346 Jul 29 05:57	28°☾08'48		evening rise	2349 Jan 25 04:23	14°♊42'08	
direct	2346 Aug 14 22:14	22°☾51'27			2349 Feb 06 09:08	0°♌	
greatest brilliancy	2346 Aug 25 12:01	24°☾51'41 -4.7m			2349 Mar 02 09:42	0°♍	
	2346 Sep 04 20:09	0°♈			2349 Mar 26 15:44	0°♌	
morning max el	2346 Oct 03 06:28	23°♈30'26 46°07'53		asc. node	2349 Apr 05 03:32	11°♌38'05	
	2346 Oct 09 18:06	0°♎			2349 Apr 20 06:04	0°♒	
asc. node	2346 Oct 19 08:23	10°♎04'49			2349 May 15 08:16	0°☾	
	2346 Nov 06 06:12	0°♑			2349 Jun 10 04:50	0°♈	
	2346 Dec 01 18:34	0°♒			2349 Jul 07 11:54	0°♎	
	2346 Dec 26 10:21	0°♓		evening max el	2349 Jul 25 03:57	17°♎48'33 45°35'01	
	2347 Jan 19 17:00	0°♓		desc. node	2349 Jul 25 16:53	18°♎19'21	
desc. node	2347 Feb 07 21:52	23°♓52'00			2349 Aug 07 18:24	0°♑	
	2347 Feb 12 20:06	0°♊		greatest brilliancy	2349 Sep 02 12:33	15°♑53'52 -4.8m	
	2347 Mar 08 22:28	0°♌		retrograde	2349 Sep 11 20:59	17°♑28'19	
	2347 Apr 02 01:44	0°♍		evening set	2349 Sep 29 14:29	11°♑36'28	
morning set	2347 Apr 08 18:19	8°♍18'04		inferior conj	2349 Oct 02 22:48	9°♑34'16 -8°18'42	
	2347 Apr 26 06:56	0°♌		minimum elong	2349 Oct 03 05:10	9°♑24'28 8°18'05	
				min. Earth dist.	2349 Oct 03 19:17	9°♑02'42 0.28020 AU	
superior conj	2347 May 16 20:10	25°♌22'00 -0°35'14		morning rise	2349 Oct 06 19:36	7°♑13'13	
minimum elong	2347 May 17 03:18	25°♌43'59 0°34'55		direct	2349 Oct 24 04:25	1°♑29'44	
max. Earth dist.	2347 May 18 18:07	27°♌43'32 1.73226 AU		greatest brilliancy	2349 Nov 04 06:55	3°♑47'42 -4.9m	
	2347 May 20 14:26	0°♒		asc. node	2349 Nov 15 20:00	10°♑06'39	
asc. node	2347 Jun 01 01:09	14°♒05'10			2349 Dec 09 04:19	0°♒	
	2347 Jun 13 23:52	0°☾		morning max el	2349 Dec 13 19:21	4°♒37'46 46°49'56	
evening rise	2347 Jun 22 19:38	10°☾50'01			2350 Jan 06 06:32	0°♓	
	2347 Jul 08 10:41	0°♈			2350 Feb 01 02:03	0°♓	
	2347 Aug 01 22:58	0°♎			2350 Feb 26 02:08	0°♊	
	2347 Aug 26 13:43	0°♑		desc. node	2350 Mar 07 09:44	11°♊17'59	
	2347 Sep 20 08:37	0°♒			2350 Mar 22 18:17	0°♌	
desc. node	2347 Sep 20 14:41	0°♒18'15			2350 Apr 16 07:25	0°♍	
	2347 Oct 15 09:55	0°♓			2350 May 10 19:49	0°♌	
	2347 Nov 09 22:03	0°♓			2350 Jun 04 08:09	0°♒	
	2347 Dec 06 10:14	0°♊		morning set	2350 Jun 17 07:04	15°♒51'55	
evening max el	2347 Dec 21 05:15	15°♊40'31 47°17'40		asc. node	2350 Jun 28 13:03	29°♒39'14	
	2348 Jan 05 03:18	0°♌			2350 Jun 28 19:50	0°☾	
asc. node	2348 Jan 11 17:51	5°♌36'16		max. Earth dist.	2350 Jul 21 21:30	28°☾20'27 1.73475 AU	
greatest brilliancy	2348 Jan 30 20:59	17°♌23'30 -4.9m			2350 Jul 23 05:52	0°♈	
retrograde	2348 Feb 10 05:04	19°♌26'28					
evening set	2348 Feb 27 22:45	13°♌18'30		superior conj	2350 Jul 23 19:38	0°♈42'21 0°55'18	
min. Earth dist.	2348 Mar 01 08:44	11°♌49'05 0.27519 AU		minimum elong	2350 Jul 23 10:57	0°♈15'39 0°54'59	
inferior conj	2348 Mar 02 01:33	11°♌22'51 8°48'34			2350 Aug 16 13:51	0°♎	
minimum elong	2348 Mar 01 22:54	11°♌26'59 8°48'28		evening rise	2350 Aug 28 17:13	14°♎59'50	
morning rise	2348 Mar 04 23:15	9°♌35'22			2350 Sep 09 20:24	0°♑	
direct	2348 Mar 22 17:59	3°♌30'19			2350 Oct 04 02:41	0°♒	
greatest brilliancy	2348 Mar 31 19:50	5°♌03'15 -4.8m		desc. node	2350 Oct 18 02:30	17°♒17'18	
desc. node	2348 May 02 07:14	26°♌11'48			2350 Oct 28 09:41	0°♓	
	2348 May 06 10:36	0°♍			2350 Nov 21 18:14	0°♓	
morning max el	2348 May 11 04:46	4°♍32'04 46°06'40			2350 Dec 16 06:15	0°♊	
	2348 Jun 04 19:58	0°♌			2351 Jan 10 02:57	0°♌	

	2351 Feb 04 20:44	0°♊		2353 Jul 13 10:26	0°♊	
asc. node	2351 Feb 08 05:43	3°♊48'04	asc. node	2353 Jul 26 00:58	15°♊19'59	
evening max el	2351 Mar 03 00:04	28°♊06'44 46°33'12		2353 Aug 07 00:53	0°♊	
	2351 Mar 04 21:34	0°♋	morning set	2353 Aug 24 02:34	20°♊58'54	
greatest brilliancy	2351 Apr 11 05:39	28°♋04'24 -4.8m		2353 Aug 31 09:49	0°♋	
	2351 Apr 18 18:08	0°♌		2353 Sep 24 14:08	0°♌	
retrograde	2351 Apr 21 23:25	0°♌12'07	max. Earth dist.	2353 Sep 26 16:09	2°♌35'41 1.72322 AU	
	2351 Apr 25 03:33	30°♌♋				
evening set	2351 May 07 19:50	25°♌18'19	superior conj	2353 Sep 29 21:25	6°♌36'17 1°21'36	
inferior conj	2351 May 13 07:00	21°♌57'42 4°01'40	minimum elong	2353 Sep 30 02:39	6°♌52'35 1°21'31	
minimum elong	2351 May 13 14:58	21°♌45'08 3°59'32		2353 Oct 18 15:30	0°♍	
min. Earth dist.	2351 May 13 06:42	21°♌58'11 0.28604 AU	evening rise	2353 Nov 07 11:20	24°♍46'56	
morning rise	2351 May 19 10:30	18°♌14'56		2353 Nov 11 15:28	0°♎	
desc. node	2351 May 30 19:01	14°♌04'15	desc. node	2353 Nov 14 14:25	3°♎41'47	
direct	2351 Jun 03 16:09	13°♌46'28		2353 Dec 05 15:05	0°♏	
greatest brilliancy	2351 Jun 13 15:23	15°♌34'21 -4.7m		2353 Dec 29 15:16	0°♏	
	2351 Jul 07 04:26	0°♐		2354 Jan 22 17:53	0°♐	
morning max el	2351 Jul 22 08:55	13°♐28'49 45°43'00		2354 Feb 16 02:32	0°♑	
	2351 Aug 07 20:28	0°♑	asc. node	2354 Mar 07 17:37	23°♑45'22	
	2351 Sep 04 06:04	0°♒		2354 Mar 12 23:16	0°♒	
asc. node	2351 Sep 20 22:36	19°♒16'31		2354 Apr 07 18:26	0°♓	
	2351 Sep 30 00:37	0°♓		2354 May 05 12:33	0°♓	
	2351 Oct 24 21:17	0°♔	evening max el	2354 May 12 16:55	7°♓07'50 45°33'56	
	2351 Nov 18 05:02	0°♕		2354 Jun 09 12:12	0°♔	
	2351 Dec 12 05:51	0°♖	greatest brilliancy	2354 Jun 19 14:03	5°♔04'30 -4.7m	
	2352 Jan 05 03:35	0°♗	desc. node	2354 Jun 27 07:06	7°♔01'31	
desc. node	2352 Jan 10 12:03	6°♗43'31	retrograde	2354 Jun 30 12:00	7°♔13'19	
morning set	2352 Jan 20 12:14	19°♗18'13	evening set	2354 Jul 16 03:43	2°♔31'03	
	2352 Jan 29 00:33	0°♘		2354 Jul 20 09:32	30°♕♑	
	2352 Feb 21 22:14	0°♙	inferior conj	2354 Jul 22 00:00	29°♑00'11 -5°23'17	
			minimum elong	2354 Jul 21 14:25	29°♑15'08 5°21'05	
superior conj	2352 Mar 01 22:14	11°♙16'13 -1°25'26	min. Earth dist.	2354 Jul 21 21:33	29°♑04'00 0.29026 AU	
minimum elong	2352 Mar 01 18:55	11°♙05'52 1°25'24	morning rise	2354 Jul 27 01:03	25°♑56'06	
max. Earth dist.	2352 Mar 05 21:02	16°♙12'39 1.71697 AU	direct	2354 Aug 12 15:07	20°♑42'17	
	2352 Mar 16 22:00	0°♚	greatest brilliancy	2354 Aug 23 03:52	22°♑42'05 -4.7m	
	2352 Apr 10 01:07	0°♛		2354 Sep 05 20:25	0°♒	
evening rise	2352 Apr 10 19:54	0°♛58'10	morning max el	2354 Sep 30 22:58	21°♒19'30 46°06'24	
asc. node	2352 May 02 15:23	27°♛53'19		2354 Oct 09 13:48	0°♓	
	2352 May 04 08:37	0°♔	asc. node	2354 Oct 18 10:21	9°♓22'42	
	2352 May 28 21:09	0°♕		2354 Nov 05 21:19	0°♔	
	2352 Jun 22 15:40	0°♒		2354 Dec 01 07:55	0°♕	
	2352 Jul 17 18:19	0°♓		2354 Dec 25 22:51	0°♖	
	2352 Aug 12 09:43	0°♔		2355 Jan 19 05:01	0°♗	
desc. node	2352 Aug 22 04:43	11°♔13'01	desc. node	2355 Feb 06 23:53	23°♗21'43	
	2352 Sep 07 23:38	0°♕		2355 Feb 12 07:47	0°♘	
evening max el	2352 Oct 06 01:23	29°♕23'51 46°36'39		2355 Mar 08 09:54	0°♙	
	2352 Oct 06 16:12	0°♖		2355 Apr 01 12:57	0°♚	
greatest brilliancy	2352 Nov 15 11:20	29°♖25'10 -4.9m	morning set	2355 Apr 06 08:27	5°♚58'23	
	2352 Nov 17 07:26	0°♗		2355 Apr 25 17:58	0°♛	
retrograde	2352 Nov 25 00:19	1°♗08'05				
	2352 Dec 02 11:46	30°♕♖	superior conj	2355 May 14 12:38	23°♛11'05 -0°38'16	
evening set	2352 Dec 09 08:19	27°♖06'00	minimum elong	2355 May 14 20:17	23°♛34'41 0°37'55	
asc. node	2352 Dec 13 08:02	24°♖50'19	max. Earth dist.	2355 May 16 14:58	25°♛46'12 1.73188 AU	
inferior conj	2352 Dec 15 13:57	23°♖28'48 0°35'05		2355 May 20 01:21	0°♔	
minimum elong	2352 Dec 15 12:36	23°♖30'52 0°34'40	asc. node	2355 May 31 03:20	13°♔38'22	
min. Earth dist.	2352 Dec 15 14:28	23°♖28'02 0.26458 AU		2355 Jun 13 10:46	0°♕	
morning rise	2352 Dec 21 16:36	19°♖54'47	evening rise	2355 Jun 20 14:18	8°♕46'32	
direct	2353 Jan 04 23:12	15°♖50'17		2355 Jul 07 21:43	0°♒	
greatest brilliancy	2353 Jan 15 04:19	17°♖48'36 -4.9m		2355 Aug 01 10:14	0°♓	
	2353 Feb 04 00:06	0°♗		2355 Aug 26 01:26	0°♔	
morning max el	2353 Feb 24 09:16	18°♗40'50 46°50'39	desc. node	2355 Sep 19 16:36	29°♔46'41	
	2353 Mar 07 07:34	0°♘		2355 Sep 19 21:01	0°♕	
	2353 Apr 03 09:22	0°♙		2355 Oct 14 23:22	0°♖	
desc. node	2353 Apr 03 21:35	0°♙34'56		2355 Nov 09 13:16	0°♗	
	2353 Apr 29 05:37	0°♚		2355 Dec 06 05:10	0°♘	
	2353 May 24 13:25	0°♛	evening max el	2355 Dec 18 20:45	13°♘19'53 47°17'44	
	2353 Jun 18 14:32	0°♔		2356 Jan 05 11:43	0°♙	

asc. node	2356 Jan 10 19:57	4° X 22'47		asc. node	2358 Jun 27 15:09	29° II 12'23	
greatest brilliancy	2356 Jan 28 10:47	14° X 58'41	-4.9m		2358 Jun 28 06:41	0° G	
retrograde	2356 Feb 07 19:44	17° X 02'03		max. Earth dist.	2358 Jul 19 16:08	26° G 17'01	1.73491 AU
evening set	2356 Feb 25 10:20	10° X 58'04					
min. Earth dist.	2356 Feb 27 21:29	9° X 26'56	0.27466 AU	superior conj	2358 Jul 21 14:08	28° G 38'30	0°52'53
inferior conj	2356 Feb 28 15:18	8° X 59'08	8°45'38	minimum elong	2358 Jul 21 05:36	28° G 12'12	0°52'34
minimum elong	2356 Feb 28 11:48	9° X 04'36	8°45'28		2358 Jul 22 16:38	0° Ω	
morning rise	2356 Mar 02 13:30	7° X 11'01			2358 Aug 16 00:39	0° M	
direct	2356 Mar 20 07:54	1° X 07'41		evening rise	2358 Aug 26 11:12	12° M 53'32	
greatest brilliancy	2356 Mar 29 08:03	2° X 39'40	-4.8m		2358 Sep 09 07:22	0° L	
desc. node	2356 May 01 09:16	25° X 14'00			2358 Oct 03 13:55	0° M	
	2356 May 06 11:29	0° Y		desc. node	2358 Oct 17 04:36	16° M 48'32	
morning max el	2356 May 08 19:24	2° Y 14'43	46°08'10		2358 Oct 27 21:17	0° X	
	2356 Jun 04 12:39	0° B			2358 Nov 21 06:20	0° Z	
	2356 Jul 01 07:35	0° II			2358 Dec 15 19:03	0° \approx	
	2356 Jul 27 03:03	0° G			2359 Jan 09 16:54	0° X	
	2356 Aug 21 07:17	0° Ω			2359 Feb 04 13:00	0° Y	
asc. node	2356 Aug 22 12:45	1° Ω 28'46		asc. node	2359 Feb 07 07:42	3° Y 06'57	
	2356 Sep 14 23:36	0° M		evening max el	2359 Feb 28 13:40	25° Y 45'35	46°35'32
	2356 Oct 09 06:45	0° L			2359 Mar 04 20:40	0° B	
morning set	2356 Nov 02 08:35	0° M 02'20		greatest brilliancy	2359 Apr 08 22:53	25° B 52'40	-4.8m
	2356 Nov 02 07:51	0° M		retrograde	2359 Apr 19 15:04	27° B 59'33	
	2356 Nov 26 05:43	0° X		evening set	2359 May 05 14:10	23° B 02'16	
max. Earth dist.	2356 Dec 11 16:08	19° X 24'14	1.71143 AU	inferior conj	2359 May 10 22:54	19° B 45'22	4°19'45
				minimum elong	2359 May 11 07:18	19° B 32'06	4°17'34
superior conj	2356 Dec 12 05:30	20° X 06'16	-0°00'19	min. Earth dist.	2359 May 10 22:59	19° B 45'14	0.28581 AU
minimum elong	2356 Dec 12 05:24	20° X 05'56	0°00'20	morning rise	2359 May 17 00:43	16° B 04'40	
behind sun begin	2356 Dec 11 03:24	18° X 44'12		desc. node	2359 May 29 21:12	11° B 41'10	
behind sun end	2356 Dec 13 07:23	21° X 27'40		direct	2359 Jun 01 07:00	11° B 34'21	
desc. node	2356 Dec 12 02:21	19° X 56'19		greatest brilliancy	2359 Jun 11 06:58	13° B 22'33	-4.7m
	2356 Dec 20 02:18	0° Z			2359 Jul 07 11:34	0° II	
	2357 Jan 12 22:46	0° \approx		morning max el	2359 Jul 19 23:51	11° II 16'05	45°43'11
evening rise	2357 Jan 22 14:23	12° \approx 07'33			2359 Aug 07 14:02	0° G	
	2357 Feb 05 20:24	0° X			2359 Sep 03 20:06	0° Ω	
	2357 Mar 01 21:05	0° Y		asc. node	2359 Sep 20 00:36	18° Ω 44'19	
	2357 Mar 26 03:20	0° B			2359 Sep 29 13:09	0° M	
asc. node	2357 Apr 04 05:32	11° B 08'28			2359 Oct 24 09:05	0° L	
	2357 Apr 19 18:04	0° II			2359 Nov 17 16:28	0° M	
	2357 May 14 21:00	0° G			2359 Dec 11 17:05	0° X	
	2357 Jun 09 19:06	0° Ω			2360 Jan 04 14:43	0° Z	
	2357 Jul 07 05:52	0° M		desc. node	2360 Jan 09 14:04	6° Z 14'56	
evening max el	2357 Jul 22 18:09	15° M 33'01	45°33'43	morning set	2360 Jan 17 21:51	16° Z 42'40	
desc. node	2357 Jul 24 18:56	17° M 28'33			2360 Jan 28 11:37	0° \approx	
	2357 Aug 08 03:18	0° L			2360 Feb 21 09:15	0° X	
greatest brilliancy	2357 Aug 31 02:09	13° L 37'43	-4.8m				
retrograde	2357 Sep 09 10:24	15° L 12'07		superior conj	2360 Feb 28 09:30	8° X 46'56	-1°24'48
evening set	2357 Sep 27 06:41	9° L 17'25		minimum elong	2360 Feb 28 05:11	8° X 33'25	1°24'46
inferior conj	2357 Sep 30 13:26	7° L 17'24	-8°24'37	max. Earth dist.	2360 Mar 03 03:28	13° X 28'24	1.71648 AU
minimum elong	2357 Sep 30 19:04	7° L 08'40	8°24'08		2360 Mar 16 08:57	0° Y	
min. Earth dist.	2357 Oct 01 09:33	6° L 46'18	0.28085 AU	evening rise	2360 Apr 08 09:12	28° Y 36'49	
morning rise	2357 Oct 04 07:12	5° L 00'26			2360 Apr 09 12:03	0° B	
	2357 Oct 15 12:04	30° R M		asc. node	2360 May 01 17:31	27° B 26'09	
direct	2357 Oct 21 19:23	29° M 11'58			2360 May 03 19:36	0° II	
	2357 Oct 28 06:26	0° L			2360 May 28 08:21	0° G	
greatest brilliancy	2357 Nov 01 22:11	1° L 29'27	-4.8m		2360 Jun 22 03:18	0° Ω	
asc. node	2357 Nov 14 22:12	8° L 48'21			2360 Jul 17 06:44	0° M	
	2357 Dec 09 04:00	0° M			2360 Aug 11 23:31	0° L	
morning max el	2357 Dec 11 08:40	2° M 12'51	46°48'46	desc. node	2360 Aug 21 06:41	10° L 37'16	
	2358 Jan 05 23:14	0° X			2360 Sep 07 16:12	0° M	
	2358 Jan 31 16:16	0° Z		evening max el	2360 Oct 03 14:15	27° M 00'42	46°34'28
	2358 Feb 25 15:05	0° \approx			2360 Oct 06 16:27	0° X	
desc. node	2358 Mar 06 11:45	10° \approx 45'42		greatest brilliancy	2360 Nov 13 00:06	26° X 58'05	-4.9m
	2358 Mar 22 06:27	0° X		retrograde	2360 Nov 22 12:47	28° X 40'48	
	2358 Apr 15 19:03	0° Y		evening set	2360 Dec 06 21:13	24° X 37'28	
	2358 May 10 07:06	0° B		asc. node	2360 Dec 12 10:04	21° X 25'58	
	2358 Jun 03 19:11	0° II		inferior conj	2360 Dec 13 02:16	21° X 01'23	0°10'33
morning set	2358 Jun 15 00:50	13° II 45'54		minimum elong	2360 Dec 13 01:52	21° X 02'00	0°10'26

transit middle	2360 Dec 13 01:52	21° \mathbb{A} 02'00	0°10'26	max. Earth dist.	2363 May 14 12:10	23° \mathbb{C} 50'53	1.73152 AU
transit begin	2360 Dec 12 22:40	21° \mathbb{A} 06'51			2363 May 19 11:58	0° \mathbb{I}	
transit end	2360 Dec 13 05:03	20° \mathbb{A} 57'09		asc. node	2363 May 30 05:22	13° \mathbb{I} 12'03	
min. Earth dist.	2360 Dec 13 04:10	20° \mathbb{A} 58'31	0.26476 AU		2363 Jun 12 21:24	0° \mathbb{D}	
morning rise	2360 Dec 19 06:12	17° \mathbb{A} 26'04		evening rise	2363 Jun 18 08:26	6° \mathbb{D} 42'16	
direct	2361 Jan 02 11:58	13° \mathbb{A} 22'15			2363 Jul 07 08:27	0° \mathbb{J}	
greatest brilliancy	2361 Jan 12 18:35	15° \mathbb{A} 22'28	-4.9m		2363 Jul 31 21:14	0° \mathbb{K}	
	2361 Feb 04 12:16	0° \mathbb{B}			2363 Aug 25 12:52	0° \mathbb{L}	
morning max el	2361 Feb 21 23:32	16° \mathbb{B} 18'25	46°51'32	desc. node	2363 Sep 18 18:42	29° \mathbb{L} 16'31	
	2361 Mar 07 02:52	0° \mathbb{A}			2363 Sep 19 09:11	0° \mathbb{M}	
desc. node	2361 Apr 02 23:38	29° \mathbb{A} 57'36			2363 Oct 14 12:37	0° \mathbb{N}	
	2361 Apr 03 00:29	0° \mathbb{H}			2363 Nov 09 04:21	0° \mathbb{O}	
	2361 Apr 28 18:50	0° \mathbb{Y}			2363 Dec 06 00:11	0° \mathbb{A}	
	2361 May 24 01:33	0° \mathbb{B}		evening max el	2363 Dec 16 12:04	10° \mathbb{A} 59'51	47°17'47
	2361 Jun 18 02:00	0° \mathbb{I}			2364 Jan 05 22:21	0° \mathbb{H}	
	2361 Jul 12 21:28	0° \mathbb{D}		asc. node	2364 Jan 09 21:56	3° \mathbb{H} 08'16	
asc. node	2361 Jul 25 02:54	14° \mathbb{D} 52'37		greatest brilliancy	2364 Jan 26 01:09	12° \mathbb{H} 36'04	-4.9m
	2361 Aug 06 11:42	0° \mathbb{J}		retrograde	2364 Feb 05 10:09	14° \mathbb{H} 39'04	
morning set	2361 Aug 21 19:45	18° \mathbb{J} 50'51		evening set	2364 Feb 22 21:42	8° \mathbb{H} 39'59	
	2361 Aug 30 20:32	0° \mathbb{K}		min. Earth dist.	2364 Feb 25 10:32	7° \mathbb{H} 06'13	0.27407 AU
	2361 Sep 24 00:51	0° \mathbb{L}		inferior conj	2364 Feb 26 05:10	6° \mathbb{H} 37'09	8°41'52
max. Earth dist.	2361 Sep 24 09:04	0° \mathbb{L} 25'31	1.72369 AU	minimum elong	2364 Feb 26 00:49	6° \mathbb{H} 43'56	8°41'36
				morning rise	2364 Feb 29 04:11	4° \mathbb{H} 47'45	
superior conj	2361 Sep 27 13:28	4° \mathbb{L} 23'21	1°22'28		2364 Mar 10 04:13	30° \mathbb{R} \mathbb{A}	
minimum elong	2361 Sep 27 18:00	4° \mathbb{L} 37'29	1°22'25	direct	2364 Mar 17 21:40	28° \mathbb{A} 46'59	
	2361 Oct 18 02:17	0° \mathbb{M}			2364 Mar 25 21:25	0° \mathbb{H}	
evening rise	2361 Nov 05 00:22	22° \mathbb{M} 23'37		greatest brilliancy	2364 Mar 26 20:35	0° \mathbb{H} 17'58	-4.8m
	2361 Nov 11 02:23	0° \mathbb{N}		desc. node	2364 Apr 30 11:27	24° \mathbb{H} 19'17	
desc. node	2361 Nov 13 16:34	3° \mathbb{N} 14'23			2364 May 06 10:36	0° \mathbb{Y}	
	2361 Dec 05 02:09	0° \mathbb{O}		morning max el	2364 May 06 09:02	29° \mathbb{H} 56'11	46°09'28
	2361 Dec 29 02:33	0° \mathbb{A}			2364 Jun 04 04:35	0° \mathbb{B}	
	2362 Jan 22 05:28	0° \mathbb{H}			2364 Jun 30 20:58	0° \mathbb{I}	
	2362 Feb 15 14:36	0° \mathbb{Y}			2364 Jul 26 15:10	0° \mathbb{D}	
asc. node	2362 Mar 06 19:37	23° \mathbb{Y} 13'20			2364 Aug 20 18:42	0° \mathbb{J}	
	2362 Mar 12 12:12	0° \mathbb{B}		asc. node	2364 Aug 21 14:47	1° \mathbb{J} 00'32	
	2362 Apr 07 09:14	0° \mathbb{I}			2364 Sep 14 10:37	0° \mathbb{K}	
	2362 May 05 08:20	0° \mathbb{D}			2364 Oct 08 17:35	0° \mathbb{L}	
evening max el	2362 May 10 09:31	4° \mathbb{D} 58'53	45°35'15	morning set	2364 Oct 30 22:20	27° \mathbb{L} 41'20	
	2362 Jun 10 21:15	0° \mathbb{J}			2364 Nov 01 18:39	0° \mathbb{M}	
greatest brilliancy	2362 Jun 17 05:12	2° \mathbb{J} 54'45	-4.7m		2364 Nov 25 16:33	0° \mathbb{N}	
desc. node	2362 Jun 26 09:05	5° \mathbb{J} 00'43		max. Earth dist.	2364 Dec 08 19:21	16° \mathbb{N} 29'21	1.71161 AU
retrograde	2362 Jun 28 04:41	5° \mathbb{J} 04'33					
evening set	2362 Jul 13 17:50	0° \mathbb{J} 25'12		superior conj	2364 Dec 09 16:05	17° \mathbb{N} 34'33	0°03'39
	2362 Jul 14 11:40	30° \mathbb{R} \mathbb{D}		minimum elong	2364 Dec 09 17:02	17° \mathbb{N} 37'30	0°03'36
inferior conj	2362 Jul 19 16:11	26° \mathbb{D} 51'03	-5°07'31	behind sun begin	2364 Dec 08 15:30	16° \mathbb{N} 17'15	
minimum elong	2362 Jul 19 06:49	27° \mathbb{D} 05'40	5°05'19	behind sun end	2364 Dec 10 18:33	18° \mathbb{N} 57'45	
min. Earth dist.	2362 Jul 19 12:59	26° \mathbb{D} 56'02	0.29025 AU	desc. node	2364 Dec 11 04:18	19° \mathbb{N} 28'22	
morning rise	2362 Jul 24 19:50	23° \mathbb{D} 43'21			2364 Dec 19 13:10	0° \mathbb{O}	
direct	2362 Aug 10 07:56	18° \mathbb{D} 33'22			2365 Jan 12 09:41	0° \mathbb{A}	
greatest brilliancy	2362 Aug 20 18:53	20° \mathbb{D} 31'54	-4.7m	evening rise	2365 Jan 20 00:27	9° \mathbb{A} 34'06	
	2362 Sep 06 14:01	0° \mathbb{J}			2365 Feb 05 07:20	0° \mathbb{H}	
morning max el	2362 Sep 28 14:58	19° \mathbb{J} 08'14	46°04'55		2365 Mar 01 08:06	0° \mathbb{Y}	
	2362 Oct 09 08:38	0° \mathbb{K}			2365 Mar 25 14:32	0° \mathbb{B}	
asc. node	2362 Oct 17 12:31	8° \mathbb{K} 42'23		asc. node	2365 Apr 03 07:42	10° \mathbb{B} 40'33	
	2362 Nov 05 11:55	0° \mathbb{L}			2365 Apr 19 05:40	0° \mathbb{I}	
	2362 Nov 30 20:50	0° \mathbb{M}			2365 May 14 09:25	0° \mathbb{D}	
	2362 Dec 25 10:55	0° \mathbb{N}			2365 Jun 09 09:11	0° \mathbb{J}	
	2363 Jan 18 16:35	0° \mathbb{O}			2365 Jul 06 23:59	0° \mathbb{K}	
desc. node	2363 Feb 06 01:53	22° \mathbb{O} 52'45		evening max el	2365 Jul 20 07:41	13° \mathbb{K} 16'30	45°32'22
	2363 Feb 11 19:02	0° \mathbb{A}		desc. node	2365 Jul 23 20:56	16° \mathbb{K} 37'10	
	2363 Mar 07 20:53	0° \mathbb{H}			2365 Aug 08 15:03	0° \mathbb{L}	
	2363 Mar 31 23:44	0° \mathbb{Y}		greatest brilliancy	2365 Aug 28 15:44	11° \mathbb{L} 21'57	-4.8m
morning set	2363 Apr 03 22:30	3° \mathbb{Y} 39'37		retrograde	2365 Sep 06 23:51	12° \mathbb{L} 56'37	
	2363 Apr 25 04:38	0° \mathbb{B}		evening set	2365 Sep 24 22:27	6° \mathbb{L} 59'19	
				inferior conj	2365 Sep 28 04:00	5° \mathbb{L} 01'06	-8°29'35
superior conj	2363 May 12 04:44	20° \mathbb{B} 59'58	-0°41'15	minimum elong	2365 Sep 28 08:52	4° \mathbb{L} 53'33	8°29'14
minimum elong	2363 May 12 12:53	21° \mathbb{B} 25'05	0°40'55	min. Earth dist.	2365 Sep 28 23:51	4° \mathbb{L} 30'23	0.28149 AU

morning rise	2365 Oct 01 19:01	2° Ω 48'04			2368 Apr 08 22:58	0° \mathcal{B}	
	2365 Oct 06 22:36	30° $\mathcal{R}\mathcal{M}$		asc. node	2368 Apr 30 19:34	26° \mathcal{B} 58'45	
direct	2365 Oct 19 09:56	26° \mathcal{M} 54'35			2368 May 03 06:34	0° \mathcal{I}	
greatest brilliancy	2365 Oct 30 13:46	29° \mathcal{M} 12'21 -4.8m			2368 May 27 19:31	0° \mathcal{E}	
	2365 Nov 01 11:01	0° \mathcal{E}			2368 Jun 21 14:54	0° \mathcal{Q}	
asc. node	2365 Nov 14 00:14	7° \mathcal{E} 32'39			2368 Jul 16 19:08	0° \mathcal{M}	
morning max el	2365 Dec 08 22:02	29° \mathcal{E} 48'53 46°47'42			2368 Aug 11 13:24	0° \mathcal{E}	
	2365 Dec 09 02:25	0° \mathcal{M}		desc. node	2368 Aug 20 08:46	10° \mathcal{E} 01'37	
	2366 Jan 05 15:23	0° \mathcal{A}			2368 Sep 07 09:09	0° \mathcal{M}	
	2366 Jan 31 06:05	0° \mathcal{B}		evening max el	2368 Oct 01 03:59	24° \mathcal{M} 39'29 46°32'00	
	2366 Feb 25 03:41	0° \approx			2368 Oct 06 18:09	0° \mathcal{A}	
desc. node	2366 Mar 05 13:47	10° \approx 14'23		greatest brilliancy	2368 Nov 10 12:24	24° \mathcal{A} 29'42 -4.9m	
	2366 Mar 21 18:18	0° \mathcal{H}		retrograde	2368 Nov 20 01:23	26° \mathcal{A} 12'15	
	2366 Apr 15 06:23	0° \mathcal{Y}		evening set	2368 Dec 04 10:11	22° \mathcal{A} 07'40	
	2366 May 09 18:04	0° \mathcal{B}		inferior conj	2368 Dec 10 14:20	18° \mathcal{A} 32'41 -0°14'06	
	2366 Jun 03 05:53	0° \mathcal{I}		minimum elong	2368 Dec 10 14:53	18° \mathcal{A} 31'52 0°13'56	
morning set	2366 Jun 12 18:50	11° \mathcal{I} 41'25		transit middle	2368 Dec 10 14:53	18° \mathcal{A} 31'52 0°13'56	
asc. node	2366 Jun 26 17:06	28° \mathcal{I} 45'58		transit begin	2368 Dec 10 12:37	18° \mathcal{A} 35'17	
	2366 Jun 27 17:15	0° \mathcal{E}		transit end	2368 Dec 10 17:09	18° \mathcal{A} 28'26	
max. Earth dist.	2366 Jul 17 12:07	24° \mathcal{E} 18'27 1.73513 AU		min. Earth dist.	2368 Dec 10 17:27	18° \mathcal{A} 27'58 0.26495 AU	
				asc. node	2368 Dec 11 12:01	17° \mathcal{A} 59'50	
superior conj	2366 Jul 19 08:44	26° \mathcal{E} 35'39 0°50'25		morning rise	2368 Dec 16 19:20	14° \mathcal{A} 56'21	
minimum elong	2366 Jul 19 00:22	26° \mathcal{E} 09'54 0°50'05		direct	2368 Dec 31 00:58	10° \mathcal{A} 53'10	
	2366 Jul 22 03:11	0° \mathcal{Q}		greatest brilliancy	2369 Jan 10 08:08	12° \mathcal{A} 54'28 -4.9m	
	2366 Aug 15 11:18	0° \mathcal{M}			2369 Feb 04 21:36	0° \mathcal{B}	
evening rise	2366 Aug 24 05:14	10° \mathcal{M} 47'55		morning max el	2369 Feb 19 13:51	13° \mathcal{B} 55'30 46°52'26	
	2366 Sep 08 18:12	0° \mathcal{E}			2369 Mar 06 21:49	0° \approx	
	2366 Oct 03 01:02	0° \mathcal{M}		desc. node	2369 Apr 02 01:48	29° \approx 20'32	
desc. node	2366 Oct 16 06:42	16° \mathcal{M} 20'09			2369 Apr 02 15:31	0° \mathcal{H}	
	2366 Oct 27 08:47	0° \mathcal{A}			2369 Apr 28 08:04	0° \mathcal{Y}	
	2366 Nov 20 18:20	0° \mathcal{B}			2369 May 23 13:44	0° \mathcal{B}	
	2366 Dec 15 07:47	0° \approx			2369 Jun 17 13:31	0° \mathcal{I}	
	2367 Jan 09 06:50	0° \mathcal{H}			2369 Jul 12 08:35	0° \mathcal{E}	
	2367 Feb 04 05:25	0° \mathcal{Y}		asc. node	2369 Jul 24 05:01	14° \mathcal{E} 25'38	
asc. node	2367 Feb 06 09:46	2° \mathcal{Y} 26'01			2369 Aug 05 22:35	0° \mathcal{Q}	
evening max el	2367 Feb 26 03:33	23° \mathcal{Y} 25'33 46°37'59		morning set	2369 Aug 19 13:26	16° \mathcal{Q} 44'12	
	2367 Mar 04 20:37	0° \mathcal{B}			2369 Aug 30 07:19	0° \mathcal{M}	
greatest brilliancy	2367 Apr 06 15:46	23° \mathcal{B} 41'11 -4.8m		max. Earth dist.	2369 Sep 22 01:36	28° \mathcal{M} 14'00 1.72420 AU	
retrograde	2367 Apr 17 07:15	25° \mathcal{B} 48'03			2369 Sep 23 11:41	0° \mathcal{E}	
evening set	2367 May 03 08:42	20° \mathcal{B} 46'54					
inferior conj	2367 May 08 14:55	17° \mathcal{B} 33'55 4°37'23		superior conj	2369 Sep 25 05:56	2° \mathcal{E} 11'28 1°23'12	
minimum elong	2367 May 08 23:42	17° \mathcal{B} 20'04 4°35'10		minimum elong	2369 Sep 25 09:46	2° \mathcal{E} 23'25 1°23'11	
min. Earth dist.	2367 May 08 15:07	17° \mathcal{B} 33'36 0.28555 AU			2369 Oct 17 13:14	0° \mathcal{M}	
morning rise	2367 May 14 14:58	13° \mathcal{B} 55'49		evening rise	2369 Nov 02 13:32	20° \mathcal{M} 00'06	
desc. node	2367 May 28 23:05	9° \mathcal{B} 24'11			2369 Nov 10 13:31	0° \mathcal{A}	
direct	2367 May 29 22:03	9° \mathcal{B} 23'07		desc. node	2369 Nov 12 18:33	2° \mathcal{A} 45'42	
greatest brilliancy	2367 Jun 08 22:28	11° \mathcal{B} 11'45 -4.7m			2369 Dec 04 13:31	0° \mathcal{B}	
	2367 Jul 07 16:07	0° \mathcal{I}			2369 Dec 28 14:10	0° \approx	
morning max el	2367 Jul 17 15:34	9° \mathcal{I} 06'02 45°43'19			2370 Jan 21 17:22	0° \mathcal{H}	
	2367 Aug 07 06:57	0° \mathcal{E}			2370 Feb 15 02:58	0° \mathcal{Y}	
	2367 Sep 03 09:50	0° \mathcal{Q}		asc. node	2370 Mar 05 21:46	22° \mathcal{Y} 40'48	
asc. node	2367 Sep 19 02:45	18° \mathcal{Q} 12'57			2370 Mar 12 01:29	0° \mathcal{B}	
	2367 Sep 29 01:33	0° \mathcal{M}			2370 Apr 07 00:29	0° \mathcal{I}	
	2367 Oct 23 20:50	0° \mathcal{E}			2370 May 05 05:01	0° \mathcal{E}	
	2367 Nov 17 03:53	0° \mathcal{M}		evening max el	2370 May 08 02:15	2° \mathcal{E} 49'37 45°36'39	
	2367 Dec 11 04:18	0° \mathcal{A}			2370 Jun 12 23:42	0° \mathcal{Q}	
	2368 Jan 04 01:49	0° \mathcal{B}		greatest brilliancy	2370 Jun 14 21:20	0° \mathcal{Q} 45'53 -4.7m	
desc. node	2368 Jan 08 16:04	5° \mathcal{B} 46'22		desc. node	2370 Jun 25 11:08	2° \mathcal{Q} 55'30	
morning set	2368 Jan 15 07:23	14° \mathcal{B} 07'01		retrograde	2370 Jun 25 21:17	2° \mathcal{Q} 55'42	
	2368 Jan 27 22:39	0° \approx			2370 Jul 08 02:03	30° $\mathcal{R}\mathcal{E}$	
	2368 Feb 20 20:13	0° \mathcal{H}		evening set	2370 Jul 11 08:25	28° \mathcal{E} 19'19	
				inferior conj	2370 Jul 17 08:37	24° \mathcal{E} 42'08 -4°51'31	
superior conj	2368 Feb 25 20:35	6° \mathcal{H} 17'06 -1°24'00		minimum elong	2370 Jul 16 23:32	24° \mathcal{E} 56'21 4°49'18	
minimum elong	2368 Feb 25 15:17	6° \mathcal{H} 00'28 1°23'57		min. Earth dist.	2370 Jul 17 04:59	24° \mathcal{E} 47'50 0.29018 AU	
max. Earth dist.	2368 Feb 29 09:55	10° \mathcal{H} 44'12 1.71602 AU		morning rise	2370 Jul 22 14:43	21° \mathcal{E} 30'45	
	2368 Mar 15 19:53	0° \mathcal{Y}		direct	2370 Aug 08 00:47	16° \mathcal{E} 24'49	
evening rise	2368 Apr 05 22:30	26° \mathcal{Y} 15'31		greatest brilliancy	2370 Aug 18 09:59	18° \mathcal{E} 21'45 -4.7m	

	2370 Sep 07 03:11	0°♈			2373 Feb 04 18:39	0°♏		
morning max el	2370 Sep 26 06:16	16°♈55'05	46°03'27		2373 Feb 28 19:34	0°♏		
	2370 Oct 09 03:05	0°♏			2373 Mar 25 02:14	0°♏		
asc. node	2370 Oct 16 14:32	8°♏01'47		asc. node	2373 Apr 02 09:40	10°♏10'29		
	2370 Nov 05 02:30	0°♏			2373 Apr 18 17:48	0°♏		
	2370 Nov 30 09:54	0°♏			2373 May 13 22:24	0°♏		
	2370 Dec 24 23:15	0°♏			2373 Jun 08 23:55	0°♏		
	2371 Jan 18 04:31	0°♏			2373 Jul 06 19:04	0°♏		
desc. node	2371 Feb 05 04:02	22°♏23'03		evening max el	2373 Jul 17 21:05	10°♏58'41	45°31'19	
	2371 Feb 11 06:40	0°♏		desc. node	2373 Jul 22 23:03	15°♏44'00		
	2371 Mar 07 08:16	0°♏			2373 Aug 09 07:24	0°♏		
	2371 Mar 31 10:54	0°♏		greatest brilliancy	2373 Aug 26 04:59	9°♏05'09	-4.7m	
morning set	2371 Apr 01 12:05	1°♏18'11		retrograde	2373 Sep 04 13:53	10°♏40'49		
	2371 Apr 24 15:39	0°♏		evening set	2373 Sep 22 14:04	4°♏41'02		
				inferior conj	2373 Sep 25 18:41	2°♏44'19	-8°33'49	
superior conj	2371 May 09 20:37	18°♏47'06	-0°44'13	minimum elong	2373 Sep 25 22:46	2°♏37'59	8°33'34	
minimum elong	2371 May 10 05:12	19°♏13'34	0°43'51	min. Earth dist.	2373 Sep 26 14:08	2°♏14'15	0.28211 AU	
max. Earth dist.	2371 May 12 09:33	21°♏55'02	1.73110 AU	morning rise	2373 Sep 29 07:13	0°♏35'03		
	2371 May 18 22:54	0°♏			2373 Sep 30 06:59	30°♏		
asc. node	2371 May 29 07:19	12°♏44'29		direct	2373 Oct 17 00:42	24°♏36'41		
	2371 Jun 12 08:22	0°♏		greatest brilliancy	2373 Oct 28 05:27	26°♏55'03	-4.8m	
evening rise	2371 Jun 16 02:33	4°♏36'51			2373 Nov 03 14:53	0°♏		
	2371 Jul 06 19:31	0°♏		asc. node	2373 Nov 13 02:10	6°♏18'21		
	2371 Jul 31 08:33	0°♏		morning max el	2373 Dec 06 12:30	27°♏27'10	46°46'44	
	2371 Aug 25 00:38	0°♏			2373 Dec 09 00:13	0°♏		
desc. node	2371 Sep 17 20:49	28°♏45'31			2374 Jan 05 07:28	0°♏		
	2371 Sep 18 21:39	0°♏			2374 Jan 30 20:00	0°♏		
	2371 Oct 14 02:14	0°♏			2374 Feb 24 16:29	0°♏		
	2371 Nov 08 19:56	0°♏		desc. node	2374 Mar 04 15:53	9°♏42'30		
	2371 Dec 05 20:10	0°♏			2374 Mar 21 06:26	0°♏		
evening max el	2371 Dec 14 02:14	8°♏35'36	47°17'21		2374 Apr 14 18:05	0°♏		
	2372 Jan 06 13:31	0°♏			2374 May 09 05:25	0°♏		
asc. node	2372 Jan 09 00:01	1°♏49'50			2374 Jun 02 16:59	0°♏		
greatest brilliancy	2372 Jan 23 15:54	10°♏11'35	-4.9m	morning set	2374 Jun 10 12:20	9°♏34'06		
retrograde	2372 Feb 02 23:48	12°♏13'26		asc. node	2374 Jun 25 19:13	28°♏18'55		
evening set	2372 Feb 20 08:24	6°♏19'54			2374 Jun 27 04:11	0°♏		
min. Earth dist.	2372 Feb 22 23:50	4°♏42'11	0.27352 AU	max. Earth dist.	2374 Jul 15 09:31	22°♏23'09	1.73529 AU	
inferior conj	2372 Feb 23 18:44	4°♏12'40	8°37'04					
minimum elong	2372 Feb 23 13:34	4°♏20'44	8°36'40	superior conj	2374 Jul 17 02:57	24°♏30'33	0°47'50	
morning rise	2372 Feb 26 19:00	2°♏21'15		minimum elong	2374 Jul 16 18:47	24°♏05'26	0°47'30	
	2372 Mar 01 23:32	30°♏			2374 Jul 21 14:04	0°♏		
direct	2372 Mar 15 10:31	26°♏23'32			2374 Aug 14 22:15	0°♏		
greatest brilliancy	2372 Mar 24 09:36	27°♏54'17	-4.8m	evening rise	2374 Aug 21 23:12	8°♏41'19		
	2372 Mar 29 14:19	0°♏			2374 Sep 08 05:21	0°♏		
desc. node	2372 Apr 29 13:24	23°♏23'23			2374 Oct 02 12:28	0°♏		
morning max el	2372 May 03 21:42	27°♏33'20	46°11'00	desc. node	2374 Oct 15 08:38	15°♏50'20		
	2372 May 06 09:28	0°♏			2374 Oct 26 20:34	0°♏		
	2372 Jun 03 20:47	0°♏			2374 Nov 20 06:36	0°♏		
	2372 Jun 30 10:39	0°♏			2374 Dec 14 20:46	0°♏		
	2372 Jul 26 03:35	0°♏			2375 Jan 08 21:03	0°♏		
	2372 Aug 20 06:25	0°♏			2375 Feb 03 22:16	0°♏		
asc. node	2372 Aug 20 16:53	0°♏31'33		asc. node	2375 Feb 05 11:52	1°♏44'19		
	2372 Sep 13 21:57	0°♏		evening max el	2375 Feb 23 18:07	21°♏06'43	46°40'16	
	2372 Oct 08 04:44	0°♏			2375 Mar 04 21:59	0°♏		
morning set	2372 Oct 28 12:45	25°♏21'33		greatest brilliancy	2375 Apr 04 07:52	21°♏27'43	-4.8m	
	2372 Nov 01 05:44	0°♏		retrograde	2375 Apr 14 23:42	23°♏35'11		
	2372 Nov 25 03:40	0°♏		evening set	2375 May 01 03:10	18°♏29'54		
max. Earth dist.	2372 Dec 06 01:13	13°♏41'59	1.71186 AU	inferior conj	2375 May 06 06:46	15°♏20'51	4°54'48	
				minimum elong	2375 May 06 15:53	15°♏06'30	4°52'32	
superior conj	2372 Dec 07 03:20	15°♏04'03	0°07'31	min. Earth dist.	2375 May 06 06:46	15°♏20'51	0.28536 AU	
minimum elong	2372 Dec 07 05:16	15°♏10'10	0°07'25	morning rise	2375 May 12 04:53	11°♏45'47		
behind sun begin	2372 Dec 06 05:54	13°♏56'42		direct	2375 May 27 13:23	7°♏10'16		
behind sun end	2372 Dec 08 04:39	16°♏23'38		desc. node	2375 May 28 01:11	7°♏10'33		
desc. node	2372 Dec 10 06:20	18°♏59'49		greatest brilliancy	2375 Jun 06 13:26	8°♏58'59	-4.7m	
	2372 Dec 19 00:20	0°♏			2375 Jul 07 19:29	0°♏		
	2373 Jan 11 20:54	0°♏		morning max el	2375 Jul 15 08:05	6°♏56'48	45°43'30	
evening rise	2373 Jan 17 10:46	7°♏00'25			2375 Aug 06 23:55	0°♏		

	2375 Sep 02 23:44	0°♌			2378 May 05 02:12	0°♊	
asc. node	2375 Sep 18 04:45	17°♌40'38		evening max el	2378 May 05 18:22	0°♊39'20	45°38'01
	2375 Sep 28 14:06	0°♍		greatest brilliancy	2378 Jun 12 13:50	28°♊37'53	-4.7m
	2375 Oct 23 08:44	0°♎			2378 Jun 17 00:42	0°♌	
	2375 Nov 16 15:25	0°♏		retrograde	2378 Jun 23 13:18	0°♌47'19	
	2375 Dec 10 15:39	0°♐		desc. node	2378 Jun 24 13:14	0°♌46'10	
	2376 Jan 03 13:02	0°♑			2378 Jun 29 20:58	30°♋♊	
desc. node	2376 Jan 07 18:12	5°♑17'53		evening set	2378 Jul 08 23:07	26°♊13'38	
morning set	2376 Jan 12 17:20	11°♑32'16		inferior conj	2378 Jul 15 01:04	22°♊33'46	-4°35'00
	2376 Jan 27 09:47	0°♒		minimum elong	2378 Jul 14 16:18	22°♊47'30	4°32'50
	2376 Feb 20 07:16	0°♓		min. Earth dist.	2378 Jul 14 21:22	22°♊39'34	0.29016 AU
				morning rise	2378 Jul 20 09:33	19°♊18'36	
superior conj	2376 Feb 23 07:52	3°♓47'30	-1°23'02	direct	2378 Aug 05 17:14	14°♊16'37	
minimum elong	2376 Feb 23 01:35	3°♓27'49	1°22'57	greatest brilliancy	2378 Aug 16 01:41	16°♊12'27	-4.7m
max. Earth dist.	2376 Feb 26 19:10	8°♓08'26	1.71557 AU		2378 Sep 07 12:52	0°♌	
	2376 Mar 15 06:52	0°♍		morning max el	2378 Sep 23 20:54	14°♌40'26	46°02'00
evening rise	2376 Apr 03 11:56	23°♍54'20			2378 Oct 08 21:02	0°♍	
	2376 Apr 08 09:57	0°♎		asc. node	2378 Oct 15 16:31	7°♍21'38	
asc. node	2376 Apr 29 21:31	26°♎30'44			2378 Nov 04 16:51	0°♎	
	2376 May 02 17:40	0°♏			2378 Nov 29 22:47	0°♏	
	2376 May 27 06:52	0°♐			2378 Dec 24 11:23	0°♐	
	2376 Jun 21 02:44	0°♑			2379 Jan 17 16:12	0°♑	
	2376 Jul 16 07:48	0°♒		desc. node	2379 Feb 04 06:01	21°♑53'37	
	2376 Aug 11 03:37	0°♓			2379 Feb 10 18:03	0°♒	
desc. node	2376 Aug 19 10:52	9°♓25'12			2379 Mar 06 19:24	0°♓	
	2376 Sep 07 02:36	0°♏		morning set	2379 Mar 30 01:34	28°♓57'04	
evening max el	2376 Sep 28 18:21	22°♏19'43	46°29'38		2379 Mar 30 21:50	0°♍	
	2376 Oct 06 21:26	0°♐			2379 Apr 24 02:25	0°♎	
greatest brilliancy	2376 Nov 08 00:49	22°♐01'41	-4.9m				
retrograde	2376 Nov 17 13:55	23°♐43'36		superior conj	2379 May 07 12:36	16°♎35'19	-0°47'06
evening set	2376 Dec 01 23:27	19°♐37'50		minimum elong	2379 May 07 21:34	17°♎02'58	0°46'43
inferior conj	2376 Dec 08 02:27	16°♐04'04	-0°38'47	max. Earth dist.	2379 May 10 05:40	19°♎56'00	1.73063 AU
minimum elong	2376 Dec 08 03:57	16°♐01'48	0°38'18		2379 May 18 09:36	0°♏	
min. Earth dist.	2376 Dec 08 06:46	15°♐57'31	0.26515 AU	asc. node	2379 May 28 09:29	12°♏18'21	
asc. node	2376 Dec 10 14:11	14°♐34'03			2379 Jun 11 19:03	0°♐	
morning rise	2376 Dec 14 08:14	12°♐26'47		evening rise	2379 Jun 13 20:44	2°♐32'30	
direct	2376 Dec 28 14:05	8°♐24'18			2379 Jul 06 06:19	0°♑	
greatest brilliancy	2377 Jan 07 21:31	10°♐26'06	-4.9m		2379 Jul 30 19:39	0°♒	
	2377 Feb 05 04:25	0°♑			2379 Aug 24 12:14	0°♓	
morning max el	2377 Feb 17 03:51	11°♑31'47	46°53'21	desc. node	2379 Sep 16 22:44	28°♓14'18	
	2377 Mar 06 16:15	0°♒			2379 Sep 18 10:01	0°♏	
desc. node	2377 Apr 01 03:44	28°♒43'18			2379 Oct 13 15:47	0°♐	
	2377 Apr 02 06:17	0°♓			2379 Nov 08 11:34	0°♑	
	2377 Apr 27 21:06	0°♍			2379 Dec 05 16:30	0°♒	
	2377 May 23 01:47	0°♎		evening max el	2379 Dec 11 15:31	6°♒09'46	47°17'04
	2377 Jun 11 00:58	0°♏			2380 Jan 07 09:18	0°♓	
	2377 Jul 11 19:41	0°♐		asc. node	2380 Jan 08 02:05	0°♓29'45	
asc. node	2377 Jul 23 07:05	13°♐58'27		greatest brilliancy	2380 Jan 21 06:53	7°♓48'06	-4.9m
	2377 Aug 05 09:29	0°♑		retrograde	2380 Jan 31 13:12	9°♓48'45	
morning set	2377 Aug 17 06:54	14°♑36'51		evening set	2380 Feb 17 18:48	4°♓01'02	
	2377 Aug 29 18:09	0°♒		min. Earth dist.	2380 Feb 20 13:24	2°♓18'41	0.27297 AU
max. Earth dist.	2377 Sep 19 15:41	25°♒54'55	1.72469 AU	inferior conj	2380 Feb 21 08:19	1°♓49'08	8°31'16
				minimum elong	2380 Feb 21 02:23	1°♓58'25	8°30'43
superior conj	2377 Sep 22 22:18	29°♒59'21	1°23'49	morning rise	2380 Feb 24 10:12	29°♓55'15	
minimum elong	2377 Sep 23 01:25	0°♓09'01	1°23'47		2380 Feb 24 07:03	30°♓♒	
	2377 Sep 22 22:31	0°♏		direct	2380 Mar 12 22:59	24°♓00'46	
	2377 Oct 17 00:10	0°♏		greatest brilliancy	2380 Mar 21 23:10	25°♓32'04	-4.8m
evening rise	2377 Oct 31 02:38	17°♏36'34			2380 Mar 31 14:42	0°♓	
	2377 Nov 10 00:36	0°♐		desc. node	2380 Apr 28 15:28	22°♓29'54	
desc. node	2377 Nov 11 20:34	2°♐17'21		morning max el	2380 May 01 10:29	25°♓11'36	46°12'38
	2377 Dec 04 00:49	0°♑			2380 May 06 07:02	0°♍	
	2377 Dec 28 01:42	0°♒			2380 Jun 03 12:19	0°♎	
	2378 Jan 21 05:12	0°♓			2380 Jun 29 23:50	0°♏	
	2378 Feb 14 15:17	0°♍			2380 Jul 25 15:34	0°♐	
asc. node	2378 Mar 04 23:44	22°♍08'01		asc. node	2380 Aug 19 18:53	0°♑03'25	
	2378 Mar 11 14:44	0°♎			2380 Aug 19 17:44	0°♒	
	2378 Apr 06 15:46	0°♏			2380 Sep 13 08:56	0°♓	

	2380 Oct 07 15:35	0°♄			2383 Mar 05 00:32	0°♄	
morning set	2380 Oct 26 03:00	23°♄02'05		greatest brilliancy	2383 Apr 01 23:52	19°♄14'49	-4.8m
	2380 Oct 31 16:35	0°♍		retrograde	2383 Apr 12 16:29	21°♄22'49	
	2380 Nov 24 14:33	0°♊		evening set	2383 Apr 28 21:43	16°♄13'31	
max. Earth dist.	2380 Dec 03 08:29	10°♊59'41	1.71212 AU	inferior conj	2383 May 03 22:34	13°♄08'24	5°11'47
				minimum elong	2383 May 04 08:00	12°♄53'36	5°09'30
superior conj	2380 Dec 04 14:15	12°♊33'16	0°11'24	min. Earth dist.	2383 May 03 22:05	13°♄09'10	0.28509 AU
minimum elong	2380 Dec 04 17:11	12°♊42'29	0°11'15	morning rise	2383 May 09 18:36	9°♄36'38	
behind sun begin	2380 Dec 03 22:13	11°♊42'51		direct	2383 May 25 05:03	4°♄58'16	
behind sun end	2380 Dec 05 12:09	13°♊42'07		desc. node	2383 May 27 03:21	5°♄02'36	
desc. node	2380 Dec 09 08:30	18°♊32'23		greatest brilliancy	2383 Jun 04 03:43	6°♄46'18	-4.7m
	2380 Dec 18 11:15	0°♋			2383 Jul 07 20:54	0°♋	
	2381 Jan 11 07:51	0°♌		morning max el	2383 Jul 13 00:56	4°♋49'27	45°43'43
evening rise	2381 Jan 14 20:46	4°♌26'41			2383 Aug 06 16:10	0°♌	
	2381 Feb 04 05:40	0°♍			2383 Sep 02 13:09	0°♍	
	2381 Feb 28 06:42	0°♎		asc. node	2383 Sep 17 06:45	17°♍09'30	
	2381 Mar 24 13:37	0°♏			2383 Sep 28 02:15	0°♎	
asc. node	2381 Apr 01 11:41	9°♏41'34			2383 Oct 22 20:15	0°♏	
	2381 Apr 18 05:36	0°♐			2383 Nov 16 02:37	0°♐	
	2381 May 13 11:04	0°♑			2383 Dec 10 02:41	0°♑	
	2381 Jun 08 14:24	0°♒			2384 Jan 03 00:01	0°♒	
	2381 Jul 06 14:12	0°♓		desc. node	2384 Jan 06 20:14	4°♓49'48	
evening max el	2381 Jul 15 11:17	8°♓44'16	45°30'23	morning set	2384 Jan 10 03:16	8°♓58'11	
desc. node	2381 Jul 22 01:06	14°♓51'00			2384 Jan 26 20:43	0°♐	
	2381 Aug 10 04:27	0°♑			2384 Feb 19 18:10	0°♍	
greatest brilliancy	2381 Aug 23 17:31	6°♑49'19	-4.7m				
retrograde	2381 Sep 02 04:28	8°♑26'44		superior conj	2384 Feb 20 18:35	1°♍16'33	-1°21'53
evening set	2381 Sep 20 05:24	2°♑24'50		minimum elong	2384 Feb 20 11:24	0°♍54'01	1°21'46
inferior conj	2381 Sep 23 09:28	0°♑29'03	-8°37'05	max. Earth dist.	2384 Feb 24 05:03	5°♍34'56	1.71515 AU
minimum elong	2381 Sep 23 12:46	0°♑23'57	8°36'55		2384 Mar 14 17:43	0°♎	
min. Earth dist.	2381 Sep 24 04:08	0°♑00'14	0.28276 AU	evening rise	2384 Apr 01 00:45	21°♎31'35	
	2381 Sep 24 04:17	30°♎00'14			2384 Apr 07 20:47	0°♏	
morning rise	2381 Sep 26 19:52	28°♎23'06		asc. node	2384 Apr 28 23:41	26°♏03'53	
direct	2381 Oct 14 16:06	22°♎20'21			2384 May 02 04:34	0°♐	
greatest brilliancy	2381 Oct 25 20:52	24°♎38'57	-4.8m		2384 May 26 18:02	0°♑	
	2381 Nov 05 00:18	0°♑			2384 Jun 20 14:22	0°♒	
asc. node	2381 Nov 12 04:22	5°♑07'41			2384 Jul 15 20:18	0°♓	
morning max el	2381 Dec 04 03:57	25°♑08'58	46°45'31		2384 Aug 10 17:43	0°♏	
	2381 Dec 08 20:59	0°♒		desc. node	2384 Aug 18 12:50	8°♏48'57	
	2382 Jan 04 23:06	0°♊			2384 Sep 06 20:06	0°♍	
	2382 Jan 30 09:36	0°♋		evening max el	2384 Sep 26 08:52	20°♍01'27	46°27'15
	2382 Feb 24 04:59	0°♌			2384 Oct 07 01:56	0°♊	
desc. node	2382 Mar 03 17:53	9°♌11'15		greatest brilliancy	2384 Nov 05 13:56	19°♊36'12	-4.9m
	2382 Mar 20 18:14	0°♍		retrograde	2384 Nov 15 02:12	21°♊16'47	
	2382 Apr 14 05:24	0°♎		evening set	2384 Nov 29 13:14	17°♊09'48	
	2382 May 08 16:23	0°♏		inferior conj	2384 Dec 05 14:53	13°♊37'30	-1°03'05
	2382 Jun 02 03:42	0°♐		minimum elong	2384 Dec 05 17:18	13°♊33'50	1°02'18
morning set	2382 Jun 08 05:58	7°♐28'17		min. Earth dist.	2384 Dec 05 20:35	13°♊28'49	0.26539 AU
asc. node	2382 Jun 24 21:18	27°♐52'51		asc. node	2384 Dec 09 16:11	11°♊12'22	
	2382 Jun 26 14:45	0°♑		morning rise	2384 Dec 11 21:08	9°♊59'16	
max. Earth dist.	2382 Jul 13 08:15	20°♑33'05	1.73542 AU	direct	2384 Dec 26 03:15	5°♊57'26	
				greatest brilliancy	2385 Jan 05 11:31	7°♊59'49	-4.9m
superior conj	2382 Jul 14 21:24	22°♑27'17	0°45'12		2385 Feb 05 08:48	0°♒	
minimum elong	2382 Jul 14 13:29	22°♑02'56	0°44'53	morning max el	2385 Feb 14 17:06	9°♒06'42	46°53'55
	2382 Jul 21 00:35	0°♒			2385 Mar 06 10:04	0°♋	
	2382 Aug 14 08:51	0°♓		desc. node	2385 Mar 31 05:50	28°♋07'06	
evening rise	2382 Aug 19 17:36	6°♓37'12			2385 Apr 01 20:48	0°♌	
	2382 Sep 07 16:08	0°♑			2385 Apr 27 10:00	0°♎	
	2382 Oct 01 23:32	0°♒			2385 May 22 13:44	0°♏	
desc. node	2382 Oct 14 10:46	15°♒22'12			2385 Jun 16 12:19	0°♐	
	2382 Oct 26 08:03	0°♊			2385 Jul 11 06:38	0°♑	
	2382 Nov 19 18:38	0°♋		asc. node	2385 Jul 22 09:03	13°♑31'25	
	2382 Dec 14 09:36	0°♌			2385 Aug 04 20:14	0°♒	
	2383 Jan 08 11:13	0°♍		morning set	2385 Aug 15 00:25	12°♒30'09	
	2383 Feb 03 15:16	0°♎			2385 Aug 29 04:49	0°♓	
asc. node	2383 Feb 04 13:51	1°♎02'18		max. Earth dist.	2385 Sep 17 05:16	23°♓34'48	1.72518 AU
evening max el	2383 Feb 21 09:42	18°♎50'53	46°42'43				

superior conj	2385 Sep 20 15:01	27° \cap 48'50	1°24'18	direct	2388 Mar 10 11:28	21° \approx 37'48	
minimum elong	2385 Sep 20 17:23	27° \cap 56'11	1°24'17	greatest brilliancy	2388 Mar 19 12:49	23° \approx 09'58	-4.8m
	2385 Sep 22 09:13	0° $\underline{\cap}$			2388 Apr 01 23:09	0° \mathbb{H}	
	2385 Oct 16 10:58	0° \cap		desc. node	2388 Apr 27 17:39	21° \mathbb{H} 37'38	
evening rise	2385 Oct 28 16:12	15° \cap 15'03		morning max el	2388 Apr 29 00:05	22° \mathbb{H} 51'32	46°14'14
	2385 Nov 09 11:34	0° \mathbb{H}			2388 May 06 03:56	0° \mathbb{Y}	
desc. node	2385 Nov 10 22:44	1° \mathbb{H} 49'49			2388 Jun 03 03:47	0° \mathbb{B}	
	2385 Dec 03 11:58	0° \mathbb{Z}			2388 Jun 29 13:08	0° \mathbb{II}	
	2385 Dec 27 13:05	0° \approx			2388 Jul 25 03:44	0° \mathbb{G}	
	2386 Jan 20 16:55	0° \mathbb{H}		asc. node	2388 Aug 18 20:57	29° \mathbb{G} 34'52	
	2386 Feb 14 03:33	0° \mathbb{Y}			2388 Aug 19 05:16	0° Ω	
asc. node	2386 Mar 04 01:46	21° \mathbb{Y} 35'22			2388 Sep 12 20:07	0° \cap	
	2386 Mar 11 04:03	0° \mathbb{B}			2388 Oct 07 02:38	0° $\underline{\cap}$	
	2386 Apr 06 07:20	0° \mathbb{II}		morning set	2388 Oct 23 17:25	20° $\underline{\cap}$ 42'43	
evening max el	2386 May 03 09:45	28° \mathbb{II} 26'52	45°39'28		2388 Oct 31 03:36	0° \cap	
	2386 May 05 00:19	0° \mathbb{G}			2388 Nov 24 01:36	0° \mathbb{H}	
greatest brilliancy	2386 Jun 10 06:34	26° \mathbb{G} 29'50	-4.7m	max. Earth dist.	2388 Nov 30 18:28	8° \mathbb{H} 25'23	1.71241 AU
retrograde	2386 Jun 21 05:09	28° \mathbb{G} 38'57					
desc. node	2386 Jun 23 15:14	28° \mathbb{G} 32'05		superior conj	2388 Dec 02 01:20	10° \mathbb{H} 02'23	0°15'15
evening set	2386 Jul 06 13:58	24° \mathbb{G} 07'30		minimum elong	2388 Dec 02 05:12	10° \mathbb{H} 14'34	0°15'03
inferior conj	2386 Jul 12 17:32	20° \mathbb{G} 25'26	-4°18'06	behind sun begin	2388 Dec 01 19:12	9° \mathbb{H} 43'06	
minimum elong	2386 Jul 12 09:09	20° \mathbb{G} 38'36	4°15'58	behind sun end	2388 Dec 02 15:13	10° \mathbb{H} 46'02	
min. Earth dist.	2386 Jul 12 14:04	20° \mathbb{G} 30'52	0.29009 AU	desc. node	2388 Dec 08 10:28	18° \mathbb{H} 03'40	
morning rise	2386 Jul 18 04:19	17° \mathbb{G} 06'39			2388 Dec 17 22:22	0° \mathbb{Z}	
direct	2386 Aug 03 09:14	12° \mathbb{G} 08'21			2389 Jan 10 19:02	0° \approx	
greatest brilliancy	2386 Aug 13 17:57	14° \mathbb{G} 03'51	-4.7m	evening rise	2389 Jan 12 06:59	1° \approx 52'55	
	2386 Sep 07 19:51	0° Ω			2389 Feb 03 16:56	0° \mathbb{H}	
morning max el	2386 Sep 21 11:14	12° Ω 25'18	46°00'39		2389 Feb 27 18:05	0° \mathbb{Y}	
	2386 Oct 08 14:32	0° \cap			2389 Mar 24 01:12	0° \mathbb{B}	
asc. node	2386 Oct 14 18:42	6° \cap 42'37		asc. node	2389 Mar 31 13:51	9° \mathbb{B} 12'28	
	2386 Nov 04 07:01	0° $\underline{\cap}$			2389 Apr 17 17:40	0° \mathbb{II}	
	2386 Nov 29 11:33	0° \cap			2389 May 13 00:03	0° \mathbb{G}	
	2386 Dec 23 23:26	0° \mathbb{H}			2389 Jun 08 05:22	0° Ω	
	2387 Jan 17 03:50	0° \mathbb{Z}			2389 Jul 06 10:18	0° \cap	
desc. node	2387 Feb 03 08:03	21° \mathbb{Z} 24'27		evening max el	2389 Jul 13 02:31	6° \cap 31'31	45°29'27
	2387 Feb 10 05:22	0° \approx		desc. node	2389 Jul 21 03:06	13° \cap 55'48	
	2387 Mar 06 06:29	0° \mathbb{H}			2389 Aug 11 10:15	0° $\underline{\cap}$	
morning set	2387 Mar 27 15:01	26° \mathbb{H} 35'42		greatest brilliancy	2389 Aug 21 05:46	4° $\underline{\cap}$ 32'28	-4.7m
	2387 Mar 30 08:45	0° \mathbb{Y}		retrograde	2389 Aug 30 19:25	6° $\underline{\cap}$ 11'51	
	2387 Apr 23 13:15	0° \mathbb{B}		evening set	2389 Sep 17 20:29	0° $\underline{\cap}$ 08'35	
					2389 Sep 18 02:14	30° \mathbb{R} \cap	
superior conj	2387 May 05 04:29	14° \mathbb{B} 22'52	-0°49'54	inferior conj	2389 Sep 21 00:18	28° \cap 13'06	-8°39'28
minimum elong	2387 May 05 13:47	14° \mathbb{B} 51'34	0°49'32	minimum elong	2389 Sep 21 02:48	28° \cap 09'14	8°39'23
max. Earth dist.	2387 May 07 23:24	17° \mathbb{B} 49'22	1.73020 AU	min. Earth dist.	2389 Sep 21 17:49	27° \cap 46'04	0.28335 AU
	2387 May 17 20:23	0° \mathbb{II}		morning rise	2389 Sep 24 08:55	26° \cap 09'56	
asc. node	2387 May 27 11:31	11° \mathbb{II} 51'28		direct	2389 Oct 12 07:58	20° \cap 03'40	
	2387 Jun 11 05:51	0° \mathbb{G}		greatest brilliancy	2389 Oct 23 11:39	22° \cap 21'36	-4.8m
evening rise	2387 Jun 11 14:38	0° \mathbb{G} 26'57			2389 Nov 06 00:30	0° $\underline{\cap}$	
	2387 Jul 05 17:15	0° Ω		asc. node	2389 Nov 11 06:23	3° $\underline{\cap}$ 58'01	
	2387 Jul 30 06:52	0° \cap		morning max el	2389 Dec 01 19:49	22° $\underline{\cap}$ 51'22	46°44'12
	2387 Aug 23 23:57	0° $\underline{\cap}$			2389 Dec 08 17:19	0° \cap	
desc. node	2387 Sep 16 00:52	27° $\underline{\cap}$ 43'22			2390 Jan 04 14:43	0° \mathbb{H}	
	2387 Sep 17 22:32	0° \cap			2390 Jan 29 23:19	0° \mathbb{Z}	
	2387 Oct 13 05:33	0° \mathbb{H}			2390 Feb 23 17:40	0° \approx	
	2387 Nov 08 03:32	0° \mathbb{Z}		desc. node	2390 Mar 02 19:57	8° \approx 39'29	
	2387 Dec 05 13:37	0° \approx			2390 Mar 20 06:17	0° \mathbb{H}	
evening max el	2387 Dec 09 04:45	3° \approx 43'39	47°16'46		2390 Apr 13 16:59	0° \mathbb{Y}	
asc. node	2388 Jan 07 04:05	29° \approx 06'50			2390 May 08 03:37	0° \mathbb{B}	
	2388 Jan 08 12:21	0° \mathbb{H}			2390 Jun 01 14:41	0° \mathbb{II}	
greatest brilliancy	2388 Jan 18 21:38	5° \mathbb{H} 24'05	-4.9m	morning set	2390 Jun 05 23:45	5° \mathbb{II} 22'02	
retrograde	2388 Jan 29 02:50	7° \mathbb{H} 24'15		asc. node	2390 Jun 23 23:15	27° \mathbb{II} 25'31	
evening set	2388 Feb 15 04:58	1° \mathbb{H} 42'20			2390 Jun 26 01:37	0° \mathbb{G}	
	2388 Feb 17 23:53	30° \mathbb{R} \approx		max. Earth dist.	2390 Jul 11 07:50	18° \mathbb{G} 44'38	1.73555 AU
min. Earth dist.	2388 Feb 18 02:58	29° \approx 55'12	0.27242 AU				
inferior conj	2388 Feb 18 21:59	29° \approx 25'34	8°24'26	superior conj	2390 Jul 12 15:50	20° \mathbb{G} 22'59	0°42'31
minimum elong	2388 Feb 18 15:17	29° \approx 36'01	8°23'45	minimum elong	2390 Jul 12 08:13	19° \mathbb{G} 59'35	0°42'12
morning rise	2388 Feb 22 01:49	27° \approx 28'54			2390 Jul 20 11:27	0° Ω	

	2390 Aug 13 19:49	0°♍		desc. node	2393 Mar 30 07:58	27°♊30'26	
evening rise	2390 Aug 17 11:57	4°♍31'49			2393 Apr 01 11:27	0°♋	
	2390 Sep 07 03:18	0°♌			2393 Apr 26 23:06	0°♌	
	2390 Oct 01 10:59	0°♍			2393 May 22 01:55	0°♍	
desc. node	2390 Oct 13 12:50	14°♍52'42			2393 Jun 15 23:55	0°♎	
	2390 Oct 25 19:53	0°♎			2393 Jul 10 17:53	0°♏	
	2390 Nov 19 07:02	0°♏		asc. node	2393 Jul 21 11:11	13°♏04'00	
	2390 Dec 13 22:51	0°♐			2393 Aug 04 07:15	0°♐	
	2391 Jan 08 01:53	0°♑		morning set	2393 Aug 12 18:04	10°♐23'03	
	2391 Feb 03 09:01	0°♒			2393 Aug 28 15:45	0°♑	
asc. node	2391 Feb 03 15:56	0°♒18'58		max. Earth dist.	2393 Sep 14 21:10	21°♑21'11	1.72570 AU
evening max el	2391 Feb 19 01:54	16°♒35'18 46°44'57					
	2391 Mar 05 05:18	0°♓		superior conj	2393 Sep 18 07:55	25°♑38'11 1°24'37	
greatest brilliancy	2391 Mar 30 16:02	17°♓00'39 -4.8m		minimum elong	2393 Sep 18 09:33	25°♑43'16 1°24'38	
retrograde	2391 Apr 10 08:58	19°♓08'35			2393 Sep 21 20:09	0°♈	
evening set	2391 Apr 26 16:14	13°♓55'32			2393 Oct 15 22:02	0°♉	
inferior conj	2391 May 01 14:13	10°♓54'20 5°28'20		evening rise	2393 Oct 26 05:54	12°♉53'09	
minimum elong	2391 May 01 23:52	10°♓39'10 5°26'05			2393 Nov 08 22:51	0°♊	
min. Earth dist.	2391 May 01 13:11	10°♓55'57 0.28480 AU		desc. node	2393 Nov 10 00:41	1°♊20'42	
morning rise	2391 May 07 07:54	7°♓25'58			2393 Dec 02 23:28	0°♋	
direct	2391 May 22 20:47	2°♓44'52			2393 Dec 27 00:50	0°♌	
desc. node	2391 May 26 05:15	2°♓57'52			2394 Jan 20 04:59	0°♍	
greatest brilliancy	2391 Jun 01 17:27	4°♓31'36 -4.7m			2394 Feb 13 16:11	0°♎	
	2391 Jul 07 21:29	0°♎		asc. node	2394 Mar 03 03:54	21°♎02'05	
morning max el	2391 Jul 10 17:06	2°♎39'25 45°43'57			2394 Mar 10 17:45	0°♏	
	2391 Aug 06 08:30	0°♏			2394 Apr 05 23:25	0°♐	
	2391 Sep 02 02:49	0°♐		evening max el	2394 May 01 00:22	26°♐11'45 45°41'00	
asc. node	2391 Sep 16 08:54	16°♐37'52			2394 May 04 23:42	0°♑	
	2391 Sep 27 14:44	0°♑		greatest brilliancy	2394 Jun 07 22:54	24°♑20'24 -4.7m	
	2391 Oct 22 08:08	0°♒		retrograde	2394 Jun 18 21:08	26°♑29'54	
	2391 Nov 15 14:11	0°♓		desc. node	2394 Jun 22 17:18	26°♑12'29	
	2391 Dec 09 14:05	0°♓		evening set	2394 Jul 04 04:51	22°♑00'06	
	2392 Jan 02 11:19	0°♔		inferior conj	2394 Jul 10 09:56	18°♑16'15 -4°00'48	
desc. node	2392 Jan 05 22:14	4°♔20'38		minimum elong	2394 Jul 10 01:57	18°♑28'47 3°58'43	
morning set	2392 Jan 07 13:07	6°♔22'52		min. Earth dist.	2394 Jul 10 06:46	18°♑21'14 0.29002 AU	
	2392 Jan 26 07:57	0°♕		morning rise	2394 Jul 15 22:58	14°♑54'10	
				direct	2394 Aug 01 00:56	9°♑59'06	
superior conj	2392 Feb 18 05:11	28°♕44'12 -1°20'33		greatest brilliancy	2394 Aug 11 10:38	11°♑55'05 -4.7m	
minimum elong	2392 Feb 17 21:09	28°♕19'01 1°20'25			2394 Sep 08 00:55	0°♒	
	2392 Feb 19 05:22	0°♋		morning max el	2394 Sep 19 01:57	10°♒10'40 45°59'31	
max. Earth dist.	2392 Feb 21 16:11	3°♋04'24 1.71474 AU			2394 Oct 08 07:47	0°♓	
	2392 Mar 14 04:53	0°♌		asc. node	2394 Oct 13 20:41	6°♓03'05	
evening rise	2392 Mar 29 13:25	19°♌07'12			2394 Nov 03 21:09	0°♈	
	2392 Apr 07 07:57	0°♍			2394 Nov 29 00:23	0°♉	
asc. node	2392 Apr 28 01:42	25°♍35'26			2394 Dec 23 11:38	0°♊	
	2392 May 01 15:51	0°♎			2395 Jan 16 15:39	0°♋	
	2392 May 26 05:33	0°♏		desc. node	2395 Feb 02 10:12	20°♋54'59	
	2392 Jun 20 02:22	0°♐			2395 Feb 09 16:53	0°♌	
	2392 Jul 15 09:11	0°♑			2395 Mar 05 17:46	0°♍	
	2392 Aug 10 08:18	0°♒		morning set	2395 Mar 25 03:54	24°♋11'51	
desc. node	2392 Aug 17 14:57	8°♒11'49			2395 Mar 29 19:51	0°♎	
	2392 Sep 06 14:26	0°♓			2395 Apr 23 00:13	0°♏	
evening max el	2392 Sep 23 22:25	17°♓39'39 46°24'38					
	2392 Oct 07 09:08	0°♔		superior conj	2395 May 02 20:01	12°♔08'57 -0°52'40	
greatest brilliancy	2392 Nov 03 03:23	17°♔09'31 -4.9m		minimum elong	2395 May 03 05:37	12°♔38'35 0°52'18	
retrograde	2392 Nov 12 13:37	18°♔48'15		max. Earth dist.	2395 May 05 16:03	15°♔39'00 1.72974 AU	
evening set	2392 Nov 27 03:00	14°♔39'40			2395 May 17 07:17	0°♎	
inferior conj	2392 Dec 03 03:09	11°♔09'18 -1°27'17		asc. node	2395 May 26 13:29	11°♎24'02	
minimum elong	2392 Dec 03 06:29	11°♔04'15 1°26'13		evening rise	2395 Jun 09 08:23	28°♎20'37	
min. Earth dist.	2392 Dec 03 10:37	10°♔57'56 0.26567 AU			2395 Jun 10 16:46	0°♏	
asc. node	2392 Dec 08 18:11	7°♔51'00			2395 Jul 05 04:19	0°♐	
morning rise	2392 Dec 09 09:37	7°♔30'18			2395 Jul 29 18:14	0°♑	
direct	2392 Dec 23 15:48	3°♔28'43			2395 Aug 23 11:48	0°♒	
greatest brilliancy	2393 Jan 03 01:59	5°♔32'28 -4.9m		desc. node	2395 Sep 15 02:57	27°♒12'07	
	2393 Feb 05 12:01	0°♕			2395 Sep 17 11:10	0°♓	
morning max el	2393 Feb 12 05:16	6°♕37'34 46°54'35			2395 Oct 12 19:26	0°♔	
	2393 Mar 06 03:51	0°♖			2395 Nov 07 19:44	0°♕	

	2395 Dec 05 11:32	0°♊			2398 May 07 14:36	0°♋		
evening max el	2395 Dec 06 18:09	1°♊17'56	47°16'15		2398 Jun 01 01:26	0°♌		
asc. node	2396 Jan 06 06:10	27°♊40'40		morning set	2398 Jun 03 17:17	3°♌15'44		
	2396 Jan 10 03:21	0°♋		asc. node	2398 Jun 23 01:24	26°♌59'30		
greatest brilliancy	2396 Jan 16 11:26	2°♋58'01	-4.9m		2398 Jun 25 12:13	0°♍		
retrograde	2396 Jan 26 16:34	4°♋58'30		max. Earth dist.	2398 Jul 09 06:32	16°♍54'19	1.73562 AU	
	2396 Feb 11 12:44	30°♋						
evening set	2396 Feb 12 14:34	29°♋22'22		superior conj	2398 Jul 10 10:00	18°♍18'44	0°39'46	
min. Earth dist.	2396 Feb 15 16:01	27°♋30'30	0.27192 AU	minimum elong	2398 Jul 10 02:45	17°♍56'25	0°39'26	
inferior conj	2396 Feb 16 11:19	27°♋00'31	8°16'34		2398 Jul 19 22:02	0°♎		
minimum elong	2396 Feb 16 03:54	27°♋12'02	8°15'42		2398 Aug 13 06:30	0°♏		
morning rise	2396 Feb 19 17:27	25°♋00'42		evening rise	2398 Aug 15 06:10	2°♏26'57		
direct	2396 Mar 08 00:01	19°♋13'17			2398 Sep 06 14:11	0°♐		
greatest brilliancy	2396 Mar 17 02:01	20°♋46'16	-4.8m		2398 Sep 30 22:11	0°♑		
	2396 Apr 02 22:53	0°♋		desc. node	2398 Oct 12 14:47	14°♑23'35		
morning max el	2396 Apr 26 14:20	20°♋32'31	46°15'53		2398 Oct 25 07:31	0°♒		
desc. node	2396 Apr 26 19:33	20°♋45'17			2398 Nov 18 19:13	0°♓		
	2396 May 06 00:17	0°♌			2398 Dec 13 11:51	0°♊		
	2396 Jun 02 19:05	0°♍			2399 Jan 07 16:18	0°♋		
	2396 Jun 29 02:19	0°♎		asc. node	2399 Feb 02 18:02	29°♋36'33		
	2396 Jul 24 15:48	0°♏			2399 Feb 03 02:39	0°♌		
asc. node	2396 Aug 17 23:02	29°♏06'30		evening max el	2399 Feb 16 17:44	14°♌20'03	46°47'05	
	2396 Aug 18 16:44	0°♐			2399 Mar 05 11:26	0°♍		
	2396 Sep 12 07:15	0°♑		greatest brilliancy	2399 Mar 28 08:39	14°♍48'24	-4.8m	
	2396 Oct 06 13:37	0°♒		retrograde	2399 Apr 08 01:03	16°♍55'35		
morning set	2396 Oct 21 08:11	18°♒24'45		evening set	2399 Apr 24 10:55	11°♍38'54		
	2396 Oct 30 14:32	0°♓		inferior conj	2399 Apr 29 05:59	8°♍41'38	5°44'27	
	2396 Nov 23 12:32	0°♔		minimum elong	2399 Apr 29 15:47	8°♍26'11	5°42'14	
max. Earth dist.	2396 Nov 28 05:59	5°♔56'22	1.71266 AU	min. Earth dist.	2399 Apr 29 04:32	8°♍43'55	0.28452 AU	
				morning rise	2399 May 04 21:06	5°♍16'43		
superior conj	2396 Nov 29 12:48	7°♔33'12	0°19'01	direct	2399 May 20 12:34	0°♍32'53		
minimum elong	2396 Nov 29 17:35	7°♔48'12	0°18'47	desc. node	2399 May 25 07:21	0°♍59'05		
desc. node	2396 Dec 07 12:31	17°♔35'42		greatest brilliancy	2399 May 30 07:31	2°♍18'15	-4.7m	
	2396 Dec 17 09:20	0°♕			2399 Jul 07 20:33	0°♎		
evening rise	2397 Jan 09 17:26	29°♕20'18		morning max el	2399 Jul 08 08:33	0°♎28'35	45°44'10	
	2397 Jan 10 06:05	0°♊			2399 Aug 06 00:11	0°♏		
	2397 Feb 03 04:05	0°♋			2399 Sep 01 16:01	0°♐		
	2397 Feb 27 05:22	0°♌		asc. node	2399 Sep 15 10:54	16°♐07'02		
	2397 Mar 23 12:45	0°♍			2399 Sep 27 02:47	0°♑		
asc. node	2397 Mar 30 15:48	8°♍42'49			2399 Oct 21 19:37	0°♒		
	2397 Apr 17 05:41	0°♎			2399 Nov 15 01:22	0°♓		
	2397 May 12 13:02	0°♏			2399 Dec 09 01:06	0°♔		
	2397 Jun 07 20:25	0°♐			2400 Jan 01 22:15	0°♕		
	2397 Jul 06 06:55	0°♑		morning set	2400 Jan 04 23:09	3°♕49'09		
evening max el	2397 Jul 10 18:07	4°♑20'06	45°28'37	desc. node	2400 Jan 05 00:23	3°♕53'02		
desc. node	2397 Jul 20 05:13	13°♑00'08			2400 Jan 25 18:49	0°♊		
	2397 Aug 13 05:21	0°♒						
greatest brilliancy	2397 Aug 18 18:11	2°♒16'24	-4.7m	superior conj	2400 Feb 15 16:03	26°♒13'55	-1°19'05	
retrograde	2397 Aug 28 10:11	3°♒57'17		minimum elong	2400 Feb 15 07:14	25°♒46'15	1°18'54	
	2397 Sep 11 17:29	30°♒			2400 Feb 18 16:09	0°♋		
evening set	2397 Sep 15 11:12	27°♒53'29		max. Earth dist.	2400 Feb 19 02:24	0°♋32'10	1.71427 AU	
inferior conj	2397 Sep 18 15:06	25°♒57'38	-8°41'08		2400 Mar 13 15:35	0°♌		
minimum elong	2397 Sep 18 16:47	25°♒55'04	8°41'07	evening rise	2400 Mar 27 02:16	16°♌44'40		
min. Earth dist.	2397 Sep 19 07:20	25°♒32'34	0.28391 AU		2400 Apr 06 18:40	0°♍		
morning rise	2397 Sep 21 22:10	23°♒56'43		asc. node	2400 Apr 27 03:42	25°♌08'21		
direct	2397 Oct 10 00:02	17°♒47'39			2400 May 01 02:41	0°♎		
greatest brilliancy	2397 Oct 21 01:56	20°♒04'08	-4.8m		2400 May 25 16:40	0°♏		
	2397 Nov 06 18:05	0°♐			2400 Jun 19 14:00	0°♐		
asc. node	2397 Nov 10 08:20	2°♐50'36			2400 Jul 14 21:45	0°♑		
morning max el	2397 Nov 29 11:16	20°♐33'31	46°43'00		2400 Aug 09 22:38	0°♒		
	2397 Dec 08 12:47	0°♓		desc. node	2400 Aug 16 17:01	7°♒35'28		
	2398 Jan 04 05:50	0°♔			2400 Sep 06 08:46	0°♓		
	2398 Jan 29 12:36	0°♕		evening max el	2400 Sep 21 10:58	15°♓16'48	46°22'05	
	2398 Feb 23 06:00	0°♊			2400 Oct 07 18:16	0°♔		
desc. node	2398 Mar 01 22:02	8°♊08'49		greatest brilliancy	2400 Oct 31 17:02	14°♔44'36	-4.9m	
	2398 Mar 19 18:00	0°♋		retrograde	2400 Nov 10 00:58	16°♔21'36		
	2398 Apr 13 04:17	0°♌		evening set	2400 Nov 24 17:01	12°♔10'44		

inferior conj	2400 Nov 30 15:32	8°♊42'45	-1°51'11	asc. node	2403 May 25 15:38	10°♊58'01	
minimum elong	2400 Nov 30 19:44	8°♊36'21	1°49'51	evening rise	2403 Jun 07 02:16	26°♊15'35	
min. Earth dist.	2400 Dec 01 00:53	8°♊28'30	0.26602 AU		2403 Jun 10 03:24	0°♊	
morning rise	2400 Dec 06 21:58	5°♊03'22			2403 Jul 04 15:05	0°♊	
asc. node	2400 Dec 07 20:21	4°♊34'20			2403 Jul 29 05:19	0°♊	
direct	2400 Dec 21 04:06	1°♊01'16			2403 Aug 22 23:26	0°♊	
greatest brilliancy	2400 Dec 31 17:00	3°♊07'07	-4.9m	desc. node	2403 Sep 14 04:52	26°♊40'50	
	2401 Feb 05 13:19	0°♊			2403 Sep 16 23:39	0°♊	
morning max el	2401 Feb 09 17:36	4°♊09'48	46°55'23		2403 Oct 12 09:17	0°♊	
	2401 Mar 05 20:49	0°♊			2403 Nov 07 12:05	0°♊	
desc. node	2401 Mar 29 09:53	26°♊54'43		evening max el	2403 Dec 04 08:26	28°♊55'00	47°15'44
	2401 Apr 01 01:29	0°♊			2403 Dec 05 10:11	0°♊	
	2401 Apr 26 11:38	0°♊		asc. node	2404 Jan 05 08:14	26°♊11'52	
	2401 May 21 13:34	0°♊			2404 Jan 12 16:53	0°♊	
	2401 Jun 15 11:03	0°♊		greatest brilliancy	2404 Jan 14 00:36	0°♊31'28	-4.9m
	2401 Jul 10 04:41	0°♊		retrograde	2404 Jan 24 06:39	2°♊32'48	
asc. node	2401 Jul 20 13:15	12°♊37'41			2404 Feb 04 08:51	30°♊	
	2401 Aug 03 17:52	0°♊		evening set	2404 Feb 09 23:58	27°♊02'33	
morning set	2401 Aug 10 11:44	8°♊17'11		min. Earth dist.	2404 Feb 13 04:38	25°♊06'10	0.27140 AU
	2401 Aug 28 02:17	0°♊		inferior conj	2404 Feb 14 00:30	24°♊35'24	8°07'43
max. Earth dist.	2401 Sep 12 14:41	19°♊13'42	1.72623 AU	minimum elong	2404 Feb 13 16:28	24°♊47'51	8°06'40
				morning rise	2404 Feb 17 09:14	22°♊32'06	
superior conj	2401 Sep 16 00:48	23°♊28'43	1°24'50	direct	2404 Mar 05 13:04	16°♊48'51	
minimum elong	2401 Sep 16 01:43	23°♊31'32	1°24'50	greatest brilliancy	2404 Mar 14 14:35	18°♊22'01	-4.9m
	2401 Sep 21 06:44	0°♊			2404 Apr 03 16:18	0°♊	
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evening rise	2401 Oct 23 19:42	10°♊32'52		desc. node	2404 Apr 25 21:40	19°♊54'44	
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desc. node	2401 Nov 09 02:45	0°♊53'01			2404 Jun 02 10:01	0°♊	
	2401 Dec 02 10:37	0°♊			2404 Jun 28 15:14	0°♊	
	2401 Dec 26 12:14	0°♊			2404 Jul 24 03:40	0°♊	
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asc. node	2402 Mar 02 05:52	20°♊29'13			2404 Sep 11 18:12	0°♊	
	2402 Mar 10 07:12	0°♊			2404 Oct 06 00:28	0°♊	
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evening max el	2402 Apr 28 15:12	23°♊58'34	45°42'47		2404 Oct 30 01:24	0°♊	
	2402 May 04 23:31	0°♊			2404 Nov 22 23:27	0°♊	
greatest brilliancy	2402 Jun 05 14:46	22°♊12'11	-4.7m	max. Earth dist.	2404 Nov 25 15:29	3°♊21'04	1.71295 AU
retrograde	2402 Jun 16 13:46	24°♊22'53					
desc. node	2402 Jun 21 19:22	23°♊50'15		superior conj	2404 Nov 27 00:16	5°♊04'04	0°22'45
evening set	2402 Jul 01 20:07	19°♊54'15		minimum elong	2404 Nov 27 05:54	5°♊21'43	0°22'29
inferior conj	2402 Jul 08 02:31	16°♊08'51	-3°43'17	desc. node	2404 Dec 06 14:40	17°♊07'59	
minimum elong	2402 Jul 07 18:59	16°♊20'40	3°41'16		2404 Dec 16 20:19	0°♊	
min. Earth dist.	2402 Jul 07 23:20	16°♊13'50	0.28998 AU	evening rise	2405 Jan 07 03:34	26°♊46'37	
morning rise	2402 Jul 13 17:46	12°♊43'48			2405 Jan 09 17:08	0°♊	
direct	2402 Jul 29 17:00	7°♊51'33			2405 Feb 02 15:14	0°♊	
greatest brilliancy	2402 Aug 09 03:25	9°♊48'08	-4.7m		2405 Feb 26 16:41	0°♊	
	2402 Sep 08 03:41	0°♊			2405 Mar 23 00:20	0°♊	
morning max el	2402 Sep 16 17:43	7°♊59'54	45°58'16	asc. node	2405 Mar 29 17:50	8°♊13'19	
	2402 Oct 08 00:21	0°♊			2405 Apr 16 17:46	0°♊	
asc. node	2402 Oct 12 22:41	5°♊24'56			2405 May 12 02:09	0°♊	
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	2402 Nov 28 12:53	0°♊			2405 Jul 06 04:14	0°♊	
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desc. node	2403 Feb 01 12:11	20°♊25'59			2405 Aug 16 04:59	0°♊	
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morning set	2403 Mar 22 16:33	21°♊47'58			2405 Sep 04 09:47	30°♊	
	2403 Mar 29 06:42	0°♊		evening set	2405 Sep 13 01:53	25°♊40'10	
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				minimum elong	2405 Sep 16 07:03	23°♊42'03	8°42'00
superior conj	2403 Apr 30 11:31	9°♊55'36	-0°55'22	min. Earth dist.	2405 Sep 16 21:16	23°♊20'04	0.28443 AU
minimum elong	2403 Apr 30 21:21	10°♊26'00	0°54'59	morning rise	2405 Sep 19 12:04	21°♊44'01	
max. Earth dist.	2403 May 03 08:13	13°♊27'52	1.72925 AU	direct	2405 Oct 07 16:11	15°♊32'58	
	2403 May 16 17:55	0°♊		greatest brilliancy	2405 Oct 18 16:21	17°♊47'35	-4.8m

	2405 Nov 07 07:03	0°♌			2408 Apr 30 13:58	0°♊	
asc. node	2405 Nov 09 10:32	1°♌45'44			2408 May 25 04:13	0°♋	
morning max el	2405 Nov 27 01:52	18°♌13'31	46°41'27		2408 Jun 19 02:05	0°♎	
	2405 Dec 08 07:47	0°♍			2408 Jul 14 10:49	0°♏	
	2406 Jan 03 20:54	0°♐			2408 Aug 09 13:36	0°♑	
	2406 Jan 29 02:01	0°♑		desc. node	2408 Aug 15 18:59	6°♑57'17	
	2406 Feb 22 18:29	0°♒			2408 Sep 06 04:02	0°♒	
desc. node	2406 Mar 01 00:02	7°♒37'17		evening max el	2408 Sep 18 23:02	12°♒51'56	46°19'46
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superior conj	2406 Jul 08 04:14	16°♋14'06	0°36'56		2408 Dec 10 07:34	30°♋♍	
minimum elong	2406 Jul 07 21:21	15°♋52'58	0°36'38	direct	2408 Dec 18 16:31	28°♍33'30	
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evening rise	2406 Aug 13 00:35	0°♏22'15			2409 Feb 05 13:40	0°♑	
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desc. node	2406 Oct 11 16:55	13°♒54'39		desc. node	2409 Mar 28 11:59	26°♒18'33	
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asc. node	2407 Feb 01 20:00	28°♓52'03			2409 Jul 09 15:54	0°♋	
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evening max el	2407 Feb 14 08:31	12°♓00'36	46°49'10		2409 Aug 03 04:53	0°♎	
	2407 Mar 05 20:45	0°♊		morning set	2409 Aug 08 05:09	6°♎09'21	
greatest brilliancy	2407 Mar 26 01:42	12°♊34'52	-4.8m		2409 Aug 27 13:15	0°♏	
retrograde	2407 Apr 05 16:32	14°♊40'43		max. Earth dist.	2409 Sep 10 09:37	17°♏09'24	1.72672 AU
evening set	2407 Apr 22 05:27	9°♊20'21					
inferior conj	2407 Apr 26 21:33	6°♊27'12	6°00'10	superior conj	2409 Sep 13 17:39	21°♏17'50	1°24'56
minimum elong	2407 Apr 27 07:27	6°♊11'35	5°58'00	minimum elong	2409 Sep 13 17:49	21°♏18'21	1°24'56
min. Earth dist.	2407 Apr 26 19:57	6°♊29'44	0.28421 AU		2409 Sep 20 17:45	0°♑	
morning rise	2407 May 02 09:53	3°♊05'55			2409 Oct 14 19:53	0°♒	
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direct	2407 May 18 03:41	28°♓19'09			2409 Nov 07 21:03	0°♓	
desc. node	2407 May 24 09:29	29°♓03'07		desc. node	2409 Nov 08 04:52	0°♓24'21	
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greatest brilliancy	2407 May 27 21:49	0°♊03'35	-4.7m		2409 Dec 25 23:57	0°♒	
morning max el	2407 Jul 05 22:59	28°♊14'03	45°44'30		2410 Jan 19 04:51	0°♓	
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morning set	2408 Jan 02 09:17	1°♑14'53		evening set	2410 Jun 29 11:20	17°♋46'00	
desc. node	2408 Jan 04 02:21	3°♑24'03		inferior conj	2410 Jul 05 18:50	13°♋59'09	-3°25'10
	2408 Jan 25 06:00	0°♒		minimum elong	2410 Jul 05 11:48	14°♋10'09	3°23'16
				min. Earth dist.	2410 Jul 05 15:25	14°♋04'30	0.28992 AU
superior conj	2408 Feb 13 02:32	23°♒41'18	-1°17'25	morning rise	2410 Jul 11 12:15	10°♋31'21	
minimum elong	2408 Feb 12 16:59	23°♒11'22	1°17'12	direct	2410 Jul 27 09:14	5°♋41'49	
max. Earth dist.	2408 Feb 16 08:45	27°♒46'39	1.71387 AU	greatest brilliancy	2410 Aug 06 19:25	7°♋38'32	-4.7m
	2408 Feb 18 03:17	0°♓			2410 Sep 08 05:37	0°♎	
	2408 Mar 13 02:43	0°♓		morning max el	2410 Sep 14 10:00	5°♎49'08	45°57'04
evening rise	2408 Mar 24 14:23	14°♓18'29			2410 Oct 07 17:05	0°♏	
	2408 Apr 06 05:49	0°♊		asc. node	2410 Oct 12 00:51	4°♏46'24	
asc. node	2408 Apr 26 05:49	24°♊40'18			2410 Nov 03 00:52	0°♑	






































































































































	2410 Nov 28 01:41	0°♍	evening max el	2413 Jul 06 01:06	29°♌56'30	45°27'00
	2410 Dec 22 11:40	0°♊		2413 Jul 06 02:34	0°♎	
	2411 Jan 15 14:52	0°♊	desc. node	2413 Jul 18 09:15	11°♎04'49	
desc. node	2411 Jan 31 14:12	19°♊56'16	greatest brilliancy	2413 Aug 13 21:15	27°♎47'42	-4.7m
	2411 Feb 08 15:33	0°♊	retrograde	2413 Aug 23 15:00	29°♎29'36	
	2411 Mar 04 16:01	0°♋	evening set	2413 Sep 10 16:08	23°♎27'04	
morning set	2411 Mar 20 05:23	19°♋23'45	inferior conj	2413 Sep 13 21:18	21°♎28'43	-8°41'57
	2411 Mar 28 17:48	0°♋	minimum elong	2413 Sep 13 21:20	21°♎28'41	8°41'57
	2411 Apr 21 21:57	0°♌	min. Earth dist.	2413 Sep 14 11:34	21°♎06'35	0.28495 AU
			morning rise	2413 Sep 17 02:22	19°♎30'16	
superior conj	2411 Apr 28 02:55	7°♌40'56 -0°57'58	direct	2413 Oct 05 07:42	13°♎17'48	
minimum elong	2411 Apr 28 12:56	8°♌11'54 0°57'36	greatest brilliancy	2413 Oct 16 07:12	15°♎31'04	-4.8m
max. Earth dist.	2411 May 01 01:44	11°♌19'49 1.72884 AU		2413 Nov 07 16:54	0°♏	
	2411 May 16 04:52	0°♏	asc. node	2413 Nov 08 12:30	0°♏41'35	
asc. node	2411 May 24 17:38	10°♏30'24	morning max el	2413 Nov 24 15:35	15°♏50'55	46°40'00
evening rise	2411 Jun 04 19:55	24°♏08'43		2413 Dec 08 02:24	0°♍	
	2411 Jun 09 14:24	0°♍		2414 Jan 03 11:52	0°♊	
	2411 Jul 04 02:14	0°♌		2414 Jan 28 15:23	0°♊	
	2411 Jul 28 16:48	0°♎		2414 Feb 22 06:57	0°♊	
	2411 Aug 22 11:30	0°♏	desc. node	2414 Feb 28 02:07	7°♊06'03	
desc. node	2411 Sep 13 07:01	26°♏09'04		2414 Mar 18 17:46	0°♋	
	2411 Sep 16 12:35	0°♍		2414 Apr 12 03:10	0°♋	
	2411 Oct 11 23:38	0°♊		2414 May 06 12:49	0°♌	
	2411 Nov 07 05:05	0°♊	morning set	2414 May 30 04:17	29°♌02'01	
evening max el	2411 Dec 01 23:36	26°♊33'27 47°15'09		2414 May 30 23:11	0°♏	
	2411 Dec 05 10:11	0°♊	asc. node	2414 Jun 21 05:25	26°♏05'41	
asc. node	2412 Jan 04 10:14	24°♊39'08		2414 Jun 24 09:44	0°♍	
greatest brilliancy	2412 Jan 11 13:47	28°♊04'21 -4.9m	max. Earth dist.	2414 Jul 04 23:49	13°♍00'14	1.73571 AU
	2412 Jan 19 14:18	0°♋				
retrograde	2412 Jan 21 20:58	0°♋06'21	superior conj	2414 Jul 05 22:45	14°♍10'39	0°34'05
	2412 Jan 24 03:02	30°♋	minimum elong	2414 Jul 05 16:18	13°♍50'50	0°33'48
	2412 Feb 07 09:24	24°♊42'23		2414 Jul 18 19:32	0°♌	
evening set	2412 Feb 10 17:12	22°♊41'30 0.27083 AU	evening rise	2414 Aug 10 19:13	28°♌18'21	
min. Earth dist.	2412 Feb 11 13:44	22°♊09'44 7°57'56		2414 Aug 12 04:12	0°♎	
inferior conj	2412 Feb 11 05:08	22°♊23'02 7°56'42		2414 Sep 05 12:17	0°♏	
minimum elong	2412 Feb 15 01:12	20°♊02'41		2414 Sep 29 20:54	0°♍	
morning rise	2412 Mar 03 02:29	14°♊24'17	desc. node	2414 Oct 10 18:59	13°♍25'23	
direct	2412 Mar 12 02:44	15°♊56'54 -4.9m		2414 Oct 24 07:08	0°♊	
greatest brilliancy	2412 Apr 04 05:25	0°♋		2414 Nov 17 20:06	0°♊	
	2412 Apr 21 19:31	15°♋56'27 46°19'02		2414 Dec 12 14:34	0°♊	
morning max el	2412 Apr 24 23:48	19°♋04'59		2415 Jan 06 22:15	0°♋	
desc. node	2412 May 05 15:02	0°♋	asc. node	2415 Jan 31 22:04	28°♋07'33	
	2412 Jun 02 00:55	0°♌		2415 Feb 02 16:01	0°♋	
	2412 Jun 28 04:17	0°♏	evening max el	2415 Feb 11 22:29	9°♋39'12	46°51'14
	2412 Jul 23 15:44	0°♍		2415 Mar 06 09:06	0°♌	
asc. node	2412 Aug 16 03:06	28°♍09'51	greatest brilliancy	2415 Mar 23 19:03	10°♌21'57	-4.8m
	2412 Aug 17 15:30	0°♌	retrograde	2415 Apr 03 08:00	12°♌26'31	
	2412 Sep 11 05:26	0°♎	evening set	2415 Apr 20 00:05	7°♌02'14	
	2412 Oct 05 11:34	0°♏	inferior conj	2415 Apr 24 13:15	4°♌13'28	6°15'14
morning set	2412 Oct 16 13:57	13°♏49'43	minimum elong	2415 Apr 24 23:11	3°♌57'46	6°13'09
	2412 Oct 29 12:28	0°♍	min. Earth dist.	2415 Apr 24 11:41	4°♌15'57	0.28387 AU
	2412 Nov 22 10:33	0°♊	morning rise	2415 Apr 29 22:38	0°♌56'06	
max. Earth dist.	2412 Nov 22 23:00	0°♊39'05 1.71325 AU		2415 May 01 15:30	30°♌	
			direct	2415 May 15 18:23	26°♌05'59	
superior conj	2412 Nov 24 11:50	2°♊34'43 0°26'26	desc. node	2415 May 23 11:24	27°♌12'04	
minimum elong	2412 Nov 24 18:14	2°♊54'49 0°26'07	greatest brilliancy	2415 May 25 12:36	27°♌50'09	-4.7m
desc. node	2412 Dec 05 16:36	16°♊39'02		2415 May 30 17:34	0°♌	
	2412 Dec 16 07:29	0°♊	morning max el	2415 Jul 03 13:22	26°♌00'05	45°45'03
evening rise	2413 Jan 04 13:42	24°♊12'21		2415 Jul 07 16:28	0°♏	
	2413 Jan 09 04:23	0°♊		2415 Aug 05 07:15	0°♍	
	2413 Feb 02 02:34	0°♋		2415 Aug 31 18:29	0°♌	
	2413 Feb 26 04:08	0°♋	asc. node	2415 Sep 13 15:03	15°♌05'04	
	2413 Mar 22 12:00	0°♌		2415 Sep 26 03:06	0°♎	
asc. node	2413 Mar 28 19:59	7°♌43'58		2415 Oct 20 18:50	0°♏	
	2413 Apr 16 05:58	0°♏		2415 Nov 14 00:02	0°♍	
	2413 May 11 15:24	0°♍		2415 Dec 07 23:31	0°♊	
	2413 Jun 07 03:19	0°♌	morning set	2415 Dec 30 19:19	28°♊40'39	

	2415 Dec 31 20:33	0°♄	evening set	2418 Jun 27 02:53	15°♄39'04	
desc. node	2416 Jan 03 04:25	2°♄55'42	inferior conj	2418 Jul 03 11:15	11°♄50'47	-3°06'51
	2416 Jan 24 17:01	0°♄	minimum elong	2418 Jul 03 04:45	12°♄00'57	3°05'04
			min. Earth dist.	2418 Jul 03 07:27	11°♄56'44	0.28980 AU
superior conj	2416 Feb 10 12:52	21°♄08'42 -1°15'35	morning rise	2418 Jul 09 06:43	8°♄20'23	
minimum elong	2416 Feb 10 02:41	20°♄36'44 1°15'21	direct	2418 Jul 25 01:57	3°♄33'40	
max. Earth dist.	2416 Feb 13 12:42	24°♄54'05 1.71350 AU	greatest brilliancy	2418 Aug 04 10:51	5°♄29'44	-4.7m
	2416 Feb 17 14:15	0°♄		2418 Sep 08 05:40	0°♄	
	2416 Mar 12 13:39	0°♄	morning max el	2418 Sep 12 02:35	3°♄40'43	45°55'59
evening rise	2416 Mar 22 02:29	11°♄52'45		2418 Oct 07 08:59	0°♄	
	2416 Apr 05 16:47	0°♄	asc. node	2418 Oct 11 02:50	4°♄09'07	
asc. node	2416 Apr 25 07:50	24°♄12'31		2418 Nov 02 14:15	0°♄	
	2416 Apr 30 01:03	0°♄		2418 Nov 27 14:00	0°♄	
	2416 May 24 15:34	0°♄		2418 Dec 21 23:26	0°♄	
	2416 Jun 18 13:56	0°♄		2419 Jan 15 02:18	0°♄	
	2416 Jul 13 23:39	0°♄	desc. node	2419 Jan 30 16:21	19°♄27'45	
desc. node	2416 Aug 09 04:24	0°♄		2419 Feb 08 02:45	0°♄	
	2416 Aug 14 21:08	6°♄20'20		2419 Mar 04 03:02	0°♄	
	2416 Sep 05 23:30	0°♄	morning set	2419 Mar 17 17:37	16°♄58'20	
evening max el	2416 Sep 16 11:28	10°♄29'09 46°17'16		2419 Mar 28 04:39	0°♄	
	2416 Oct 08 23:38	0°♄		2419 Apr 21 08:40	0°♄	
greatest brilliancy	2416 Oct 26 19:25	9°♄53'32 -4.8m				
retrograde	2416 Nov 05 01:00	11°♄29'00	superior conj	2419 Apr 25 17:50	5°♄25'32	-1°00'30
evening set	2416 Nov 19 21:42	7°♄11'46	minimum elong	2419 Apr 26 03:59	5°♄56'55	1°00'09
inferior conj	2416 Nov 25 16:30	3°♄49'32 -2°37'58	max. Earth dist.	2419 Apr 28 20:37	9°♄16'49	1.72836 AU
minimum elong	2416 Nov 25 22:21	3°♄40'38 2°36'08		2419 May 15 15:31	0°♄	
min. Earth dist.	2416 Nov 26 05:03	3°♄30'27 0.26685 AU	asc. node	2419 May 23 19:38	10°♄03'43	
morning rise	2416 Dec 01 22:21	0°♄11'01	evening rise	2419 Jun 02 13:20	22°♄02'05	
	2416 Dec 02 06:41	30°♄		2419 Jun 09 01:05	0°♄	
asc. node	2416 Dec 06 00:20	28°♄14'27		2419 Jul 03 13:05	0°♄	
direct	2416 Dec 16 05:23	26°♄05'53		2419 Jul 28 03:59	0°♄	
greatest brilliancy	2416 Dec 26 22:50	28°♄16'12 -4.9m		2419 Aug 21 23:12	0°♄	
	2416 Dec 30 20:28	0°♄	desc. node	2419 Sep 12 09:06	25°♄38'20	
morning max el	2417 Feb 04 20:43	29°♄19'13 46°56'33		2419 Sep 16 01:08	0°♄	
	2417 Feb 05 12:48	0°♄		2419 Oct 11 13:37	0°♄	
	2417 Mar 05 06:17	0°♄		2419 Nov 06 21:54	0°♄	
desc. node	2417 Mar 27 14:08	25°♄43'32	evening max el	2419 Nov 29 14:43	24°♄13'05	47°14'11
	2417 Mar 31 05:41	0°♄		2419 Dec 05 10:47	0°♄	
	2417 Apr 25 13:08	0°♄	asc. node	2420 Jan 03 12:19	23°♄03'58	
	2417 May 20 13:26	0°♄	greatest brilliancy	2420 Jan 09 03:13	25°♄38'14	-4.9m
	2417 Jun 14 09:51	0°♄	retrograde	2420 Jan 19 10:48	27°♄39'58	
	2417 Jul 09 02:47	0°♄	evening set	2420 Feb 04 18:37	22°♄22'42	
asc. node	2417 Jul 18 17:21	11°♄43'24	min. Earth dist.	2420 Feb 08 05:58	20°♄16'30	0.27032 AU
	2417 Aug 02 15:33	0°♄	inferior conj	2420 Feb 09 02:48	19°♄44'15	7°47'06
morning set	2417 Aug 05 23:08	4°♄04'24	minimum elong	2420 Feb 08 17:41	19°♄58'21	7°45'41
	2417 Aug 26 23:49	0°♄	morning rise	2420 Feb 12 17:09	17°♄32'59	
max. Earth dist.	2417 Sep 08 06:10	15°♄11'21 1.72719 AU	direct	2420 Feb 29 15:41	11°♄59'54	
			greatest brilliancy	2420 Mar 09 15:12	13°♄32'00	-4.9m
superior conj	2417 Sep 11 11:02	19°♄09'50 1°24'53		2420 Apr 04 15:03	0°♄	
minimum elong	2417 Sep 11 10:28	19°♄08'06 1°24'53	morning max el	2420 Apr 19 09:05	13°♄35'53	46°20'32
	2417 Sep 20 04:22	0°♄	desc. node	2420 Apr 24 01:43	18°♄15'53	
	2417 Oct 14 06:40	0°♄		2420 May 05 09:31	0°♄	
evening rise	2417 Oct 19 00:17	5°♄54'06		2420 Jun 01 15:26	0°♄	
desc. node	2417 Nov 07 06:50	29°♄56'13		2420 Jun 27 16:59	0°♄	
	2417 Nov 07 08:03	0°♄		2420 Jul 23 03:27	0°♄	
	2417 Dec 01 09:20	0°♄	asc. node	2420 Aug 15 05:10	27°♄42'12	
	2417 Dec 25 11:29	0°♄		2420 Aug 17 02:41	0°♄	
	2418 Jan 18 16:46	0°♄		2420 Sep 10 16:20	0°♄	
	2418 Feb 12 05:50	0°♄		2420 Oct 04 22:20	0°♄	
asc. node	2418 Feb 28 10:02	19°♄22'24	morning set	2420 Oct 14 05:13	11°♄34'09	
	2418 Mar 09 10:56	0°♄		2420 Oct 28 23:12	0°♄	
	2418 Apr 05 00:37	0°♄	max. Earth dist.	2420 Nov 20 05:55	27°♄56'25	1.71355 AU
evening max el	2418 Apr 23 22:52	19°♄35'00 45°46'24		2420 Nov 21 21:18	0°♄	
	2418 May 05 04:06	0°♄				
greatest brilliancy	2418 May 31 22:00	17°♄52'26 -4.7m	superior conj	2420 Nov 22 00:06	0°♄08'46	0°29'59
retrograde	2418 Jun 11 23:48	20°♄05'30	minimum elong	2420 Nov 22 07:12	0°♄31'06	0°29'39
desc. node	2418 Jun 19 23:27	18°♄48'49	desc. node	2420 Dec 04 18:41	16°♄11'40	

	2420 Dec 15 18:18	0° \mathfrak{Z}		morning max el	2423 Jul 01 04:31	23° \mathfrak{B} 47'37	45°45'34
evening rise	2421 Jan 02 00:16	21° \mathfrak{Z} 40'30			2423 Jul 07 13:12	0° \mathfrak{II}	
	2421 Jan 08 15:18	0° \approx			2423 Aug 04 22:25	0° \mathfrak{E}	
	2421 Feb 01 13:37	0° \mathfrak{H}			2423 Aug 31 07:31	0° \mathfrak{Q}	
	2421 Feb 25 15:21	0° \mathfrak{Y}		asc. node	2423 Sep 12 17:02	14° \mathfrak{Q} 34'06	
	2421 Mar 21 23:32	0° \mathfrak{B}			2423 Sep 25 15:07	0° \mathfrak{M}	
asc. node	2421 Mar 27 21:55	7° \mathfrak{B} 14'25			2423 Oct 20 06:19	0° \mathfrak{L}	
	2421 Apr 15 18:03	0° \mathfrak{II}			2423 Nov 13 11:15	0° \mathfrak{M}	
	2421 May 11 04:38	0° \mathfrak{E}			2423 Dec 07 10:38	0° \mathfrak{X}	
	2421 Jun 06 19:01	0° \mathfrak{Q}		morning set	2423 Dec 28 05:32	26° \mathfrak{X} 07'04	
evening max el	2421 Jul 03 15:25	27° \mathfrak{Q} 42'11	45°26'21		2423 Dec 31 07:36	0° \mathfrak{Z}	
	2421 Jul 06 01:38	0° \mathfrak{M}		desc. node	2424 Jan 02 06:32	2° \mathfrak{Z} 37'36	
desc. node	2421 Jul 17 11:23	10° \mathfrak{M} 05'47			2424 Jan 24 04:01	0° \approx	
greatest brilliancy	2421 Aug 11 11:25	25° \mathfrak{M} 34'32	-4.7m				
retrograde	2421 Aug 21 05:08	27° \mathfrak{M} 16'42		superior conj	2424 Feb 07 23:20	18° \approx 36'34	-1°13'36
evening set	2421 Sep 08 06:05	21° \mathfrak{M} 15'30		minimum elong	2424 Feb 07 12:36	18° \approx 02'49	1°13'19
inferior conj	2421 Sep 11 12:31	19° \mathfrak{M} 15'15	-8°41'08	max. Earth dist.	2424 Feb 10 16:41	22° \approx 01'41	1.71312 AU
minimum elong	2421 Sep 11 11:41	19° \mathfrak{M} 16'32	8°41'08		2424 Feb 17 01:10	0° \mathfrak{H}	
min. Earth dist.	2421 Sep 12 02:16	18° \mathfrak{M} 53'52	0.28541 AU		2424 Mar 12 00:32	0° \mathfrak{Y}	
morning rise	2421 Sep 14 17:07	17° \mathfrak{M} 17'15		evening rise	2424 Mar 19 14:49	9° \mathfrak{Y} 27'54	
direct	2421 Oct 02 22:51	11° \mathfrak{M} 03'35			2424 Apr 05 03:43	0° \mathfrak{B}	
greatest brilliancy	2421 Oct 13 22:44	13° \mathfrak{M} 16'23	-4.8m	asc. node	2424 Apr 24 09:51	23° \mathfrak{B} 44'51	
asc. node	2421 Nov 07 14:30	29° \mathfrak{M} 39'59			2424 Apr 29 12:07	0° \mathfrak{II}	
	2421 Nov 07 23:41	0° \mathfrak{L}			2424 May 24 02:57	0° \mathfrak{E}	
morning max el	2421 Nov 22 05:11	13° \mathfrak{L} 29'01	46°38'46		2424 Jun 18 01:55	0° \mathfrak{Q}	
	2421 Dec 07 20:13	0° \mathfrak{M}			2424 Jul 13 12:43	0° \mathfrak{M}	
	2422 Jan 03 02:18	0° \mathfrak{X}			2424 Aug 08 19:35	0° \mathfrak{L}	
	2422 Jan 28 04:19	0° \mathfrak{Z}		desc. node	2424 Aug 13 23:10	5° \mathfrak{L} 42'16	
	2422 Feb 21 19:04	0° \approx			2424 Sep 05 19:47	0° \mathfrak{M}	
desc. node	2422 Feb 27 04:11	6° \approx 35'43		evening max el	2424 Sep 14 00:51	8° \mathfrak{M} 08'27	46°14'59
	2422 Mar 18 05:21	0° \mathfrak{H}			2424 Oct 09 22:11	0° \mathfrak{X}	
	2422 Apr 11 14:22	0° \mathfrak{Y}		greatest brilliancy	2424 Oct 24 07:43	7° \mathfrak{X} 27'21	-4.8m
	2422 May 05 23:45	0° \mathfrak{B}		retrograde	2424 Nov 02 13:39	9° \mathfrak{X} 02'51	
morning set	2422 May 27 21:28	26° \mathfrak{B} 54'26		evening set	2424 Nov 17 12:18	4° \mathfrak{X} 42'05	
	2422 May 30 09:56	0° \mathfrak{II}		inferior conj	2424 Nov 23 04:55	1° \mathfrak{X} 22'45	-3°00'45
asc. node	2422 Jun 20 07:33	25° \mathfrak{II} 39'32		minimum elong	2424 Nov 23 11:31	1° \mathfrak{X} 12'43	2°58'45
	2422 Jun 23 20:23	0° \mathfrak{E}		min. Earth dist.	2424 Nov 23 18:33	1° \mathfrak{X} 02'03	0.26731 AU
max. Earth dist.	2422 Jul 02 18:55	10° \mathfrak{E} 58'51	1.73574 AU		2424 Nov 25 11:42	30° \mathfrak{R} \mathfrak{M}	
				morning rise	2424 Nov 29 10:09	27° \mathfrak{M} 45'22	
superior conj	2422 Jul 03 16:50	12° \mathfrak{E} 06'10	0°31'10	asc. node	2424 Dec 05 02:29	25° \mathfrak{M} 11'44	
minimum elong	2422 Jul 03 10:50	11° \mathfrak{E} 47'45	0°30'53	direct	2424 Dec 13 18:47	23° \mathfrak{M} 38'12	
	2422 Jul 18 06:11	0° \mathfrak{Q}		greatest brilliancy	2424 Dec 24 12:58	25° \mathfrak{M} 49'46	-4.9m
evening rise	2422 Aug 08 13:35	26° \mathfrak{Q} 14'06			2425 Jan 01 19:52	0° \mathfrak{X}	
	2422 Aug 11 14:56	0° \mathfrak{M}		morning max el	2425 Feb 02 11:39	26° \mathfrak{X} 57'23	46°57'04
	2422 Sep 04 23:13	0° \mathfrak{L}			2425 Feb 05 11:06	0° \mathfrak{Z}	
	2422 Sep 29 08:11	0° \mathfrak{M}			2425 Mar 04 22:32	0° \approx	
desc. node	2422 Oct 09 20:56	12° \mathfrak{M} 56'08		desc. node	2425 Mar 26 16:01	25° \approx 07'43	
	2422 Oct 23 18:53	0° \mathfrak{X}			2425 Mar 30 19:32	0° \mathfrak{H}	
	2422 Nov 17 08:29	0° \mathfrak{Z}			2425 Apr 25 01:42	0° \mathfrak{Y}	
	2422 Dec 12 03:53	0° \approx			2425 May 20 01:15	0° \mathfrak{B}	
	2423 Jan 06 13:15	0° \mathfrak{H}			2425 Jun 13 21:10	0° \mathfrak{II}	
asc. node	2423 Jan 31 00:11	27° \mathfrak{H} 23'17			2425 Jul 08 13:48	0° \mathfrak{E}	
	2423 Feb 02 11:09	0° \mathfrak{Y}		asc. node	2425 Jul 17 19:23	11° \mathfrak{E} 16'10	
evening max el	2423 Feb 09 11:57	7° \mathfrak{Y} 17'08	46°53'17		2425 Aug 02 02:24	0° \mathfrak{Q}	
	2423 Mar 07 01:21	0° \mathfrak{B}		morning set	2425 Aug 03 16:55	1° \mathfrak{Q} 58'14	
greatest brilliancy	2423 Mar 21 11:48	8° \mathfrak{B} 08'36	-4.8m		2425 Aug 26 10:38	0° \mathfrak{M}	
retrograde	2423 Mar 31 23:31	10° \mathfrak{B} 12'36		max. Earth dist.	2425 Sep 06 00:23	13° \mathfrak{M} 05'24	1.72765 AU
evening set	2423 Apr 17 18:37	4° \mathfrak{B} 43'59					
inferior conj	2423 Apr 22 04:52	1° \mathfrak{B} 59'45	6°29'43	superior conj	2425 Sep 09 04:07	17° \mathfrak{M} 00'12	1°24'42
minimum elong	2423 Apr 22 14:47	1° \mathfrak{B} 44'06	6°27'43	minimum elong	2425 Sep 09 02:51	16° \mathfrak{M} 56'17	1°24'43
min. Earth dist.	2423 Apr 22 03:16	2° \mathfrak{B} 02'17	0.28362 AU		2425 Sep 19 15:15	0° \mathfrak{L}	
	2423 Apr 25 09:40	30° \mathfrak{R} \mathfrak{Y}			2425 Oct 13 17:42	0° \mathfrak{M}	
morning rise	2423 Apr 27 11:13	28° \mathfrak{Y} 46'38		evening rise	2425 Oct 16 14:29	3° \mathfrak{M} 34'22	
direct	2423 May 13 08:51	23° \mathfrak{Y} 52'30		desc. node	2425 Nov 06 08:54	29° \mathfrak{M} 27'42	
desc. node	2423 May 22 13:32	25° \mathfrak{Y} 25'11			2425 Nov 06 19:16	0° \mathfrak{X}	
greatest brilliancy	2423 May 23 03:36	25° \mathfrak{Y} 36'52	-4.7m		2425 Nov 30 20:47	0° \mathfrak{Z}	
	2423 Jun 01 12:26	0° \mathfrak{B}			2425 Dec 24 23:14	0° \approx	

	2426 Jan 18 04:57	0° Υ			2428 Sep 10 03:32	0° Υ		
	2426 Feb 11 18:42	0° Υ			2428 Oct 04 09:26	0° Ω		
asc. node	2426 Feb 27 11:59	18° Υ 48'05		morning set	2428 Oct 11 20:23	9° Ω 17'09		
	2426 Mar 09 01:05	0° Υ			2428 Oct 28 10:19	0° Ω		
	2426 Apr 04 17:48	0° Ω		max. Earth dist.	2428 Nov 17 12:05	25° Ω 10'04	1.71393 AU	
evening max el	2426 Apr 21 15:39	17° Ω 25'28	45°48'20					
	2426 May 05 08:50	0° Ω		superior conj	2428 Nov 19 12:07	27° Ω 40'48	0°33'30	
greatest brilliancy	2426 May 29 14:07	15° Ω 43'25	-4.7m	minimum elong	2428 Nov 19 19:54	28° Ω 05'11	0°33'10	
retrograde	2426 Jun 09 16:44	17° Ω 56'46			2428 Nov 21 08:29	0° Υ		
desc. node	2426 Jun 19 01:30	16° Ω 11'30		desc. node	2428 Dec 03 20:50	15° Υ 43'04		
evening set	2426 Jun 24 18:40	13° Ω 31'30			2428 Dec 15 05:34	0° Ω		
inferior conj	2426 Jul 01 03:41	9° Ω 41'52	-2°48'23	evening rise	2428 Dec 30 10:22	19° Ω 05'52		
minimum elong	2426 Jun 30 21:45	9° Ω 51'09	2°46'43		2429 Jan 08 02:39	0° Υ		
min. Earth dist.	2426 Jun 30 23:33	9° Ω 48'21	0.28969 AU		2429 Feb 01 01:04	0° Υ		
morning rise	2426 Jul 07 01:03	6° Ω 08'51			2429 Feb 25 02:57	0° Υ		
direct	2426 Jul 22 18:50	1° Ω 25'05			2429 Mar 21 11:25	0° Υ		
greatest brilliancy	2426 Aug 02 01:58	3° Ω 19'49	-4.7m	asc. node	2429 Mar 26 23:59	6° Υ 44'08		
	2426 Sep 08 05:02	0° Ω			2429 Apr 15 06:33	0° Ω		
morning max el	2426 Sep 09 18:45	1° Ω 30'20	45°54'41		2429 May 10 18:19	0° Ω		
	2426 Oct 07 01:03	0° Υ			2429 Jun 06 11:19	0° Ω		
asc. node	2426 Oct 10 04:51	3° Υ 31'09		evening max el	2429 Jul 01 05:31	25° Ω 26'40	45°25'54	
	2426 Nov 02 03:57	0° Ω			2429 Jul 06 02:06	0° Υ		
	2426 Nov 27 02:38	0° Ω		desc. node	2429 Jul 16 13:24	9° Υ 04'26		
	2426 Dec 21 11:28	0° Υ		greatest brilliancy	2429 Aug 09 01:16	23° Υ 20'40	-4.7m	
	2427 Jan 14 13:59	0° Ω		retrograde	2429 Aug 18 19:37	25° Υ 03'56		
desc. node	2427 Jan 29 18:20	18° Ω 57'54		evening set	2429 Sep 05 19:50	19° Υ 04'17		
	2427 Feb 07 14:11	0° Υ		inferior conj	2429 Sep 09 03:55	17° Υ 01'41	-8°39'29	
	2427 Mar 03 14:18	0° Υ		minimum elong	2429 Sep 09 02:15	17° Υ 04'16	8°39'27	
morning set	2427 Mar 15 05:45	14° Υ 31'44		min. Earth dist.	2429 Sep 09 17:06	16° Υ 41'12	0.28590 AU	
	2427 Mar 27 15:47	0° Υ		morning rise	2429 Sep 12 08:29	15° Υ 03'43		
	2427 Apr 20 19:40	0° Υ		direct	2429 Sep 30 14:09	8° Υ 49'09		
				greatest brilliancy	2429 Oct 11 14:48	11° Υ 02'12	-4.8m	
superior conj	2427 Apr 23 08:47	3° Υ 09'11	-1°02'57	asc. node	2429 Nov 06 16:42	28° Υ 39'30		
minimum elong	2427 Apr 23 18:59	3° Υ 40'46	1°02'36		2429 Nov 08 04:42	0° Ω		
max. Earth dist.	2427 Apr 26 15:58	7° Υ 14'14	1.72785 AU	morning max el	2429 Nov 19 19:21	11° Ω 07'46	46°37'17	
	2427 May 15 02:27	0° Ω			2429 Dec 07 14:03	0° Ω		
asc. node	2427 May 22 21:48	9° Ω 36'44			2430 Jan 02 17:01	0° Υ		
evening rise	2427 May 31 06:46	19° Ω 54'34			2430 Jan 27 17:37	0° Ω		
	2427 Jun 08 12:02	0° Ω			2430 Feb 21 07:34	0° Υ		
	2427 Jul 03 00:13	0° Ω		desc. node	2430 Feb 26 06:11	6° Υ 03'59		
	2427 Jul 27 15:29	0° Υ			2430 Mar 17 17:17	0° Υ		
	2427 Aug 21 11:18	0° Ω			2430 Apr 11 01:53	0° Υ		
desc. node	2427 Sep 11 11:00	25° Ω 05'46			2430 May 05 10:57	0° Υ		
	2427 Sep 15 14:11	0° Ω		morning set	2430 May 25 14:35	24° Υ 45'44		
	2427 Oct 11 04:15	0° Υ			2430 May 29 20:56	0° Ω		
	2427 Nov 06 15:36	0° Ω		asc. node	2430 Jun 19 09:34	25° Ω 12'10		
evening max el	2427 Nov 27 05:17	21° Ω 49'53	47°13'13		2430 Jun 23 07:18	0° Ω		
	2427 Dec 05 13:20	0° Υ		max. Earth dist.	2430 Jun 30 14:50	8° Ω 59'10	1.73576 AU	
asc. node	2428 Jan 02 14:22	21° Υ 23'42						
greatest brilliancy	2428 Jan 06 17:16	23° Υ 11'25	-4.9m	superior conj	2430 Jul 01 11:03	10° Ω 01'17	0°28'13	
retrograde	2428 Jan 17 00:06	25° Υ 12'00		minimum elong	2430 Jul 01 05:33	9° Ω 44'21	0°27'57	
evening set	2428 Feb 02 03:48	20° Υ 01'38			2430 Jul 17 17:04	0° Ω		
min. Earth dist.	2428 Feb 05 19:06	17° Υ 49'37	0.26978 AU	evening rise	2430 Aug 06 08:19	24° Ω 10'16		
inferior conj	2428 Feb 06 15:48	17° Υ 17'32	7°35'28		2430 Aug 11 01:54	0° Υ		
minimum elong	2428 Feb 06 06:16	17° Υ 32'19	7°33'51		2430 Sep 04 10:23	0° Ω		
morning rise	2428 Feb 10 09:07	15° Υ 01'48			2430 Sep 28 19:41	0° Ω		
direct	2428 Feb 27 04:18	9° Υ 34'13		desc. node	2430 Oct 08 23:05	12° Ω 26'50		
greatest brilliancy	2428 Mar 07 04:10	11° Υ 06'18	-4.9m		2430 Oct 23 06:53	0° Υ		
	2428 Apr 04 22:29	0° Υ			2430 Nov 16 21:11	0° Ω		
morning max el	2428 Apr 16 21:46	11° Υ 11'56	46°22'04		2430 Dec 11 17:37	0° Υ		
desc. node	2428 Apr 23 03:52	17° Υ 27'12			2431 Jan 06 04:51	0° Υ		
	2428 May 05 03:54	0° Υ		asc. node	2431 Jan 30 02:08	26° Υ 36'33		
	2428 Jun 01 06:06	0° Υ			2431 Feb 02 07:21	0° Υ		
	2428 Jun 27 05:56	0° Ω		evening max el	2431 Feb 07 01:59	4° Υ 55'03	46°55'20	
	2428 Jul 22 15:27	0° Ω			2431 Mar 08 00:19	0° Υ		
asc. node	2428 Aug 14 07:11	27° Ω 13'29		greatest brilliancy	2431 Mar 19 03:57	5° Υ 52'48	-4.8m	
	2428 Aug 16 14:09	0° Ω		retrograde	2431 Mar 29 15:18	7° Υ 57'00		

evening set	2431 Apr 15 12:59	2°♄23'49		superior conj	2433 Sep 06 21:23	14°♎51'32	1°24'25
	2431 Apr 19 10:18	30°♋♎		minimum elong	2433 Sep 06 19:26	14°♎45'27	1°24'25
inferior conj	2431 Apr 19 20:17	29°♎44'16	6°43'47		2433 Sep 19 02:04	0°♊	
minimum elong	2431 Apr 20 06:07	29°♎28'46	6°41'53		2433 Oct 13 04:39	0°♌	
min. Earth dist.	2431 Apr 19 18:23	29°♎47'15	0.28331 AU	evening rise	2433 Oct 14 05:02	1°♌15'59	
morning rise	2431 Apr 24 23:29	26°♎35'54		desc. node	2433 Nov 05 11:00	28°♌59'34	
direct	2431 May 10 23:18	21°♎37'21			2433 Nov 06 06:24	0°♈	
greatest brilliancy	2431 May 20 18:04	23°♎21'55	-4.8m		2433 Nov 30 08:07	0°♊	
desc. node	2431 May 21 15:37	23°♎41'01			2433 Dec 24 10:51	0°♌	
	2431 Jun 02 18:24	0°♄			2434 Jan 17 17:00	0°♈	
morning max el	2431 Jun 28 20:21	21°♄36'12	45°46'13		2434 Feb 11 07:27	0°♎	
	2431 Jul 07 09:29	0°♊		asc. node	2434 Feb 26 14:03	18°♎14'27	
	2431 Aug 04 13:31	0°♄			2434 Mar 08 15:13	0°♄	
	2431 Aug 30 20:36	0°♌			2434 Apr 04 11:15	0°♊	
asc. node	2431 Sep 11 19:03	14°♌02'58		evening max el	2434 Apr 19 08:15	15°♊15'28	45°50'07
	2431 Sep 25 03:12	0°♎			2434 May 05 15:38	0°♄	
	2431 Oct 19 17:53	0°♊		greatest brilliancy	2434 May 27 06:59	13°♄35'12	-4.7m
	2431 Nov 12 22:34	0°♌		retrograde	2434 Jun 07 09:11	15°♄47'57	
	2431 Dec 06 21:51	0°♈		desc. node	2434 Jun 18 03:29	13°♄29'54	
morning set	2431 Dec 25 16:06	23°♈34'15		evening set	2434 Jun 22 10:36	11°♄23'53	
	2431 Dec 30 18:46	0°♊		inferior conj	2434 Jun 28 20:07	7°♄33'13	-2°29'32
desc. node	2432 Jan 01 08:31	1°♊58'42		minimum elong	2434 Jun 28 14:48	7°♄41'33	2°28'01
	2432 Jan 23 15:09	0°♌		min. Earth dist.	2434 Jun 28 16:00	7°♄39'39	0.28954 AU
				morning rise	2434 Jul 04 19:14	3°♄57'30	
superior conj	2432 Feb 05 09:30	16°♌02'46	-1°11'26		2434 Jul 14 10:25	30°♋♊	
minimum elong	2432 Feb 04 22:16	15°♌27'30	1°11'07	direct	2434 Jul 20 11:25	29°♊16'52	
max. Earth dist.	2432 Feb 07 22:24	19°♌14'01	1.71285 AU		2434 Jul 26 16:36	0°♄	
	2432 Feb 16 12:17	0°♈		greatest brilliancy	2434 Jul 30 17:19	1°♄10'23	-4.7m
	2432 Mar 11 11:38	0°♎		morning max el	2434 Sep 07 09:57	29°♄18'20	45°53'29
evening rise	2432 Mar 17 02:37	7°♎00'41			2434 Sep 08 03:13	0°♌	
	2432 Apr 04 14:51	0°♄			2434 Oct 06 16:35	0°♎	
asc. node	2432 Apr 23 11:58	23°♄16'55		asc. node	2434 Oct 09 07:02	2°♎54'40	
	2432 Apr 28 23:23	0°♊			2434 Nov 01 17:17	0°♊	
	2432 May 23 14:30	0°♄			2434 Nov 26 14:56	0°♌	
	2432 Jun 17 14:02	0°♌			2434 Dec 20 23:14	0°♈	
	2432 Jul 13 01:57	0°♎			2435 Jan 14 01:23	0°♊	
	2432 Aug 08 11:03	0°♊		desc. node	2435 Jan 28 20:21	18°♊29'01	
desc. node	2432 Aug 13 01:08	5°♊03'29			2435 Feb 07 01:21	0°♌	
	2432 Sep 05 16:46	0°♌			2435 Mar 03 01:16	0°♈	
evening max el	2432 Sep 11 15:20	5°♌50'39	46°12'43	morning set	2435 Mar 12 18:04	12°♈06'34	
	2432 Oct 11 04:58	0°♈			2435 Mar 27 02:36	0°♎	
greatest brilliancy	2432 Oct 21 20:05	5°♈02'07	-4.8m		2435 Apr 20 06:23	0°♄	
retrograde	2432 Oct 31 02:34	6°♈37'31					
evening set	2432 Nov 15 03:19	2°♈13'24		superior conj	2435 Apr 20 23:45	0°♄53'46	-1°05'18
	2432 Nov 18 23:53	30°♋♌		minimum elong	2435 Apr 21 09:55	1°♄25'15	1°04'58
inferior conj	2432 Nov 20 17:34	28°♌56'58	-3°23'02	max. Earth dist.	2435 Apr 24 11:19	5°♄12'26	1.72735 AU
minimum elong	2432 Nov 21 00:52	28°♌45'53	3°20'51		2435 May 14 13:08	0°♊	
min. Earth dist.	2432 Nov 21 08:02	28°♌35'00	0.26778 AU	asc. node	2435 May 21 23:47	9°♊09'55	
morning rise	2432 Nov 26 21:54	25°♌20'53		evening rise	2435 May 28 23:59	17°♊47'03	
asc. node	2432 Dec 04 04:26	22°♌15'48			2435 Jun 07 22:46	0°♄	
direct	2432 Dec 11 08:41	21°♌11'47			2435 Jul 02 11:09	0°♌	
greatest brilliancy	2432 Dec 22 02:48	23°♌23'44	-4.9m		2435 Jul 27 02:45	0°♎	
	2433 Jan 03 03:31	0°♈			2435 Aug 20 23:10	0°♊	
morning max el	2433 Jan 31 02:21	24°♈35'18	46°57'18	desc. node	2435 Sep 10 13:09	24°♊34'45	
	2433 Feb 05 08:27	0°♊			2435 Sep 15 03:00	0°♌	
	2433 Mar 04 14:29	0°♌			2435 Oct 10 18:43	0°♈	
desc. node	2433 Mar 25 18:09	24°♌32'46			2435 Nov 06 09:20	0°♊	
	2433 Mar 30 09:18	0°♈		evening max el	2435 Nov 24 18:57	19°♊25'20	47°12'04
	2433 Apr 24 14:16	0°♎			2435 Dec 05 17:02	0°♌	
	2433 May 19 13:05	0°♄		asc. node	2436 Jan 01 16:22	19°♌40'23	
	2433 Jun 13 08:30	0°♊		greatest brilliancy	2436 Jan 04 07:45	20°♌45'50	-4.9m
	2433 Jul 08 00:46	0°♄		retrograde	2436 Jan 14 12:55	22°♌44'57	
asc. node	2433 Jul 16 21:21	10°♄48'52		evening set	2436 Jan 30 12:56	17°♌41'20	
morning set	2433 Aug 01 10:41	29°♄52'20		min. Earth dist.	2436 Feb 03 08:39	15°♌23'03	0.26924 AU
	2433 Aug 01 13:11	0°♌		inferior conj	2436 Feb 04 04:47	14°♌51'51	7°22'45
	2433 Aug 25 21:23	0°♎		minimum elong	2436 Feb 03 18:53	15°♌07'11	7°20'59
max. Earth dist.	2433 Sep 03 17:27	10°♎56'14	1.72810 AU	morning rise	2436 Feb 08 01:10	12°♌31'29	

direct	2436 Feb 24 16:25	7°  09'19		desc. node	2438 Oct 08 01:06	11°  58'02	
greatest brilliancy	2436 Mar 04 17:47	8°  42'16	-4.9m		2438 Oct 22 18:38	0° 	
	2436 Apr 05 03:13	0° 			2438 Nov 16 09:37	0° 	
morning max el	2436 Apr 14 10:00	8°  47'57	46°23'45		2438 Dec 11 07:06	0° 	
desc. node	2436 Apr 22 05:57	16°  40'25			2439 Jan 05 20:18	0° 	
	2436 May 04 21:22	0° 		asc. node	2439 Jan 29 04:14	25°  50'36	
	2436 May 31 20:10	0° 			2439 Feb 02 03:48	0° 	
	2436 Jun 26 18:25	0° 		evening max el	2439 Feb 04 16:54	2°  36'17	46°57'20
	2436 Jul 22 03:04	0° 			2439 Mar 09 07:41	0° 	
asc. node	2436 Aug 13 09:14	26°  45'54		greatest brilliancy	2439 Mar 16 19:27	3°  37'01	-4.8m
	2436 Aug 16 01:16	0° 		retrograde	2439 Mar 27 07:24	5°  41'56	
	2436 Sep 09 14:23	0° 		evening set	2439 Apr 13 07:17	0°  04'07	
	2436 Oct 03 20:10	0° 			2439 Apr 13 10:03	30°  R 	
morning set	2436 Oct 09 11:37	7°  01'37		inferior conj	2439 Apr 17 11:34	27°  Y29'13	6°57'13
	2436 Oct 27 21:02	0° 		minimum elong	2439 Apr 17 21:17	27°  Y13'57	6°55'26
max. Earth dist.	2436 Nov 14 21:25	22°  M34'58	1.71434 AU	min. Earth dist.	2439 Apr 17 09:04	27°  Y33'10	0.28300 AU
				morning rise	2439 Apr 22 11:32	24°  Y25'54	
superior conj	2436 Nov 17 00:21	25°  M14'47	0°36'57	direct	2439 May 08 14:10	19°  Y22'46	
minimum elong	2436 Nov 17 08:43	25°  M41'02	0°36'34	greatest brilliancy	2439 May 18 07:55	21°  Y06'59	-4.8m
	2436 Nov 20 19:15	0° 		desc. node	2439 May 20 17:32	22°  Y01'09	
desc. node	2436 Dec 02 22:45	15°  X15'03			2439 Jun 03 15:39	0° 	
	2436 Dec 14 16:27	0° 		morning max el	2439 Jun 26 12:44	19°  B27'05	45°46'56
evening rise	2436 Dec 27 20:43	16°  B33'19			2439 Jul 07 04:45	0° 	
	2437 Jan 07 13:39	0° 			2439 Aug 04 04:04	0° 	
	2437 Jan 31 12:09	0° 			2439 Aug 30 09:16	0° 	
	2437 Feb 24 14:11	0° 		asc. node	2439 Sep 10 21:11	13°  B33'12	
	2437 Mar 20 22:56	0° 			2439 Sep 24 14:57	0° 	
asc. node	2437 Mar 26 02:07	6°  B15'18			2439 Oct 19 05:12	0° 	
	2437 Apr 14 18:40	0° 			2439 Nov 12 09:41	0°  M	
	2437 May 10 07:40	0° 		greatest brilliancy	2439 Nov 27 01:01	18°  M18'07	-3.9m
	2437 Jun 06 03:27	0° 			2439 Dec 06 08:51	0° 	
evening max el	2437 Jun 28 19:47	23°  B12'46	45°25'26	morning set	2439 Dec 23 02:38	21°  X02'04	
	2437 Jul 06 03:22	0° 			2439 Dec 30 05:43	0° 	
desc. node	2437 Jul 15 15:24	8°  M02'29		desc. node	2439 Dec 31 10:34	1°  B30'45	
greatest brilliancy	2437 Aug 06 14:28	21°  M07'04	-4.7m		2440 Jan 23 02:02	0° 	
retrograde	2437 Aug 16 10:38	22°  M52'12					
evening set	2437 Sep 03 09:11	16°  M54'23		superior conj	2440 Feb 02 19:24	13°  B28'56	-1°09'06
inferior conj	2437 Sep 06 19:16	14°  M48'59	-8°37'00	minimum elong	2440 Feb 02 07:49	12°  B52'30	1°08'46
minimum elong	2437 Sep 06 16:49	14°  M52'47	8°36'55	max. Earth dist.	2440 Feb 05 07:27	16°  B37'34	1.71256 AU
min. Earth dist.	2437 Sep 07 07:38	14°  M29'47	0.28638 AU		2440 Feb 15 23:08	0° 	
morning rise	2437 Sep 10 00:13	12°  M50'35			2440 Mar 10 22:30	0°  Y	
direct	2437 Sep 28 05:39	6°  M35'38		evening rise	2440 Mar 14 14:18	4°  Y33'44	
greatest brilliancy	2437 Oct 09 06:42	8°  M49'01	-4.8m		2440 Apr 04 01:47	0°  B	
asc. node	2437 Nov 05 18:38	27°  M40'53		asc. node	2440 Apr 22 13:57	22°  B49'10	
	2437 Nov 08 07:29	0° 			2440 Apr 28 10:27	0°  M	
morning max el	2437 Nov 17 10:22	8°  B50'00	46°35'53		2440 May 23 01:52	0° 	
	2437 Dec 07 07:03	0°  M			2440 Jun 17 02:00	0°  B	
	2438 Jan 02 07:09	0° 			2440 Jul 12 15:04	0°  M	
	2438 Jan 27 06:26	0° 			2440 Aug 08 02:31	0°  B	
	2438 Feb 20 19:37	0° 		desc. node	2440 Aug 12 03:17	4°  B25'33	
desc. node	2438 Feb 25 08:15	5°  B33'41			2440 Sep 05 14:17	0°  M	
	2438 Mar 17 04:48	0° 		evening max el	2440 Sep 09 05:49	3°  M33'32	46°10'15
	2438 Apr 10 13:00	0°  Y			2440 Oct 13 01:42	0°  X	
	2438 May 04 21:46	0°  B		greatest brilliancy	2440 Oct 19 08:30	2°  X37'22	-4.8m
morning set	2438 May 23 07:43	22°  B38'10		retrograde	2440 Oct 28 14:51	4°  X12'05	
	2438 May 29 07:34	0°  M			2440 Nov 12 07:02	30°  R 	
asc. node	2438 Jun 18 11:33	24°  M45'55		evening set	2440 Nov 12 18:22	29°  M44'40	
	2438 Jun 22 17:49	0° 		inferior conj	2440 Nov 18 06:05	26°  M31'14	-3°44'58
max. Earth dist.	2438 Jun 28 12:48	7°  B06'57	1.73578 AU	minimum elong	2440 Nov 18 14:02	26°  M19'08	3°42'38
				min. Earth dist.	2440 Nov 18 21:29	26°  M07'49	0.26828 AU
superior conj	2438 Jun 29 05:17	7°  B57'34	0°25'12	morning rise	2440 Nov 24 09:14	22°  M56'30	
minimum elong	2438 Jun 29 00:17	7°  B42'12	0°24'59	asc. node	2440 Dec 03 06:28	19°  M25'06	
	2438 Jul 17 03:36	0°  B		direct	2440 Dec 08 22:26	18°  M45'24	
evening rise	2438 Aug 04 03:08	22°  B07'49		greatest brilliancy	2440 Dec 19 16:38	20°  M57'29	-4.9m
	2438 Aug 10 12:33	0° 			2441 Jan 04 02:24	0°  X	
	2438 Sep 03 21:16	0° 		morning max el	2441 Jan 28 16:03	22°  X10'38	46°57'31
	2438 Sep 28 06:56	0°  M			2441 Feb 05 05:03	0°  B	

	2441 Mar 04 06:07	0°♊			2443 Sep 14 16:04	0°♎	
desc. node	2441 Mar 24 20:14	23°♊58'11			2443 Oct 10 09:28	0°♏	
	2441 Mar 29 22:49	0°♐			2443 Nov 06 03:36	0°♑	
	2441 Apr 24 02:39	0°♑	evening max el		2443 Nov 22 07:41	16°♑58'13	47°10'51
	2441 May 19 00:45	0°♒			2443 Dec 05 22:45	0°♒	
	2441 Jun 12 19:41	0°♓	asc. node		2443 Dec 31 18:26	17°♒52'25	
	2441 Jul 07 11:39	0°♈	greatest brilliancy		2444 Jan 01 21:57	18°♒19'13	-4.9m
asc. node	2441 Jul 15 23:28	10°♈22'19	retrograde		2444 Jan 12 01:30	20°♒17'18	
morning set	2441 Jul 30 04:37	27°♈47'12	evening set		2444 Jan 27 22:01	15°♒19'50	
	2441 Jul 31 23:53	0°♉	min. Earth dist.		2444 Jan 31 22:13	12°♒55'26	0.26878 AU
	2441 Aug 25 08:02	0°♊	inferior conj		2444 Feb 01 17:43	12°♒25'16	7°09'04
max. Earth dist.	2441 Sep 01 09:48	8°♊45'12	minimum elong		2444 Feb 01 07:31	12°♒41'04	7°07'07
			morning rise		2444 Feb 05 17:18	10°♒00'18	
superior conj	2441 Sep 04 14:58	12°♊44'13	direct		2444 Feb 22 04:23	4°♒43'09	
minimum elong	2441 Sep 04 12:19	12°♊36'01	greatest brilliancy		2444 Mar 02 07:49	6°♒17'39	-4.9m
	2441 Sep 18 12:47	0°♋			2444 Apr 05 06:38	0°♋	
evening rise	2441 Oct 11 19:53	28°♋58'50	morning max el		2444 Apr 11 22:38	6°♋23'39	46°25'24
	2441 Oct 12 15:31	0°♌	desc. node		2444 Apr 21 07:53	15°♋52'52	
desc. node	2441 Nov 04 12:58	28°♌31'10			2444 May 04 14:50	0°♌	
	2441 Nov 05 17:29	0°♍			2444 May 31 10:24	0°♍	
	2441 Nov 29 19:29	0°♎			2444 Jun 26 07:06	0°♎	
	2441 Dec 23 22:33	0°♏			2444 Jul 21 14:54	0°♏	
	2442 Jan 17 05:09	0°♐	asc. node		2444 Aug 12 11:18	26°♏17'34	
	2442 Feb 10 20:20	0°♑			2444 Aug 15 12:38	0°♉	
asc. node	2442 Feb 25 16:09	17°♑40'33			2444 Sep 09 01:30	0°♊	
	2442 Mar 08 05:33	0°♒			2444 Oct 03 07:11	0°♋	
	2442 Apr 04 05:08	0°♓	morning set		2444 Oct 07 03:06	4°♋46'01	
evening max el	2442 Apr 16 23:48	13°♓02'38			2444 Oct 27 08:01	0°♌	
	2442 May 06 01:06	0°♈	max. Earth dist.		2444 Nov 12 09:26	20°♌07'28	1.71470 AU
greatest brilliancy	2442 May 25 00:10	11°♈27'02					
retrograde	2442 Jun 05 01:05	13°♈38'55	superior conj		2444 Nov 14 13:00	22°♌49'16	0°40'17
desc. node	2442 Jun 17 05:35	10°♈43'37	minimum elong		2444 Nov 14 21:53	23°♌17'08	0°39'53
evening set	2442 Jun 20 02:38	9°♈15'39			2444 Nov 20 06:17	0°♍	
inferior conj	2442 Jun 26 12:30	5°♈24'20	desc. node		2444 Dec 02 00:51	14°♍46'54	
minimum elong	2442 Jun 26 07:50	5°♈31'41			2444 Dec 14 03:33	0°♎	
min. Earth dist.	2442 Jun 26 08:44	5°♈30'15	evening rise		2444 Dec 25 07:32	14°♎01'34	
morning rise	2442 Jul 02 13:12	1°♈45'59			2445 Jan 07 00:51	0°♏	
	2442 Jul 06 00:17	30°♉♊			2445 Jan 30 23:29	0°♐	
direct	2442 Jul 18 03:33	27°♊08'14			2445 Feb 24 01:42	0°♑	
greatest brilliancy	2442 Jul 28 09:13	29°♊01'11			2445 Mar 20 10:49	0°♒	
	2442 Jul 30 21:46	0°♋	asc. node		2445 Mar 25 04:01	5°♒44'42	
morning max el	2442 Sep 05 00:26	27°♋04'22			2445 Apr 14 07:13	0°♓	
	2442 Sep 08 00:37	0°♉			2445 May 09 21:32	0°♈	
	2442 Oct 06 07:56	0°♊			2445 Jun 05 20:20	0°♉	
asc. node	2442 Oct 08 08:56	2°♊17'38	evening max el		2445 Jun 26 10:44	20°♉59'31	45°25'12
	2442 Nov 01 06:32	0°♋			2445 Jul 06 06:34	0°♊	
	2442 Nov 26 03:14	0°♌	desc. node		2445 Jul 14 17:32	6°♊58'09	
	2442 Dec 20 11:01	0°♍	greatest brilliancy		2445 Aug 04 03:14	18°♊52'14	-4.7m
	2443 Jan 13 12:53	0°♎	retrograde		2445 Aug 14 02:09	20°♊39'37	
desc. node	2443 Jan 27 22:30	18°♋00'05	evening set		2445 Aug 31 22:17	14°♋44'04	
	2443 Feb 06 12:39	0°♏	inferior conj		2445 Sep 04 10:38	12°♋35'20	-8°33'43
	2443 Mar 02 12:25	0°♐	minimum elong		2445 Sep 04 07:24	12°♋40'20	8°33'35
morning set	2443 Mar 10 05:42	9°♐38'33	min. Earth dist.		2445 Sep 04 21:48	12°♋18'01	0.28684 AU
	2443 Mar 26 13:36	0°♑	morning rise		2445 Sep 07 16:19	10°♋35'58	
			direct		2445 Sep 25 21:39	4°♋21'18	
superior conj	2443 Apr 18 14:13	28°♑36'15	greatest brilliancy		2445 Oct 06 22:06	6°♋34'25	-4.8m
minimum elong	2443 Apr 19 00:18	29°♑07'27	asc. node		2445 Nov 04 20:41	26°♋42'45	
	2443 Apr 19 17:16	0°♒			2445 Nov 08 09:17	0°♌	
max. Earth dist.	2443 Apr 22 05:00	3°♒04'59	morning max el		2445 Nov 15 02:11	6°♌33'26	46°34'32
	2443 May 13 23:58	0°♓			2445 Dec 07 00:05	0°♍	
asc. node	2443 May 21 01:46	8°♓42'39			2446 Jan 01 21:27	0°♎	
evening rise	2443 May 26 16:49	15°♓37'53			2446 Jan 26 19:27	0°♏	
	2443 Jun 07 09:40	0°♈			2446 Feb 20 07:52	0°♐	
	2443 Jul 01 22:15	0°♉	desc. node		2446 Feb 24 10:20	5°♐02'41	
	2443 Jul 26 14:15	0°♊			2446 Mar 16 16:33	0°♑	
	2443 Aug 20 11:15	0°♋			2446 Apr 10 00:24	0°♒	
desc. node	2443 Sep 09 15:12	24°♋02'46			2446 May 04 08:56	0°♓	

morning set	2446 May 21 00:42	20°♄28'57		retrograde	2448 Oct 26 02:47	1°♁46'33	
	2446 May 28 18:33	0°♂			2448 Nov 04 13:21	30°♁	
asc. node	2446 Jun 17 13:43	24°♂19'05		evening set	2448 Nov 10 09:43	27°♁15'43	
	2446 Jun 22 04:43	0°♄		inferior conj	2448 Nov 15 18:50	24°♁05'31	-4°06'07
				minimum elong	2448 Nov 16 03:21	23°♁52'31	4°03'42
superior conj	2446 Jun 26 23:15	5°♄51'54	0°22'09	min. Earth dist.	2448 Nov 16 11:20	23°♁40'20	0.26881 AU
minimum elong	2446 Jun 26 18:48	5°♄38'14	0°21'56	morning rise	2448 Nov 21 20:28	20°♁32'16	
max. Earth dist.	2446 Jun 26 11:26	5°♄15'36	1.73577 AU	asc. node	2448 Dec 02 08:37	16°♁39'54	
	2446 Jul 16 14:29	0°♂		direct	2448 Dec 06 11:53	16°♁18'53	
evening rise	2446 Aug 01 21:49	20°♂03'54		greatest brilliancy	2448 Dec 17 07:00	18°♁31'26	-4.9m
	2446 Aug 09 23:32	0°♁			2449 Jan 04 19:40	0°♁	
	2446 Sep 03 08:31	0°♄		morning max el	2449 Jan 26 04:58	19°♁43'05	46°57'40
	2446 Sep 27 18:35	0°♁			2449 Feb 05 01:18	0°♄	
desc. node	2446 Oct 07 03:04	11°♁27'52			2449 Mar 03 21:47	0°♁	
	2446 Oct 22 06:48	0°♁		desc. node	2449 Mar 23 22:09	23°♁22'34	
	2446 Nov 15 22:29	0°♄			2449 Mar 29 12:28	0°♁	
	2446 Dec 10 21:03	0°♁			2449 Apr 23 15:10	0°♁	
	2447 Jan 05 12:17	0°♁			2449 May 18 12:33	0°♄	
asc. node	2447 Jan 28 06:19	25°♁03'12			2449 Jun 12 07:00	0°♂	
	2447 Feb 02 01:13	0°♁			2449 Jul 06 22:40	0°♄	
evening max el	2447 Feb 02 08:40	0°♁18'55	46°59'20	asc. node	2449 Jul 15 01:30	9°♄54'57	
	2447 Mar 11 06:50	0°♄		morning set	2449 Jul 27 22:40	25°♄41'53	
greatest brilliancy	2447 Mar 14 10:49	1°♄20'46	-4.8m		2449 Jul 31 10:46	0°♂	
retrograde	2447 Mar 24 23:48	3°♄26'23			2449 Aug 24 18:54	0°♁	
	2447 Apr 07 00:03	30°♁		max. Earth dist.	2449 Aug 30 01:54	6°♁32'48	1.72901 AU
evening set	2447 Apr 11 01:44	27°♁44'13					
inferior conj	2447 Apr 15 03:01	25°♁13'43	7°09'56	superior conj	2449 Sep 02 08:41	10°♁36'43	1°23'28
minimum elong	2447 Apr 15 12:32	24°♁58'47	7°08'17	minimum elong	2449 Sep 02 05:23	10°♁26'31	1°23'27
min. Earth dist.	2447 Apr 14 23:33	25°♁19'11	0.28269 AU		2449 Sep 17 23:44	0°♄	
morning rise	2447 Apr 19 23:38	22°♁15'32		evening rise	2449 Oct 09 10:49	26°♄41'29	
direct	2447 May 06 05:37	17°♁07'57			2449 Oct 12 02:37	0°♁	
greatest brilliancy	2447 May 15 21:26	18°♁51'03	-4.8m	desc. node	2449 Nov 03 15:04	28°♁02'36	
desc. node	2447 May 19 19:42	20°♁24'33			2449 Nov 05 04:46	0°♁	
	2447 Jun 04 07:46	0°♄			2449 Nov 29 07:02	0°♄	
morning max el	2447 Jun 24 05:12	17°♄17'11	45°47'28		2449 Dec 23 10:27	0°♁	
	2447 Jul 06 23:52	0°♂			2450 Jan 16 17:32	0°♁	
	2447 Aug 03 18:49	0°♄			2450 Feb 10 09:30	0°♁	
	2447 Aug 29 22:12	0°♂		asc. node	2450 Feb 24 18:06	17°♁05'23	
asc. node	2447 Sep 09 23:09	13°♂01'59			2450 Mar 07 20:14	0°♄	
	2447 Sep 24 03:00	0°♁			2450 Apr 03 23:37	0°♂	
	2447 Oct 18 16:47	0°♄		evening max el	2450 Apr 14 14:37	10°♂47'34	45°54'04
	2447 Nov 11 21:05	0°♁			2450 May 06 13:58	0°♄	
greatest brilliancy	2447 Dec 01 10:02	24°♁27'01	-3.9m	greatest brilliancy	2450 May 22 17:27	9°♄19'01	-4.7m
	2447 Dec 05 20:10	0°♁		retrograde	2450 Jun 02 17:15	11°♄30'27	
morning set	2447 Dec 20 13:18	18°♁29'21		desc. node	2450 Jun 16 07:38	7°♄54'11	
	2447 Dec 29 16:58	0°♄		evening set	2450 Jun 17 19:01	7°♄07'27	
desc. node	2447 Dec 30 12:41	1°♄02'01		inferior conj	2450 Jun 24 05:07	3°♄15'56	-1°51'19
	2448 Jan 22 13:14	0°♁		minimum elong	2450 Jun 24 01:05	3°♄22'16	1°50'08
				min. Earth dist.	2450 Jun 24 01:48	3°♄21'09	0.28923 AU
superior conj	2448 Jan 31 05:26	10°♁54'25	-1°06'38		2450 Jun 29 13:44	30°♁	
minimum elong	2448 Jan 30 17:36	10°♁17'14	1°06'16	morning rise	2450 Jun 30 07:17	29°♂35'16	
max. Earth dist.	2448 Feb 02 17:04	14°♁01'49	1.71224 AU	direct	2450 Jul 15 19:29	25°♂00'00	
	2448 Feb 15 10:17	0°♁		greatest brilliancy	2450 Jul 26 01:45	26°♂53'02	-4.7m
	2448 Mar 10 09:38	0°♁			2450 Aug 02 01:05	0°♄	
evening rise	2448 Mar 12 02:07	2°♁06'16		morning max el	2450 Sep 02 15:05	24°♄50'46	45°51'29
	2448 Apr 03 12:56	0°♄			2450 Sep 07 21:20	0°♂	
asc. node	2448 Apr 21 15:59	22°♄20'55			2450 Oct 05 23:12	0°♁	
	2448 Apr 27 21:45	0°♂		asc. node	2450 Oct 07 11:01	1°♁40'58	
	2448 May 22 13:30	0°♄			2450 Oct 31 19:50	0°♄	
	2448 Jun 16 14:18	0°♂			2450 Nov 25 15:37	0°♁	
	2448 Jul 12 04:37	0°♁			2450 Dec 19 22:53	0°♁	
	2448 Aug 07 18:35	0°♄			2451 Jan 13 00:27	0°♄	
desc. node	2448 Aug 11 05:18	3°♄45'54		desc. node	2451 Jan 27 00:29	17°♄30'29	
	2448 Sep 05 13:02	0°♁			2451 Feb 06 00:01	0°♁	
evening max el	2448 Sep 06 19:45	1°♁14'17	46°07'49		2451 Mar 01 23:37	0°♁	
	2448 Oct 16 06:00	0°♁		morning set	2451 Mar 07 17:05	7°♁09'26	
greatest brilliancy	2448 Oct 16 21:36	0°♁13'04	-4.8m		2451 Mar 26 00:40	0°♁	

superior conj	2451 Apr 16 04:42	26° Υ 18'25	-1°09'43	greatest brilliancy	2453 Oct 04 12:45	4° η 20'26	-4.8m
minimum elong	2451 Apr 16 14:37	26° Υ 49'11	1°09'25	asc. node	2453 Nov 03 22:50	25° η 47'09	
	2451 Apr 19 04:13	0° \mathcal{B}			2453 Nov 08 09:21	0° \mathcal{A}	
max. Earth dist.	2451 Apr 19 20:07	0° \mathcal{B} 49'16	1.72623 AU	morning max el	2453 Nov 12 18:02	4° \mathcal{A} 18'11	46°32'55
	2451 May 13 10:52	0° Π			2453 Dec 06 16:31	0° \mathcal{M}	
asc. node	2451 May 20 03:57	8° Π 15'52			2454 Jan 01 11:25	0° \mathcal{X}	
evening rise	2451 May 24 09:43	13° Π 28'48			2454 Jan 26 08:14	0° \mathcal{Z}	
	2451 Jun 06 20:36	0° \mathcal{E}			2454 Feb 19 19:57	0° \approx	
	2451 Jul 01 09:22	0° Ω		desc. node	2454 Feb 23 12:19	4° \approx 31'56	
	2451 Jul 26 01:43	0° η			2454 Mar 16 04:08	0° \mathcal{H}	
	2451 Aug 19 23:22	0° \mathcal{A}			2454 Apr 09 11:36	0° Υ	
desc. node	2451 Sep 08 17:09	23° \mathcal{A} 30'23			2454 May 03 19:52	0° \mathcal{B}	
	2451 Sep 14 05:13	0° \mathcal{M}		morning set	2454 May 18 17:24	18° \mathcal{B} 19'33	
	2451 Oct 10 00:28	0° \mathcal{X}			2454 May 28 05:19	0° Π	
	2451 Nov 05 22:25	0° \mathcal{Z}		asc. node	2454 Jun 16 15:42	23° Π 52'24	
evening max el	2451 Nov 19 20:31	14° \mathcal{Z} 31'20	47°09'37		2454 Jun 21 15:23	0° \mathcal{E}	
	2451 Dec 06 06:52	0° \approx					
greatest brilliancy	2451 Dec 30 11:36	15° \approx 51'37	-4.9m	superior conj	2454 Jun 24 17:04	3° \mathcal{E} 46'24	0°19'03
asc. node	2451 Dec 30 20:30	15° \approx 59'45		minimum elong	2454 Jun 24 13:12	3° \mathcal{E} 34'30	0°18'52
retrograde	2452 Jan 09 14:24	17° \approx 49'30		max. Earth dist.	2454 Jun 24 10:16	3° \mathcal{E} 25'29	1.73572 AU
evening set	2452 Jan 25 07:05	12° \approx 57'38			2454 Jul 16 01:09	0° Ω	
min. Earth dist.	2452 Jan 29 11:28	10° \approx 27'42	0.26834 AU	evening rise	2454 Jul 30 16:32	18° Ω 00'48	
inferior conj	2452 Jan 30 06:33	9° \approx 58'17	6°54'30		2454 Aug 09 10:18	0° η	
minimum elong	2452 Jan 29 20:07	10° \approx 14'22	6°52'22		2454 Sep 02 19:30	0° \mathcal{A}	
morning rise	2452 Feb 03 09:25	7° \approx 28'51			2454 Sep 27 05:55	0° \mathcal{M}	
direct	2452 Feb 19 16:26	2° \approx 16'31		desc. node	2454 Oct 06 05:14	10° \mathcal{M} 59'22	
greatest brilliancy	2452 Feb 28 21:27	3° \approx 52'28	-4.9m		2454 Oct 21 18:39	0° \mathcal{X}	
	2452 Apr 05 08:30	0° \mathcal{H}			2454 Nov 15 11:04	0° \mathcal{Z}	
morning max el	2452 Apr 09 12:04	4° \mathcal{H} 01'19	46°27'03		2454 Dec 10 10:48	0° \approx	
desc. node	2452 Apr 20 10:03	15° \mathcal{H} 06'43			2455 Jan 05 04:18	0° \mathcal{H}	
	2452 May 04 07:53	0° Υ		asc. node	2455 Jan 27 08:16	24° \mathcal{H} 15'01	
	2452 May 31 00:27	0° \mathcal{B}		evening max el	2455 Jan 31 00:29	28° \mathcal{H} 01'48	47°01'01
	2452 Jun 25 19:40	0° Π			2455 Feb 01 23:21	0° Υ	
	2452 Jul 21 02:37	0° \mathcal{E}		greatest brilliancy	2455 Mar 12 02:27	29° Υ 04'23	-4.9m
asc. node	2452 Aug 11 13:18	25° \mathcal{E} 49'29			2455 Mar 14 20:56	0° \mathcal{B}	
	2452 Aug 14 23:51	0° Ω		retrograde	2455 Mar 22 15:37	1° \mathcal{B} 09'49	
	2452 Sep 08 12:28	0° η			2455 Mar 30 03:33	30° \mathcal{R} Υ	
	2452 Oct 02 18:02	0° \mathcal{A}		evening set	2455 Apr 08 19:52	25° Υ 23'41	
morning set	2452 Oct 04 18:53	2° \mathcal{A} 31'55		inferior conj	2455 Apr 12 18:07	22° Υ 57'31	7°22'11
	2452 Oct 26 18:54	0° \mathcal{M}		minimum elong	2455 Apr 13 03:21	22° Υ 43'00	7°20'40
max. Earth dist.	2452 Nov 09 22:39	17° \mathcal{M} 44'05	1.71513 AU	min. Earth dist.	2455 Apr 12 13:44	23° Υ 04'24	0.28234 AU
				morning rise	2455 Apr 17 11:11	20° Υ 04'30	
superior conj	2452 Nov 12 01:42	20° \mathcal{M} 24'12	0°43'31	direct	2455 May 03 20:49	14° Υ 52'39	
minimum elong	2452 Nov 12 11:02	20° \mathcal{M} 53'26	0°43'08	greatest brilliancy	2455 May 13 10:27	16° Υ 34'15	-4.8m
	2452 Nov 19 17:15	0° \mathcal{X}		desc. node	2455 May 18 21:46	18° Υ 51'01	
desc. node	2452 Dec 01 02:59	14° \mathcal{X} 19'03			2455 Jun 04 19:41	0° \mathcal{B}	
	2452 Dec 13 14:38	0° \mathcal{Z}		morning max el	2455 Jun 21 20:28	15° \mathcal{B} 04'52	45°48'06
evening rise	2452 Dec 22 18:05	11° \mathcal{Z} 29'08			2455 Jul 06 18:14	0° Π	
	2453 Jan 06 12:02	0° \approx			2455 Aug 03 09:07	0° \mathcal{E}	
	2453 Jan 30 10:46	0° \mathcal{H}			2455 Aug 29 10:47	0° Ω	
	2453 Feb 23 13:10	0° Υ		asc. node	2455 Sep 09 01:11	12° Ω 31'52	
asc. node	2453 Mar 19 22:39	0° \mathcal{B}			2455 Sep 23 14:42	0° η	
	2453 Mar 24 06:07	5° \mathcal{B} 14'54			2455 Oct 18 04:02	0° \mathcal{A}	
	2453 Apr 13 19:44	0° Π			2455 Nov 11 08:06	0° \mathcal{M}	
	2453 May 09 11:25	0° \mathcal{E}		greatest brilliancy	2455 Dec 03 00:13	27° \mathcal{M} 07'48	-3.9m
	2453 Jun 05 13:23	0° Ω			2455 Dec 05 07:05	0° \mathcal{X}	
evening max el	2453 Jun 24 02:40	18° Ω 49'15	45°25'07	morning set	2455 Dec 18 00:24	15° \mathcal{X} 59'14	
	2453 Jul 06 11:14	0° η			2455 Dec 29 03:49	0° \mathcal{Z}	
desc. node	2453 Jul 13 19:33	5° η 52'35		desc. node	2455 Dec 29 14:39	0° \mathcal{Z} 34'05	
greatest brilliancy	2453 Aug 01 16:12	16° η 38'45	-4.7m		2456 Jan 22 00:04	0° \approx	
retrograde	2453 Aug 11 17:55	18° η 28'09					
evening set	2453 Aug 29 11:20	12° η 35'33		superior conj	2456 Jan 28 15:30	8° \approx 21'07	-1°04'02
inferior conj	2453 Sep 02 02:08	10° η 23'02	-8°29'46	minimum elong	2456 Jan 28 03:31	7° \approx 43'29	1°03'37
minimum elong	2453 Sep 01 22:09	10° η 29'12	8°29'32	max. Earth dist.	2456 Jan 31 00:55	11° \approx 21'34	1.71200 AU
min. Earth dist.	2453 Sep 02 11:48	10° η 08'01	0.28722 AU		2456 Feb 14 21:08	0° \mathcal{H}	
morning rise	2453 Sep 05 08:49	8° η 22'14		evening rise	2456 Mar 09 13:29	29° \mathcal{H} 38'06	
direct	2453 Sep 23 14:07	2° η 08'40			2456 Mar 09 20:30	0° Υ	

	2456 Apr 02 23:52	0°♄		asc. node	2458 Oct 06 13:11	1°♎05'31	
asc. node	2456 Apr 20 18:07	21°♄53'37			2458 Oct 31 08:49	0°♊	
	2456 Apr 27 08:50	0°♈			2458 Nov 25 03:42	0°♎	
	2456 May 22 00:56	0°♌			2458 Dec 19 10:29	0°♈	
	2456 Jun 16 02:24	0°♍			2459 Jan 12 11:44	0°♊	
	2456 Jul 11 18:00	0°♎		desc. node	2459 Jan 26 02:30	17°♊01'56	
	2456 Aug 07 10:38	0°♊			2459 Feb 05 11:04	0°♎	
desc. node	2456 Aug 10 07:17	3°♊06'28			2459 Mar 01 10:30	0°♈	
evening max el	2456 Sep 04 08:50	28°♊53'56	46°05'30	morning set	2459 Mar 05 04:43	4°♈41'58	
	2456 Sep 05 12:25	0°♎			2459 Mar 25 11:24	0°♎	
greatest brilliancy	2456 Oct 14 11:19	27°♎50'49	-4.8m				
retrograde	2456 Oct 23 14:38	29°♎22'49		superior conj	2459 Apr 13 19:20	24°♎01'59	-1°11'44
evening set	2456 Nov 08 01:17	24°♎48'14		minimum elong	2459 Apr 14 05:02	24°♎32'03	1°11'28
inferior conj	2456 Nov 13 07:44	21°♎41'39	-4°26'42	max. Earth dist.	2459 Apr 17 10:45	28°♎32'57	1.72572 AU
minimum elong	2456 Nov 13 16:45	21°♎27'53	4°24'12		2459 Apr 18 14:51	0°♄	
min. Earth dist.	2456 Nov 14 01:34	21°♎14'25	0.26931 AU		2459 May 12 21:29	0°♈	
morning rise	2456 Nov 19 07:38	18°♎10'14		asc. node	2459 May 19 05:55	7°♈49'09	
asc. node	2456 Dec 01 10:33	14°♎02'19		evening rise	2459 May 22 02:36	11°♈20'24	
direct	2456 Dec 04 00:54	13°♎54'06			2459 Jun 06 07:20	0°♌	
greatest brilliancy	2456 Dec 14 21:53	16°♎07'47	-4.9m		2459 Jun 30 20:19	0°♍	
	2457 Jan 05 07:52	0°♈			2459 Jul 25 13:04	0°♎	
morning max el	2457 Jan 23 17:19	17°♈15'31	46°57'49		2459 Aug 19 11:22	0°♊	
	2457 Feb 04 20:23	0°♊		desc. node	2459 Sep 07 19:18	22°♊58'51	
	2457 Mar 03 12:46	0°♎			2459 Sep 13 18:20	0°♎	
desc. node	2457 Mar 23 00:18	22°♎48'59			2459 Oct 09 15:31	0°♈	
	2457 Mar 29 01:39	0°♈			2459 Nov 05 17:37	0°♊	
	2457 Apr 23 03:21	0°♎		evening max el	2459 Nov 17 09:59	12°♊06'33	47°08'23
	2457 May 18 00:04	0°♄			2459 Dec 06 17:39	0°♎	
	2457 Jun 11 18:04	0°♈		greatest brilliancy	2459 Dec 28 00:43	13°♎23'38	-4.9m
	2457 Jul 06 09:26	0°♌		asc. node	2459 Dec 29 22:31	14°♎02'42	
asc. node	2457 Jul 14 03:30	9°♌28'18		retrograde	2460 Jan 07 03:48	15°♎21'51	
morning set	2457 Jul 25 16:21	23°♌36'13		evening set	2460 Jan 22 16:10	10°♎35'15	
	2457 Jul 30 21:23	0°♍		min. Earth dist.	2460 Jan 27 00:21	8°♎00'17	0.26787 AU
	2457 Aug 24 05:30	0°♎		inferior conj	2460 Jan 27 19:13	7°♎31'17	6°39'00
max. Earth dist.	2457 Aug 27 19:40	4°♎26'28	1.72948 AU	minimum elong	2460 Jan 27 08:39	7°♎47'31	6°36'43
				morning rise	2460 Feb 01 01:27	4°♎57'29	
superior conj	2457 Aug 31 02:10	8°♎29'26	1°22'49		2460 Feb 14 08:26	30°♎	
minimum elong	2457 Aug 30 22:15	8°♎17'18	1°22'46	direct	2460 Feb 17 04:48	29°♊50'00	
	2457 Sep 17 10:25	0°♊			2460 Feb 20 02:12	0°♎	
evening rise	2457 Oct 07 01:49	24°♊25'11		greatest brilliancy	2460 Feb 26 10:23	1°♎26'54	-4.9m
	2457 Oct 11 13:26	0°♎			2460 Apr 05 08:46	0°♈	
desc. node	2457 Nov 02 17:08	27°♎34'47		morning max el	2460 Apr 07 02:14	1°♈41'31	46°28'49
	2457 Nov 04 15:48	0°♈		desc. node	2460 Apr 19 12:06	14°♈21'46	
	2457 Nov 28 18:18	0°♊			2460 May 04 00:18	0°♎	
	2457 Dec 22 22:02	0°♎			2460 May 30 14:06	0°♄	
	2458 Jan 16 05:34	0°♈			2460 Jun 25 07:58	0°♈	
	2458 Feb 09 22:20	0°♎			2460 Jul 20 14:10	0°♌	
asc. node	2458 Feb 23 20:12	16°♎31'40		asc. node	2460 Aug 10 15:23	25°♌21'55	
	2458 Mar 07 10:41	0°♄			2460 Aug 14 11:00	0°♍	
	2458 Apr 03 18:13	0°♈			2460 Sep 07 23:22	0°♎	
evening max el	2458 Apr 12 04:53	8°♈31'51	45°55'59	morning set	2460 Oct 02 10:31	0°♊17'38	
	2458 May 07 07:01	0°♌			2460 Oct 02 04:51	0°♊	
greatest brilliancy	2458 May 20 10:12	7°♌10'26	-4.7m		2460 Oct 26 05:43	0°♎	
retrograde	2458 May 31 09:32	9°♌22'01		max. Earth dist.	2460 Nov 07 11:02	15°♎18'21	1.71553 AU
evening set	2458 Jun 15 11:18	4°♌58'44					
desc. node	2458 Jun 15 09:37	5°♌01'02		superior conj	2460 Nov 09 14:19	17°♎59'08	0°46'41
inferior conj	2458 Jun 21 21:30	1°♌07'24	-1°31'49	minimum elong	2460 Nov 10 00:00	18°♎29'29	0°46'17
minimum elong	2458 Jun 21 18:10	1°♌12'39	1°30'50		2460 Nov 19 04:10	0°♈	
min. Earth dist.	2458 Jun 21 18:38	1°♌11'54	0.28912 AU	desc. node	2460 Nov 30 04:54	13°♈50'39	
	2458 Jun 23 16:34	30°♎			2460 Dec 13 01:40	0°♊	
morning rise	2458 Jun 28 01:05	27°♈24'44		evening rise	2460 Dec 20 04:33	8°♊56'34	
direct	2458 Jul 13 11:03	22°♈51'27			2461 Jan 05 23:10	0°♎	
greatest brilliancy	2458 Jul 23 18:22	24°♈45'07	-4.7m		2461 Jan 29 22:01	0°♈	
	2458 Aug 03 10:44	0°♌			2461 Feb 23 00:36	0°♎	
morning max el	2458 Aug 31 06:14	22°♌38'52	45°50'35		2461 Mar 19 10:26	0°♄	
	2458 Sep 07 17:12	0°♍		asc. node	2461 Mar 23 08:15	4°♄45'20	
	2458 Oct 05 14:02	0°♎			2461 Apr 13 08:12	0°♈	

	2461 May 09 01:17	0°☿			2463 Oct 17 15:31	0°♊
	2461 Jun 05 06:39	0°♋			2463 Nov 10 19:25	0°♌
evening max el	2461 Jun 21 18:58	16°♋40'06	45°24'52	greatest brilliancy	2463 Dec 04 00:06	29°♌02'49 -3.9m
	2461 Jul 06 17:55	0°♍			2463 Dec 04 18:19	0°♎
desc. node	2461 Jul 12 21:33	4°♍45'20		morning set	2463 Dec 15 11:16	13°♎27'15
greatest brilliancy	2461 Jul 30 05:43	14°♍25'59	-4.7m	desc. node	2463 Dec 28 16:44	0°♏05'23
retrograde	2461 Aug 09 09:24	16°♍16'34			2463 Dec 28 15:01	0°♐
evening set	2461 Aug 27 00:15	10°♍27'32			2464 Jan 21 11:14	0°♑
inferior conj	2461 Aug 30 17:41	8°♍10'45	-8°25'04			
minimum elong	2461 Aug 30 13:00	8°♍18'02	8°24'44	superior conj	2464 Jan 26 01:17	5°♑45'57 -1°01'16
min. Earth dist.	2461 Aug 31 02:03	7°♍57'45	0.28761 AU	minimum elong	2464 Jan 25 13:15	5°♑08'10 1°00'50
morning rise	2461 Sep 03 01:37	6°♍07'55		max. Earth dist.	2464 Jan 28 05:22	8°♑29'40 1.71173 AU
	2461 Sep 19 11:33	30°♋♋			2464 Feb 14 08:17	0°♒
direct	2461 Sep 21 06:40	29°♋56'09		evening rise	2464 Mar 07 00:37	27°♒08'12
	2461 Sep 23 02:08	0°♎			2464 Mar 09 07:40	0°♓
greatest brilliancy	2461 Oct 02 03:12	2°♎05'57	-4.8m		2464 Apr 02 11:06	0°♔
asc. node	2461 Nov 03 00:47	24°♎51'46		asc. node	2464 Apr 19 20:05	21°♔24'54
	2461 Nov 08 08:33	0°♏			2464 Apr 26 20:14	0°♕
morning max el	2461 Nov 10 09:22	2°♏01'25	46°31'16		2464 May 21 12:40	0°♖
	2461 Dec 06 08:47	0°♐			2464 Jun 15 14:49	0°♗
	2462 Jan 01 01:21	0°♑			2464 Jul 11 07:43	0°♘
	2462 Jan 25 21:01	0°♒			2464 Aug 07 03:09	0°♙
	2462 Feb 19 08:02	0°♓		desc. node	2464 Aug 09 09:27	2°♙26'37
desc. node	2462 Feb 22 14:25	4°♓01'22		evening max el	2464 Sep 01 21:11	26°♙31'30 46°03'08
	2462 Mar 15 15:44	0°♔			2464 Sep 05 13:07	0°♚
	2462 Apr 08 22:52	0°♕		greatest brilliancy	2464 Oct 12 00:48	25°♚27'45 -4.8m
	2462 May 03 06:51	0°♖		retrograde	2464 Oct 21 02:30	26°♚58'42
morning set	2462 May 16 10:26	16°♖10'58		evening set	2464 Nov 05 16:55	22°♚19'39
	2462 May 27 16:07	0°♗		inferior conj	2464 Nov 10 20:41	19°♚16'59 -4°46'39
asc. node	2462 Jun 15 17:43	23°♗25'45		minimum elong	2464 Nov 11 06:08	19°♚02'33 4°44'06
	2462 Jun 21 02:04	0°♘		min. Earth dist.	2464 Nov 11 15:53	18°♚47'40 0.26994 AU
				morning rise	2464 Nov 16 18:40	15°♚47'50
superior conj	2462 Jun 22 11:14	1°♘41'52	0°15'57	asc. node	2464 Nov 30 12:37	11°♚29'23
minimum elong	2462 Jun 22 07:57	1°♘31'48	0°15'48	direct	2464 Dec 01 13:51	11°♚28'02
behind sun begin	2462 Jun 22 06:32	1°♘27'26		greatest brilliancy	2464 Dec 12 13:15	13°♚43'34 -4.9m
behind sun end	2462 Jun 22 09:23	1°♘36'11			2465 Jan 05 17:33	0°♛
max. Earth dist.	2462 Jun 22 09:37	1°♘36'53	1.73562 AU	morning max el	2465 Jan 21 06:25	14°♛48'13 46°57'57
	2462 Jul 15 11:51	0°♙			2465 Feb 04 15:32	0°♜
evening rise	2462 Jul 28 11:32	15°♙58'25			2465 Mar 03 04:03	0°♝
	2462 Aug 08 21:09	0°♚		desc. node	2465 Mar 22 02:22	22°♝14'02
	2462 Sep 02 06:38	0°♏			2465 Mar 28 15:09	0°♞
	2462 Sep 26 17:28	0°♐			2465 Apr 22 15:50	0°♟
desc. node	2462 Oct 05 07:14	10°♐29'37			2465 May 17 11:53	0°♠
	2462 Oct 21 06:46	0°♑			2465 Jun 11 05:26	0°♡
	2462 Nov 14 23:58	0°♒			2465 Jul 05 20:31	0°♢
	2462 Dec 10 00:56	0°♓		asc. node	2465 Jul 13 05:38	9°♢01'06
	2463 Jan 04 20:50	0°♔		morning set	2465 Jul 23 10:20	21°♢30'35
asc. node	2463 Jan 26 10:24	23°♔25'50			2465 Jul 30 08:18	0°♣
evening max el	2463 Jan 28 15:40	25°♔42'17	47°02'39		2465 Aug 23 16:22	0°♤
	2463 Feb 01 22:39	0°♕		max. Earth dist.	2465 Aug 25 15:50	2°♤26'45 1.72990 AU
greatest brilliancy	2463 Mar 09 18:43	26°♕48'01	-4.9m			
retrograde	2463 Mar 20 07:01	28°♕52'28		superior conj	2465 Aug 28 20:07	6°♕22'44 1°22'03
evening set	2463 Apr 06 14:00	23°♕02'36		minimum elong	2465 Aug 28 15:35	6°♕08'43 1°21'59
inferior conj	2463 Apr 10 09:14	20°♕40'44	7°33'49		2465 Sep 16 21:21	0°♆
minimum elong	2463 Apr 10 18:09	20°♕26'42	7°32'27	evening rise	2465 Oct 04 17:25	22°♆10'07
min. Earth dist.	2463 Apr 10 04:14	20°♕48'37	0.28194 AU		2465 Oct 11 00:32	0°♇
morning rise	2463 Apr 14 22:38	17°♕52'53		desc. node	2465 Nov 01 19:06	27°♇05'42
direct	2463 May 01 11:43	12°♕36'48			2465 Nov 04 03:08	0°♈
greatest brilliancy	2463 May 10 23:46	14°♕17'01	-4.8m		2465 Nov 28 05:57	0°♉
desc. node	2463 May 17 23:42	17°♕19'57			2465 Dec 22 10:04	0°♊
	2463 Jun 05 04:42	0°♖			2466 Jan 15 18:08	0°♋
morning max el	2463 Jun 19 11:00	12°♖50'10	45°48'57		2466 Feb 09 11:44	0°♌
	2463 Jul 06 12:17	0°♗		asc. node	2466 Feb 22 22:17	15°♌56'08
	2463 Aug 02 23:22	0°♘			2466 Mar 07 01:49	0°♍
	2463 Aug 28 23:24	0°♙			2466 Apr 03 13:53	0°♎
asc. node	2463 Sep 08 03:20	12°♙01'46		evening max el	2466 Apr 09 19:34	6°♙15'52 45°58'13
	2463 Sep 23 02:32	0°♚			2466 May 08 07:00	0°♏

greatest brilliancy	2466 May 18 02:28	5°☿00'10	-4.7m			2468 Oct 25 16:43	0°♊	
retrograde	2466 May 29 02:17	7°☿12'33		max. Earth dist.		2468 Nov 04 21:32	12°♊46'22	1.71588 AU
evening set	2466 Jun 13 03:46	2°☿48'40						
desc. node	2466 Jun 14 11:42	2°☿03'51		superior conj		2468 Nov 07 03:35	15°♊35'43	0°49'43
	2466 Jun 17 22:01	30°♋II		minimum elong		2468 Nov 07 13:32	16°♊06'54	0°49'18
inferior conj	2466 Jun 19 13:53	28°♊57'42	-1°12'07			2468 Nov 18 15:13	0°♊	
minimum elong	2466 Jun 19 11:15	29°♊01'50	1°11'21	desc. node		2468 Nov 29 07:01	13°♊22'34	
min. Earth dist.	2466 Jun 19 11:13	29°♊01'53	0.28897 AU			2468 Dec 12 12:47	0°♊	
morning rise	2466 Jun 25 18:48	25°♊13'26		evening rise		2468 Dec 17 15:34	6°♊25'28	
direct	2466 Jul 11 02:50	20°♊41'44				2469 Jan 05 10:23	0°♋	
greatest brilliancy	2466 Jul 21 10:40	22°♊35'57	-4.7m			2469 Jan 29 09:23	0°♋	
	2466 Aug 04 11:13	0°☿				2469 Feb 22 12:12	0°♋	
morning max el	2466 Aug 28 22:28	20°☿28'54	45°49'52			2469 Mar 18 22:27	0°♋	
	2466 Sep 07 12:48	0°♋		asc. node		2469 Mar 22 10:09	4°♋14'23	
	2466 Oct 05 04:56	0°♋				2469 Apr 12 20:58	0°♋	
asc. node	2466 Oct 05 15:04	0°♋28'49				2469 May 08 15:35	0°☿	
	2466 Oct 30 21:55	0°♋				2469 Jun 05 00:38	0°♋	
	2466 Nov 24 15:57	0°♊		evening max el		2469 Jun 19 10:55	14°♋29'18	45°24'48
	2466 Dec 18 22:19	0°♊				2469 Jul 07 03:35	0°♋	
desc. node	2467 Jan 11 23:20	0°♊		desc. node		2469 Jul 11 23:40	3°♋35'40	
	2467 Jan 25 04:37	16°♊32'34		greatest brilliancy		2469 Jul 27 19:56	12°♋13'25	-4.7m
	2467 Feb 04 22:31	0°♋		retrograde		2469 Aug 07 00:26	14°♋04'29	
	2467 Feb 28 21:48	0°♋		evening set		2469 Aug 24 13:01	8°♋19'32	
morning set	2467 Mar 02 15:41	2°♋10'57		inferior conj		2469 Aug 28 09:16	5°♋58'15	-8°19'38
	2467 Mar 24 22:33	0°♋		minimum elong		2469 Aug 28 03:54	6°♋06'37	8°19'13
				min. Earth dist.		2469 Aug 28 16:40	5°♋46'44	0.28793 AU
superior conj	2467 Apr 11 09:16	21°♋41'57	-1°13'40	morning rise		2469 Aug 31 18:40	3°♋52'56	
minimum elong	2467 Apr 11 18:40	22°♋11'06	1°13'26			2469 Sep 08 05:23	30°♋♋	
max. Earth dist.	2467 Apr 15 00:30	26°♋12'30	1.72518 AU	direct		2469 Sep 18 22:50	27°♋43'28	
	2467 Apr 18 01:54	0°♋		greatest brilliancy		2469 Sep 29 17:56	29°♋51'31	-4.8m
	2467 May 12 08:31	0°♋				2469 Sep 30 02:47	0°♋	
asc. node	2467 May 18 07:55	7°♋21'25		asc. node		2469 Nov 02 02:50	23°♋57'32	
evening rise	2467 May 19 19:02	9°♋09'25		morning max el		2469 Nov 07 23:52	29°♋42'27	46°29'42
	2467 Jun 05 18:26	0°☿				2469 Nov 08 06:52	0°♋	
	2467 Jun 30 07:39	0°♋				2469 Dec 06 00:49	0°♋	
	2467 Jul 25 00:47	0°♋				2469 Dec 31 15:09	0°♋	
	2467 Aug 18 23:44	0°♋				2470 Jan 25 09:42	0°♊	
desc. node	2467 Sep 06 21:19	22°♋25'59				2470 Feb 18 20:02	0°♋	
	2467 Sep 13 07:48	0°♋		desc. node		2470 Feb 21 16:26	3°♋30'47	
	2467 Oct 09 06:59	0°♋				2470 Mar 15 03:17	0°♋	
	2467 Nov 05 13:32	0°♊				2470 Apr 08 10:06	0°♋	
evening max el	2467 Nov 15 00:22	9°♊43'59	47°07'01			2470 May 02 17:53	0°♋	
	2467 Dec 07 08:15	0°♋		morning set		2470 May 14 03:04	14°♋00'52	
greatest brilliancy	2467 Dec 25 13:24	10°♋54'44	-4.9m			2470 May 27 02:59	0°♋	
asc. node	2467 Dec 29 00:35	12°♋00'17		asc. node		2470 Jun 14 19:51	22°♋59'10	
retrograde	2468 Jan 04 17:24	12°♋53'22						
evening set	2468 Jan 20 01:24	8°♋11'57		superior conj		2470 Jun 20 04:55	29°♋35'37	0°12'47
min. Earth dist.	2468 Jan 24 13:06	5°♋32'09	0.26749 AU	minimum elong		2470 Jun 20 02:16	29°♋27'29	0°12'40
inferior conj	2468 Jan 25 07:51	5°♋03'23	6°22'31	behind sun begin		2470 Jun 19 12:30	28°♋45'11	
minimum elong	2468 Jan 24 21:15	5°♋19'38	6°20'08	behind sun end		2470 Jun 20 16:02	0°☿09'47	
morning rise	2468 Jan 29 17:29	2°♋25'06		max. Earth dist.		2470 Jun 20 06:35	29°♋40'45	1.73552 AU
	2468 Feb 03 09:59	30°♋♋				2470 Jun 20 12:51	0°☿	
direct	2468 Feb 14 17:44	27°♋22'40				2470 Jul 14 22:38	0°♋	
greatest brilliancy	2468 Feb 23 23:06	28°♋59'53	-4.9m	evening rise		2470 Jul 26 06:04	13°♋54'27	
	2468 Feb 26 14:46	0°♋				2470 Aug 08 08:03	0°♋	
morning max el	2468 Apr 04 16:39	29°♋21'00	46°30'18			2470 Sep 01 17:49	0°♋	
	2468 Apr 05 08:26	0°♋				2470 Sep 26 05:03	0°♋	
desc. node	2468 Apr 18 14:02	13°♋35'47		desc. node		2470 Oct 04 09:12	9°♋59'45	
	2468 May 03 16:53	0°♋				2470 Oct 20 18:54	0°♋	
	2468 May 30 04:02	0°♋				2470 Nov 14 12:53	0°♊	
	2468 Jun 24 20:32	0°♋				2470 Dec 09 15:06	0°♋	
	2468 Jul 20 01:58	0°☿				2471 Jan 04 13:31	0°♋	
asc. node	2468 Aug 09 17:26	24°☿53'33		asc. node		2471 Jan 25 12:27	22°♋36'15	
	2468 Aug 13 22:20	0°♋		evening max el		2471 Jan 26 05:59	23°♋20'56	47°04'17
	2468 Sep 07 10:28	0°♋				2471 Feb 01 22:47	0°♋	
morning set	2468 Sep 30 02:27	28°♋03'45		greatest brilliancy		2471 Mar 07 11:23	24°♋32'44	-4.9m
	2468 Oct 01 15:51	0°♋		retrograde		2471 Mar 17 22:08	26°♋35'53	

evening set	2471 Apr 04 08:06	20° Υ 42'25		minimum elong	2473 Aug 26 08:46	4° \mathbb{M} 00'30	1°21'05
inferior conj	2471 Apr 08 00:28	18° Υ 24'46	7°44'34		2473 Sep 16 08:03	0° $\underline{\mathbf{A}}$	
minimum elong	2471 Apr 08 08:58	18° Υ 11'21	7°43'22	evening rise	2473 Oct 02 08:51	19° $\underline{\mathbf{A}}$ 55'20	
min. Earth dist.	2471 Apr 07 19:04	18° Υ 33'17	0.28157 AU		2473 Oct 10 11:24	0° \mathbb{M}	
morning rise	2471 Apr 12 10:08	15° Υ 42'06		desc. node	2473 Oct 31 21:12	26° \mathbb{M} 37'54	
direct	2471 Apr 29 02:06	10° Υ 21'36			2473 Nov 03 14:12	0° \mathcal{X}	
greatest brilliancy	2471 May 08 13:42	12° Υ 01'02	-4.8m		2473 Nov 27 17:18	0° \mathcal{Z}	
desc. node	2471 May 17 01:50	15° Υ 52'48			2473 Dec 21 21:48	0° \approx	
	2471 Jun 05 11:01	0° \mathcal{X}			2474 Jan 15 06:23	0° \mathcal{H}	
morning max el	2471 Jun 17 01:09	10° \mathcal{B} 34'40	45°49'40		2474 Feb 09 00:52	0° Υ	
	2471 Jul 06 05:49	0° \mathbb{I}		asc. node	2474 Feb 22 00:12	15° Υ 21'01	
	2471 Aug 02 13:25	0° \mathcal{E}			2474 Mar 06 16:45	0° \mathcal{B}	
	2471 Aug 28 11:54	0° Ω			2474 Apr 03 09:42	0° \mathbb{I}	
asc. node	2471 Sep 07 05:16	11° Ω 31'19		evening max el	2474 Apr 07 11:20	4° \mathbb{I} 03'42	46°00'32
	2471 Sep 22 14:16	0° \mathbb{M}			2474 May 09 15:41	0° \mathcal{E}	
	2471 Oct 17 02:50	0° $\underline{\mathbf{A}}$		greatest brilliancy	2474 May 15 18:30	2° \mathcal{E} 51'02	-4.7m
	2471 Nov 10 06:33	0° \mathbb{M}		retrograde	2474 May 26 19:26	5° \mathcal{E} 04'28	
greatest brilliancy	2471 Dec 04 00:51	29° \mathbb{M} 45'51	-3.9m	evening set	2474 Jun 10 20:31	0° \mathcal{E} 39'53	
	2471 Dec 04 05:21	0° \mathcal{X}			2474 Jun 12 00:58	30° \mathcal{R} \mathbb{I}	
morning set	2471 Dec 12 22:14	10° \mathcal{X} 56'10		desc. node	2474 Jun 13 13:45	29° \mathbb{I} 06'01	
desc. node	2471 Dec 27 18:49	29° \mathcal{X} 37'23		inferior conj	2474 Jun 17 06:19	26° \mathbb{I} 49'19	-0°52'26
	2471 Dec 28 02:00	0° \mathcal{Z}		minimum elong	2474 Jun 17 04:23	26° \mathbb{I} 52'21	0°51'52
	2472 Jan 20 22:11	0° \approx		min. Earth dist.	2474 Jun 17 03:32	26° \mathbb{I} 53'41	0.28882 AU
				morning rise	2474 Jun 23 12:26	23° \mathbb{I} 03'46	
superior conj	2472 Jan 23 11:11	3° \approx 11'46	-0°58'22	direct	2474 Jul 08 19:10	18° \mathbb{I} 33'31	
minimum elong	2472 Jan 22 23:13	2° \approx 34'09	0°57'56	greatest brilliancy	2474 Jul 19 02:22	20° \mathbb{I} 27'37	-4.7m
max. Earth dist.	2472 Jan 25 07:15	5° \approx 30'19	1.71149 AU		2474 Aug 05 04:32	0° \mathcal{E}	
	2472 Feb 13 19:13	0° \mathcal{H}		morning max el	2474 Aug 26 15:21	18° \mathcal{E} 21'49	45°48'57
evening rise	2472 Mar 04 11:51	24° \mathcal{H} 39'21			2474 Sep 07 07:25	0° Ω	
	2472 Mar 08 18:35	0° Υ		asc. node	2474 Oct 04 17:10	29° Ω 53'50	
	2472 Apr 01 22:03	0° \mathcal{B}			2474 Oct 04 19:20	0° \mathbb{M}	
asc. node	2472 Apr 18 22:08	20° \mathcal{B} 57'17			2474 Oct 30 10:41	0° $\underline{\mathbf{A}}$	
	2472 Apr 26 07:21	0° \mathbb{I}			2474 Nov 24 03:55	0° \mathbb{M}	
	2472 May 21 00:10	0° \mathcal{E}			2474 Dec 18 09:50	0° \mathcal{X}	
	2472 Jun 15 03:04	0° Ω			2475 Jan 11 10:35	0° \mathcal{Z}	
	2472 Jul 10 21:25	0° \mathbb{M}		desc. node	2475 Jan 24 06:37	16° \mathcal{Z} 03'57	
	2472 Aug 06 19:52	0° $\underline{\mathbf{A}}$			2475 Feb 04 09:35	0° \approx	
desc. node	2472 Aug 08 11:25	1° $\underline{\mathbf{A}}$ 46'10		morning set	2475 Feb 28 02:35	29° \approx 40'50	
evening max el	2472 Aug 30 09:37	24° $\underline{\mathbf{A}}$ 09'50	46°00'56		2475 Feb 28 08:42	0° \mathcal{H}	
	2472 Sep 05 14:58	0° \mathbb{M}			2475 Mar 24 09:20	0° Υ	
greatest brilliancy	2472 Oct 09 13:48	23° \mathbb{M} 04'52	-4.8m				
retrograde	2472 Oct 18 14:49	24° \mathbb{M} 35'30		superior conj	2475 Apr 08 23:08	19° Υ 22'41	-1°15'29
evening set	2472 Nov 03 08:37	19° \mathbb{M} 51'35		minimum elong	2475 Apr 09 08:11	19° Υ 50'46	1°15'17
inferior conj	2472 Nov 08 09:36	16° \mathbb{M} 53'04	-5°05'53	max. Earth dist.	2475 Apr 12 15:18	23° Υ 56'19	1.72465 AU
minimum elong	2472 Nov 08 19:26	16° \mathbb{M} 38'05	5°03'20		2475 Apr 17 12:36	0° \mathcal{B}	
min. Earth dist.	2472 Nov 09 05:54	16° \mathbb{M} 22'06	0.27056 AU		2475 May 11 19:11	0° \mathbb{I}	
morning rise	2472 Nov 14 05:31	13° \mathbb{M} 26'45		evening rise	2475 May 17 11:29	6° \mathbb{I} 59'36	
direct	2472 Nov 29 03:05	9° \mathbb{M} 02'44		asc. node	2475 May 17 10:04	6° \mathbb{I} 55'15	
asc. node	2472 Nov 29 14:44	9° \mathbb{M} 03'01			2475 Jun 05 05:10	0° \mathcal{E}	
greatest brilliancy	2472 Dec 10 04:23	11° \mathbb{M} 20'10	-4.9m		2475 Jun 29 18:34	0° Ω	
	2473 Jan 06 00:15	0° \mathcal{X}			2475 Jul 24 12:06	0° \mathbb{M}	
morning max el	2473 Jan 18 20:31	12° \mathcal{X} 24'27	46°58'00		2475 Aug 18 11:47	0° $\underline{\mathbf{A}}$	
	2473 Feb 04 09:51	0° \mathcal{Z}		desc. node	2475 Sep 05 23:17	21° $\underline{\mathbf{A}}$ 53'47	
	2473 Mar 02 18:49	0° \approx			2475 Sep 12 21:04	0° \mathbb{M}	
desc. node	2473 Mar 21 04:17	21° \approx 39'50			2475 Oct 08 22:26	0° \mathcal{X}	
	2473 Mar 28 04:14	0° \mathcal{H}			2475 Nov 05 09:54	0° \mathcal{Z}	
	2473 Apr 22 03:54	0° Υ		evening max el	2475 Nov 12 15:27	7° \mathcal{Z} 23'38	47°05'28
	2473 May 16 23:18	0° \mathcal{B}			2475 Dec 08 03:33	0° \approx	
	2473 Jun 10 16:25	0° \mathbb{I}		greatest brilliancy	2475 Dec 23 02:15	8° \approx 26'20	-4.9m
	2473 Jul 05 07:14	0° \mathcal{E}		asc. node	2475 Dec 28 02:37	9° \approx 52'56	
asc. node	2473 Jul 12 07:38	8° \mathcal{E} 34'35		retrograde	2476 Jan 02 06:43	10° \approx 24'45	
morning set	2473 Jul 21 04:18	19° \mathcal{E} 25'50		evening set	2476 Jan 17 10:41	5° \approx 48'44	
	2473 Jul 29 18:55	0° Ω		min. Earth dist.	2476 Jan 22 01:49	3° \approx 03'59	0.26704 AU
	2473 Aug 23 02:59	0° \mathbb{M}		inferior conj	2476 Jan 22 20:17	2° \approx 35'38	6°05'17
max. Earth dist.	2473 Aug 23 12:22	0° \mathbb{M} 29'00	1.73035 AU	minimum elong	2476 Jan 22 09:45	2° \approx 51'49	6°02'48
				morning rise	2476 Jan 27 09:14	29° \mathcal{Z} 52'51	
superior conj	2473 Aug 26 13:52	4° \mathbb{M} 16'18	1°21'09		2476 Jan 27 04:13	30° \mathcal{R} \mathcal{Z}	

direct	2476 Feb 12 06:33	24° ♁ 55'49		evening rise	2478 Jul 14 09:16	0° ♁	
greatest brilliancy	2476 Feb 21 11:36	26° ♁ 33'02	-4.9m		2478 Jul 24 00:55	11° ♁ 51'54	
	2476 Feb 29 03:54	0° ♁			2478 Aug 07 18:51	0° ♁	
morning max el	2476 Apr 02 06:21	26° ♁ 59'37	46°31'48		2478 Sep 01 04:51	0° ♁	
	2476 Apr 05 06:42	0° ♁			2478 Sep 25 16:29	0° ♁	
desc. node	2476 Apr 17 16:14	12° ♁ 52'16		desc. node	2478 Oct 03 11:23	9° ♁ 31'00	
	2476 May 03 08:46	0° ♁			2478 Oct 20 06:55	0° ♁	
	2476 May 29 17:27	0° ♁			2478 Nov 14 01:44	0° ♁	
	2476 Jun 24 08:41	0° ♁			2478 Dec 09 05:20	0° ♁	
	2476 Jul 19 13:23	0° ♁			2479 Jan 04 06:33	0° ♁	
asc. node	2476 Aug 08 19:26	24° ♁ 26'11		evening max el	2479 Jan 23 19:38	20° ♁ 57'33	47°05'41
	2476 Aug 13 09:18	0° ♁		asc. node	2479 Jan 24 14:24	21° ♁ 45'13	
	2476 Sep 06 21:12	0° ♁			2479 Feb 02 00:18	0° ♁	
morning set	2476 Sep 27 18:33	25° ♁ 51'29		greatest brilliancy	2479 Mar 05 03:58	22° ♁ 16'17	-4.9m
	2476 Oct 01 02:31	0° ♁		retrograde	2479 Mar 15 13:00	24° ♁ 18'21	
	2476 Oct 25 03:26	0° ♁		evening set	2479 Apr 02 01:53	18° ♁ 21'14	
max. Earth dist.	2476 Nov 02 05:45	10° ♁ 08'04	1.71634 AU	inferior conj	2479 Apr 05 15:31	16° ♁ 07'52	7°54'41
				minimum elong	2479 Apr 05 23:32	15° ♁ 55'12	7°53'38
superior conj	2476 Nov 04 16:57	13° ♁ 13'27	0°52'39	min. Earth dist.	2479 Apr 05 09:55	16° ♁ 16'42	0.28117 AU
minimum elong	2476 Nov 05 03:05	13° ♁ 45'11	0°52'15	morning rise	2479 Apr 09 21:25	13° ♁ 30'36	
	2476 Nov 18 02:04	0° ♁		direct	2479 Apr 26 15:55	8° ♁ 05'15	
desc. node	2476 Nov 28 09:07	12° ♁ 55'02		greatest brilliancy	2479 May 06 03:56	9° ♁ 44'41	-4.8m
	2476 Dec 11 23:45	0° ♁		desc. node	2479 May 16 03:54	14° ♁ 27'56	
evening rise	2476 Dec 15 02:13	3° ♁ 53'45			2479 Jun 05 15:24	0° ♁	
	2477 Jan 04 21:27	0° ♁		morning max el	2479 Jun 14 15:21	8° ♁ 19'03	45°50'38
	2477 Jan 28 20:34	0° ♁			2479 Jul 05 22:58	0° ♁	
	2477 Feb 21 23:37	0° ♁			2479 Aug 02 03:17	0° ♁	
	2477 Mar 18 10:16	0° ♁			2479 Aug 28 00:18	0° ♁	
asc. node	2477 Mar 21 12:15	3° ♁ 44'44		asc. node	2479 Sep 06 07:19	11° ♁ 01'28	
	2477 Apr 12 09:33	0° ♁			2479 Sep 22 01:55	0° ♁	
	2477 May 08 05:44	0° ♁			2479 Oct 16 14:07	0° ♁	
	2477 Jun 04 18:43	0° ♁			2479 Nov 09 17:38	0° ♁	
evening max el	2477 Jun 17 02:26	12° ♁ 18'17	45°24'48		2479 Dec 03 16:21	0° ♁	
	2477 Jul 07 15:58	0° ♁		greatest brilliancy	2479 Dec 03 20:47	0° ♁ 13'56	-3.9m
desc. node	2477 Jul 11 01:42	2° ♁ 25'02		morning set	2479 Dec 10 09:50	8° ♁ 27'12	
greatest brilliancy	2477 Jul 25 10:43	10° ♁ 02'48	-4.7m	desc. node	2479 Dec 26 20:48	29° ♁ 09'08	
retrograde	2477 Aug 04 15:20	11° ♁ 54'14			2479 Dec 27 12:58	0° ♁	
evening set	2477 Aug 22 01:50	6° ♁ 13'33			2480 Jan 20 09:10	0° ♁	
inferior conj	2477 Aug 26 01:07	3° ♁ 47'39	-8°13'27				
minimum elong	2477 Aug 25 19:06	3° ♁ 57'03	8°12'55	superior conj	2480 Jan 20 21:14	0° ♁ 37'56	-0°55'21
min. Earth dist.	2477 Aug 26 07:50	3° ♁ 37'10	0.28823 AU	minimum elong	2480 Jan 20 09:26	0° ♁ 00'51	0°54'54
morning rise	2477 Aug 29 12:12	1° ♁ 39'32		max. Earth dist.	2480 Jan 22 10:28	2° ♁ 35'02	1.71136 AU
	2477 Sep 01 09:11	30° ♁			2480 Feb 13 06:13	0° ♁	
direct	2477 Sep 16 14:45	25° ♁ 32'33		evening rise	2480 Mar 01 22:55	22° ♁ 09'34	
greatest brilliancy	2477 Sep 27 09:25	27° ♁ 39'30	-4.8m		2480 Mar 08 05:37	0° ♁	
	2477 Oct 02 14:29	0° ♁			2480 Apr 01 09:10	0° ♁	
asc. node	2477 Nov 01 04:59	23° ♁ 05'34		asc. node	2480 Apr 18 00:14	20° ♁ 29'18	
morning max el	2477 Nov 05 13:43	27° ♁ 22'53	46°28'02		2480 Apr 25 18:38	0° ♁	
	2477 Nov 08 04:00	0° ♁			2480 May 20 11:51	0° ♁	
	2477 Dec 05 16:22	0° ♁			2480 Jun 14 15:32	0° ♁	
	2477 Dec 31 04:42	0° ♁			2480 Jul 10 11:21	0° ♁	
	2478 Jan 24 22:15	0° ♁			2480 Aug 06 13:01	0° ♁	
	2478 Feb 18 07:57	0° ♁		desc. node	2480 Aug 07 13:27	1° ♁ 05'09	
desc. node	2478 Feb 20 18:28	3° ♁ 00'27		evening max el	2480 Aug 27 23:01	21° ♁ 50'35	45°58'52
	2478 Mar 14 14:45	0° ♁			2480 Sep 05 18:23	0° ♁	
	2478 Apr 07 21:14	0° ♁		greatest brilliancy	2480 Oct 07 02:23	20° ♁ 42'01	-4.8m
	2478 May 02 04:46	0° ♁		retrograde	2480 Oct 16 03:51	22° ♁ 13'02	
morning set	2478 May 11 19:31	11° ♁ 50'38		evening set	2480 Nov 01 00:37	17° ♁ 24'08	
	2478 May 26 13:42	0° ♁		inferior conj	2480 Nov 05 22:44	14° ♁ 29'41	-5°24'21
asc. node	2478 Jun 13 21:49	22° ♁ 32'34		minimum elong	2480 Nov 06 08:51	14° ♁ 14'16	5°21'50
				min. Earth dist.	2480 Nov 06 19:44	13° ♁ 57'43	0.27119 AU
superior conj	2478 Jun 17 22:42	27° ♁ 30'10	0°09'38	morning rise	2480 Nov 11 16:24	11° ♁ 06'41	
minimum elong	2478 Jun 17 20:42	27° ♁ 24'01	0°09'31	direct	2480 Nov 26 17:10	6° ♁ 38'11	
behind sun begin	2478 Jun 17 02:21	26° ♁ 27'39		asc. node	2480 Nov 28 16:41	6° ♁ 42'55	
behind sun end	2478 Jun 18 15:03	28° ♁ 20'24		greatest brilliancy	2480 Dec 07 19:10	8° ♁ 56'52	-4.9m
max. Earth dist.	2478 Jun 18 02:32	27° ♁ 41'57	1.73539 AU		2481 Jan 06 04:51	0° ♁	
	2478 Jun 19 23:28	0° ♁		morning max el	2481 Jan 16 11:29	10° ♁ 03'02	46°57'59

	2481 Feb 04 03:45	0°		desc. node	2483 Sep 05 01:26	21°	21'03
	2481 Mar 02 09:29	0°			2483 Sep 12 10:46	0°	
desc. node	2481 Mar 20 06:28	21°	06'15		2483 Oct 08 14:27	0°	
	2481 Mar 27 17:21	0°			2483 Nov 05 07:16	0°	
	2481 Apr 21 16:08	0°		evening max el	2483 Nov 10 06:12	5°	01'43 47°03'48
	2481 May 16 10:56	0°			2483 Dec 09 06:13	0°	
	2481 Jun 10 03:38	0°		greatest brilliancy	2483 Dec 20 15:43	5°	57'59 -4.9m
	2481 Jul 04 18:11	0°		asc. node	2483 Dec 27 04:38	7°	39'36
asc. node	2481 Jul 11 09:38	8°	07'24	retrograde	2483 Dec 30 19:39	7°	55'18
morning set	2481 Jul 18 22:12	17°	20'18	evening set	2484 Jan 14 20:17	3°	24'35
	2481 Jul 29 05:43	0°		min. Earth dist.	2484 Jan 19 15:04	0°	34'33 0.26662 AU
max. Earth dist.	2481 Aug 21 09:30	28°	32'33 1.73074 AU	inferior conj	2484 Jan 20 08:49	0°	07'17 5°47'19
	2481 Aug 22 13:47	0°		minimum elong	2484 Jan 19 22:25	0°	23'15 5°44'44
					2484 Jan 20 13:33	30°	
superior conj	2481 Aug 24 07:40	2°	09'27 1°20'08	morning rise	2484 Jan 25 01:01	27°	19'49
minimum elong	2481 Aug 24 02:02	1°	52'02 1°20'04	direct	2484 Feb 09 19:08	22°	28'16
	2481 Sep 15 18:57	0°		greatest brilliancy	2484 Feb 19 00:47	24°	05'51 -4.9m
evening rise	2481 Sep 30 00:34	17°	40'50		2484 Mar 01 19:03	0°	
	2481 Oct 09 22:27	0°		morning max el	2484 Mar 30 19:11	24°	35'04 46°33'21
desc. node	2481 Oct 30 23:15	26°	09'15		2484 Apr 05 04:27	0°	
	2481 Nov 03 01:30	0°		desc. node	2484 Apr 16 18:15	12°	08'04
	2481 Nov 27 04:54	0°			2484 May 03 00:41	0°	
	2481 Dec 21 09:45	0°			2484 May 29 07:03	0°	
	2482 Jan 14 18:51	0°			2484 Jun 23 21:06	0°	
	2482 Feb 08 14:16	0°			2484 Jul 19 01:07	0°	
asc. node	2482 Feb 21 02:20	14°	45'46	asc. node	2484 Aug 07 21:32	23°	58'04
	2482 Mar 06 08:05	0°			2484 Aug 12 20:38	0°	
	2482 Apr 03 06:28	0°			2484 Sep 06 08:19	0°	
evening max el	2482 Apr 05 03:47	1°	52'23 46°02'38	morning set	2484 Sep 25 10:37	23°	07'58
	2482 May 11 18:28	0°			2484 Sep 30 13:33	0°	
greatest brilliancy	2482 May 13 10:41	0°	40'56 -4.7m		2484 Oct 24 14:30	0°	
retrograde	2482 May 24 12:30	2°	54'48	max. Earth dist.	2484 Oct 30 14:35	7°	30'50 1.71679 AU
	2482 Jun 05 14:33	30°					
evening set	2482 Jun 08 13:22	28°	29'40	superior conj	2484 Nov 02 06:27	10°	50'46 0°55'27
desc. node	2482 Jun 12 15:44	26°	05'04	minimum elong	2484 Nov 02 16:42	11°	22'52 0°55'04
inferior conj	2482 Jun 14 22:39	24°	39'31 -0°32'33		2484 Nov 17 13:12	0°	
minimum elong	2482 Jun 14 21:27	24°	41'24 0°32'11	desc. node	2484 Nov 27 11:03	12°	26'02
min. Earth dist.	2482 Jun 14 19:42	24°	44'07 0.28866 AU		2484 Dec 11 11:00	0°	
morning rise	2482 Jun 21 05:48	20°	52'45	evening rise	2484 Dec 12 13:01	1°	21'39
direct	2482 Jul 06 11:47	16°	24'02		2485 Jan 04 08:50	0°	
greatest brilliancy	2482 Jul 16 17:37	18°	17'25 -4.7m		2485 Jan 28 08:07	0°	
	2482 Aug 05 18:00	0°			2485 Feb 21 11:24	0°	
morning max el	2482 Aug 24 07:59	16°	13'11 45°48'07		2485 Mar 17 22:27	0°	
	2482 Sep 07 01:56	0°		asc. node	2485 Mar 20 14:21	3°	13'56
asc. node	2482 Oct 03 19:19	29°	01'26		2485 Apr 11 22:31	0°	
	2482 Oct 04 09:51	0°			2485 May 07 20:22	0°	
	2482 Oct 29 23:37	0°			2485 Jun 04 13:37	0°	
	2482 Nov 23 16:05	0°		evening max el	2485 Jun 14 16:59	10°	03'59 45°24'46
	2482 Dec 17 21:35	0°			2485 Jul 08 09:16	0°	
	2483 Jan 10 22:06	0°		desc. node	2485 Jul 10 03:42	1°	11'15
desc. node	2483 Jan 23 08:39	15°	34'39	greatest brilliancy	2485 Jul 23 01:19	7°	50'46 -4.7m
	2483 Feb 03 20:54	0°		retrograde	2485 Aug 02 06:11	9°	43'00
morning set	2483 Feb 25 13:44	27°	10'42	evening set	2485 Aug 19 14:27	4°	06'25
	2483 Feb 27 19:51	0°		inferior conj	2485 Aug 23 16:56	1°	35'54 -8°06'35
	2483 Mar 23 20:21	0°		minimum elong	2485 Aug 23 10:17	1°	46'16 8°05'54
				min. Earth dist.	2485 Aug 23 23:10	1°	26'09 0.28854 AU
superior conj	2483 Apr 06 13:08	17°	02'56 -1°17'10		2485 Aug 26 06:43	30°	
minimum elong	2483 Apr 06 21:44	17°	29'40 1°16'59	morning rise	2485 Aug 27 05:56	29°	02'46
max. Earth dist.	2483 Apr 10 08:36	21°	47'00 1.72413 AU	direct	2485 Sep 14 06:21	23°	02'01
	2483 Apr 16 23:32	0°		greatest brilliancy	2485 Sep 25 01:36	25°	02'08 -4.8m
	2483 May 11 06:08	0°			2485 Oct 04 04:53	0°	
evening rise	2483 May 15 03:56	4°	48'48	asc. node	2485 Oct 31 06:54	22°	02'53
asc. node	2483 May 16 12:02	6°	27'35	morning max el	2485 Nov 03 03:37	25°	02'25 46°26'31
	2483 Jun 04 16:14	0°			2485 Nov 05 08:52	0°	
	2483 Jun 29 05:52	0°			2485 Dec 08 08:03	0°	
	2483 Jul 23 23:50	0°			2485 Dec 30 18:25	0°	
	2483 Aug 18 00:14	0°			2486 Jan 24 10:57	0°	

	2486 Feb 17 20:03	0°♊		desc. node	2488 Aug 06 15:36	0°♊23'55	
desc. node	2486 Feb 19 20:35	2°♊29'46		evening max el	2488 Aug 25 13:07	19°♊33'09	45°56'47
	2486 Mar 14 02:27	0°♋			2488 Sep 05 23:39	0°♋	
	2486 Apr 07 08:38	0°♌		greatest brilliancy	2488 Oct 04 14:14	18°♋18'32	-4.8m
	2486 May 01 15:55	0°♍		retrograde	2488 Oct 13 16:59	19°♋50'13	
morning set	2486 May 09 11:57	9°♍39'24		evening set	2488 Oct 29 16:39	14°♋56'26	
	2486 May 26 00:40	0°♎		inferior conj	2488 Nov 03 11:47	12°♋05'54	-5°42'15
asc. node	2486 Jun 12 23:52	22°♎05'28		minimum elong	2488 Nov 03 22:07	11°♋50'10	5°39'45
				min. Earth dist.	2488 Nov 04 09:02	11°♋33'33	0.27187 AU
superior conj	2486 Jun 15 16:35	25°♎24'18	0°06'27	morning rise	2488 Nov 09 02:59	8°♋46'27	
minimum elong	2486 Jun 15 15:14	25°♎20'08	0°06'23	direct	2488 Nov 24 07:34	4°♋13'26	
behind sun begin	2486 Jun 14 18:14	24°♎15'36		asc. node	2488 Nov 27 18:46	4°♋27'52	
behind sun end	2486 Jun 16 12:14	26°♎24'40		greatest brilliancy	2488 Dec 05 09:21	6°♋32'24	-4.9m
max. Earth dist.	2486 Jun 15 22:15	25°♎41'41	1.73525 AU		2489 Jan 06 07:59	0°♌	
	2486 Jun 19 10:20	0°♍		morning max el	2489 Jan 14 02:37	7°♌41'34	46°57'47
	2486 Jul 13 20:10	0°♎			2489 Feb 03 21:26	0°♍	
evening rise	2486 Jul 21 19:54	9°♎49'07			2489 Mar 02 00:06	0°♍	
	2486 Aug 07 05:54	0°♏		desc. node	2489 Mar 19 08:30	20°♍32'15	
	2486 Aug 31 16:12	0°♐			2489 Mar 27 06:27	0°♋	
	2486 Sep 25 04:16	0°♑			2489 Apr 21 04:18	0°♌	
desc. node	2486 Oct 02 13:22	9°♑00'35			2489 May 15 22:30	0°♍	
	2486 Oct 19 19:17	0°♌			2489 Jun 09 14:49	0°♎	
	2486 Nov 13 14:58	0°♍			2489 Jul 04 05:07	0°♏	
	2486 Dec 08 20:00	0°♎		asc. node	2489 Jul 10 11:46	7°♏40'41	
	2487 Jan 04 00:10	0°♋		morning set	2489 Jul 16 16:13	15°♏15'11	
evening max el	2487 Jan 21 09:04	18°♋32'54	47°07'11		2489 Jul 28 16:31	0°♎	
asc. node	2487 Jan 23 16:32	20°♋53'05		max. Earth dist.	2489 Aug 19 05:30	26°♎32'48	1.73109 AU
	2487 Feb 02 03:33	0°♌					
greatest brilliancy	2487 Mar 02 19:47	19°♌58'01	-4.9m	superior conj	2489 Aug 22 01:39	0°♏03'24	1°19'02
retrograde	2487 Mar 13 03:57	21°♌59'59		minimum elong	2489 Aug 21 19:31	29°♎44'27	1°18'55
evening set	2487 Mar 30 19:27	15°♌58'56			2489 Aug 22 00:33	0°♏	
inferior conj	2487 Apr 03 06:27	13°♌49'50	8°04'07		2489 Sep 15 05:46	0°♐	
minimum elong	2487 Apr 03 13:57	13°♌38'01	8°03'12	evening rise	2489 Sep 27 16:31	15°♐27'22	
min. Earth dist.	2487 Apr 03 00:27	13°♌59'16	0.28081 AU		2489 Oct 09 09:26	0°♑	
morning rise	2487 Apr 07 08:39	11°♌18'11		desc. node	2489 Oct 30 01:14	25°♑40'34	
direct	2487 Apr 24 05:43	5°♌47'36			2489 Nov 02 12:44	0°♌	
greatest brilliancy	2487 May 03 18:04	7°♌27'20	-4.8m		2489 Nov 26 16:28	0°♍	
desc. node	2487 May 15 05:52	13°♌04'52			2489 Dec 20 21:43	0°♎	
	2487 Jun 05 18:24	0°♍			2490 Jan 14 07:23	0°♋	
morning max el	2487 Jun 12 06:20	6°♍04'36	45°51'45		2490 Feb 08 03:46	0°♌	
	2487 Jul 05 15:58	0°♎		asc. node	2490 Feb 20 04:24	14°♌10'00	
	2487 Aug 01 17:11	0°♏			2490 Mar 05 23:39	0°♍	
	2487 Aug 27 12:47	0°♐		evening max el	2490 Apr 02 20:13	29°♍40'59	46°04'53
asc. node	2487 Sep 05 09:28	10°♐31'33			2490 Apr 03 03:57	0°♎	
	2487 Sep 21 13:42	0°♏		greatest brilliancy	2490 May 11 03:19	28°♎31'29	-4.8m
	2487 Oct 16 01:33	0°♐			2490 May 15 21:46	0°♏	
	2487 Nov 09 04:55	0°♑		retrograde	2490 May 22 05:09	0°♏45'02	
	2487 Dec 03 03:34	0°♌			2490 May 28 07:48	30°♒♎	
greatest brilliancy	2487 Dec 03 17:02	0°♌42'19	-3.9m	evening set	2490 Jun 06 06:20	26°♎19'25	
morning set	2487 Dec 07 21:12	5°♌56'54		desc. node	2490 Jun 11 17:51	23°♎02'47	
desc. node	2487 Dec 25 22:54	28°♌40'36		inferior conj	2490 Jun 12 14:54	22°♎29'47	-0°12'29
	2487 Dec 27 00:09	0°♍		minimum elong	2490 Jun 12 14:26	22°♎30'31	0°12'21
				transit middle	2490 Jun 12 14:26	22°♎30'31	0°12'21
superior conj	2488 Jan 18 06:51	28°♍02'09	-0°52'12	transit begin	2490 Jun 12 11:48	22°♎34'38	
minimum elong	2488 Jan 17 19:19	27°♍25'52	0°51'44	transit end	2490 Jun 12 17:04	22°♎26'23	
max. Earth dist.	2488 Jan 19 16:09	29°♍46'54	1.71121 AU	min. Earth dist.	2490 Jun 12 11:54	22°♎34'29	0.28847 AU
	2488 Jan 19 20:19	0°♎		morning rise	2490 Jun 18 22:54	18°♎41'49	
	2488 Feb 12 17:21	0°♋		direct	2490 Jul 04 04:22	14°♎14'46	
evening rise	2488 Feb 28 09:47	19°♋38'46		greatest brilliancy	2490 Jul 14 08:38	16°♎07'02	-4.7m
	2488 Mar 07 16:47	0°♌			2490 Aug 06 03:52	0°♏	
	2488 Mar 31 20:24	0°♍		morning max el	2490 Aug 21 23:48	14°♏03'02	45°47'22
asc. node	2488 Apr 17 02:12	20°♍00'26			2490 Sep 06 19:49	0°♎	
	2488 Apr 25 06:04	0°♎		asc. node	2490 Oct 02 21:13	28°♎43'11	
	2488 May 19 23:42	0°♏			2490 Oct 04 00:02	0°♏	
	2488 Jun 14 04:09	0°♐			2490 Oct 29 12:15	0°♐	
	2488 Jul 10 01:29	0°♑			2490 Nov 23 03:59	0°♑	
	2488 Aug 06 06:34	0°♒			2490 Dec 17 09:07	0°♌	

	2491 Jan 10 09:24	0°♄			2493 Jul 09 08:00	0°♍	
desc. node	2491 Jan 22 10:47	15°♄06'14		greatest brilliancy	2493 Jul 20 15:30	5°♍39'26	-4.7m
	2491 Feb 03 08:03	0°♍		retrograde	2493 Jul 30 21:34	7°♍33'13	
morning set	2491 Feb 23 00:23	24°♍39'24		evening set	2493 Aug 17 03:00	2°♍00'32	
	2491 Feb 27 06:51	0°♎			2493 Aug 20 10:32	30°♎♂	
	2491 Mar 23 07:13	0°♏		inferior conj	2493 Aug 21 08:47	29°♎25'22	-7°58'58
				minimum elong	2493 Aug 21 01:34	29°♎36'36	7°58'10
superior conj	2491 Apr 04 02:35	14°♏41'52	-1°18'44	min. Earth dist.	2493 Aug 21 14:23	29°♎16'39	0.28885 AU
minimum elong	2491 Apr 04 10:39	15°♏06'56	1°18'34	morning rise	2493 Aug 24 23:55	27°♎11'08	
max. Earth dist.	2491 Apr 08 01:48	19°♏37'46	1.72357 AU	direct	2493 Sep 11 21:59	21°♎09'10	
	2491 Apr 16 10:20	0°♐		greatest brilliancy	2493 Sep 22 17:57	23°♎16'25	-4.8m
	2491 May 10 16:55	0°♑			2493 Oct 05 07:04	0°♑	
evening rise	2491 May 12 19:51	2°♑36'51		asc. node	2493 Oct 30 09:01	21°♑22'45	
asc. node	2491 May 15 14:04	6°♑00'40		morning max el	2493 Oct 31 18:15	22°♑45'03	46°25'00
	2491 Jun 04 03:06	0°♒			2493 Nov 07 20:39	0°♒	
	2491 Jun 28 16:58	0°♓			2493 Dec 04 23:07	0°♓	
	2491 Jul 23 11:22	0°♑			2493 Dec 30 07:38	0°♑	
	2491 Aug 17 12:32	0°♒			2494 Jan 23 23:12	0°♄	
desc. node	2491 Sep 04 03:25	20°♒48'20			2494 Feb 17 07:41	0°♍	
	2491 Sep 12 00:21	0°♓		desc. node	2494 Feb 18 22:34	2°♍00'06	
	2491 Oct 08 06:24	0°♑			2494 Mar 13 13:41	0°♎	
	2491 Nov 05 05:00	0°♄			2494 Apr 06 19:34	0°♏	
evening max el	2491 Nov 07 19:59	2°♄38'31	47°02'06		2494 May 01 02:38	0°♐	
	2491 Dec 10 18:57	0°♍		morning set	2494 May 07 04:18	7°♐28'59	
greatest brilliancy	2491 Dec 18 05:37	3°♍31'20	-4.9m		2494 May 25 11:14	0°♑	
asc. node	2491 Dec 26 06:43	5°♍22'00		asc. node	2494 Jun 12 02:00	21°♑39'41	
retrograde	2491 Dec 28 07:58	5°♍27'03					
evening set	2492 Jan 12 06:05	1°♍01'16		superior conj	2494 Jun 13 10:17	23°♑18'54	0°03'14
	2492 Jan 14 01:06	30°♎♄		minimum elong	2494 Jun 13 09:37	23°♑16'49	0°03'13
min. Earth dist.	2492 Jan 17 04:44	28°♄05'51	0.26626 AU	behind sun begin	2494 Jun 12 11:13	22°♑08'01	
inferior conj	2492 Jan 17 21:24	27°♄40'13	5°28'33	behind sun end	2494 Jun 14 08:00	24°♑25'38	
minimum elong	2492 Jan 17 11:14	27°♄55'51	5°25'57	max. Earth dist.	2494 Jun 13 17:44	23°♑41'50	1.73512 AU
morning rise	2492 Jan 22 16:46	24°♄48'04			2494 Jun 18 20:51	0°♒	
direct	2492 Feb 07 07:21	20°♄01'44			2494 Jul 13 06:42	0°♓	
greatest brilliancy	2492 Feb 16 14:41	21°♄40'25	-4.9m	evening rise	2494 Jul 19 14:44	7°♓47'03	
	2492 Mar 02 22:00	0°♍			2494 Aug 06 16:35	0°♑	
morning max el	2492 Mar 28 07:12	22°♍09'02	46°34'46		2494 Aug 31 03:11	0°♒	
	2492 Apr 05 01:09	0°♎			2494 Sep 24 15:42	0°♓	
desc. node	2492 Apr 15 20:12	11°♎25'01		desc. node	2494 Oct 01 15:21	8°♓31'15	
	2492 May 02 16:08	0°♏			2494 Oct 19 07:20	0°♑	
	2492 May 28 20:19	0°♐			2494 Nov 13 03:56	0°♄	
	2492 Jun 23 09:11	0°♑			2494 Dec 08 10:29	0°♍	
	2492 Jul 18 12:30	0°♒			2495 Jan 03 17:48	0°♎	
asc. node	2492 Aug 06 23:34	23°♒30'46		evening max el	2495 Jan 18 23:20	16°♎11'35	47°08'45
	2492 Aug 12 07:36	0°♓		asc. node	2495 Jan 22 18:37	20°♎01'07	
	2492 Sep 05 19:04	0°♑			2495 Feb 02 07:57	0°♏	
morning set	2492 Sep 23 02:38	21°♑25'24		greatest brilliancy	2495 Feb 28 11:02	17°♏40'31	-4.9m
	2492 Sep 30 00:15	0°♒		retrograde	2495 Mar 10 19:32	19°♏43'13	
	2492 Oct 24 01:15	0°♓		evening set	2495 Mar 28 12:55	13°♏38'21	
max. Earth dist.	2492 Oct 28 01:20	5°♓00'38	1.71725 AU	inferior conj	2495 Mar 31 21:27	11°♏33'15	8°12'38
				minimum elong	2495 Apr 01 04:24	11°♏22'19	8°11'53
superior conj	2492 Oct 30 20:12	8°♓29'52	0°58'09	min. Earth dist.	2495 Mar 31 14:40	11°♏43'55	0.28042 AU
minimum elong	2492 Oct 31 06:30	9°♓02'09	0°57'47	morning rise	2495 Apr 04 20:04	9°♏07'15	
	2492 Nov 17 00:01	0°♑		direct	2495 Apr 21 20:02	3°♏31'31	
desc. node	2492 Nov 26 13:10	11°♑58'42		greatest brilliancy	2495 May 01 07:46	5°♏11'09	-4.8m
evening rise	2492 Dec 10 00:10	28°♑51'49		desc. node	2495 May 14 08:00	11°♏46'21	
	2492 Dec 10 21:54	0°♄			2495 Jun 05 19:21	0°♐	
	2493 Jan 03 19:50	0°♍		morning max el	2495 Jun 09 22:08	3°♐53'25	45°52'44
	2493 Jan 27 19:16	0°♎			2495 Jul 05 08:12	0°♑	
	2493 Feb 20 22:49	0°♏			2495 Aug 01 06:35	0°♒	
	2493 Mar 17 10:19	0°♐			2495 Aug 27 00:53	0°♓	
asc. node	2493 Mar 19 16:17	2°♐43'38		asc. node	2495 Sep 04 11:23	10°♓02'01	
	2493 Apr 11 11:13	0°♑			2495 Sep 21 01:08	0°♑	
	2493 May 07 10:49	0°♒			2495 Oct 15 12:39	0°♓	
	2493 Jun 04 08:41	0°♓			2495 Nov 08 15:51	0°♓	
evening max el	2493 Jun 12 07:17	7°♓50'06	45°25'01		2495 Dec 02 14:26	0°♑	
desc. node	2493 Jul 09 05:50	29°♓56'35		greatest brilliancy	2495 Dec 03 03:34	0°♑41'14	-3.9m

morning set	2495 Dec 05 08:45	3°♊28'13		transit middle	2498 Jun 10 07:34	20°♊20'21	0°07'23
desc. node	2495 Dec 25 00:57	28°♊12'51		transit begin	2498 Jun 10 03:58	20°♊26'01	
	2495 Dec 26 11:01	0°♊		transit end	2498 Jun 10 11:11	20°♊14'41	
				min. Earth dist.	2498 Jun 10 04:29	20°♊25'13	0.28823 AU
superior conj	2496 Jan 15 16:27	25°♊27'08	-0°48'55	desc. node	2498 Jun 10 19:52	20°♊01'03	
minimum elong	2496 Jan 15 05:18	24°♊52'01	0°48'27	morning rise	2498 Jun 16 15:56	16°♊31'40	
max. Earth dist.	2496 Jan 16 23:23	27°♊04'25	1.71109 AU	direct	2498 Jul 01 20:43	12°♊06'18	
	2496 Jan 19 07:12	0°♊		greatest brilliancy	2498 Jul 11 23:57	13°♊57'31	-4.7m
	2496 Feb 12 04:14	0°♊			2498 Aug 06 10:47	0°♊	
evening rise	2496 Feb 25 20:44	17°♊09'00		morning max el	2498 Aug 19 14:47	11°♊51'14	45°46'35
	2496 Mar 07 03:39	0°♊			2498 Sep 06 13:11	0°♊	
	2496 Mar 31 07:18	0°♊		asc. node	2498 Oct 01 23:19	28°♊08'52	
asc. node	2496 Apr 16 04:18	19°♊33'01			2498 Oct 03 14:01	0°♊	
	2496 Apr 24 17:10	0°♊			2498 Oct 29 00:51	0°♊	
	2496 May 19 11:14	0°♊			2498 Nov 22 15:55	0°♊	
	2496 Jun 13 16:31	0°♊			2498 Dec 16 20:41	0°♊	
	2496 Jul 09 15:29	0°♊			2499 Jan 09 20:46	0°♊	
desc. node	2496 Aug 05 17:34	29°♊42'28		desc. node	2499 Jan 21 12:44	14°♊37'08	
	2496 Aug 06 00:14	0°♊			2499 Feb 02 19:14	0°♊	
evening max el	2496 Aug 23 03:52	17°♊18'09	45°54'42	morning set	2499 Feb 20 10:46	22°♊06'59	
	2496 Sep 06 06:43	0°♊			2499 Feb 26 17:55	0°♊	
greatest brilliancy	2496 Oct 02 02:29	15°♊56'48	-4.8m		2499 Mar 22 18:11	0°♊	
retrograde	2496 Oct 11 06:08	17°♊28'36					
evening set	2496 Oct 27 08:57	12°♊30'14		superior conj	2499 Apr 01 15:51	12°♊19'54	-1°20'10
inferior conj	2496 Nov 01 01:02	9°♊43'33	-5°59'17	minimum elong	2499 Apr 01 23:20	12°♊43'09	1°20'03
minimum elong	2496 Nov 01 11:30	9°♊27'35	5°56'51	max. Earth dist.	2499 Apr 05 17:47	17°♊24'21	1.72300 AU
min. Earth dist.	2496 Nov 01 22:24	9°♊10'59	0.27254 AU		2499 Apr 15 21:15	0°♊	
morning rise	2496 Nov 06 13:33	6°♊27'39		evening rise	2499 May 10 11:34	0°♊23'52	
direct	2496 Nov 21 22:12	1°♊50'17			2499 May 10 03:50	0°♊	
asc. node	2496 Nov 26 20:52	2°♊19'22		asc. node	2499 May 14 16:13	5°♊33'42	
greatest brilliancy	2496 Dec 02 23:17	4°♊08'44	-4.9m		2499 Jun 03 14:05	0°♊	
	2497 Jan 06 09:21	0°♊			2499 Jun 28 04:09	0°♊	
morning max el	2497 Jan 11 17:10	5°♊19'22	46°57'22		2499 Jul 22 23:00	0°♊	
	2497 Feb 03 14:32	0°♊			2499 Aug 17 00:58	0°♊	
	2497 Mar 01 14:22	0°♊		desc. node	2499 Sep 03 05:25	20°♊15'15	
desc. node	2497 Mar 18 10:24	19°♊58'35			2499 Sep 11 14:10	0°♊	
	2497 Mar 26 19:17	0°♊			2499 Oct 07 22:50	0°♊	
	2497 Apr 20 16:15	0°♊			2499 Nov 05 03:56	0°♊	
	2497 May 15 09:51	0°♊		evening max el	2499 Nov 05 08:44	0°♊11'58	47°00'09
	2497 Jun 09 01:45	0°♊			2499 Dec 13 04:55	0°♊	
	2497 Jul 03 15:49	0°♊		greatest brilliancy	2499 Dec 15 19:32	1°♊03'17	-4.9m
asc. node	2497 Jul 09 13:46	7°♊14'09		asc. node	2499 Dec 25 08:44	2°♊57'12	
morning set	2497 Jul 14 10:28	13°♊11'30		retrograde	2499 Dec 25 19:51	2°♊57'27	
	2497 Jul 28 03:08	0°♊			2500 Jan 06 22:06	30°♊	
max. Earth dist.	2497 Aug 17 00:10	24°♊29'31	1.73147 AU	evening set	2500 Jan 09 15:49	28°♊35'57	
				inferior conj	2500 Jan 15 09:47	25°♊11'41	5°08'55
superior conj	2497 Aug 19 19:49	27°♊58'25	1°17'49	minimum elong	2500 Jan 14 23:54	25°♊26'52	5°06'17
minimum elong	2497 Aug 19 13:13	27°♊38'03	1°17'41	min. Earth dist.	2500 Jan 14 18:25	25°♊35'17	0.26594 AU
	2497 Aug 21 11:10	0°♊		morning rise	2500 Jan 20 08:17	22°♊15'04	
	2497 Sep 14 16:29	0°♊		direct	2500 Feb 04 18:59	17°♊33'26	
evening rise	2497 Sep 25 08:31	13°♊14'28		greatest brilliancy	2500 Feb 14 04:47	19°♊13'54	-4.9m
	2497 Oct 08 20:20	0°♊			2500 Mar 04 18:17	0°♊	
desc. node	2497 Oct 29 03:21	25°♊12'35		morning max el	2500 Mar 26 19:04	19°♊41'29	46°36'17
	2497 Nov 01 23:54	0°♊			2500 Apr 05 21:30	0°♊	
	2497 Nov 26 03:57	0°♊		desc. node	2500 Apr 15 22:23	10°♊42'22	
	2497 Dec 20 09:38	0°♊			2500 May 03 07:37	0°♊	
	2498 Jan 13 19:54	0°♊			2500 May 29 09:43	0°♊	
	2498 Feb 07 17:20	0°♊			2500 Jun 23 21:28	0°♊	
asc. node	2498 Feb 19 06:20	13°♊33'47			2500 Jul 19 00:05	0°♊	
	2498 Mar 05 15:27	0°♊		asc. node	2500 Aug 07 01:34	23°♊02'41	
evening max el	2498 Mar 31 12:10	27°♊28'16	46°07'08		2500 Aug 12 18:47	0°♊	
	2498 Apr 03 02:14	0°♊			2500 Sep 06 06:02	0°♊	
greatest brilliancy	2498 May 08 20:47	26°♊23'16	-4.8m	morning set	2500 Sep 21 19:04	19°♊13'33	
retrograde	2498 May 19 21:32	28°♊35'46			2500 Sep 30 11:10	0°♊	
evening set	2498 Jun 03 23:36	24°♊09'34			2500 Oct 24 12:13	0°♊	
inferior conj	2498 Jun 10 07:18	20°♊20'47	0°07'28	max. Earth dist.	2500 Oct 26 15:24	2°♊40'06	1.71776 AU
minimum elong	2498 Jun 10 07:34	20°♊20'21	0°07'23				

superior conj	2500 Oct 29 10:15	6° \mathbb{M} 09'15	1°00'44	minimum elong	2503 Mar 30 18:25	9° Υ 03'48	8°19'49
minimum elong	2500 Oct 29 20:32	6° \mathbb{M} 41'26	1°00'22	morning rise	2503 Apr 03 07:10	6° Υ 53'20	
	2500 Nov 17 11:06	0° \mathcal{X}		direct	2503 Apr 20 10:28	1° Υ 12'43	
desc. node	2500 Nov 26 15:15	11° \mathcal{X} 30'18		greatest brilliancy	2503 Apr 29 20:35	2° Υ 51'33	-4.8m
evening rise	2500 Dec 08 11:23	26° \mathcal{X} 21'20		desc. node	2503 May 14 10:02	10° Υ 28'05	
	2500 Dec 11 09:06	0° \mathcal{Z}			2503 Jun 06 19:50	0° \mathcal{B}	
	2501 Jan 04 07:11	0° \approx		morning max el	2503 Jun 08 13:51	1° \mathcal{B} 40'19	45°53'45
	2501 Jan 28 06:48	0° \mathcal{H}			2503 Jul 06 00:41	0° \mathbb{I}	
	2501 Feb 21 10:37	0° Υ			2503 Aug 01 20:21	0° \mathcal{G}	
	2501 Mar 17 22:35	0° \mathcal{B}			2503 Aug 27 13:22	0° \mathcal{O}	
asc. node	2501 Mar 19 18:23	2° \mathcal{B} 12'44		asc. node	2503 Sep 04 13:28	9° \mathcal{O} 31'45	
	2501 Apr 12 00:22	0° \mathbb{I}			2503 Sep 21 12:57	0° \mathbb{P}	
	2501 May 08 01:52	0° \mathcal{G}			2503 Oct 16 00:06	0° \mathcal{L}	
	2501 Jun 05 04:47	0° \mathcal{O}			2503 Nov 09 03:07	0° \mathbb{M}	
evening max el	2501 Jun 10 22:11	5° \mathcal{O} 36'37	45°25'25		2503 Dec 03 01:37	0° \mathcal{X}	
desc. node	2501 Jul 09 07:49	28° \mathcal{O} 38'26		greatest brilliancy	2503 Dec 03 12:42	0° \mathcal{X} 34'48	-3.9m
	2501 Jul 11 16:32	0° \mathbb{P}		morning set	2503 Dec 03 20:56	1° \mathcal{X} 00'38	
greatest brilliancy	2501 Jul 19 05:20	3° \mathbb{P} 26'49	-4.7m	desc. node	2503 Dec 25 02:56	27° \mathcal{X} 43'58	
retrograde	2501 Jul 29 13:37	5° \mathbb{P} 22'40			2503 Dec 26 22:11	0° \mathcal{Z}	
	2501 Aug 15 11:24	30° \mathcal{R} \mathcal{O}					
evening set	2501 Aug 15 15:33	29° \mathcal{O} 53'58		superior conj	2504 Jan 14 02:27	22° \mathcal{Z} 52'24	-0°45'33
inferior conj	2501 Aug 20 00:39	27° \mathcal{O} 14'04	-7°50'38	minimum elong	2504 Jan 13 15:46	22° \mathcal{Z} 18'49	0°45'06
minimum elong	2501 Aug 19 16:56	27° \mathcal{O} 26'05	7°49'42	max. Earth dist.	2504 Jan 15 08:41	24° \mathcal{Z} 27'31	1.71100 AU
min. Earth dist.	2501 Aug 20 05:18	27° \mathcal{O} 06'50	0.28909 AU		2504 Jan 19 18:22	0° \approx	
morning rise	2501 Aug 23 18:07	24° \mathcal{O} 56'33			2504 Feb 12 15:26	0° \mathcal{H}	
direct	2501 Sep 10 13:56	18° \mathcal{O} 57'27		evening rise	2504 Feb 24 07:38	14° \mathcal{H} 37'53	
greatest brilliancy	2501 Sep 21 09:45	21° \mathcal{O} 04'38	-4.8m		2504 Mar 07 14:53	0° Υ	
	2501 Oct 07 02:32	0° \mathbb{P}			2504 Mar 31 18:39	0° \mathcal{B}	
asc. node	2501 Oct 30 11:07	20° \mathbb{P} 32'51		asc. node	2504 Apr 16 06:21	19° \mathcal{B} 04'06	
morning max el	2501 Oct 30 09:44	20° \mathbb{P} 29'24	46°23'31		2504 Apr 25 04:44	0° \mathbb{I}	
	2501 Nov 08 16:07	0° \mathcal{L}			2504 May 19 23:16	0° \mathcal{G}	
	2501 Dec 05 14:17	0° \mathbb{M}			2504 Jun 14 05:26	0° \mathcal{O}	
	2501 Dec 30 21:06	0° \mathcal{X}			2504 Jul 10 06:06	0° \mathbb{P}	
	2502 Jan 24 11:47	0° \mathcal{Z}		desc. node	2504 Aug 05 19:35	28° \mathbb{P} 59'20	
	2502 Feb 17 19:45	0° \approx			2504 Aug 06 18:51	0° \mathcal{L}	
desc. node	2502 Feb 19 00:36	1° \approx 29'12		evening max el	2504 Aug 21 18:18	15° \mathcal{L} 01'06	45°52'36
	2502 Mar 14 01:22	0° \mathcal{H}			2504 Sep 07 17:05	0° \mathbb{M}	
	2502 Apr 07 06:58	0° Υ		greatest brilliancy	2504 Sep 30 15:21	13° \mathbb{M} 34'41	-4.8m
	2502 May 01 13:48	0° \mathcal{B}		retrograde	2504 Oct 09 18:46	15° \mathbb{M} 05'53	
morning set	2502 May 05 20:07	5° \mathcal{B} 15'31		evening set	2504 Oct 26 01:17	10° \mathbb{M} 03'08	
	2502 May 25 22:14	0° \mathbb{I}		inferior conj	2504 Oct 30 14:17	7° \mathbb{M} 20'24	-6°15'36
				minimum elong	2504 Oct 31 00:48	7° \mathbb{M} 04'19	6°13'16
superior conj	2502 Jun 12 03:39	21° \mathbb{I} 11'07	-0°00'02	min. Earth dist.	2504 Oct 31 11:58	6° \mathbb{M} 47'14	0.27315 AU
minimum elong	2502 Jun 12 03:38	21° \mathbb{I} 11'03	0°00'02	morning rise	2504 Nov 04 23:50	4° \mathbb{M} 08'10	
behind sun begin	2502 Jun 11 06:24	20° \mathbb{I} 05'50			2504 Nov 15 06:46	30° \mathcal{R} \mathcal{L}	
behind sun end	2502 Jun 13 00:51	22° \mathbb{I} 16'17		direct	2504 Nov 20 12:25	29° \mathcal{L} 26'23	
asc. node	2502 Jun 12 03:58	21° \mathbb{I} 12'07			2504 Nov 25 20:28	0° \mathbb{M}	
max. Earth dist.	2502 Jun 12 14:25	21° \mathbb{I} 44'16	1.73498 AU	asc. node	2504 Nov 26 22:48	0° \mathbb{M} 14'54	
	2502 Jun 19 07:47	0° \mathcal{G}		greatest brilliancy	2504 Dec 01 13:17	1° \mathbb{M} 44'18	-4.9m
	2502 Jul 13 17:41	0° \mathcal{O}			2505 Jan 07 09:45	0° \mathcal{X}	
evening rise	2502 Jul 18 09:29	5° \mathcal{O} 43'26		morning max el	2505 Jan 10 06:42	2° \mathcal{X} 53'55	46°57'06
	2502 Aug 07 03:44	0° \mathbb{P}			2505 Feb 04 07:29	0° \mathcal{Z}	
	2502 Aug 31 14:36	0° \mathcal{L}			2505 Mar 02 04:41	0° \approx	
	2502 Sep 25 03:31	0° \mathbb{M}		desc. node	2505 Mar 18 12:36	19° \approx 25'21	
desc. node	2502 Oct 01 17:31	8° \mathbb{M} 01'22			2505 Mar 27 08:15	0° \mathcal{H}	
	2502 Oct 19 19:46	0° \mathcal{X}			2505 Apr 21 04:25	0° Υ	
	2502 Nov 13 17:19	0° \mathcal{Z}			2505 May 15 21:29	0° \mathcal{B}	
	2502 Dec 09 01:30	0° \approx			2505 Jun 09 13:01	0° \mathbb{I}	
	2503 Jan 04 12:17	0° \mathcal{H}			2505 Jul 04 02:51	0° \mathcal{G}	
evening max el	2503 Jan 17 14:24	13° \mathcal{H} 50'50	47°09'58	asc. node	2505 Jul 09 15:46	6° \mathcal{G} 46'42	
asc. node	2503 Jan 22 20:32	19° \mathcal{H} 06'17		morning set	2505 Jul 13 04:19	11° \mathcal{G} 05'35	
	2503 Feb 03 15:13	0° Υ			2505 Jul 28 14:02	0° \mathcal{O}	
greatest brilliancy	2503 Feb 27 01:36	15° Υ 19'55	-4.9m	max. Earth dist.	2505 Aug 15 17:57	22° \mathcal{O} 22'41	1.73183 AU
retrograde	2503 Mar 09 11:09	17° Υ 23'31					
evening set	2503 Mar 27 05:52	11° Υ 15'11		superior conj	2505 Aug 18 13:42	25° \mathcal{O} 51'51	1°16'28
min. Earth dist.	2503 Mar 30 04:11	9° Υ 26'07	0.28003 AU	minimum elong	2505 Aug 18 06:42	25° \mathcal{O} 30'12	1°16'20
inferior conj	2503 Mar 30 12:05	9° Υ 13'44	8°20'25		2505 Aug 21 22:03	0° \mathbb{P}	

	2505 Sep 15 03:28	0°♄		morning max el	2508 Mar 24 07:53	17°♊16'35	46°38'02
evening rise	2505 Sep 24 00:28	11°♄00'38			2508 Apr 05 17:04	0°♋	
	2505 Oct 09 07:31	0°♌		desc. node	2508 Apr 15 00:23	10°♋00'16	
desc. node	2505 Oct 29 05:22	24°♌43'24			2508 May 02 22:40	0°♍	
	2505 Nov 02 11:21	0°♎			2508 May 28 22:48	0°♎	
	2505 Nov 26 15:43	0°♏			2508 Jun 23 09:29	0°♐	
	2505 Dec 20 21:46	0°♑			2508 Jul 18 11:29	0°♑	
	2506 Jan 14 08:36	0°♋		asc. node	2508 Aug 06 03:40	22°♑35'21	
	2506 Feb 08 07:05	0°♍			2508 Aug 12 05:49	0°♒	
asc. node	2506 Feb 19 08:28	12°♍57'44			2508 Sep 05 16:54	0°♓	
	2506 Mar 06 07:33	0°♎		morning set	2508 Sep 19 11:26	17°♓01'49	
evening max el	2506 Mar 30 03:04	25°♎12'33	46°09'14		2508 Sep 29 21:59	0°♈	
	2506 Apr 04 01:36	0°♐			2508 Oct 23 23:05	0°♌	
greatest brilliancy	2506 May 07 14:28	24°♐14'31	-4.8m	max. Earth dist.	2508 Oct 24 06:34	0°♌23'27	1.71823 AU
retrograde	2506 May 18 13:31	26°♐25'47					
evening set	2506 Jun 02 16:55	21°♐58'32		superior conj	2508 Oct 27 00:13	3°♌48'45	1°03'11
inferior conj	2506 Jun 08 23:40	18°♐11'00	0°27'27	minimum elong	2508 Oct 27 10:24	4°♌20'38	1°02'51
minimum elong	2506 Jun 09 00:41	18°♐09'24	0°27'10		2508 Nov 16 22:03	0°♎	
min. Earth dist.	2506 Jun 08 21:21	18°♐14'38	0.28805 AU	desc. node	2508 Nov 25 17:12	11°♎01'54	
desc. node	2506 Jun 10 21:52	16°♐58'36		evening rise	2508 Dec 05 22:35	23°♎51'20	
morning rise	2506 Jun 15 08:46	14°♐20'50			2508 Dec 10 20:10	0°♏	
direct	2506 Jun 30 12:34	9°♐56'49			2509 Jan 03 18:23	0°♑	
greatest brilliancy	2506 Jul 10 15:54	11°♐47'43	-4.7m		2509 Jan 27 18:12	0°♋	
	2506 Aug 07 15:58	0°♑			2509 Feb 20 22:15	0°♍	
morning max el	2506 Aug 18 05:17	9°♑37'27	45°45'55		2509 Mar 17 10:39	0°♎	
	2506 Sep 07 06:25	0°♒		asc. node	2509 Mar 18 20:28	1°♎42'20	
asc. node	2506 Oct 02 01:27	27°♒34'19			2509 Apr 11 13:19	0°♐	
	2506 Oct 04 04:03	0°♓			2509 May 07 16:45	0°♑	
	2506 Oct 29 13:31	0°♈			2509 Jun 05 01:05	0°♒	
	2506 Nov 23 03:55	0°♌		evening max el	2509 Jun 08 14:00	3°♒26'35	45°25'51
	2506 Dec 17 08:20	0°♎		desc. node	2509 Jul 08 09:51	27°♒19'13	
	2507 Jan 10 08:11	0°♏			2509 Jul 13 16:07	0°♓	
desc. node	2507 Jan 21 14:47	14°♏08'05		greatest brilliancy	2509 Jul 16 18:59	1°♓15'21	-4.7m
	2507 Feb 03 06:28	0°♑		retrograde	2509 Jul 27 05:59	3°♓13'22	
morning set	2507 Feb 18 21:22	19°♑35'04			2509 Aug 09 02:15	30°♓♒	
	2507 Feb 27 04:58	0°♋		evening set	2509 Aug 13 04:15	27°♒48'44	
	2507 Mar 23 05:07	0°♍		inferior conj	2509 Aug 17 16:40	25°♒03'57	-7°41'40
				minimum elong	2509 Aug 17 08:28	25°♒16'42	7°40'35
superior conj	2507 Mar 31 05:28	9°♍59'04	-1°21'27	min. Earth dist.	2509 Aug 17 20:07	24°♒58'34	0.28936 AU
minimum elong	2507 Mar 31 12:18	10°♍20'20	1°21'21	morning rise	2509 Aug 21 12:32	22°♒42'58	
max. Earth dist.	2507 Apr 04 09:02	15°♍08'43	1.72242 AU	direct	2509 Sep 08 06:29	16°♒47'00	
	2507 Apr 16 08:07	0°♎		greatest brilliancy	2509 Sep 19 01:10	18°♒53'26	-4.8m
evening rise	2507 May 09 03:28	28°♎11'28			2509 Oct 07 16:40	0°♓	
	2507 May 10 14:42	0°♐		morning max el	2509 Oct 28 02:01	18°♓16'34	46°21'54
asc. node	2507 May 14 18:09	5°♐06'11		asc. node	2509 Oct 29 13:02	19°♓43'59	
	2507 Jun 04 01:04	0°♑			2509 Nov 08 10:50	0°♈	
	2507 Jun 28 15:24	0°♒			2509 Dec 05 05:02	0°♌	
	2507 Jul 23 10:44	0°♓			2509 Dec 30 10:13	0°♎	
	2507 Aug 17 13:32	0°♈			2510 Jan 24 00:03	0°♏	
desc. node	2507 Sep 03 07:34	19°♈42'20			2510 Feb 17 07:29	0°♑	
	2507 Sep 12 04:10	0°♌		desc. node	2510 Feb 18 02:44	0°♑59'33	
	2507 Oct 08 15:36	0°♎			2510 Mar 13 12:44	0°♋	
evening max el	2507 Nov 03 20:53	27°♎44'06	46°58'16		2510 Apr 06 18:02	0°♍	
	2507 Nov 06 03:54	0°♏			2510 May 01 00:37	0°♎	
greatest brilliancy	2507 Dec 14 09:12	28°♏34'53	-4.9m	morning set	2510 May 03 12:06	3°♏03'30	
	2507 Dec 19 11:24	0°♑			2510 May 25 08:52	0°♐	
retrograde	2507 Dec 24 08:00	0°♑28'02					
asc. node	2507 Dec 25 10:46	0°♑26'31		superior conj	2510 Jun 09 21:12	19°♐04'59	-0°03'17
	2507 Dec 29 02:22	30°♓♒		minimum elong	2510 Jun 09 21:54	19°♐07'08	0°03'16
evening set	2508 Jan 08 01:41	26°♓10'03		behind sun begin	2510 Jun 08 23:24	17°♐57'58	
inferior conj	2508 Jan 13 22:06	22°♓43'05	4°48'38	behind sun end	2510 Jun 10 20:23	20°♐16'17	
minimum elong	2508 Jan 13 12:35	22°♓57'40	4°46'01	max. Earth dist.	2510 Jun 10 13:02	19°♐53'41	1.73478 AU
min. Earth dist.	2508 Jan 13 08:03	23°♓04'37	0.26564 AU	asc. node	2510 Jun 11 06:00	20°♐45'51	
morning rise	2508 Jan 18 23:41	19°♓42'19			2510 Jun 18 18:20	0°♑	
direct	2508 Feb 03 06:31	15°♓04'52			2510 Jul 13 04:17	0°♒	
greatest brilliancy	2508 Feb 12 18:53	16°♓47'28	-4.9m	evening rise	2510 Jul 16 04:35	3°♒42'06	
	2508 Mar 05 09:18	0°♑			2510 Aug 06 14:30	0°♓	

	2510 Aug 31 01:41	0°♄		2513 Feb 03 23:55	0°♁	
	2510 Sep 24 15:04	0°♍		2513 Mar 01 18:38	0°♁	
desc. node	2510 Sep 30 19:30	7°♍31'44	desc. node	2513 Mar 17 14:37	18°♁52'22	
	2510 Oct 19 08:00	0°♁		2513 Mar 26 20:54	0°♁	
	2510 Nov 13 06:33	0°♁		2513 Apr 20 16:14	0°♁	
	2510 Dec 08 16:26	0°♁		2513 May 15 08:45	0°♁	
	2511 Jan 04 06:56	0°♁		2513 Jun 08 23:57	0°♁	
evening max el	2511 Jan 15 06:03	11°♁32'27 47°11'12		2513 Jul 03 13:33	0°♁	
asc. node	2511 Jan 21 22:41	18°♁11'54	asc. node	2513 Jul 08 17:55	6°♁20'38	
	2511 Feb 04 00:37	0°♁	morning set	2513 Jul 10 22:23	9°♁01'20	
greatest brilliancy	2511 Feb 24 16:21	13°♁00'32 -4.9m		2513 Jul 28 00:36	0°♁	
retrograde	2511 Mar 07 02:48	15°♁04'34	max. Earth dist.	2513 Aug 13 12:03	20°♁17'58 1.73216 AU	
evening set	2511 Mar 24 22:42	8°♁53'22				
min. Earth dist.	2511 Mar 27 17:34	7°♁09'29 0.27959 AU	superior conj	2513 Aug 16 08:05	23°♁47'53 1°15'04	
inferior conj	2511 Mar 28 02:43	6°♁55'09 8°27'33	minimum elong	2513 Aug 16 00:42	23°♁25'05 1°14'53	
minimum elong	2511 Mar 28 08:23	6°♁46'16 8°27'04		2513 Aug 21 08:36	0°♁	
morning rise	2511 Mar 31 18:19	4°♁40'07		2513 Sep 14 14:05	0°♁	
	2511 Apr 10 18:16	30°♁	evening rise	2513 Sep 21 17:06	8°♁50'11	
direct	2511 Apr 18 01:08	28°♁55'06		2513 Oct 08 18:20	0°♁	
	2511 Apr 25 14:29	0°♁	desc. node	2513 Oct 28 07:23	24°♁15'26	
greatest brilliancy	2511 Apr 27 09:00	0°♁32'28 -4.8m		2513 Nov 01 22:26	0°♁	
desc. node	2511 May 13 12:01	9°♁13'18		2513 Nov 26 03:10	0°♁	
morning max el	2511 Jun 06 05:23	29°♁27'55 45°54'52		2513 Dec 20 09:40	0°♁	
	2511 Jun 06 18:42	0°♁		2514 Jan 13 21:10	0°♁	
	2511 Jul 05 16:25	0°♁		2514 Feb 07 20:50	0°♁	
	2511 Aug 01 09:31	0°♁	asc. node	2514 Feb 18 10:31	12°♁21'32	
	2511 Aug 27 01:20	0°♁		2514 Mar 05 23:49	0°♁	
asc. node	2511 Sep 03 15:34	9°♁03'03	evening max el	2514 Mar 27 17:17	22°♁55'22 46°11'34	
	2511 Sep 21 00:18	0°♁		2514 Apr 04 01:56	0°♁	
	2511 Oct 15 11:09	0°♁	greatest brilliancy	2514 May 05 07:55	22°♁05'49 -4.8m	
	2511 Nov 08 14:03	0°♁	retrograde	2514 May 16 05:34	24°♁16'21	
morning set	2511 Dec 01 09:00	28°♁33'37	evening set	2514 May 31 10:18	19°♁47'33	
	2511 Dec 02 12:31	0°♁	inferior conj	2514 Jun 06 15:59	16°♁01'41 0°47'29	
desc. node	2511 Dec 24 05:04	27°♁16'21	minimum elong	2514 Jun 06 17:44	15°♁58'56 0°46'58	
	2511 Dec 26 09:05	0°♁	min. Earth dist.	2514 Jun 06 14:17	16°♁04'21 0.28785 AU	
			desc. node	2514 Jun 09 23:59	13°♁57'18	
superior conj	2512 Jan 11 12:06	20°♁17'30 -0°42'05	morning rise	2514 Jun 13 01:24	12°♁10'49	
minimum elong	2512 Jan 11 02:01	19°♁45'45 0°41'38	direct	2514 Jun 28 03:57	7°♁47'38	
max. Earth dist.	2512 Jan 12 15:20	21°♁43'11 1.71089 AU	greatest brilliancy	2514 Jul 08 08:09	9°♁38'52 -4.7m	
	2512 Jan 19 05:17	0°♁		2514 Aug 07 18:59	0°♁	
	2512 Feb 12 02:19	0°♁	morning max el	2514 Aug 15 20:20	7°♁25'46 45°45'30	
evening rise	2512 Feb 21 18:07	12°♁06'22		2514 Sep 06 23:00	0°♁	
	2512 Mar 07 01:47	0°♁	asc. node	2514 Oct 01 03:20	27°♁00'12	
	2512 Mar 31 05:39	0°♁		2514 Oct 03 17:37	0°♁	
asc. node	2512 Apr 15 08:20	18°♁35'59		2514 Oct 29 01:48	0°♁	
	2512 Apr 24 15:59	0°♁		2514 Nov 22 15:35	0°♁	
	2512 May 19 10:59	0°♁		2514 Dec 16 19:41	0°♁	
	2512 Jun 13 18:00	0°♁		2515 Jan 09 19:20	0°♁	
	2512 Jul 09 20:25	0°♁	desc. node	2515 Jan 20 16:55	13°♁40'00	
desc. node	2512 Aug 04 21:46	28°♁17'41		2515 Feb 02 17:29	0°♁	
	2512 Aug 06 13:20	0°♁	morning set	2515 Feb 16 07:32	17°♁02'08	
evening max el	2512 Aug 19 08:11	12°♁44'27 45°50'34		2515 Feb 26 15:54	0°♁	
	2512 Sep 08 05:57	0°♁		2515 Mar 22 15:58	0°♁	
greatest brilliancy	2512 Sep 28 04:47	11°♁15'25 -4.8m				
retrograde	2512 Oct 07 07:12	12°♁45'44	superior conj	2515 Mar 28 18:28	7°♁36'29 -1°22'37	
evening set	2512 Oct 23 17:51	7°♁38'27	minimum elong	2515 Mar 29 00:34	7°♁55'28 1°22'31	
inferior conj	2512 Oct 28 03:53	4°♁59'43 -6°30'57	max. Earth dist.	2515 Apr 01 20:11	12°♁40'32 1.72184 AU	
minimum elong	2512 Oct 28 14:20	4°♁43'41 6°28'45		2515 Apr 15 18:54	0°♁	
min. Earth dist.	2512 Oct 29 02:05	4°♁25'41 0.27384 AU	evening rise	2515 May 06 18:45	25°♁57'24	
morning rise	2512 Nov 02 10:20	1°♁51'16		2515 May 10 01:29	0°♁	
	2512 Nov 06 00:30	30°♁	asc. node	2515 May 13 20:13	4°♁39'19	
direct	2512 Nov 18 02:27	27°♁04'39		2515 Jun 03 11:57	0°♁	
asc. node	2512 Nov 26 00:54	28°♁17'13		2515 Jun 28 02:33	0°♁	
greatest brilliancy	2512 Nov 29 04:11	29°♁22'40 -4.9m		2515 Jul 22 22:23	0°♁	
	2512 Nov 30 15:46	0°♁		2515 Aug 17 02:02	0°♁	
	2513 Jan 07 08:46	0°♁	desc. node	2515 Sep 02 09:33	19°♁09'12	
morning max el	2513 Jan 07 19:53	0°♁28'17 46°56'35		2515 Sep 11 18:08	0°♁	

	2515 Oct 08 08:25	0°♊			2518 Apr 30 11:33	0°♋	
evening max el	2515 Nov 01 09:55	25°♊19'42	46°56'33	morning set	2518 May 01 04:04	0°♋50'57	
	2515 Nov 06 04:35	0°♋			2518 May 24 19:41	0°♌	
greatest brilliancy	2515 Dec 11 22:27	26°♋07'28	-4.9m				
retrograde	2515 Dec 21 20:50	28°♋00'23		superior conj	2518 Jun 07 14:31	16°♌57'27	-0°06'32
asc. node	2515 Dec 24 12:51	27°♋51'35		minimum elong	2518 Jun 07 15:54	17°♌01'42	0°06'28
evening set	2516 Jan 05 12:03	23°♋45'13		behind sun begin	2518 Jun 06 18:46	15°♌56'42	
inferior conj	2516 Jan 11 10:38	20°♋15'53	4°27'48	behind sun end	2518 Jun 08 13:03	18°♌06'43	
minimum elong	2516 Jan 11 01:34	20°♋29'44	4°25'14	max. Earth dist.	2518 Jun 08 11:30	18°♌01'58	1.73461 AU
min. Earth dist.	2516 Jan 10 21:35	20°♋35'49	0.26542 AU	asc. node	2518 Jun 10 08:08	20°♌19'12	
morning rise	2516 Jan 16 15:16	17°♋11'18			2518 Jun 18 05:07	0°♍	
direct	2516 Jan 31 18:49	12°♋37'37			2518 Jul 12 15:08	0°♎	
greatest brilliancy	2516 Feb 10 08:49	14°♋21'58	-4.9m	evening rise	2518 Jul 13 23:18	1°♎38'49	
	2516 Mar 05 20:14	0°♏			2518 Aug 06 01:32	0°♏	
morning max el	2516 Mar 21 21:55	14°♏55'00	46°39'23		2518 Aug 30 13:01	0°♐	
	2516 Apr 05 12:01	0°♐			2518 Sep 24 02:53	0°♑	
desc. node	2516 Apr 14 02:22	9°♐18'43		desc. node	2518 Sep 29 21:30	7°♑01'27	
	2516 May 02 13:34	0°♑			2518 Oct 18 20:30	0°♒	
	2516 May 28 11:52	0°♒			2518 Nov 12 20:06	0°♓	
	2516 Jun 22 21:30	0°♌			2518 Dec 08 07:47	0°♏	
	2516 Jul 17 22:52	0°♍			2519 Jan 04 02:16	0°♐	
asc. node	2516 Aug 05 05:42	22°♍07'51		evening max el	2519 Jan 12 21:45	9°♐13'34	47°12'23
	2516 Aug 11 16:49	0°♎		asc. node	2519 Jan 21 00:45	17°♐15'47	
	2516 Sep 05 03:44	0°♏			2519 Feb 04 13:28	0°♑	
morning set	2516 Sep 17 03:51	14°♏50'30		greatest brilliancy	2519 Feb 22 07:46	10°♑41'38	-4.9m
	2516 Sep 29 08:47	0°♐		retrograde	2519 Mar 04 18:12	12°♑45'14	
max. Earth dist.	2516 Oct 21 21:00	28°♐04'37	1.71866 AU	evening set	2519 Mar 22 15:25	6°♑31'51	
	2516 Oct 23 09:55	0°♑		inferior conj	2519 Mar 25 17:29	4°♑36'27	8°33'48
				minimum elong	2519 Mar 25 22:26	4°♑28'39	8°33'26
superior conj	2516 Oct 24 14:29	1°♑29'20	1°05'31	min. Earth dist.	2519 Mar 25 07:19	4°♑52'25	0.27913 AU
minimum elong	2516 Oct 25 00:31	2°♑00'42	1°05'12	morning rise	2519 Mar 29 05:43	2°♑26'20	
	2516 Nov 16 08:58	0°♒			2519 Apr 02 15:29	30°♒♐	
desc. node	2516 Nov 24 19:20	10°♒34'16		direct	2519 Apr 15 15:48	26°♒37'30	
evening rise	2516 Dec 03 10:12	21°♒22'49		greatest brilliancy	2519 Apr 24 21:42	28°♒13'19	-4.8m
	2516 Dec 10 07:11	0°♓			2519 Apr 29 09:02	0°♑	
	2517 Jan 03 05:32	0°♏		desc. node	2519 May 12 14:11	8°♑00'46	
	2517 Jan 27 05:32	0°♐		morning max el	2519 Jun 03 20:07	27°♑12'53	45°55'48
	2517 Feb 20 09:53	0°♑			2519 Jun 06 16:52	0°♒	
	2517 Mar 16 22:49	0°♒			2519 Jul 05 08:11	0°♌	
asc. node	2517 Mar 17 22:24	1°♒11'18			2519 Jul 31 22:57	0°♍	
	2517 Apr 11 02:28	0°♌			2519 Aug 26 13:37	0°♎	
	2517 May 07 08:03	0°♍		asc. node	2519 Sep 02 17:32	8°♎32'50	
	2517 Jun 04 22:25	0°♎			2519 Sep 20 11:58	0°♏	
evening max el	2517 Jun 06 06:32	1°♎17'33	45°26'21		2519 Oct 14 22:30	0°♐	
desc. node	2517 Jul 07 11:58	25°♎56'42			2519 Nov 08 01:14	0°♑	
greatest brilliancy	2517 Jul 14 08:54	29°♎03'24	-4.7m	morning set	2519 Nov 28 21:01	26°♑05'38	
	2517 Jul 17 08:39	0°♏			2519 Dec 01 23:40	0°♒	
retrograde	2517 Jul 24 22:05	1°♏02'58		desc. node	2519 Dec 23 07:07	26°♒47'39	
	2517 Aug 01 04:43	30°♏♎			2519 Dec 25 20:15	0°♓	
evening set	2517 Aug 10 16:52	25°♎42'44					
inferior conj	2517 Aug 15 08:31	22°♎52'59	-7°32'07	superior conj	2520 Jan 08 21:50	17°♓42'01	-0°38'31
minimum elong	2517 Aug 14 23:56	23°♎06'21	7°30'53	minimum elong	2520 Jan 08 12:24	17°♓12'20	0°38'05
min. Earth dist.	2517 Aug 15 10:47	22°♎49'27	0.28956 AU	max. Earth dist.	2520 Jan 09 19:06	18°♓48'54	1.71081 AU
morning rise	2517 Aug 19 06:54	20°♎28'18			2520 Jan 18 16:27	0°♏	
direct	2517 Sep 05 23:11	14°♎35'57			2520 Feb 11 13:30	0°♐	
greatest brilliancy	2517 Sep 16 15:52	16°♎40'51	-4.8m	evening rise	2520 Feb 19 04:38	9°♐34'00	
	2517 Oct 08 03:24	0°♏			2520 Mar 06 12:58	0°♑	
morning max el	2517 Oct 25 17:57	16°♏02'42	46°20'16		2520 Mar 30 16:55	0°♒	
asc. node	2517 Oct 28 15:12	18°♏56'09		asc. node	2520 Apr 14 10:26	18°♒07'30	
	2517 Nov 08 05:13	0°♐			2520 Apr 24 03:30	0°♌	
	2517 Dec 04 19:43	0°♑			2520 May 18 22:59	0°♍	
	2517 Dec 29 23:20	0°♒			2520 Jun 13 06:58	0°♎	
	2518 Jan 23 12:19	0°♓			2520 Jul 09 11:17	0°♏	
	2518 Feb 16 19:13	0°♏		desc. node	2520 Aug 03 23:42	27°♏33'31	
desc. node	2518 Feb 17 04:43	0°♏29'23			2520 Aug 06 08:52	0°♐	
	2518 Mar 13 00:07	0°♐		evening max el	2520 Aug 16 21:14	10°♐24'29	45°48'29
	2518 Apr 06 05:09	0°♑			2520 Sep 09 00:05	0°♑	

greatest brilliancy	2520 Sep 25 18:22	8° \mathbb{M} 54'51	-4.8m	superior conj	2523 Mar 26 07:21	5° Υ 12'30	-1°23'36
retrograde	2520 Oct 04 19:31	10° \mathbb{M} 24'23		minimum elong	2523 Mar 26 12:40	5° Υ 29'04	1°23'33
evening set	2520 Oct 21 10:20	5° \mathbb{M} 12'16		max. Earth dist.	2523 Mar 30 06:24	10° Υ 08'31	1.72129 AU
inferior conj	2520 Oct 25 17:26	2° \mathbb{M} 37'48	-6°45'35		2523 Apr 15 05:59	0° \mathcal{B}	
minimum elong	2520 Oct 26 03:46	2° \mathbb{M} 21'56	6°43'31	evening rise	2523 May 04 10:04	23° \mathcal{B} 42'35	
min. Earth dist.	2520 Oct 26 16:22	2° \mathbb{M} 02'36	0.27453 AU		2523 May 09 12:33	0° \mathbb{I}	
	2520 Oct 30 02:06	30° \mathbb{R} 2		asc. node	2523 May 12 22:21	4° \mathbb{I} 11'46	
morning rise	2520 Oct 30 20:39	29° \mathcal{A} 33'29			2523 Jun 02 23:06	0° \mathcal{E}	
direct	2520 Nov 15 16:05	24° \mathcal{A} 41'28			2523 Jun 27 13:58	0° \mathcal{O}	
asc. node	2520 Nov 25 03:00	26° \mathcal{A} 22'52			2523 Jul 22 10:19	0° \mathbb{M}	
greatest brilliancy	2520 Nov 26 19:32	27° \mathcal{A} 00'29	-4.9m		2523 Aug 16 14:51	0° \mathcal{A}	
	2520 Dec 02 23:34	0° \mathbb{M}		desc. node	2523 Sep 01 11:34	18° \mathcal{A} 35'18	
morning max el	2521 Jan 05 08:54	28° \mathbb{M} 01'12	46°56'09		2523 Sep 11 08:32	0° \mathbb{M}	
	2521 Jan 07 07:15	0° \mathcal{A}			2523 Oct 08 01:59	0° \mathcal{A}	
	2521 Feb 03 16:23	0° \mathcal{B}		evening max el	2523 Oct 29 23:48	22° \mathcal{A} 56'15	46°54'33
	2521 Mar 01 08:46	0° \approx			2523 Nov 06 07:12	0° \mathcal{B}	
desc. node	2521 Mar 16 16:34	18° \approx 18'29		greatest brilliancy	2523 Dec 09 11:01	23° \mathcal{B} 37'19	-4.9m
	2521 Mar 26 09:46	0° \mathcal{H}		retrograde	2523 Dec 19 09:43	25° \mathcal{B} 30'17	
	2521 Apr 20 04:19	0° Υ		asc. node	2523 Dec 23 14:53	25° \mathcal{B} 08'12	
	2521 May 14 20:18	0° \mathcal{B}		evening set	2524 Jan 02 22:19	21° \mathcal{B} 17'50	
	2521 Jun 08 11:08	0° \mathbb{I}		inferior conj	2524 Jan 08 22:47	17° \mathcal{B} 46'16	4°06'04
	2521 Jul 03 00:32	0° \mathcal{E}		minimum elong	2524 Jan 08 14:16	17° \mathcal{B} 59'15	4°03'36
asc. node	2521 Jul 07 19:54	5° \mathcal{E} 53'12		min. Earth dist.	2524 Jan 08 10:37	18° \mathcal{B} 04'48	0.26520 AU
morning set	2521 Jul 08 16:31	6° \mathcal{E} 56'22		morning rise	2524 Jan 14 06:24	14° \mathcal{B} 38'02	
	2521 Jul 27 11:29	0° \mathcal{O}		direct	2524 Jan 29 07:19	10° \mathcal{B} 08'10	
max. Earth dist.	2521 Aug 11 07:24	18° \mathcal{O} 16'02	1.73256 AU	greatest brilliancy	2524 Feb 07 22:00	11° \mathcal{B} 53'42	-4.9m
					2524 Mar 06 04:50	0° \approx	
superior conj	2521 Aug 14 02:24	21° \mathcal{O} 42'41	1°13'32	morning max el	2524 Mar 19 12:15	12° \approx 33'10	46°40'50
minimum elong	2521 Aug 13 18:40	21° \mathcal{O} 18'50	1°13'20		2524 Apr 05 06:47	0° \mathcal{H}	
	2521 Aug 20 19:30	0° \mathbb{M}		desc. node	2524 Apr 13 04:34	8° \mathcal{H} 37'29	
	2521 Sep 14 01:07	0° \mathcal{A}			2524 May 02 04:30	0° Υ	
evening rise	2521 Sep 19 09:37	6° \mathcal{A} 38'15			2524 May 28 01:01	0° \mathcal{B}	
	2521 Oct 08 05:34	0° \mathbb{M}			2524 Jun 22 09:38	0° \mathbb{I}	
desc. node	2521 Oct 27 09:30	23° \mathbb{M} 46'26			2524 Jul 17 10:23	0° \mathcal{E}	
	2521 Nov 01 09:58	0° \mathcal{A}		asc. node	2524 Aug 04 07:43	21° \mathcal{E} 39'47	
	2521 Nov 25 15:01	0° \mathcal{B}			2524 Aug 11 03:58	0° \mathcal{O}	
	2521 Dec 19 21:57	0° \approx			2524 Sep 04 14:42	0° \mathbb{M}	
	2522 Jan 13 10:08	0° \mathcal{H}		morning set	2524 Sep 14 20:43	12° \mathbb{M} 40'14	
	2522 Feb 07 11:02	0° Υ			2524 Sep 28 19:43	0° \mathcal{A}	
asc. node	2522 Feb 17 12:28	11° Υ 43'50		max. Earth dist.	2524 Oct 19 10:30	25° \mathcal{A} 42'32	1.71915 AU
	2522 Mar 05 16:45	0° \mathcal{B}					
evening max el	2522 Mar 25 07:34	20° \mathcal{B} 37'21	46°13'59	superior conj	2524 Oct 22 05:06	29° \mathcal{A} 10'36	1°07'43
	2522 Apr 04 03:58	0° \mathbb{I}		minimum elong	2524 Oct 22 14:53	29° \mathcal{A} 41'10	1°07'25
greatest brilliancy	2522 May 03 00:53	19° \mathbb{I} 55'35	-4.8m		2524 Oct 22 20:54	0° \mathbb{M}	
retrograde	2522 May 13 22:01	22° \mathbb{I} 06'13			2524 Nov 15 20:04	0° \mathcal{A}	
evening set	2522 May 29 03:49	17° \mathbb{I} 35'23		desc. node	2524 Nov 23 21:24	10° \mathcal{A} 05'43	
inferior conj	2522 Jun 04 08:20	13° \mathbb{I} 51'31	1°07'30	evening rise	2524 Nov 30 21:44	18° \mathcal{A} 53'20	
minimum elong	2522 Jun 04 10:48	13° \mathbb{I} 47'37	1°06'45		2524 Dec 09 18:26	0° \mathcal{B}	
min. Earth dist.	2522 Jun 04 07:04	13° \mathbb{I} 53'29	0.28765 AU		2525 Jan 02 16:58	0° \approx	
desc. node	2522 Jun 09 02:00	10° \mathbb{I} 57'01			2525 Jan 26 17:09	0° \mathcal{H}	
morning rise	2522 Jun 10 17:57	10° \mathbb{I} 00'24			2525 Feb 19 21:47	0° Υ	
direct	2522 Jun 25 19:17	5° \mathbb{I} 37'32			2525 Mar 16 11:12	0° \mathcal{B}	
greatest brilliancy	2522 Jul 06 00:21	7° \mathbb{I} 29'21	-4.7m	asc. node	2525 Mar 17 00:33	0° \mathcal{B} 40'18	
	2522 Aug 07 20:49	0° \mathcal{E}			2525 Apr 10 15:52	0° \mathbb{I}	
morning max el	2522 Aug 13 12:11	5° \mathcal{E} 15'18	45°45'02		2525 May 06 23:42	0° \mathcal{E}	
	2522 Sep 06 15:34	0° \mathcal{O}		evening max el	2525 Jun 03 23:20	29° \mathcal{E} 08'55	45°26'55
asc. node	2522 Sep 30 05:30	26° \mathcal{O} 26'04			2525 Jun 04 20:39	0° \mathcal{O}	
	2522 Oct 03 07:26	0° \mathbb{M}		desc. node	2525 Jul 06 13:58	24° \mathcal{O} 31'28	
	2522 Oct 28 14:26	0° \mathcal{A}		greatest brilliancy	2525 Jul 11 23:40	26° \mathcal{O} 52'44	-4.7m
	2522 Nov 22 03:38	0° \mathbb{M}		retrograde	2525 Jul 22 14:06	28° \mathcal{O} 53'04	
	2522 Dec 16 07:25	0° \mathcal{A}		evening set	2525 Aug 08 05:47	23° \mathcal{O} 37'30	
	2523 Jan 09 06:51	0° \mathcal{B}		inferior conj	2525 Aug 13 00:38	20° \mathcal{O} 42'46	-7°21'54
desc. node	2523 Jan 19 18:53	13° \mathcal{B} 10'19		minimum elong	2525 Aug 12 15:42	20° \mathcal{O} 56'41	7°20'33
	2523 Feb 02 04:49	0° \approx		min. Earth dist.	2525 Aug 13 01:55	20° \mathcal{O} 40'45	0.28969 AU
morning set	2523 Feb 13 17:28	14° \approx 27'27		morning rise	2525 Aug 17 01:32	18° \mathcal{O} 14'10	
	2523 Feb 26 03:06	0° \mathcal{H}		direct	2525 Sep 03 15:59	12° \mathcal{O} 25'51	
	2523 Mar 22 03:05	0° Υ		greatest brilliancy	2525 Sep 14 06:42	14° \mathcal{O} 28'54	-4.8m




































































































































	2525 Oct 08 11:06	0°♍			2528 Mar 05 23:58	0°♍	
morning max el	2525 Oct 23 09:11	13°♍47'31	46°18'36		2528 Mar 30 04:03	0°♍	
asc. node	2525 Oct 27 17:16	18°♍09'09		asc. node	2528 Apr 13 12:30	17°♍39'20	
	2525 Nov 07 23:04	0°♌			2528 Apr 23 14:53	0°♌	
	2525 Dec 04 10:11	0°♌			2528 May 18 10:52	0°♌	
	2525 Dec 29 12:24	0°♌			2528 Jun 12 19:47	0°♌	
	2526 Jan 23 00:38	0°♌			2528 Jul 09 02:05	0°♌	
desc. node	2526 Feb 16 06:46	29°♌59'00		desc. node	2528 Aug 03 01:45	26°♌49'56	
	2526 Feb 16 07:05	0°♌			2528 Aug 06 04:38	0°♌	
	2526 Mar 12 11:37	0°♌		evening max el	2528 Aug 14 10:00	8°♌04'55	45°46'39
	2526 Apr 05 16:22	0°♌			2528 Sep 09 23:48	0°♌	
morning set	2526 Apr 28 19:40	28°♌37'05		greatest brilliancy	2528 Sep 23 07:37	6°♌35'24	-4.8m
	2526 Apr 29 22:32	0°♌		retrograde	2528 Oct 02 08:17	8°♌04'58	
	2526 May 24 06:30	0°♌		evening set	2528 Oct 19 02:57	2°♌47'37	
				inferior conj	2528 Oct 23 07:09	0°♌17'31	-6°59'19
superior conj	2526 Jun 05 07:41	14°♌49'29	-0°09'47	minimum elong	2528 Oct 23 17:19	0°♌01'55	6°57'23
minimum elong	2526 Jun 05 09:46	14°♌55'52	0°09'41		2528 Oct 23 18:34	30°♌	
behind sun begin	2526 Jun 04 15:20	13°♌59'13		min. Earth dist.	2528 Oct 24 06:39	29°♌41'28	0.27522 AU
behind sun end	2526 Jun 06 04:11	15°♌52'31		morning rise	2528 Oct 28 07:06	27°♌17'45	
max. Earth dist.	2526 Jun 06 09:59	16°♌10'23	1.73436 AU	direct	2528 Nov 13 06:01	22°♌19'47	
asc. node	2526 Jun 09 10:05	19°♌52'02		asc. node	2528 Nov 24 04:57	24°♌34'09	
	2526 Jun 17 15:53	0°♌		greatest brilliancy	2528 Nov 24 11:10	24°♌40'17	-4.9m
evening rise	2526 Jul 11 18:05	29°♌35'49			2528 Dec 04 10:58	0°♌	
	2526 Jul 12 01:57	0°♌		morning max el	2529 Jan 02 22:49	25°♌37'40	46°55'48
	2526 Aug 05 12:31	0°♌			2529 Jan 07 04:26	0°♌	
	2526 Aug 30 00:18	0°♌			2529 Feb 03 08:08	0°♌	
	2526 Sep 23 14:36	0°♌			2529 Feb 28 22:21	0°♌	
desc. node	2526 Sep 28 23:40	6°♌32'01		desc. node	2529 Mar 15 18:45	17°♌46'30	
	2526 Oct 18 08:55	0°♌			2529 Mar 25 22:11	0°♌	
	2526 Nov 12 09:37	0°♌			2529 Apr 19 16:02	0°♌	
	2526 Dec 07 23:13	0°♌			2529 May 14 07:34	0°♌	
	2527 Jan 03 22:08	0°♌			2529 Jun 07 22:04	0°♌	
evening max el	2527 Jan 10 12:34	6°♌52'13	47°13'06		2529 Jul 02 11:13	0°♌	
asc. node	2527 Jan 20 02:42	16°♌18'02		morning set	2529 Jul 06 10:25	4°♌51'29	
	2527 Feb 05 06:55	0°♌		asc. node	2529 Jul 06 21:56	5°♌26'47	
greatest brilliancy	2527 Feb 19 23:27	8°♌22'05	-4.9m		2529 Jul 26 22:03	0°♌	
retrograde	2527 Mar 02 08:47	10°♌24'34		max. Earth dist.	2529 Aug 09 04:28	16°♌20'26	1.73289 AU
evening set	2527 Mar 20 07:30	4°♌09'43					
inferior conj	2527 Mar 23 07:57	2°♌16'40	8°39'09	superior conj	2529 Aug 11 20:33	19°♌38'03	1°11'53
minimum elong	2527 Mar 23 12:08	2°♌10'04	8°38'54	minimum elong	2529 Aug 11 12:31	19°♌13'16	1°11'41
min. Earth dist.	2527 Mar 22 21:11	2°♌33'35	0.27867 AU		2529 Aug 20 06:03	0°♌	
morning rise	2527 Mar 26 17:01	0°♌11'09			2529 Sep 13 11:48	0°♌	
	2527 Mar 27 00:27	30°♌		evening rise	2529 Sep 17 02:18	4°♌28'01	
direct	2527 Apr 13 05:41	24°♌18'44			2529 Oct 07 16:29	0°♌	
greatest brilliancy	2527 Apr 22 10:49	25°♌53'39	-4.8m	desc. node	2529 Oct 26 11:31	23°♌18'13	
	2527 May 01 10:39	0°♌			2529 Oct 31 21:09	0°♌	
desc. node	2527 May 11 16:11	6°♌49'36			2529 Nov 25 02:32	0°♌	
morning max el	2527 Jun 01 09:49	24°♌55'04	45°57'00		2529 Dec 19 09:55	0°♌	
	2527 Jun 06 14:14	0°♌			2530 Jan 12 22:47	0°♌	
	2527 Jul 04 23:36	0°♌			2530 Feb 07 00:56	0°♌	
	2527 Jul 31 12:05	0°♌		asc. node	2530 Feb 16 14:39	11°♌07'51	
asc. node	2527 Aug 26 01:39	0°♌			2530 Mar 05 09:31	0°♌	
	2527 Sep 01 19:37	8°♌03'43		evening max el	2530 Mar 22 22:28	18°♌22'09	46°16'19
	2527 Sep 19 23:25	0°♌			2530 Apr 04 06:57	0°♌	
	2527 Oct 14 09:38	0°♌		greatest brilliancy	2530 Apr 30 17:11	17°♌45'32	-4.8m
	2527 Nov 07 12:12	0°♌		retrograde	2530 May 11 14:45	19°♌56'55	
morning set	2527 Nov 26 09:37	23°♌40'13		evening set	2530 May 26 21:26	15°♌23'47	
	2527 Dec 01 10:35	0°♌		inferior conj	2530 Jun 02 00:35	11°♌42'01	1°27'25
desc. node	2527 Dec 22 09:06	26°♌19'34		minimum elong	2530 Jun 02 03:46	11°♌37'00	1°26'28
	2527 Dec 25 07:09	0°♌		min. Earth dist.	2530 Jun 01 23:31	11°♌43'42	0.28748 AU
				morning rise	2530 Jun 08 10:18	7°♌51'03	
superior conj	2528 Jan 06 08:02	15°♌08'48	-0°34'54	desc. node	2530 Jun 08 04:00	7°♌59'45	
minimum elong	2528 Jan 05 23:19	14°♌41'25	0°34'30	direct	2530 Jun 23 11:05	3°♌28'04	
max. Earth dist.	2528 Jan 06 22:18	15°♌53'41	1.71079 AU	greatest brilliancy	2530 Jul 03 16:17	5°♌20'22	-4.7m
	2528 Jan 18 03:23	0°♌			2530 Aug 07 20:59	0°♌	
	2528 Feb 11 00:26	0°♌		morning max el	2530 Aug 11 04:49	3°♌07'45	45°44'38
evening rise	2528 Feb 16 15:15	7°♌02'30			2530 Sep 06 07:28	0°♌	






























































































































asc. node	2530 Sep 29 07:35	25°05'03"		evening max el	2533 Jun 01 15:19	26°05'08"	45°27'30"
	2530 Oct 02 20:43	0°00'			2533 Jun 04 19:26	0°00'	
	2530 Oct 28 02:35	0°00'		desc. node	2533 Jul 05 16:00	23°00'12"	
	2530 Nov 21 15:13	0°00'		greatest brilliancy	2533 Jul 09 14:54	24°00'43"20	-4.7m
	2530 Dec 15 18:42	0°00'		retrograde	2533 Jul 20 05:34	26°00'43"55	
	2531 Jan 08 17:56	0°00'		evening set	2533 Aug 05 18:43	21°00'32"58	
desc. node	2531 Jan 18 20:57	12°00'42"09		inferior conj	2533 Aug 10 16:43	18°00'33"21	-7°11'05"
	2531 Feb 01 15:46	0°00'		minimum elong	2533 Aug 10 07:30	18°00'47"47	7°09'36"
morning set	2531 Feb 11 03:36	11°00'54"34		min. Earth dist.	2533 Aug 10 17:23	18°00'32"19	0.28984 AU
	2531 Feb 25 13:55	0°00'		morning rise	2533 Aug 14 20:11	16°00'00"38	
	2531 Mar 21 13:48	0°00'		direct	2533 Sep 01 08:22	10°00'16"24	
				greatest brilliancy	2533 Sep 11 22:06	12°00'18"05	-4.8m
superior conj	2531 Mar 23 20:17	2°00'49"55	-1°24'27"		2533 Oct 08 16:22	0°00'	
minimum elong	2531 Mar 24 00:47	3°00'03"57	1°24'25"	morning max el	2533 Oct 20 23:29	11°00'30"25	46°16'56"
max. Earth dist.	2531 Mar 27 18:23	7°00'43"09	1.72074 AU	asc. node	2533 Oct 26 19:12	17°00'22"51	
	2531 Apr 14 16:38	0°00'			2533 Nov 07 16:24	0°00'	
evening rise	2531 May 02 01:27	21°00'29"11			2533 Dec 04 00:22	0°00'	
	2531 May 08 23:13	0°00'			2533 Dec 29 01:12	0°00'	
asc. node	2531 May 12 00:19	3°00'44"58			2534 Jan 22 12:42	0°00'	
	2531 Jun 02 09:53	0°00'		desc. node	2534 Feb 15 08:53	29°00'29"37	
	2531 Jun 27 01:03	0°00'			2534 Feb 15 18:41	0°00'	
	2531 Jul 21 21:56	0°00'			2534 Mar 11 22:54	0°00'	
	2531 Aug 16 03:24	0°00'			2534 Apr 05 03:24	0°00'	
desc. node	2531 Aug 31 13:43	18°00'02"39		morning set	2534 Apr 26 11:05	26°00'23"00	
	2531 Sep 10 22:43	0°00'			2534 Apr 29 09:21	0°00'	
	2531 Oct 07 19:29	0°00'			2534 May 23 17:11	0°00'	
evening max el	2531 Oct 27 14:18	20°00'35"49	46°52'32"				
	2531 Nov 06 10:51	0°00'		superior conj	2534 Jun 03 00:49	12°00'41"49	-0°13'01"
greatest brilliancy	2531 Dec 06 23:28	21°00'08"33	-4.9m	minimum elong	2534 Jun 03 03:35	12°00'50"19	0°12'54"
retrograde	2531 Dec 16 22:36	23°00'01"20		behind sun begin	2534 Jun 02 13:59	12°00'08"29	
asc. node	2531 Dec 22 16:54	22°00'00"03		behind sun end	2534 Jun 03 17:11	13°00'32"10	
evening set	2531 Dec 31 08:55	18°00'05"132		max. Earth dist.	2534 Jun 04 07:06	14°00'41"58	1.73406 AU
inferior conj	2532 Jan 06 10:55	15°00'17"47	3°43'53"	asc. node	2534 Jun 08 12:10	19°00'25"41	
minimum elong	2532 Jan 06 03:00	15°00'29"51	3°41'32"		2534 Jun 17 02:31	0°00'	
min. Earth dist.	2532 Jan 05 23:37	15°00'35"01	0.26501 AU	evening rise	2534 Jul 09 12:50	27°00'33"13	
morning rise	2532 Jan 11 21:22	12°00'05"59			2534 Jul 11 12:39	0°00'	
direct	2532 Jan 26 20:12	7°00'00"01			2534 Aug 04 23:23	0°00'	
greatest brilliancy	2532 Feb 05 11:03	9°00'02"6"11	-4.9m		2534 Aug 29 11:30	0°00'	
	2532 Mar 06 10:36	0°00'			2534 Sep 23 02:20	0°00'	
morning max el	2532 Mar 17 02:15	10°00'11"25	46°42'14"	desc. node	2534 Sep 28 01:37	6°00'01"56	
	2532 Apr 05 00:42	0°00'			2534 Oct 17 21:24	0°00'	
desc. node	2532 Apr 12 06:31	7°00'05"7"03			2534 Nov 11 23:16	0°00'	
	2532 May 01 18:52	0°00'			2534 Dec 07 14:52	0°00'	
	2532 May 27 13:41	0°00'			2535 Jan 03 18:35	0°00'	
	2532 Jun 21 21:21	0°00'		evening max el	2535 Jan 08 02:16	4°00'02"8"03	47°13'56"
	2532 Jul 16 21:31	0°00'		asc. node	2535 Jan 19 04:51	15°00'00"19"36	
asc. node	2532 Aug 03 09:49	21°00'00"13"02			2535 Feb 06 06:27	0°00'	
	2532 Aug 10 14:48	0°00'		greatest brilliancy	2535 Feb 17 15:13	6°00'02"36	-4.9m
	2532 Sep 04 01:23	0°00'		retrograde	2535 Feb 27 22:59	8°00'03"59	
morning set	2532 Sep 12 13:25	10°00'00"30"24		evening set	2535 Mar 17 23:12	1°00'48"01	
	2532 Sep 28 06:23	0°00'		inferior conj	2535 Mar 20 22:24	29°00'00"56"54	8°43'42"
max. Earth dist.	2532 Oct 16 21:51	23°00'00"14"42	1.71962 AU	minimum elong	2535 Mar 21 01:46	29°00'00"51"36	8°43'32"
				min. Earth dist.	2535 Mar 20 11:13	0°00'00"14"30	0.27821 AU
superior conj	2532 Oct 19 19:44	26°00'00"52"57	1°09'48"		2535 Mar 20 20:26	30°00'00"00"00	
minimum elong	2532 Oct 20 05:11	27°00'00"22"29	1°09'31"	morning rise	2535 Mar 24 04:32	27°00'00"00"55"41	
	2532 Oct 22 07:36	0°00'		direct	2535 Apr 10 19:06	21°00'00"00"00"59"43	
	2532 Nov 15 06:52	0°00'		greatest brilliancy	2535 Apr 20 00:29	23°00'00"00"00"34"30	-4.8m
desc. node	2532 Nov 22 23:21	9°00'00"00"37"49			2535 May 02 19:44	0°00'	
evening rise	2532 Nov 28 09:15	16°00'00"00"24"52		desc. node	2535 May 10 18:12	5°00'00"00"40"28	
	2532 Dec 09 05:22	0°00'		morning max el	2535 May 29 23:21	22°00'00"00"36"39	45°58'16"
	2533 Jan 02 04:05	0°00'			2535 Jun 06 10:52	0°00'	
	2533 Jan 26 04:30	0°00'			2535 Jul 04 14:48	0°00'	
	2533 Feb 19 09:26	0°00'			2535 Jul 31 01:09	0°00'	
	2533 Mar 15 23:22	0°00'			2535 Aug 25 13:38	0°00'	
asc. node	2533 Mar 16 02:34	0°00'00"09"40		asc. node	2535 Aug 31 21:42	7°00'00"00"34"39	
	2533 Apr 10 05:05	0°00'			2535 Sep 19 10:49	0°00'	
	2533 May 06 15:15	0°00'			2535 Oct 13 20:46	0°00'	

	2535 Nov 06 23:14	0°♌	retrograde	2538 May 09 07:41	17°♊46'00	
morning set	2535 Nov 23 22:04	21°♌14'00	evening set	2538 May 24 15:08	13°♊10'35	
	2535 Nov 30 21:37	0°♌	inferior conj	2538 May 30 16:43	9°♊30'52	1°47'18
desc. node	2535 Dec 21 11:13	25°♌51'28	minimum elong	2538 May 30 20:36	9°♊24'46	1°46'10
	2535 Dec 24 18:13	0°♌	min. Earth dist.	2538 May 30 15:28	9°♊32'50	0.28729 AU
			morning rise	2538 Jun 06 02:22	5°♊40'23	
superior conj	2536 Jan 03 17:51	12°♌33'58 -0°31'11	desc. node	2538 Jun 07 06:07	5°♊03'25	
minimum elong	2536 Jan 03 09:57	12°♌09'06 0°30'48	direct	2538 Jun 21 03:17	1°♊17'13	
max. Earth dist.	2536 Jan 04 00:51	12°♌56'00 1.71079 AU	greatest brilliancy	2538 Jul 01 07:28	3°♊09'15	-4.7m
	2536 Jan 17 14:26	0°♌		2538 Aug 07 20:31	0°♌	
	2536 Feb 10 11:30	0°♌	morning max el	2538 Aug 08 21:38	0°♌59'37	45°44'12
evening rise	2536 Feb 14 01:30	4°♌29'35		2538 Sep 05 23:30	0°♌	
	2536 Mar 05 11:04	0°♌	asc. node	2538 Sep 28 09:28	25°♌18'34	
	2536 Mar 29 15:18	0°♌		2538 Oct 02 10:16	0°♌	
asc. node	2536 Apr 12 14:27	17°♌10'27		2538 Oct 27 15:01	0°♌	
	2536 Apr 23 02:26	0°♌		2538 Nov 21 03:06	0°♌	
	2536 May 17 22:56	0°♌		2538 Dec 15 06:16	0°♌	
	2536 Jun 12 08:52	0°♌		2539 Jan 08 05:19	0°♌	
	2536 Jul 08 17:14	0°♌	desc. node	2539 Jan 17 23:03	12°♌13'10	
desc. node	2536 Aug 02 03:56	26°♌05'40		2539 Feb 01 03:02	0°♌	
	2536 Aug 06 01:12	0°♌	morning set	2539 Feb 08 13:37	9°♌20'12	
evening max el	2536 Aug 11 23:08	5°♌46'09 45°44'58		2539 Feb 25 01:06	0°♌	
	2536 Sep 11 09:02	0°♌				
greatest brilliancy	2536 Sep 20 20:04	4°♌15'08 -4.8m	superior conj	2539 Mar 21 08:43	0°♌24'21	-1°25'09
retrograde	2536 Sep 29 21:38	5°♌45'37	minimum elong	2539 Mar 21 12:20	0°♌35'38	1°25'07
evening set	2536 Oct 16 19:31	0°♌22'54		2539 Mar 21 00:55	0°♌	
	2536 Oct 17 11:17	30°♌	max. Earth dist.	2539 Mar 25 07:17	5°♌19'12	1.72022 AU
inferior conj	2536 Oct 20 20:53	27°♌56'58 -7°12'07		2539 Apr 14 03:41	0°♌	
minimum elong	2536 Oct 21 06:48	27°♌41'46 7°10'21	evening rise	2539 Apr 29 16:16	19°♌12'42	
min. Earth dist.	2536 Oct 21 20:27	27°♌20'52 0.27596 AU		2539 May 08 10:16	0°♌	
morning rise	2536 Oct 25 17:33	25°♌02'04	asc. node	2539 May 11 02:21	3°♌17'12	
direct	2536 Nov 10 20:28	19°♌57'54		2539 Jun 01 21:05	0°♌	
greatest brilliancy	2536 Nov 22 02:23	22°♌19'25 -4.9m		2539 Jun 26 12:33	0°♌	
asc. node	2536 Nov 23 07:03	22°♌49'18		2539 Jul 21 10:01	0°♌	
	2536 Dec 05 12:20	0°♌		2539 Aug 15 16:28	0°♌	
morning max el	2536 Dec 31 13:40	23°♌15'50 46°55'13	desc. node	2539 Aug 30 15:40	17°♌28'00	
	2537 Jan 07 01:13	0°♌		2539 Sep 10 13:29	0°♌	
	2537 Feb 02 24:00	0°♌		2539 Oct 07 13:50	0°♌	
	2537 Feb 28 12:09	0°♌	evening max el	2539 Oct 25 05:01	18°♌14'57	46°50'30
desc. node	2537 Mar 14 20:44	17°♌13'08		2539 Nov 06 16:45	0°♌	
	2537 Mar 25 10:51	0°♌	greatest brilliancy	2539 Dec 04 12:22	18°♌39'51	-4.9m
	2537 Apr 19 03:58	0°♌	retrograde	2539 Dec 14 11:15	20°♌31'45	
	2537 May 13 19:01	0°♌	asc. node	2539 Dec 21 18:59	19°♌25'25	
	2537 Jun 07 09:12	0°♌	evening set	2539 Dec 28 19:55	16°♌24'35	
	2537 Jul 01 22:09	0°♌	inferior conj	2540 Jan 03 23:11	12°♌48'55	3°21'23
morning set	2537 Jul 04 04:15	2°♌45'39	minimum elong	2540 Jan 03 15:56	12°♌59'58	3°19'10
asc. node	2537 Jul 06 00:02	4°♌59'47	min. Earth dist.	2540 Jan 03 12:56	13°♌04'34	0.26482 AU
	2537 Jul 26 08:53	0°♌	morning rise	2540 Jan 09 12:15	9°♌33'34	
max. Earth dist.	2537 Aug 07 02:14	14°♌26'10 1.73319 AU	direct	2540 Jan 24 09:01	5°♌11'36	
			greatest brilliancy	2540 Feb 03 00:20	6°♌58'14	-4.9m
superior conj	2537 Aug 09 14:45	17°♌32'46 1°10'09		2540 Mar 06 14:49	0°♌	
minimum elong	2537 Aug 09 06:29	17°♌07'14 1°09'55	morning max el	2540 Mar 14 15:18	7°♌46'12	46°43'25
	2537 Aug 19 16:53	0°♌		2540 Apr 04 18:36	0°♌	
	2537 Sep 12 22:44	0°♌	desc. node	2540 Apr 11 08:32	7°♌16'07	
evening rise	2537 Sep 14 19:14	2°♌17'49		2540 May 01 09:29	0°♌	
	2537 Oct 07 03:38	0°♌		2540 May 27 02:42	0°♌	
desc. node	2537 Oct 25 13:31	22°♌49'17		2540 Jun 21 09:26	0°♌	
	2537 Oct 31 08:35	0°♌		2540 Jul 16 09:02	0°♌	
	2537 Nov 24 14:21	0°♌	asc. node	2540 Aug 02 11:50	20°♌44'50	
	2537 Dec 18 22:14	0°♌		2540 Aug 10 01:59	0°♌	
	2538 Jan 12 11:52	0°♌		2540 Sep 03 12:26	0°♌	
	2538 Feb 06 15:24	0°♌	morning set	2540 Sep 10 06:05	8°♌19'23	
asc. node	2538 Feb 15 16:38	10°♌29'47		2540 Sep 27 17:24	0°♌	
	2538 Mar 05 03:07	0°♌	max. Earth dist.	2540 Oct 14 08:29	20°♌43'35	1.72011 AU
evening max el	2538 Mar 20 14:09	16°♌07'32 46°18'50				
	2538 Apr 04 12:21	0°♌	superior conj	2540 Oct 17 10:37	24°♌34'59	1°11'44
greatest brilliancy	2538 Apr 28 09:11	15°♌33'52 -4.8m	minimum elong	2540 Oct 17 19:43	25°♌03'23	1°11'30

	2540 Oct 21 18:41	0°♌			2543 May 03 19:24	0°♍
	2540 Nov 14 18:02	0°♊		desc. node	2543 May 09 20:20	4°♍33'27
desc. node	2540 Nov 22 01:30	9°♊09'27		morning max el	2543 May 27 13:20	20°♍19'13 45°59'35
evening rise	2540 Nov 25 21:03	13°♊56'12			2543 Jun 06 06:51	0°♋
	2540 Dec 08 16:40	0°♋			2543 Jul 04 05:52	0°♌
	2541 Jan 01 15:31	0°♎			2543 Jul 30 14:13	0°♍
	2541 Jan 25 16:07	0°♋			2543 Aug 25 01:41	0°♌
	2541 Feb 18 21:22	0°♍		asc. node	2543 Aug 30 23:39	7°♌04'48
asc. node	2541 Mar 15 04:32	29°♍37'52			2543 Sep 18 22:20	0°♎
	2541 Mar 15 11:52	0°♋			2543 Oct 13 07:59	0°♌
	2541 Apr 09 18:43	0°♌			2543 Nov 06 10:21	0°♌
	2541 May 06 07:29	0°♍		morning set	2543 Nov 21 10:44	18°♌48'21
evening max el	2541 May 30 06:36	24°♍46'28 45°28'08			2543 Nov 30 08:43	0°♊
	2541 Jun 04 19:48	0°♌		desc. node	2543 Dec 20 13:17	25°♊23'00
desc. node	2541 Jul 04 18:07	21°♌32'58			2543 Dec 24 05:20	0°♋
greatest brilliancy	2541 Jul 07 06:33	22°♌33'20 -4.7m				
retrograde	2541 Jul 17 20:59	24°♌34'08		superior conj	2544 Jan 01 03:43	9°♋59'02 -0°27'24
evening set	2541 Aug 03 07:48	19°♌27'31		minimum elong	2543 Dec 31 20:40	9°♋36'52 0°27'03
inferior conj	2541 Aug 08 08:58	16°♌23'21 -6°59'44		max. Earth dist.	2544 Jan 01 06:12	10°♋06'51 1.71086 AU
minimum elong	2541 Aug 07 23:29	16°♌38'11 6°58'06			2544 Jan 17 01:34	0°♎
min. Earth dist.	2541 Aug 08 09:16	16°♌22'52 0.28997 AU			2544 Feb 09 22:38	0°♋
morning rise	2541 Aug 12 15:01	13°♌46'32		evening rise	2544 Feb 11 11:52	1°♋56'42
direct	2541 Aug 30 00:23	8°♌06'15			2544 Mar 04 22:16	0°♍
greatest brilliancy	2541 Sep 09 14:10	10°♌07'21 -4.8m			2544 Mar 29 02:36	0°♋
	2541 Oct 08 20:09	0°♎		asc. node	2544 Apr 11 16:35	16°♋42'07
morning max el	2541 Oct 18 13:18	9°♎11'21 46°15'19			2544 Apr 22 13:58	0°♌
asc. node	2541 Oct 25 21:22	16°♎36'59			2544 May 17 10:59	0°♍
	2541 Nov 07 09:41	0°♌			2544 Jun 11 21:58	0°♌
	2541 Dec 03 14:41	0°♌			2544 Jul 08 08:34	0°♎
	2541 Dec 28 14:12	0°♊		desc. node	2544 Aug 01 05:51	25°♎20'05
	2542 Jan 22 01:00	0°♋			2544 Aug 05 22:29	0°♌
desc. node	2542 Feb 14 10:52	28°♋59'01		evening max el	2544 Aug 09 13:18	3°♌30'01 45°43'15
	2542 Feb 15 06:31	0°♎			2544 Sep 13 10:41	0°♌
	2542 Mar 11 10:23	0°♋		greatest brilliancy	2544 Sep 18 08:12	1°♌54'55 -4.8m
	2542 Apr 04 14:35	0°♍		retrograde	2544 Sep 27 11:35	3°♌26'33
morning set	2542 Apr 24 02:37	24°♍08'40			2544 Oct 10 18:24	30°♋♌
	2542 Apr 28 20:21	0°♋		evening set	2544 Oct 14 12:08	27°♌58'46
	2542 May 23 04:05	0°♌		inferior conj	2544 Oct 18 10:43	25°♌36'46 -7°24'08
				minimum elong	2544 Oct 18 20:19	25°♌22'05 7°22'33
superior conj	2542 May 31 18:03	10°♌33'45 -0°16'14		min. Earth dist.	2544 Oct 19 09:57	25°♌01'13 0.27668 AU
minimum elong	2542 May 31 21:29	10°♌44'20 0°16'04		morning rise	2544 Oct 23 04:01	22°♌46'51
max. Earth dist.	2542 Jun 02 02:33	12°♌13'43 1.73380 AU		direct	2544 Nov 08 11:26	17°♌36'40
asc. node	2542 Jun 07 14:17	18°♌58'47		greatest brilliancy	2544 Nov 19 17:01	19°♌58'17 -4.9m
	2542 Jun 16 13:24	0°♍		asc. node	2544 Nov 22 09:07	21°♌08'32
evening rise	2542 Jul 07 07:34	25°♍29'50			2544 Dec 06 06:53	0°♌
	2542 Jul 10 23:35	0°♌		morning max el	2544 Dec 29 05:00	20°♌55'39 46°54'30
	2542 Aug 04 10:30	0°♎			2545 Jan 06 21:16	0°♊
	2542 Aug 28 22:57	0°♌			2545 Feb 02 15:31	0°♋
	2542 Sep 22 14:18	0°♌			2545 Feb 28 01:44	0°♎
desc. node	2542 Sep 27 03:39	5°♌31'26		desc. node	2545 Mar 13 22:44	16°♎40'08
	2542 Oct 17 10:11	0°♊			2545 Mar 24 23:22	0°♋
	2542 Nov 11 13:15	0°♋			2545 Apr 18 15:48	0°♍
	2542 Dec 07 07:01	0°♎			2545 May 13 06:22	0°♋
	2543 Jan 03 15:58	0°♋			2545 Jun 06 20:12	0°♌
evening max el	2543 Jan 05 15:34	2°♋02'13 47°14'45			2545 Jul 01 08:55	0°♍
asc. node	2543 Jan 18 06:53	14°♋18'57		morning set	2545 Jul 01 22:28	0°♍41'31
	2543 Feb 07 15:34	0°♍		asc. node	2545 Jul 05 02:02	4°♍33'00
greatest brilliancy	2543 Feb 15 06:54	3°♍42'28 -4.9m			2545 Jul 25 19:32	0°♌
retrograde	2543 Feb 25 13:25	5°♍43'22		max. Earth dist.	2545 Aug 05 00:45	12°♌34'43 1.73350 AU
	2543 Mar 14 16:35	30°♋♋				
evening set	2543 Mar 15 14:38	29°♋26'36		superior conj	2545 Aug 07 09:14	15°♌28'49 1°08'20
min. Earth dist.	2543 Mar 18 01:20	27°♋55'19 0.27772 AU		minimum elong	2545 Aug 07 00:45	15°♌02'40 1°08'05
inferior conj	2543 Mar 18 12:57	27°♋37'04 8°47'22			2545 Aug 19 03:35	0°♎
minimum elong	2543 Mar 18 15:29	27°♋33'04 8°47'16			2545 Sep 12 09:35	0°♌
morning rise	2543 Mar 21 16:30	25°♋39'49		evening rise	2545 Sep 12 12:23	0°♌08'41
direct	2543 Apr 08 08:25	19°♋40'31			2545 Oct 06 14:42	0°♌
greatest brilliancy	2543 Apr 17 14:21	21°♋15'38 -4.8m		desc. node	2545 Oct 24 15:40	22°♌21'01

	2545 Oct 30 19:56	0°♊			2548 May 26 15:19	0°♋		
	2545 Nov 24 02:04	0°♌			2548 Jun 20 21:10	0°♍		
	2545 Dec 18 10:27	0°♎			2548 Jul 15 20:13	0°♏		
	2546 Jan 12 00:53	0°♐		asc. node	2548 Aug 01 13:52	20°♐17'40		
	2546 Feb 06 05:52	0°♑			2548 Aug 09 12:50	0°♒		
asc. node	2546 Feb 14 18:36	9°♑51'46			2548 Sep 02 23:07	0°♓		
	2546 Mar 04 20:57	0°♋		morning set	2548 Sep 07 23:07	6°♓10'42		
evening max el	2546 Mar 18 06:26	13°♋54'42 46°21'14			2548 Sep 27 04:03	0°♈		
	2546 Apr 04 19:46	0°♌		max. Earth dist.	2548 Oct 11 21:42	18°♈21'47 1.72064 AU		
greatest brilliancy	2546 Apr 26 01:47	13°♌23'22 -4.8m						
retrograde	2546 May 07 00:40	15°♌35'28		superior conj	2548 Oct 15 01:57	22°♈19'44 1°13'32		
evening set	2546 May 22 09:02	10°♌58'01		minimum elong	2548 Oct 15 10:38	22°♈46'50 1°13'19		
inferior conj	2546 May 28 08:52	7°♌20'21 2°07'08			2548 Oct 21 05:22	0°♉		
minimum elong	2546 May 28 13:26	7°♌13'11 2°05'48			2548 Nov 14 04:51	0°♊		
min. Earth dist.	2546 May 28 07:23	7°♌22'42 0.28704 AU		desc. node	2548 Nov 21 03:33	8°♊41'48		
morning rise	2546 Jun 03 18:15	3°♌30'29		evening rise	2548 Nov 23 09:07	11°♊29'33		
desc. node	2546 Jun 06 08:09	2°♌11'13			2548 Dec 08 03:40	0°♋		
	2546 Jun 12 04:21	30°♋♋			2549 Jan 01 02:43	0°♌		
direct	2546 Jun 18 19:39	29°♋07'18			2549 Jan 25 03:32	0°♍		
	2546 Jun 25 16:25	0°♌			2549 Feb 18 09:05	0°♎		
greatest brilliancy	2546 Jun 28 22:07	0°♌58'17 -4.7m		asc. node	2549 Mar 14 06:41	29°♎07'18		
morning max el	2546 Aug 06 13:59	28°♌51'18 45°43'51			2549 Mar 15 00:11	0°♋		
	2546 Aug 07 18:41	0°♏			2549 Apr 09 08:14	0°♌		
	2546 Sep 05 14:56	0°♍			2549 May 05 23:43	0°♎		
asc. node	2546 Sep 27 11:39	24°♍45'59		evening max el	2549 May 27 21:09	22°♏32'45 45°28'55		
	2546 Oct 01 23:26	0°♐			2549 Jun 04 21:04	0°♒		
	2546 Oct 27 03:11	0°♈		desc. node	2549 Jul 03 20:06	19°♒59'07		
	2546 Nov 20 14:45	0°♉		greatest brilliancy	2549 Jul 04 21:58	20°♒23'45 -4.7m		
	2546 Dec 14 17:38	0°♊		retrograde	2549 Jul 15 12:39	22°♒25'21		
	2547 Jan 07 16:30	0°♋		evening set	2549 Jul 31 20:53	17°♒22'38		
desc. node	2547 Jan 17 01:03	11°♋44'28		inferior conj	2549 Aug 06 01:08	14°♒14'13 -6°47'42		
	2547 Jan 31 14:05	0°♌		minimum elong	2549 Aug 05 15:28	14°♒29'20 6°45'57		
morning set	2547 Feb 05 23:27	6°♌45'56		min. Earth dist.	2549 Aug 06 01:12	14°♒14'07 0.29006 AU		
	2547 Feb 24 12:03	0°♍		morning rise	2549 Aug 10 09:53	11°♒33'23		
				direct	2549 Aug 27 16:03	5°♒56'53		
superior conj	2547 Mar 18 20:57	27°♍58'47 -1°25'42		greatest brilliancy	2549 Sep 07 06:29	7°♒58'05 -4.8m		
minimum elong	2547 Mar 18 23:37	28°♍07'07 1°25'41			2549 Oct 08 21:51	0°♓		
	2547 Mar 20 11:47	0°♎		morning max el	2549 Oct 16 03:36	6°♓54'52 46°13'56		
max. Earth dist.	2547 Mar 22 22:05	3°♎01'49 1.71970 AU		asc. node	2549 Oct 24 23:25	15°♓52'41		
	2547 Apr 13 14:31	0°♋			2549 Nov 07 02:09	0°♈		
evening rise	2547 Apr 27 06:57	16°♋56'24			2549 Dec 03 04:26	0°♉		
	2547 May 07 21:07	0°♌			2549 Dec 28 02:46	0°♊		
asc. node	2547 May 10 04:30	2°♌50'23			2550 Jan 21 12:55	0°♋		
	2547 Jun 01 08:03	0°♏		desc. node	2550 Feb 13 12:55	28°♋29'37		
	2547 Jun 25 23:48	0°♍			2550 Feb 14 18:02	0°♌		
	2547 Jul 20 21:49	0°♎			2550 Mar 10 21:36	0°♍		
	2547 Aug 15 05:14	0°♈			2550 Apr 04 01:32	0°♎		
desc. node	2547 Aug 29 17:44	16°♈54'34		morning set	2550 Apr 21 17:33	21°♎52'58		
	2547 Sep 10 04:03	0°♉			2550 Apr 28 07:06	0°♋		
	2547 Oct 07 08:15	0°♊			2550 May 22 14:43	0°♌		
evening max el	2547 Oct 22 18:56	15°♊53'03 46°48'09						
	2547 Nov 07 00:35	0°♋		superior conj	2550 May 29 10:52	8°♌25'13 -0°19'29		
greatest brilliancy	2547 Dec 02 01:50	16°♋12'19 -4.9m		minimum elong	2550 May 29 14:58	8°♌37'51 0°19'16		
retrograde	2547 Dec 11 23:17	18°♋02'31		max. Earth dist.	2550 May 30 20:51	10°♌09'47 1.73352 AU		
asc. node	2547 Dec 20 21:00	16°♋25'15		asc. node	2550 Jun 06 16:13	18°♌32'09		
evening set	2547 Dec 26 07:05	13°♋57'44			2550 Jun 16 00:00	0°♏		
inferior conj	2548 Jan 01 11:24	10°♋20'36 2°58'13		evening rise	2550 Jul 05 02:08	23°♏26'48		
minimum elong	2548 Jan 01 04:54	10°♋30'32 2°56'12			2550 Jul 10 10:16	0°♒		
min. Earth dist.	2548 Jan 01 02:38	10°♋33'59 0.26468 AU			2550 Aug 03 21:22	0°♓		
morning rise	2548 Jan 07 02:55	7°♋01'40			2550 Aug 28 10:09	0°♈		
direct	2548 Jan 21 21:16	2°♋43'32			2550 Sep 22 02:01	0°♉		
greatest brilliancy	2548 Jan 31 14:12	4°♋31'13 -4.9m		desc. node	2550 Sep 26 05:49	5°♌02'13		
	2548 Mar 06 17:08	0°♌			2550 Oct 16 22:40	0°♊		
morning max el	2548 Mar 12 03:21	5°♌18'58 46°44'38			2550 Nov 11 02:57	0°♋		
	2548 Apr 04 11:49	0°♍			2550 Dec 06 22:58	0°♌		
desc. node	2548 Apr 10 10:45	6°♍36'56		evening max el	2551 Jan 03 05:02	29°♌37'54 47°15'21		
	2548 Apr 30 23:37	0°♎			2551 Jan 03 13:42	0°♍		

asc. node	2551 Jan 17 08:51	13°  17'32			2553 Jun 30 19:38	0° 		
	2551 Feb 09 16:57	0° 		asc. node	2553 Jul 04 04:05	4°  06'27		
greatest brilliancy	2551 Feb 12 21:40	1°  21'28	-4.9m		2553 Jul 25 06:10	0° 		
retrograde	2551 Feb 23 03:59	3°  22'43		max. Earth dist.	2553 Aug 02 21:56	10°  39'20	1.73375 AU	
	2551 Mar 08 01:24	30°  18'18						
evening set	2551 Mar 13 05:20	27°  05'29		superior conj	2553 Aug 05 03:24	13°  24'02	1°06'24	
min. Earth dist.	2551 Mar 15 14:55	25°  36'09	0.27729 AU	minimum elong	2553 Aug 04 18:46	12°  25'25	1°06'08	
inferior conj	2551 Mar 16 03:14	25°  16'50	8°49'59		2553 Aug 18 14:15	0° 		
minimum elong	2551 Mar 16 04:56	25°  14'11	8°49'57	evening rise	2553 Sep 10 05:20	27°  59'04		
morning rise	2551 Mar 19 04:42	23°  23'02			2553 Sep 11 20:24	0° 		
direct	2551 Apr 05 21:47	17°  20'49			2553 Oct 06 01:45	0° 		
greatest brilliancy	2551 Apr 15 03:45	18°  56'10	-4.8m	desc. node	2553 Oct 23 17:39	21°  52'18		
	2551 May 04 12:51	0° 			2553 Oct 30 07:18	0° 		
desc. node	2551 May 08 22:21	3°  28'02			2553 Nov 23 13:48	0° 		
morning max el	2551 May 25 04:01	18°  03'37	46°00'56		2553 Dec 17 22:42	0° 		
	2551 Jun 06 02:08	0° 			2554 Jan 11 13:54	0° 		
	2551 Jul 03 20:34	0° 			2554 Feb 05 20:22	0° 		
	2551 Jul 30 03:00	0° 		asc. node	2554 Feb 13 20:49	9°  14'29		
	2551 Aug 24 13:29	0° 			2554 Mar 04 15:01	0° 		
asc. node	2551 Aug 30 01:46	6°  36'12		evening max el	2554 Mar 15 22:30	11°  41'38	46°23'33	
	2551 Sep 18 09:36	0° 			2554 Apr 05 05:41	0° 		
	2551 Oct 12 18:59	0° 		greatest brilliancy	2554 Apr 23 18:53	11°  13'47	-4.8m	
	2551 Nov 05 21:14	0° 		retrograde	2554 May 04 17:13	13°  25'01		
morning set	2551 Nov 18 23:53	16°  25'02		evening set	2554 May 20 03:08	8°  45'31		
	2551 Nov 29 19:33	0° 		inferior conj	2554 May 26 01:05	5°  10'03	2°26'44	
desc. node	2551 Dec 19 15:15	24°  55'11		minimum elong	2554 May 26 06:18	5°  01'51	2°25'13	
	2551 Dec 23 16:10	0° 		min. Earth dist.	2554 May 25 23:33	5°  12'28	0.28683 AU	
				morning rise	2554 Jun 01 09:57	1°  20'44		
superior conj	2551 Dec 29 13:59	7°  36'14	-0°23'35		2554 Jun 04 01:07	30°  18'18		
minimum elong	2551 Dec 29 07:51	7°  06'55	0°23'18	desc. node	2554 Jun 05 10:09	29°  22'45		
max. Earth dist.	2551 Dec 29 15:43	7°  31'42	1.71091 AU	direct	2554 Jun 16 12:01	26°  57'33		
	2552 Jan 16 12:24	0° 		greatest brilliancy	2554 Jun 26 12:58	28°  47'17	-4.7m	
evening rise	2552 Feb 08 22:32	29°  25'35			2554 Jun 29 15:05	0° 		
	2552 Feb 09 09:31	0° 		morning max el	2554 Aug 04 05:35	26°  40'52	45°43'25	
	2552 Mar 04 09:13	0° 			2554 Aug 07 16:08	0° 		
	2552 Mar 28 13:43	0° 			2554 Sep 05 06:16	0° 		
asc. node	2552 Apr 10 18:37	16°  13'55		asc. node	2554 Sep 26 13:43	24°  12'52		
	2552 Apr 22 01:24	0° 			2554 Oct 01 12:37	0° 		
	2552 May 16 22:59	0° 			2554 Oct 26 15:22	0° 		
	2552 Jun 11 11:05	0° 			2554 Nov 20 02:27	0° 		
	2552 Jul 08 00:03	0° 			2554 Dec 14 05:03	0° 		
desc. node	2552 Jul 31 07:57	24°  34'30		desc. node	2555 Jan 07 03:45	0° 		
	2552 Aug 05 20:29	0° 			2555 Jan 16 03:06	11°  35'43		
evening max el	2552 Aug 07 04:09	1°  15'57	45°41'38		2555 Jan 31 01:12	0° 		
greatest brilliancy	2552 Sep 15 20:17	29°  35'13	-4.8m	morning set	2555 Feb 03 09:19	4°  22'58		
	2552 Sep 17 05:20	0° 			2555 Feb 23 23:04	0° 		
retrograde	2552 Sep 25 01:25	1°  18'07'43						
	2552 Oct 02 14:07	30°  18'18		superior conj	2555 Mar 16 09:23	25°  33'42	-1°26'04	
evening set	2552 Oct 12 04:45	25°  35'12		minimum elong	2555 Mar 16 11:05	25°  39'03	1°26'05	
inferior conj	2552 Oct 16 00:32	23°  16'57	-7°35'27		2555 Mar 19 22:41	0° 		
minimum elong	2552 Oct 16 09:44	23°  02'50	7°34'01	max. Earth dist.	2555 Mar 20 13:11	0°  45'12	1.71911 AU	
min. Earth dist.	2552 Oct 16 23:12	22°  42'12	0.27736 AU		2555 Apr 13 01:21	0° 		
morning rise	2552 Oct 20 14:21	20°  31'58		evening rise	2555 Apr 24 21:47	14°  40'25		
direct	2552 Nov 06 02:35	15°  16'00			2555 May 07 07:59	0° 		
greatest brilliancy	2552 Nov 17 06:58	17°  36'44	-4.9m	asc. node	2555 May 09 06:27	2°  22'58		
asc. node	2552 Nov 21 11:06	19°  31'33			2555 May 31 19:04	0° 		
	2552 Dec 06 20:33	0° 			2555 Jun 25 11:11	0° 		
morning max el	2552 Dec 26 20:15	18°  35'50	46°53'53		2555 Jul 20 09:49	0° 		
	2553 Jan 06 16:31	0° 			2555 Aug 14 18:16	0° 		
	2553 Feb 02 06:36	0° 		desc. node	2555 Aug 28 19:52	16°  20'30		
	2553 Feb 27 14:59	0° 			2555 Sep 09 19:00	0° 		
desc. node	2553 Mar 13 00:54	16°  22'58			2555 Oct 07 03:24	0° 		
	2553 Mar 24 11:36	0° 		evening max el	2555 Oct 20 07:45	13°  27'56	46°45'51	
	2553 Apr 18 03:26	0° 			2555 Nov 07 11:31	0° 		
	2553 May 12 17:35	0° 		greatest brilliancy	2555 Nov 29 15:42	13°  34'37	-4.9m	
	2553 Jun 06 07:07	0° 		retrograde	2555 Dec 09 10:50	15°  32'48		
morning set	2553 Jun 29 16:25	28°  36'40		asc. node	2555 Dec 19 23:03	13°  31'44		

evening set	2555 Dec 23 18:25	11°  29'42		2558 Jun 15 10:54	0° 	
inferior conj	2555 Dec 29 23:34	7°  51'42 2°34'41	evening rise	2558 Jul 02 21:01	21°  23'59	
minimum elong	2555 Dec 29 17:51	8°  00'26 2°32'54		2558 Jul 09 21:12	0° 	
min. Earth dist.	2555 Dec 29 16:39	8°  02'17 0.26459 AU		2558 Aug 03 08:30	0° 	
morning rise	2556 Jan 04 17:22	4°  29'22		2558 Aug 27 21:39	0° 	
direct	2556 Jan 19 09:01	0°  31'428		2558 Sep 21 14:06	0° 	
greatest brilliancy	2556 Jan 29 04:38	2°  30'04 -4.9m	desc. node	2558 Sep 25 07:46	4°  13'14	
	2556 Mar 06 18:21	0° 		2558 Oct 16 11:37	0° 	
morning max el	2556 Mar 09 15:14	2°  50'29 46°46'03		2558 Nov 10 17:14	0° 	
	2556 Apr 04 04:52	0° 		2558 Dec 06 15:43	0° 	
desc. node	2556 Apr 09 12:40	5°  15'56'49	evening max el	2558 Dec 31 19:25	27°  14'34 47°15'59	
	2556 Apr 30 13:45	0° 		2559 Jan 03 12:54	0° 	
	2556 May 26 03:58	0° 	asc. node	2559 Jan 16 11:01	12°  13'34	
	2556 Jun 20 08:58	0° 	greatest brilliancy	2559 Feb 10 11:51	28°  15'8'13 -4.9m	
	2556 Jul 15 07:31	0° 		2559 Feb 13 15:34	0° 	
asc. node	2556 Jul 31 15:59	19°  50'19	retrograde	2559 Feb 20 19:03	1°  00'21	
	2556 Aug 08 23:52	0° 		2559 Feb 27 17:25	30°  15'15	
	2556 Sep 02 10:02	0° 	evening set	2559 Mar 10 19:27	24°  15'42	
morning set	2556 Sep 05 16:05	4°  10'01'02	min. Earth dist.	2559 Mar 13 04:00	23°  15'42 0.27682 AU	
	2556 Sep 26 14:57	0° 	inferior conj	2559 Mar 13 17:22	22°  15'49 8°51'44	
max. Earth dist.	2556 Oct 09 12:15	16°  03'22 1.72117 AU	minimum elong	2559 Mar 13 18:11	22°  15'32 8°51'45	
			morning rise	2559 Mar 16 17:05	21°  15'03'56	
superior conj	2556 Oct 12 17:12	20°  03'21 1°15'13	direct	2559 Apr 03 11:25	14°  15'59'28	
minimum elong	2556 Oct 13 01:24	20°  03'28'57 1°15'01	greatest brilliancy	2559 Apr 12 16:25	16°  15'34'28 -4.8m	
	2556 Oct 20 16:20	0° 		2559 May 05 02:27	0° 	
	2556 Nov 13 15:57	0° 	desc. node	2559 May 08 00:23	2°  23'11	
desc. node	2556 Nov 20 05:31	8°  13'06	morning max el	2559 May 22 19:27	15°  15'48'44 46°02'23	
evening rise	2556 Nov 20 21:07	9°  10'1'56		2559 Jun 05 21:16	0° 	
	2556 Dec 07 14:56	0° 		2559 Jul 03 11:25	0° 	
	2556 Dec 31 14:10	0° 		2559 Jul 29 15:59	0° 	
	2557 Jan 24 15:14	0° 		2559 Aug 24 01:30	0° 	
	2557 Feb 17 21:08	0° 	asc. node	2559 Aug 29 03:51	6°  06'45	
asc. node	2557 Mar 13 08:42	28°  15'35'23		2559 Sep 17 21:05	0° 	
	2557 Mar 14 12:51	0° 		2559 Oct 12 06:13	0° 	
	2557 Apr 08 22:07	0° 		2559 Nov 05 08:25	0° 	
	2557 May 05 16:28	0° 	morning set	2559 Nov 16 13:06	14°  15'01'01	
evening max el	2557 May 25 11:58	20°  19'20 45°29'56		2559 Nov 29 06:45	0° 	
	2557 Jun 04 23:56	0° 	desc. node	2559 Dec 18 17:24	24°  15'26'41	
greatest brilliancy	2557 Jul 02 12:56	18°  13'37 -4.7m		2559 Dec 23 03:23	0° 	
desc. node	2557 Jul 02 22:10	18°  12'1'59				
retrograde	2557 Jul 13 04:56	20°  16'49	superior conj	2559 Dec 26 23:58	4°  15'13 -0°19'42	
evening set	2557 Jul 29 10:15	15°  17'34	minimum elong	2559 Dec 26 18:48	4°  15'34'59 0°19'28	
inferior conj	2557 Aug 03 17:31	12°  05'05 -6°35'06	max. Earth dist.	2559 Dec 27 00:38	4°  15'53'19 1.71100 AU	
minimum elong	2557 Aug 03 07:43	12°  02'0'24 6°33'15		2560 Jan 15 23:39	0° 	
min. Earth dist.	2557 Aug 03 17:07	12°  05'43 0.29019 AU	evening rise	2560 Feb 06 08:41	26°  15'51'30	
morning rise	2557 Aug 08 04:59	9°  20'22		2560 Feb 08 20:48	0° 	
direct	2557 Aug 25 08:03	3°  04'7'23		2560 Mar 03 20:34	0° 	
greatest brilliancy	2557 Sep 04 23:03	5°  04'48'53 -4.8m		2560 Mar 28 01:13	0° 	
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morning max el	2557 Oct 13 19:04	4°  10'40'32 46°12'22		2560 Apr 21 13:11	0° 	
asc. node	2557 Oct 24 01:22	15°  10'07'43		2560 May 16 11:22	0° 	
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	2557 Dec 02 18:27	0° 		2560 Jul 07 16:03	0° 	
	2557 Dec 27 15:38	0° 	desc. node	2560 Jul 30 10:05	23°  15'47'48	
	2558 Jan 21 01:09	0° 	evening max el	2560 Aug 04 19:29	29°  15'02'40 45°40'09	
desc. node	2558 Feb 12 15:03	27°  15'59'29		2560 Aug 05 19:36	0° 	
	2558 Feb 14 05:51	0° 	greatest brilliancy	2560 Sep 13 09:02	27°  15'16'44 -4.8m	
	2558 Mar 10 09:05	0° 	retrograde	2560 Sep 22 15:08	28°  15'49'33	
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morning set	2558 Apr 19 08:24	19°  15'35'57	inferior conj	2560 Oct 13 14:44	20°  15'58'02 -7°45'39	
	2558 Apr 27 18:11	0° 	minimum elong	2560 Oct 13 23:29	20°  15'44'35 7°44'24	
	2558 May 22 01:40	0° 	min. Earth dist.	2560 Oct 14 12:51	20°  15'24'03 0.27805 AU	
			morning rise	2560 Oct 18 01:04	18°  15'17'45	
superior conj	2558 May 27 03:50	6°  16'07 -0°22'40	direct	2560 Nov 03 17:58	12°  15'56'21	
minimum elong	2558 May 27 08:36	6° 16'30'48 0°22'26	greatest brilliancy	2560 Nov 14 21:09	15° 15'15'44 -4.9m	
max. Earth dist.	2558 May 28 15:30	8° 16'05'53 1.73319 AU	asc. node	2560 Nov 20 13:12	17° 15'58'13	
asc. node	2558 Jun 05 18:20	18° 16'05'10		2560 Dec 07 06:52	0°	

morning max el	2560 Dec 24 10:58	16° \mathbb{M} 14'03	46°52'49		2563 Jul 19 21:56	0° \mathbb{M}	
	2561 Jan 06 11:33	0° \mathbb{A}			2563 Aug 14 07:27	0° \mathbb{A}	
	2561 Feb 01 21:51	0° \mathbb{Z}		desc. node	2563 Aug 27 21:48	15° \mathbb{A} 45'33	
	2561 Feb 27 04:32	0° \approx			2563 Sep 09 10:10	0° \mathbb{M}	
desc. node	2561 Mar 12 02:51	15° \approx 35'06			2563 Oct 06 23:01	0° \mathbb{A}	
	2561 Mar 24 00:12	0° \mathbb{H}		evening max el	2563 Oct 17 20:15	11° \mathbb{A} 02'32	46°43'43
	2561 Apr 17 15:22	0° \mathbb{Y}			2563 Nov 08 01:45	0° \mathbb{Z}	
	2561 May 12 05:04	0° \mathbb{B}		greatest brilliancy	2563 Nov 27 05:38	11° \mathbb{Z} 17'57	-4.9m
	2561 Jun 05 18:17	0° \mathbb{I}		retrograde	2563 Dec 06 22:42	13° \mathbb{Z} 04'37	
morning set	2561 Jun 27 10:20	26° \mathbb{I} 30'57		asc. node	2563 Dec 19 01:08	10° \mathbb{Z} 08'37	
	2561 Jun 30 06:36	0° \mathbb{G}		evening set	2563 Dec 21 06:10	9° \mathbb{Z} 02'24	
asc. node	2561 Jul 03 06:12	3° \mathbb{G} 39'23		inferior conj	2563 Dec 27 11:59	5° \mathbb{Z} 24'06	2°11'04
	2561 Jul 24 17:02	0° \mathbb{Q}		minimum elong	2563 Dec 27 07:04	5° \mathbb{Z} 31'36	2°09'30
max. Earth dist.	2561 Jul 31 17:39	8° \mathbb{Q} 38'48	1.73396 AU	min. Earth dist.	2563 Dec 27 06:51	5° \mathbb{Z} 31'55	0.26455 AU
				morning rise	2564 Jan 02 07:54	1° \mathbb{Z} 58'50	
superior conj	2561 Aug 02 21:46	11° \mathbb{Q} 19'19	1°04'24		2564 Jan 06 10:23	30° \mathbb{R} \mathbb{A}	
minimum elong	2561 Aug 02 13:02	10° \mathbb{Q} 52'24	1°04'07	direct	2564 Jan 16 20:50	27° \mathbb{A} 46'30	
	2561 Aug 18 01:08	0° \mathbb{M}		greatest brilliancy	2564 Jan 26 19:24	29° \mathbb{A} 38'27	-4.9m
evening rise	2561 Sep 07 22:41	25° \mathbb{M} 50'15			2564 Jan 27 18:21	0° \mathbb{Z}	
	2561 Sep 11 07:23	0° \mathbb{A}			2564 Mar 06 18:09	0° \approx	
	2561 Oct 05 12:56	0° \mathbb{M}		morning max el	2564 Mar 07 03:54	0° \approx 24'22	46°47'12
desc. node	2561 Oct 22 19:41	21° \mathbb{M} 23'24			2564 Apr 03 21:30	0° \mathbb{H}	
	2561 Oct 29 18:47	0° \mathbb{A}		desc. node	2564 Apr 08 14:43	5° \mathbb{H} 17'42	
	2561 Nov 23 01:41	0° \mathbb{Z}			2564 Apr 30 03:43	0° \mathbb{Y}	
	2561 Dec 17 11:10	0° \approx			2564 May 25 16:34	0° \mathbb{B}	
	2562 Jan 11 03:16	0° \mathbb{H}			2564 Jun 19 20:45	0° \mathbb{I}	
	2562 Feb 05 11:22	0° \mathbb{Y}			2564 Jul 14 18:47	0° \mathbb{G}	
asc. node	2562 Feb 12 22:46	8° \mathbb{Y} 35'03		asc. node	2564 Jul 30 17:59	19° \mathbb{G} 22'47	
	2562 Mar 04 09:59	0° \mathbb{B}			2564 Aug 08 10:50	0° \mathbb{Q}	
evening max el	2562 Mar 13 13:46	9° \mathbb{B} 25'10	46°25'49		2564 Sep 01 20:51	0° \mathbb{M}	
	2562 Apr 05 19:50	0° \mathbb{I}		morning set	2564 Sep 03 08:52	1° \mathbb{M} 51'13	
greatest brilliancy	2562 Apr 21 12:25	9° \mathbb{I} 03'07	-4.8m		2564 Sep 26 01:44	0° \mathbb{A}	
retrograde	2562 May 02 09:08	11° \mathbb{I} 12'55		max. Earth dist.	2564 Oct 07 04:27	13° \mathbb{A} 50'27	1.72168 AU
evening set	2562 May 17 21:08	6° \mathbb{I} 31'15					
inferior conj	2562 May 23 17:06	2° \mathbb{I} 58'20	2°46'11	superior conj	2564 Oct 10 08:29	17° \mathbb{A} 47'32	1°16'46
minimum elong	2562 May 23 22:56	2° \mathbb{I} 49'08	2°44'32	minimum elong	2564 Oct 10 16:11	18° \mathbb{A} 11'33	1°16'37
min. Earth dist.	2562 May 23 15:49	3° \mathbb{I} 00'21	0.28657 AU		2564 Oct 20 03:11	0° \mathbb{M}	
	2562 May 28 13:32	30° \mathbb{R} \mathbb{B}			2564 Nov 13 02:55	0° \mathbb{A}	
morning rise	2562 May 30 01:13	29° \mathbb{B} 09'41		evening rise	2564 Nov 18 09:26	6° \mathbb{A} 35'54	
desc. node	2562 Jun 04 12:15	26° \mathbb{B} 36'28		desc. node	2564 Nov 19 07:39	7° \mathbb{A} 45'24	
direct	2562 Jun 14 03:40	24° \mathbb{B} 46'23			2564 Dec 07 02:02	0° \mathbb{Z}	
greatest brilliancy	2562 Jun 24 03:55	26° \mathbb{B} 35'15	-4.7m		2564 Dec 31 01:26	0° \approx	
	2562 Jul 01 17:47	0° \mathbb{I}			2565 Jan 24 02:40	0° \mathbb{H}	
morning max el	2562 Aug 01 20:24	24° \mathbb{I} 27'56	45°43'12		2565 Feb 17 08:56	0° \mathbb{Y}	
	2562 Aug 07 13:02	0° \mathbb{G}		asc. node	2565 Mar 12 10:40	28° \mathbb{Y} 03'55	
	2562 Sep 04 21:30	0° \mathbb{Q}			2565 Mar 14 01:19	0° \mathbb{B}	
asc. node	2562 Sep 25 15:37	23° \mathbb{Q} 39'14			2565 Apr 08 11:56	0° \mathbb{I}	
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	2562 Oct 26 03:33	0° \mathbb{A}		evening max el	2565 May 23 03:33	18° \mathbb{G} 07'59	45°30'54
	2562 Nov 19 14:06	0° \mathbb{M}			2565 Jun 05 04:30	0° \mathbb{Q}	
	2562 Dec 13 16:26	0° \mathbb{A}		greatest brilliancy	2565 Jun 30 03:19	16° \mathbb{Q} 02'38	-4.7m
	2563 Jan 06 14:58	0° \mathbb{Z}		desc. node	2565 Jul 02 00:16	16° \mathbb{Q} 41'04	
desc. node	2563 Jan 15 05:13	10° \mathbb{Z} 47'14		retrograde	2565 Jul 10 21:25	18° \mathbb{Q} 07'49	
	2563 Jan 30 12:20	0° \approx		evening set	2565 Jul 26 23:29	13° \mathbb{Q} 11'59	
morning set	2563 Jan 31 19:13	1° \approx 36'55		inferior conj	2565 Aug 01 09:40	9° \mathbb{Q} 55'33	-6°21'55
	2563 Feb 23 10:09	0° \mathbb{H}		minimum elong	2565 Jul 31 23:46	10° \mathbb{Q} 10'58	6°19'57
				min. Earth dist.	2565 Aug 01 08:33	9° \mathbb{Q} 57'16	0.29028 AU
superior conj	2563 Mar 13 21:25	23° \mathbb{H} 06'59	-1°26'17	morning rise	2565 Aug 05 23:53	7° \mathbb{Q} 07'02	
minimum elong	2563 Mar 13 22:08	23° \mathbb{H} 09'14	1°26'18	direct	2565 Aug 23 00:13	1° \mathbb{Q} 37'39	
max. Earth dist.	2563 Mar 18 00:39	28° \mathbb{H} 16'49	1.71859 AU	greatest brilliancy	2565 Sep 02 14:54	3° \mathbb{Q} 39'05	-4.8m
	2563 Mar 19 09:43	0° \mathbb{Y}			2565 Oct 08 22:00	0° \mathbb{M}	
	2563 Apr 12 12:20	0° \mathbb{B}		morning max el	2565 Oct 11 11:08	2° \mathbb{M} 28'28	46°10'52
evening rise	2563 Apr 22 11:51	12° \mathbb{B} 21'33		asc. node	2565 Oct 23 03:33	14° \mathbb{M} 24'34	
	2563 May 06 19:00	0° \mathbb{I}			2565 Nov 06 10:43	0° \mathbb{A}	
asc. node	2563 May 08 08:32	1° \mathbb{I} 55'29			2565 Dec 02 08:04	0° \mathbb{M}	
	2563 May 31 06:14	0° \mathbb{G}			2565 Dec 27 04:09	0° \mathbb{A}	
	2563 Jun 24 22:41	0° \mathbb{Q}			2566 Jan 20 13:02	0° \mathbb{Z}	




























































































































desc. node	2566 Feb 11 17:00	27° ♁ 29'51		2568 Aug 05 19:27	0° ♁	
	2566 Feb 13 17:18	0° ♁	greatest brilliancy	2568 Sep 10 22:14	24° ♁ 59'13	-4.8m
	2566 Mar 09 20:13	0° ♁	retrograde	2568 Sep 20 04:11	26° ♁ 31'46	
	2566 Apr 02 23:40	0° ♁	evening set	2568 Oct 07 14:06	20° ♁ 51'09	
morning set	2566 Apr 16 23:19	17° ♁ 20'09	inferior conj	2568 Oct 11 04:49	18° ♁ 39'40	-7°55'06
	2566 Apr 27 04:54	0° ♁	minimum elong	2568 Oct 11 13:01	18° ♁ 27'01	7°54'02
	2566 May 21 12:19	0° ♁	min. Earth dist.	2568 Oct 12 02:42	18° ♁ 05'56	0.27872 AU
			morning rise	2568 Oct 15 11:37	16° ♁ 04'04	
superior conj	2566 May 24 20:36	4° ♁ 07'16 -0°25'50	direct	2568 Nov 01 08:47	10° ♁ 37'09	
minimum elong	2566 May 25 02:00	4° ♁ 23'56 0°25'35	greatest brilliancy	2568 Nov 12 11:44	12° ♁ 55'45	-4.9m
max. Earth dist.	2566 May 26 11:18	6° ♁ 06'25 1.73293 AU	asc. node	2568 Nov 19 15:15	16° ♁ 28'28	
asc. node	2566 Jun 04 20:26	17° ♁ 38'59		2568 Dec 07 14:07	0° ♁	
	2566 Jun 14 21:32	0° ♁	morning max el	2568 Dec 22 00:30	13° ♁ 50'05	46°51'53
evening rise	2566 Jun 30 15:34	19° ♁ 20'55		2569 Jan 06 05:45	0° ♁	
	2566 Jul 09 07:54	0° ♁		2569 Feb 01 12:32	0° ♁	
	2566 Aug 02 19:24	0° ♁		2569 Feb 26 17:37	0° ♁	
	2566 Aug 27 08:55	0° ♁	desc. node	2569 Mar 11 04:53	15° ♁ 03'13	
	2566 Sep 21 01:58	0° ♁		2569 Mar 23 12:20	0° ♁	
desc. node	2566 Sep 24 09:48	4° ♁ 01'17		2569 Apr 17 02:55	0° ♁	
	2566 Oct 16 00:21	0° ♁		2569 May 11 16:10	0° ♁	
	2566 Nov 10 07:20	0° ♁		2569 Jun 05 05:03	0° ♁	
	2566 Dec 06 08:24	0° ♁	morning set	2569 Jun 25 04:26	24° ♁ 26'57	
evening max el	2566 Dec 29 10:51	24° ♁ 54'58 47°16'33		2569 Jun 29 17:10	0° ♁	
	2567 Jan 03 12:41	0° ♁	asc. node	2569 Jul 02 08:10	3° ♁ 13'05	
asc. node	2567 Jan 15 13:01	11° ♁ 08'43		2569 Jul 24 03:32	0° ♁	
greatest brilliancy	2567 Feb 08 01:54	26° ♁ 35'58 -4.9m	max. Earth dist.	2569 Jul 29 12:50	6° ♁ 37'48 1.73422 AU	
retrograde	2567 Feb 18 10:17	28° ♁ 38'52				
evening set	2567 Mar 08 09:10	22° ♁ 22'50	superior conj	2569 Jul 31 16:18	9° ♁ 16'11 1°02'19	
min. Earth dist.	2567 Mar 10 16:53	20° ♁ 56'38 0.27630 AU	minimum elong	2569 Jul 31 07:30	8° ♁ 49'07 1°02'01	
inferior conj	2567 Mar 11 07:27	20° ♁ 33'53 8°52'41		2569 Aug 17 11:42	0° ♁	
minimum elong	2567 Mar 11 07:24	20° ♁ 33'58 8°52'41	evening rise	2569 Sep 05 16:06	23° ♁ 42'34	
morning rise	2567 Mar 14 05:50	18° ♁ 45'14		2569 Sep 10 18:07	0° ♁	
direct	2567 Apr 01 01:24	12° ♁ 39'32		2569 Oct 04 23:55	0° ♁	
greatest brilliancy	2567 Apr 10 04:35	14° ♁ 13'30 -4.8m	desc. node	2569 Oct 21 21:49	20° ♁ 55'23	
	2567 May 05 11:54	0° ♁		2569 Oct 29 06:05	0° ♁	
desc. node	2567 May 07 02:30	1° ♁ 21'37		2569 Nov 22 13:24	0° ♁	
morning max el	2567 May 20 10:45	13° ♁ 34'57 46°03'42		2569 Dec 16 23:27	0° ♁	
	2567 Jun 05 15:22	0° ♁		2570 Jan 10 16:27	0° ♁	
	2567 Jul 03 01:39	0° ♁		2570 Feb 05 02:15	0° ♁	
	2567 Jul 29 04:31	0° ♁	asc. node	2570 Feb 12 00:46	7° ♁ 56'20	
	2567 Aug 23 13:09	0° ♁		2570 Mar 04 05:05	0° ♁	
asc. node	2567 Aug 28 05:47	5° ♁ 37'52	evening max el	2570 Mar 11 04:11	7° ♁ 07'22 46°28'09	
	2567 Sep 17 08:15	0° ♁		2570 Apr 06 14:12	0° ♁	
	2567 Oct 11 17:09	0° ♁	greatest brilliancy	2570 Apr 19 06:11	6° ♁ 53'38 -4.8m	
	2567 Nov 04 19:15	0° ♁	retrograde	2570 Apr 30 00:58	9° ♁ 02'05	
morning set	2567 Nov 14 02:16	11° ♁ 38'01	evening set	2570 May 15 15:19	4° ♁ 17'49	
	2567 Nov 28 17:35	0° ♁	inferior conj	2570 May 21 09:14	0° ♁ 47'51 3°05'28	
desc. node	2567 Dec 17 19:25	23° ♁ 58'55	minimum elong	2570 May 21 15:40	0° ♁ 37'42 3°03'40	
	2567 Dec 22 14:14	0° ♁	min. Earth dist.	2570 May 21 08:28	0° ♁ 49'03 0.28631 AU	
				2570 May 22 15:39	30° ♁	
superior conj	2567 Dec 24 09:59	2° ♁ 17'36 -0°15'48	morning rise	2570 May 27 16:24	27° ♁ 00'07	
minimum elong	2567 Dec 24 05:50	2° ♁ 04'32 0°15'35	desc. node	2570 Jun 03 14:17	23° ♁ 55'52	
behind sun begin	2567 Dec 23 21:54	1° ♁ 39'34	direct	2570 Jun 11 18:54	22° ♁ 36'16	
behind sun end	2567 Dec 24 13:46	2° ♁ 29'30	greatest brilliancy	2570 Jun 21 19:31	24° ♁ 25'00 -4.7m	
max. Earth dist.	2567 Dec 24 08:10	2° ♁ 11'54 1.71109 AU		2570 Jul 03 02:40	0° ♁	
	2568 Jan 15 10:31	0° ♁	morning max el	2570 Jul 30 11:09	22° ♁ 15'46 45°43'06	
evening rise	2568 Feb 03 18:49	24° ♁ 18'29		2570 Aug 07 08:51	0° ♁	
	2568 Feb 08 07:43	0° ♁		2570 Sep 04 12:13	0° ♁	
	2568 Mar 03 07:33	0° ♁	asc. node	2570 Sep 24 17:48	23° ♁ 07'23	
	2568 Mar 27 12:20	0° ♁		2570 Sep 30 14:35	0° ♁	
asc. node	2568 Apr 08 22:44	15° ♁ 16'36		2570 Oct 25 15:29	0° ♁	
	2568 Apr 21 00:34	0° ♁		2570 Nov 19 01:37	0° ♁	
	2568 May 15 23:20	0° ♁		2570 Dec 13 03:41	0° ♁	
	2568 Jun 10 13:48	0° ♁		2571 Jan 06 02:05	0° ♁	
	2568 Jul 07 07:56	0° ♁	desc. node	2571 Jan 14 07:11	10° ♁ 18'42	
desc. node	2568 Jul 29 12:00	23° ♁ 00'36	morning set	2571 Jan 29 04:46	29° ♁ 01'42	
evening max el	2568 Aug 02 10:11	26° ♁ 48'37 45°38'26		2571 Jan 29 23:20	0° ♁	

	2571 Feb 22 21:03	0° H		minimum elong	2573 Jul 29 16:03	8° Ω 01'43	6°06'12
				min. Earth dist.	2573 Jul 29 23:57	7° Ω 49'24	0.29032 AU
superior conj	2571 Mar 11 09:17	20° H 40'17 -1°26'21		morning rise	2573 Aug 03 18:55	4° Ω 53'58	
minimum elong	2571 Mar 11 08:59	20° H 39'19 1°26'20			2573 Aug 15 13:33	30° R E	
max. Earth dist.	2571 Mar 15 10:03	25° H 42'31 1.71804 AU		direct	2573 Aug 20 17:02	29° E 28'25	
	2571 Mar 18 20:32	0° Y			2573 Aug 25 23:51	0° Ω	
	2571 Apr 11 23:07	0° B		greatest brilliancy	2573 Aug 31 06:17	1° Ω 29'00	-4.7m
evening rise	2571 Apr 20 01:55	10° B 03'10			2573 Oct 08 20:24	0° M	
	2571 May 06 05:49	0° II		morning max el	2573 Oct 09 03:38	0° M 17'42	46°09'25
asc. node	2571 May 07 10:38	1° II 28'36		asc. node	2573 Oct 22 05:33	13° M 41'28	
	2571 May 30 17:14	0° E			2573 Nov 06 02:29	0° E	
	2571 Jun 24 10:01	0° Ω			2573 Dec 01 21:38	0° M	
	2571 Jul 19 09:52	0° M			2573 Dec 26 16:42	0° A	
	2571 Aug 13 20:30	0° E			2574 Jan 20 01:03	0° B	
desc. node	2571 Aug 26 23:54	15° E 11'28		desc. node	2574 Feb 10 19:05	27° B 00'07	
	2571 Sep 09 01:20	0° M			2574 Feb 13 04:57	0° \approx	
	2571 Oct 06 19:07	0° A			2574 Mar 09 07:35	0° H	
evening max el	2571 Oct 15 08:35	8° A 37'11 46°41'20			2574 Apr 02 10:49	0° Y	
	2571 Nov 08 20:53	0° B		morning set	2574 Apr 14 13:45	15° Y 01'58	
greatest brilliancy	2571 Nov 24 18:46	8° B 49'48 -4.9m			2574 Apr 26 15:52	0° B	
retrograde	2571 Dec 04 10:36	10° B 35'37			2574 May 20 23:10	0° II	
asc. node	2571 Dec 18 03:07	6° B 52'42					
evening set	2571 Dec 18 17:49	6° B 33'36		superior conj	2574 May 22 13:00	1° II 56'35	-0°29'01
inferior conj	2571 Dec 25 00:02	2° B 55'21 1°46'50		minimum elong	2574 May 22 19:02	2° II 15'09	0°28'44
minimum elong	2571 Dec 24 20:00	3° B 01'31 1°45'32		max. Earth dist.	2574 May 24 08:42	4° II 11'11	1.73260 AU
min. Earth dist.	2571 Dec 24 20:38	3° B 00'32 0.26458 AU		asc. node	2574 Jun 03 22:22	17° II 11'44	
	2571 Dec 29 22:22	30° R A			2574 Jun 14 08:20	0° E	
morning rise	2571 Dec 30 22:01	29° A 27'33		evening rise	2574 Jun 28 10:04	17° E 17'05	
direct	2572 Jan 14 08:46	25° A 17'09			2574 Jul 08 18:48	0° Ω	
greatest brilliancy	2572 Jan 24 09:48	27° A 11'35 -4.9m			2574 Aug 02 06:31	0° M	
	2572 Jan 30 14:19	0° B			2574 Aug 26 20:26	0° E	
morning max el	2572 Mar 04 17:23	27° B 59'55 46°48'30			2574 Sep 20 14:03	0° M	
	2572 Mar 06 17:03	0° \approx		desc. node	2574 Sep 23 11:57	3° M 31'01	
	2572 Apr 03 13:49	0° H			2574 Oct 15 13:18	0° A	
desc. node	2572 Apr 07 16:54	4° H 39'19			2574 Nov 09 21:43	0° B	
	2572 Apr 29 17:29	0° Y			2574 Dec 06 01:32	0° \approx	
	2572 May 25 05:01	0° B		evening max el	2574 Dec 27 02:35	22° \approx 35'31	47°16'45
	2572 Jun 19 08:24	0° II			2575 Jan 03 13:52	0° H	
	2572 Jul 14 05:58	0° E		asc. node	2575 Jan 14 15:00	10° H 01'23	
asc. node	2572 Jul 29 20:00	18° E 55'32		greatest brilliancy	2575 Feb 05 16:03	24° H 12'45	-4.9m
	2572 Aug 07 21:44	0° Ω		retrograde	2575 Feb 16 01:04	26° H 15'48	
morning set	2572 Sep 01 02:09	29° Ω 43'10		evening set	2575 Mar 05 22:18	20° H 01'49	
	2572 Sep 01 07:36	0° M		min. Earth dist.	2575 Mar 08 05:51	18° H 35'51	0.27580 AU
	2572 Sep 25 12:27	0° E		inferior conj	2575 Mar 08 21:26	18° H 11'30	8°52'38
max. Earth dist.	2572 Oct 04 22:03	11° E 42'10 1.72219 AU		minimum elong	2575 Mar 08 20:31	18° H 12'56	8°52'37
				morning rise	2575 Mar 11 18:57	16° H 24'12	
superior conj	2572 Oct 08 00:15	15° E 33'25 1°18'10		direct	2575 Mar 29 15:30	10° H 18'13	
minimum elong	2572 Oct 08 07:24	15° E 55'42 1°18'02		greatest brilliancy	2575 Apr 07 16:53	11° H 51'00	-4.8m
	2572 Oct 19 13:59	0° M			2575 May 05 19:21	0° Y	
	2572 Nov 12 13:53	0° A		desc. node	2575 May 06 04:30	0° Y 19'55	
evening rise	2572 Nov 15 22:05	4° A 10'53		morning max el	2575 May 18 01:24	11° Y 18'09	46°05'03
desc. node	2572 Nov 18 09:42	7° A 17'22			2575 Jun 05 09:30	0° B	
	2572 Dec 06 13:12	0° B			2575 Jul 02 16:06	0° II	
	2572 Dec 30 12:48	0° \approx			2575 Jul 28 17:17	0° E	
	2573 Jan 23 14:17	0° H			2575 Aug 23 01:01	0° Ω	
	2573 Feb 16 20:55	0° Y		asc. node	2575 Aug 27 07:56	5° Ω 08'54	
asc. node	2573 Mar 11 12:49	27° Y 32'28			2575 Sep 16 19:40	0° M	
	2573 Mar 13 13:59	0° B			2575 Oct 11 04:21	0° E	
	2573 Apr 08 02:00	0° II			2575 Nov 04 06:22	0° M	
	2573 May 05 02:49	0° E		morning set	2575 Nov 11 15:57	9° M 15'46	
evening max el	2573 May 20 19:55	15° E 58'29 45°32'04			2575 Nov 28 04:40	0° A	
	2573 Jun 05 11:11	0° Ω		desc. node	2575 Dec 16 21:26	23° A 30'25	
greatest brilliancy	2573 Jun 27 17:54	13° Ω 52'10 -4.7m					
desc. node	2573 Jul 01 02:14	14° Ω 56'40		superior conj	2575 Dec 21 20:40	29° A 45'20	-0°11'54
retrograde	2573 Jul 08 14:12	15° Ω 59'06		minimum elong	2575 Dec 21 17:31	29° A 35'28	0°11'45
evening set	2573 Jul 24 13:06	11° Ω 06'42		behind sun begin	2575 Dec 20 23:05	28° A 37'28	
inferior conj	2573 Jul 30 01:57	7° Ω 46'18 -6°08'15		behind sun end	2575 Dec 22 11:58	0° B 33'28	

max. Earth dist.	2575 Dec 21 13:46	29° ♁ 23'39	1.71117 AU	greatest brilliancy	2578 Jun 19 11:36	22° ♁ 14'17	-4.7m
	2575 Dec 22 01:19	0° ♁			2578 Jul 04 02:44	0° ♁	
	2576 Jan 14 21:38	0° ♁		morning max el	2578 Jul 28 02:31	20° ♁ 03'57	45°43'02
evening rise	2576 Feb 01 05:19	21° ♁ 45'45			2578 Aug 07 04:31	0° ♁	
	2576 Feb 07 18:53	0° ♁			2578 Sep 04 03:07	0° ♁	
	2576 Mar 02 18:50	0° ♁		asc. node	2578 Sep 23 19:51	22° ♁ 34'16	
	2576 Mar 26 23:47	0° ♁			2578 Sep 30 03:39	0° ♁	
asc. node	2576 Apr 08 00:45	14° ♁ 47'17			2578 Oct 25 03:40	0° ♁	
	2576 Apr 20 12:22	0° ♁			2578 Nov 18 13:20	0° ♁	
	2576 May 15 11:47	0° ♁			2578 Dec 12 15:11	0° ♁	
	2576 Jun 10 03:32	0° ♁			2579 Jan 05 13:26	0° ♁	
	2576 Jul 07 00:31	0° ♁		desc. node	2579 Jan 13 09:16	9° ♁ 49'41	
desc. node	2576 Jul 28 14:07	22° ♁ 12'10		morning set	2579 Jan 26 14:22	26° ♁ 25'37	
evening max el	2576 Jul 31 00:03	24° ♁ 31'42	45°36'57		2579 Jan 29 10:37	0° ♁	
	2576 Aug 05 20:56	0° ♁			2579 Feb 22 08:13	0° ♁	
greatest brilliancy	2576 Sep 08 11:50	22° ♁ 41'43	-4.8m				
retrograde	2576 Sep 17 17:13	24° ♁ 14'02		superior conj	2579 Mar 08 21:10	18° ♁ 12'41	-1°26'13
evening set	2576 Oct 05 06:42	18° ♁ 29'30		minimum elong	2579 Mar 08 19:49	18° ♁ 08'27	1°26'13
inferior conj	2576 Oct 08 19:08	16° ♁ 21'15	-8°03'44	max. Earth dist.	2579 Mar 12 17:39	23° ♁ 01'46	1.71749 AU
minimum elong	2576 Oct 09 02:46	16° ♁ 09'28	8°02'48		2579 Mar 18 07:37	0° ♁	
min. Earth dist.	2576 Oct 09 17:00	15° ♁ 47'31	0.27938 AU		2579 Apr 11 10:09	0° ♁	
morning rise	2576 Oct 12 22:30	13° ♁ 50'19		evening rise	2579 Apr 17 16:03	7° ♁ 44'16	
direct	2576 Oct 29 23:21	8° ♁ 17'40			2579 May 05 16:54	0° ♁	
greatest brilliancy	2576 Nov 10 03:06	10° ♁ 36'19	-4.9m	asc. node	2579 May 06 12:35	1° ♁ 00'34	
asc. node	2576 Nov 18 17:15	15° ♁ 01'00			2579 May 30 04:30	0° ♁	
	2576 Dec 07 19:32	0° ♁			2579 Jun 23 21:39	0° ♁	
morning max el	2576 Dec 19 13:49	11° ♁ 24'43	46°51'04		2579 Jul 18 22:10	0° ♁	
	2577 Jan 05 23:49	0° ♁			2579 Aug 13 09:58	0° ♁	
	2577 Feb 01 03:19	0° ♁		desc. node	2579 Aug 26 02:00	14° ♁ 36'16	
	2577 Feb 26 06:51	0° ♁			2579 Sep 08 17:02	0° ♁	
desc. node	2577 Mar 10 07:03	14° ♁ 31'08			2579 Oct 06 16:11	0° ♁	
	2577 Mar 23 00:42	0° ♁		evening max el	2579 Oct 12 21:47	6° ♁ 13'36	46°39'09
	2577 Apr 16 14:43	0° ♁			2579 Nov 09 23:04	0° ♁	
	2577 May 11 03:34	0° ♁		greatest brilliancy	2579 Nov 22 07:23	6° ♁ 20'59	-4.9m
	2577 Jun 04 16:11	0° ♁		retrograde	2579 Dec 01 23:05	8° ♁ 06'39	
morning set	2577 Jun 22 22:18	22° ♁ 21'04		evening set	2579 Dec 16 05:54	4° ♁ 04'28	
	2577 Jun 29 04:07	0° ♁		asc. node	2579 Dec 17 05:11	3° ♁ 33'05	
asc. node	2577 Jul 01 10:15	2° ♁ 45'56		inferior conj	2579 Dec 22 12:13	0° ♁ 26'24	1°22'26
	2577 Jul 23 14:25	0° ♁		minimum elong	2579 Dec 22 09:04	0° ♁ 31'11	1°21'26
max. Earth dist.	2577 Jul 27 07:40	4° ♁ 34'36	1.73444 AU	min. Earth dist.	2579 Dec 22 10:09	0° ♁ 29'32	0.26465 AU
					2579 Dec 23 05:37	30° ♁	
superior conj	2577 Jul 29 10:41	7° ♁ 11'35	1°00'08	morning rise	2579 Dec 28 12:04	26° ♁ 56'30	
minimum elong	2577 Jul 29 01:52	6° ♁ 44'27	0°59'49	direct	2580 Jan 11 21:31	22° ♁ 47'46	
	2577 Aug 16 22:36	0° ♁		greatest brilliancy	2580 Jan 21 23:50	24° ♁ 44'02	-4.9m
evening rise	2577 Sep 03 09:35	21° ♁ 34'13			2580 Feb 01 08:07	0° ♁	
	2577 Sep 10 05:10	0° ♁		morning max el	2580 Mar 02 07:43	25° ♁ 37'08	46°49'39
	2577 Oct 04 11:13	0° ♁			2580 Mar 06 15:13	0° ♁	
desc. node	2577 Oct 20 23:47	20° ♁ 25'51			2580 Apr 03 06:02	0° ♁	
	2577 Oct 28 17:42	0° ♁		desc. node	2580 Apr 06 18:49	4° ♁ 00'03	
	2577 Nov 22 01:28	0° ♁			2580 Apr 29 07:18	0° ♁	
	2577 Dec 16 12:07	0° ♁			2580 May 24 17:32	0° ♁	
	2578 Jan 10 06:02	0° ♁			2580 Jun 18 20:10	0° ♁	
	2578 Feb 04 17:35	0° ♁			2580 Jul 13 17:16	0° ♁	
asc. node	2578 Feb 11 02:57	7° ♁ 17'00		asc. node	2580 Jul 28 22:08	18° ♁ 28'11	
	2578 Mar 04 01:02	0° ♁			2580 Aug 07 08:47	0° ♁	
evening max el	2578 Mar 08 18:05	4° ♁ 47'30	46°30'30	morning set	2580 Aug 29 19:25	27° ♁ 34'35	
	2578 Apr 07 15:48	0° ♁			2580 Aug 31 18:32	0° ♁	
greatest brilliancy	2578 Apr 16 23:24	4° ♁ 42'39	-4.8m		2580 Sep 24 23:23	0° ♁	
retrograde	2578 Apr 27 16:56	6° ♁ 50'37		max. Earth dist.	2580 Oct 02 13:58	9° ♁ 28'06	1.72267 AU
evening set	2578 May 13 09:35	2° ♁ 03'11					
	2578 May 16 20:09	30° ♁		superior conj	2580 Oct 05 15:58	13° ♁ 18'38	1°19'27
inferior conj	2578 May 19 01:25	28° ♁ 36'30	3°24'27	minimum elong	2580 Oct 05 22:31	13° ♁ 39'01	1°19'20
minimum elong	2578 May 19 08:24	28° ♁ 25'28	3°22'30		2580 Oct 19 00:59	0° ♁	
min. Earth dist.	2578 May 19 01:08	28° ♁ 36'56	0.28611 AU		2580 Nov 12 01:01	0° ♁	
morning rise	2578 May 25 07:30	24° ♁ 50'04		evening rise	2580 Nov 13 10:36	1° ♁ 45'02	
desc. node	2578 Jun 02 16:18	21° ♁ 19'03		desc. node	2580 Nov 17 11:40	6° ♁ 48'40	
direct	2578 Jun 09 10:03	20° ♁ 25'01			2580 Dec 06 00:30	0° ♁	

	2580 Dec 30 00:17	0°♊		2583 Jul 28 05:49	0°♊
	2581 Jan 23 02:02	0°♋		2583 Aug 22 12:41	0°♋
	2581 Feb 16 09:05	0°♌	asc. node	2583 Aug 26 09:58	4°♋40'11
asc. node	2581 Mar 10 14:49	26°♌59'59		2583 Sep 16 06:53	0°♍
	2581 Mar 13 02:53	0°♎		2583 Oct 10 15:22	0°♎
	2581 Apr 07 16:21	0°♏		2583 Nov 03 17:19	0°♏
	2581 May 04 20:43	0°♐	morning set	2583 Nov 09 05:35	6°♏53'53
evening max el	2581 May 18 12:42	13°♐49'40 45°33'16		2583 Nov 27 15:37	0°♑
	2581 Jun 05 20:31	0°♑	desc. node	2583 Dec 15 23:34	23°♑02'39
greatest brilliancy	2581 Jun 25 08:59	11°♑42'13 -4.7m	max. Earth dist.	2583 Dec 18 16:02	26°♑25'19 1.71133 AU
desc. node	2581 Jun 30 04:20	13°♑08'28			
retrograde	2581 Jul 06 06:48	13°♑50'09	superior conj	2583 Dec 19 07:05	27°♑12'39 -0°07'58
evening set	2581 Jul 22 02:54	9°♑01'21	minimum elong	2583 Dec 19 04:59	27°♑06'02 0°07'52
inferior conj	2581 Jul 27 18:14	5°♑37'01 -5°54'02	behind sun begin	2583 Dec 18 05:48	25°♑53'08
minimum elong	2581 Jul 27 08:24	5°♑52'22 5°51'56	behind sun end	2583 Dec 20 04:10	28°♑18'56
min. Earth dist.	2581 Jul 27 15:26	5°♑41'25 0.29035 AU		2583 Dec 21 12:18	0°♒
morning rise	2581 Aug 01 13:54	2°♑40'48		2584 Jan 14 08:40	0°♓
	2581 Aug 06 17:47	30°♒♊	evening rise	2584 Jan 29 15:16	19°♓11'36
direct	2581 Aug 18 10:04	27°♊19'20		2584 Feb 07 05:57	0°♋
greatest brilliancy	2581 Aug 28 21:21	29°♊18'28 -4.7m		2584 Mar 02 05:58	0°♌
	2581 Aug 30 16:14	0°♋		2584 Mar 26 11:05	0°♍
morning max el	2581 Oct 06 19:27	28°♋05'07 46°07'48	asc. node	2584 Apr 07 02:44	14°♍18'22
	2581 Oct 08 18:04	0°♎		2584 Apr 20 00:00	0°♏
asc. node	2581 Oct 21 07:33	12°♎58'33		2584 May 15 00:06	0°♐
	2581 Nov 05 18:09	0°♑		2584 Jun 09 17:12	0°♑
	2581 Dec 01 11:13	0°♒		2584 Jul 06 17:11	0°♒
	2581 Dec 26 05:17	0°♓	desc. node	2584 Jul 27 16:15	21°♒23'42
desc. node	2582 Jan 19 13:03	0°♓	evening max el	2584 Jul 28 13:15	22°♒14'00 45°35'36
	2582 Feb 09 21:13	26°♓30'33		2584 Aug 05 23:28	0°♑
	2582 Feb 12 16:33	0°♊	greatest brilliancy	2584 Sep 06 01:18	20°♑25'15 -4.8m
	2582 Mar 08 18:54	0°♋	retrograde	2584 Sep 15 06:37	21°♑57'55
	2582 Apr 01 21:55	0°♌	evening set	2584 Oct 02 23:08	16°♑09'31
morning set	2582 Apr 12 04:03	12°♌43'24	inferior conj	2584 Oct 06 09:35	14°♑04'17 -8°11'18
	2582 Apr 26 02:49	0°♎	minimum elong	2584 Oct 06 16:35	13°♑53'28 8°10'33
			min. Earth dist.	2584 Oct 07 07:21	13°♑30'41 0.28006 AU
superior conj	2582 May 20 05:24	29°♎45'48 -0°32'09	morning rise	2584 Oct 10 09:41	11°♑38'01
minimum elong	2582 May 20 12:01	0°♏06'11 0°31'51	direct	2584 Oct 27 13:50	5°♑59'33
	2582 May 20 10:00	0°♏	greatest brilliancy	2584 Nov 07 18:49	8°♑18'49 -4.9m
max. Earth dist.	2582 May 22 06:36	2°♏17'24 1.73223 AU	asc. node	2584 Nov 17 19:22	13°♑37'46
asc. node	2582 Jun 03 00:29	16°♏45'04		2584 Dec 07 22:42	0°♑
	2582 Jun 13 19:08	0°♐	morning max el	2584 Dec 17 03:26	9°♑01'05 46°50'04
evening rise	2582 Jun 26 04:35	15°♐13'22		2585 Jan 05 17:12	0°♒
	2582 Jul 08 05:40	0°♑		2585 Jan 31 17:43	0°♓
	2582 Aug 01 17:36	0°♒		2585 Feb 25 19:51	0°♊
	2582 Aug 26 07:54	0°♓	desc. node	2585 Mar 09 08:59	13°♊58'58
	2582 Sep 20 02:10	0°♔		2585 Mar 22 12:51	0°♋
desc. node	2582 Sep 22 13:54	3°♔00'08		2585 Apr 16 02:16	0°♌
	2582 Oct 15 02:21	0°♑		2585 May 10 14:42	0°♍
	2582 Nov 09 12:16	0°♒		2585 Jun 04 03:00	0°♏
	2582 Dec 05 19:05	0°♓	morning set	2585 Jun 20 16:01	20°♏15'29
evening max el	2582 Dec 24 17:39	20°♓14'10 47°16'56		2585 Jun 28 14:46	0°♐
	2583 Jan 03 16:27	0°♋	asc. node	2585 Jun 30 12:20	2°♐19'43
asc. node	2583 Jan 13 17:10	8°♋52'36		2585 Jul 23 01:01	0°♑
greatest brilliancy	2583 Feb 03 06:43	21°♋50'02 -4.9m	max. Earth dist.	2585 Jul 25 03:27	2°♑35'09 1.73466 AU
retrograde	2583 Feb 13 15:22	23°♋52'27			
evening set	2583 Mar 03 10:54	17°♋41'33	superior conj	2585 Jul 27 05:04	5°♑07'51 0°57'52
inferior conj	2583 Mar 06 11:22	15°♋49'06 8°51'37	minimum elong	2585 Jul 26 20:17	4°♑40'48 0°57'33
minimum elong	2583 Mar 06 09:33	15°♋51'56 8°51'34		2585 Aug 16 09:15	0°♒
min. Earth dist.	2583 Mar 05 19:02	16°♋14'39 0.27526 AU	evening rise	2585 Sep 01 03:19	19°♒27'37
morning rise	2583 Mar 09 08:25	14°♋02'24		2585 Sep 09 15:57	0°♓
direct	2583 Mar 27 05:09	7°♋57'00		2585 Oct 03 22:11	0°♔
greatest brilliancy	2583 Apr 05 05:33	9°♋28'52 -4.8m	desc. node	2585 Oct 20 01:51	19°♔57'39
desc. node	2583 May 05 06:34	29°♋20'11		2585 Oct 28 05:00	0°♑
	2583 May 06 00:27	0°♌		2585 Nov 21 13:13	0°♒
morning max el	2583 May 15 15:01	8°♌58'59 46°06'22		2585 Dec 16 00:30	0°♊
	2583 Jun 05 03:03	0°♍		2586 Jan 09 19:25	0°♋
	2583 Jul 02 06:13	0°♏		2586 Feb 04 08:53	0°♌

asc. node	2586 Feb 10 04:54	6°♈37'16		asc. node	2588 Jul 28 00:08	18°♏01'21	
	2586 Mar 03 21:24	0°♋			2588 Aug 06 19:31	0°♌	
evening max el	2586 Mar 06 08:14	2°♋28'40	46°32'54	morning set	2588 Aug 27 12:38	25°♌26'58	
	2586 Apr 09 03:58	0°♊			2588 Aug 31 05:09	0°♍	
greatest brilliancy	2586 Apr 14 15:58	2°♊31'06	-4.8m		2588 Sep 24 10:00	0°♎	
retrograde	2586 Apr 25 09:09	4°♊39'20		max. Earth dist.	2588 Sep 30 04:31	7°♎10'50	1.72317 AU
	2586 May 10 19:33	30°♋					
evening set	2586 May 11 03:48	29°♋48'22		superior conj	2588 Oct 03 07:49	11°♎05'15	1°20'36
inferior conj	2586 May 16 17:23	26°♋25'09	3°43'09	minimum elong	2588 Oct 03 13:42	11°♎23'37	1°20'31
minimum elong	2586 May 17 00:55	26°♋13'19	3°41'07		2588 Oct 18 11:43	0°♏	
min. Earth dist.	2586 May 16 17:17	26°♋25'20	0.28589 AU	evening rise	2588 Nov 10 23:16	29°♏20'32	
morning rise	2586 May 22 22:16	22°♋40'34			2588 Nov 11 11:53	0°♐	
desc. node	2586 Jun 01 18:25	18°♋47'07		desc. node	2588 Nov 16 13:50	6°♐21'19	
direct	2586 Jun 07 01:12	18°♋13'49			2588 Dec 05 11:32	0°♑	
greatest brilliancy	2586 Jun 17 03:11	20°♋03'38	-4.7m		2588 Dec 29 11:29	0°♒	
	2586 Jul 04 20:08	0°♊			2589 Jan 22 13:28	0°♓	
morning max el	2586 Jul 25 18:32	17°♊54'37	45°43'03		2589 Feb 15 20:55	0°♈	
	2586 Aug 06 23:16	0°♏		asc. node	2589 Mar 09 16:50	26°♈28'32	
	2586 Sep 03 17:31	0°♌			2589 Mar 12 15:29	0°♉	
asc. node	2586 Sep 22 21:46	22°♌01'59			2589 Apr 07 06:30	0°♊	
	2586 Sep 29 16:18	0°♍			2589 May 04 14:43	0°♋	
	2586 Oct 24 15:28	0°♎		evening max el	2589 May 16 05:22	11°♋41'12	45°34'21
	2586 Nov 18 00:41	0°♏			2589 Jun 06 08:47	0°♌	
	2586 Dec 12 02:17	0°♐		greatest brilliancy	2589 Jun 23 00:53	9°♌33'49	-4.7m
	2587 Jan 05 00:25	0°♑		desc. node	2589 Jun 29 06:24	11°♌16'59	
desc. node	2587 Jan 12 11:22	9°♑21'56		retrograde	2589 Jul 03 23:03	11°♌41'49	
morning set	2587 Jan 24 00:11	23°♑51'26		evening set	2589 Jul 19 16:55	6°♌56'39	
	2587 Jan 28 21:30	0°♒		inferior conj	2589 Jul 25 10:36	3°♌28'36	-5°39'22
	2587 Feb 21 19:03	0°♓		minimum elong	2589 Jul 25 00:53	3°♌43'49	5°37'13
				min. Earth dist.	2589 Jul 25 07:16	3°♌33'50	0.29034 AU
superior conj	2587 Mar 06 08:47	15°♓45'08	-1°25'55	morning rise	2589 Jul 30 08:53	0°♌28'23	
minimum elong	2587 Mar 06 06:25	15°♓37'42	1°25'55		2589 Jul 31 04:48	30°♋	
max. Earth dist.	2587 Mar 10 01:22	20°♓22'10	1.71703 AU	direct	2589 Aug 16 02:52	25°♏11'13	
	2587 Mar 17 18:23	0°♈		greatest brilliancy	2589 Aug 26 12:36	27°♏08'47	-4.7m
	2587 Apr 10 20:54	0°♉			2589 Sep 01 21:39	0°♌	
evening rise	2587 Apr 15 05:46	5°♉24'54		morning max el	2589 Oct 04 10:18	25°♌50'59	46°06'12
	2587 May 05 03:42	0°♊			2589 Oct 08 14:41	0°♍	
asc. node	2587 May 05 14:42	0°♊33'51		asc. node	2589 Oct 20 09:44	12°♍17'27	
	2587 May 29 15:28	0°♋			2589 Nov 05 09:19	0°♎	
	2587 Jun 23 09:00	0°♌			2589 Dec 01 00:27	0°♏	
	2587 Jul 18 10:11	0°♍			2589 Dec 25 17:36	0°♐	
	2587 Aug 12 23:13	0°♎			2590 Jan 19 00:49	0°♑	
desc. node	2587 Aug 25 03:57	14°♎01'19		desc. node	2590 Feb 08 23:08	26°♑01'03	
	2587 Sep 08 08:39	0°♏			2590 Feb 12 03:55	0°♒	
	2587 Oct 06 13:38	0°♐			2590 Mar 08 05:58	0°♓	
evening max el	2587 Oct 10 12:00	3°♐53'45	46°36'57		2590 Apr 01 08:47	0°♈	
	2587 Nov 11 10:56	0°♑		morning set	2590 Apr 09 18:33	10°♈26'08	
					2590 Apr 25 13:31	0°♉	
greatest brilliancy	2587 Nov 19 19:48	3°♑53'31	-4.9m				
retrograde	2587 Nov 29 11:55	5°♑39'08					
evening set	2587 Dec 13 18:23	1°♑36'49		superior conj	2590 May 17 21:56	27°♑36'09	-0°35'13
asc. node	2587 Dec 16 07:16	0°♑12'11		minimum elong	2590 May 18 05:07	27°♑58'14	0°34'54
	2587 Dec 16 15:39	30°♋			2590 May 19 20:37	0°♊	
inferior conj	2587 Dec 20 00:28	27°♋58'56	0°58'02	max. Earth dist.	2590 May 20 04:23	0°♊23'55	1.73187 AU
minimum elong	2587 Dec 19 22:14	28°♋02'19	0°57'18	asc. node	2590 Jun 02 02:35	16°♊18'55	
min. Earth dist.	2587 Dec 19 23:28	28°♋00'27	0.26471 AU		2590 Jun 13 05:45	0°♋	
morning rise	2587 Dec 26 02:00	24°♋27'13		evening rise	2590 Jun 23 23:03	13°♋10'02	
direct	2588 Jan 09 10:40	20°♋20'13			2590 Jul 07 16:22	0°♌	
greatest brilliancy	2588 Jan 19 13:18	22°♋17'19	-4.9m		2590 Aug 01 04:33	0°♍	
	2588 Feb 02 12:17	0°♑			2590 Aug 25 19:17	0°♎	
morning max el	2588 Feb 28 22:03	23°♑15'41	46°50'36		2590 Sep 19 14:10	0°♏	
	2588 Mar 06 12:04	0°♒		desc. node	2590 Sep 21 15:58	2°♏29'56	
	2588 Apr 02 21:34	0°♓			2590 Oct 14 15:20	0°♐	
desc. node	2588 Apr 05 20:54	3°♓22'46			2590 Nov 09 02:52	0°♑	
	2588 Apr 28 20:39	0°♈			2590 Dec 05 12:55	0°♒	
	2588 May 24 05:43	0°♉		evening max el	2590 Dec 22 07:43	17°♒50'24	47°16'55
	2588 Jun 18 07:38	0°♊			2591 Jan 03 20:34	0°♓	
	2588 Jul 13 04:17	0°♋		asc. node	2591 Jan 12 19:10	7°♓41'41	

greatest brilliancy	2591 Jan 31 21:53	19°  27'48	-4.9m	max. Earth dist.	2593 Jul 23 01:43	0°  42'56	1.73486 AU
retrograde	2591 Feb 11 05:12	21°  29'03					
evening set	2591 Feb 28 23:01	15°  22'01		superior conj	2593 Jul 24 23:40	3°  04'18	0°55'32
min. Earth dist.	2591 Mar 03 08:32	13°  52'59	0.27469 AU	minimum elong	2593 Jul 24 14:57	2°  37'29	0°55'13
inferior conj	2591 Mar 04 01:15	13°  26'50	8°49'42		2593 Aug 15 20:03	0° 	
minimum elong	2591 Mar 03 22:32	13°  31'05	8°49'36	evening rise	2593 Aug 29 21:20	17°  17'23	
morning rise	2591 Mar 06 22:15	11°  40'06			2593 Sep 09 02:55	0° 	
direct	2591 Mar 24 18:13	5°  35'45			2593 Oct 03 09:26	0° 	
greatest brilliancy	2591 Apr 02 18:44	7°  07'24	-4.8m	desc. node	2593 Oct 19 03:58	19°  18'44	
desc. node	2591 May 04 08:40	28°  22'21			2593 Oct 27 16:36	0° 	
	2591 May 06 03:34	0° 			2593 Nov 21 01:18	0° 	
morning max el	2591 May 13 03:47	6°  37'58	46°07'55		2593 Dec 15 13:14	0° 	
	2591 Jun 04 20:04	0° 			2594 Jan 09 09:12	0° 	
	2591 Jul 01 20:04	0° 			2594 Feb 04 00:43	0° 	
	2591 Jul 27 18:11	0° 		asc. node	2594 Feb 09 06:56	5°  56'27	
	2591 Aug 22 00:18	0° 			2594 Mar 03 18:52	0° 	
asc. node	2591 Aug 25 11:57	4°  11'26		evening max el	2594 Mar 03 23:03	0°  10'30	46°35'17
	2591 Sep 15 18:05	0° 			2594 Apr 11 13:56	0° 	
	2591 Oct 10 02:22	0° 		greatest brilliancy	2594 Apr 12 08:06	0°  17'49	-4.8m
	2591 Nov 03 04:15	0° 		retrograde	2594 Apr 23 01:46	2°  26'38	
morning set	2591 Nov 06 19:18	4°  13'21			2594 May 04 01:26	30°  18'08	
	2591 Nov 27 02:34	0° 		evening set	2594 May 08 22:01	27°  32'02	
desc. node	2591 Dec 15 01:35	22°  34'28		inferior conj	2594 May 14 09:13	24°  12'19	4°01'43
max. Earth dist.	2591 Dec 15 20:41	23°  34'30	1.71154 AU	minimum elong	2594 May 14 17:14	23°  59'44	3°59'35
				min. Earth dist.	2594 May 14 08:58	24°  12'43	0.28565 AU
superior conj	2591 Dec 16 17:37	24°  40'20	-0°04'02	morning rise	2594 May 20 12:44	20°  30'02	
minimum elong	2591 Dec 16 16:33	24°  36'58	0°03'59	desc. node	2594 May 31 20:26	16°  18'54	
behind sun begin	2591 Dec 15 15:04	23°  16'52		direct	2594 Jun 04 16:42	16°  01'15	
behind sun end	2591 Dec 17 18:01	25°  57'05		greatest brilliancy	2594 Jun 14 18:05	17°  51'05	-4.7m
	2591 Dec 20 23:17	0° 			2594 Jul 05 09:34	0° 	
	2592 Jan 13 19:43	0° 		morning max el	2594 Jul 23 11:07	15°  45'52	45°43'14
evening rise	2592 Jan 27 01:19	16°  37'39			2594 Aug 06 17:49	0° 	
	2592 Feb 06 17:05	0° 			2594 Sep 03 07:58	0° 	
	2592 Mar 01 17:12	0° 		asc. node	2594 Sep 21 23:58	21°  30'03	
	2592 Mar 25 22:27	0° 			2594 Sep 29 05:06	0° 	
asc. node	2592 Apr 06 04:53	13°  49'45			2594 Oct 24 03:30	0° 	
	2592 Apr 19 11:42	0° 			2594 Nov 17 12:19	0° 	
	2592 May 14 12:28	0° 			2594 Dec 11 13:44	0° 	
	2592 Jun 09 06:59	0° 			2595 Jan 04 11:46	0° 	
	2592 Jul 06 10:12	0° 		desc. node	2595 Jan 11 13:21	8°  52'38	
evening max el	2592 Jul 26 02:38	19°  56'47	45°34'17	morning set	2595 Jan 21 09:50	21°  15'32	
desc. node	2592 Jul 26 18:09	20°  33'45			2595 Jan 28 08:46	0° 	
	2592 Aug 06 03:46	0° 			2595 Feb 21 06:13	0° 	
greatest brilliancy	2592 Sep 03 14:19	18°  08'15	-4.8m				
retrograde	2592 Sep 12 20:35	19°  41'58		superior conj	2595 Mar 03 20:02	13°  15'12	-1°25'27
evening set	2592 Sep 30 15:25	13°  49'45		minimum elong	2595 Mar 03 16:37	13°  04'32	1°25'26
inferior conj	2592 Oct 04 00:08	11°  47'13	-8°17'58	max. Earth dist.	2595 Mar 07 11:34	17°  49'08	1.71658 AU
minimum elong	2592 Oct 04 06:27	11°  43'28	8°17'23		2595 Mar 17 05:29	0° 	
min. Earth dist.	2592 Oct 04 21:33	11°  14'11	0.28075 AU		2595 Apr 10 08:00	0° 	
morning rise	2592 Oct 07 21:09	9°  25'35		evening rise	2595 Apr 12 19:16	3°  03'39	
direct	2592 Oct 25 04:42	3°  41'17		asc. node	2595 May 04 16:46	0°  05'45	
greatest brilliancy	2592 Nov 05 10:32	6°  01'19	-4.8m		2595 May 04 14:54	0° 	
asc. node	2592 Nov 16 21:25	12°  16'47			2595 May 29 02:52	0° 	
	2592 Dec 08 00:33	0° 			2595 Jun 22 20:45	0° 	
morning max el	2592 Dec 14 17:58	6°  13'32	46°49'04		2595 Jul 17 22:36	0° 	
	2593 Jan 05 10:23	0° 			2595 Aug 12 12:53	0° 	
	2593 Jan 31 08:07	0° 		desc. node	2595 Aug 24 06:03	13°  42'54	
	2593 Feb 25 08:53	0° 			2595 Sep 08 00:50	0° 	
desc. node	2593 Mar 08 11:04	13°  26'55			2595 Oct 06 12:17	0° 	
	2593 Mar 22 01:06	0° 		evening max el	2595 Oct 08 02:22	1°  33'31	46°34'32
	2593 Apr 15 13:58	0° 			2595 Nov 13 19:00	0° 	
	2593 May 10 02:00	0° 		greatest brilliancy	2595 Nov 17 08:18	1°  24'59	-4.9m
	2593 Jun 03 14:00	0° 		retrograde	2595 Nov 27 00:25	3°  09'50	
morning set	2593 Jun 18 09:56	18° 10'00			2595 Dec 09 13:31	30° 18'08	
	2593 Jun 28 01:34	0°		evening set	2595 Dec 11 06:59	29° 47'23	
asc. node	2593 Jun 29 14:19	1° 52'42		asc. node	2595 Dec 15 09:16	26° 47'23	
	2593 Jul 22 11:45	0°		inferior conj	2595 Dec 17 12:34	25° 49'49	0°33'24

minimum elong	2595 Dec 17 11:17	25° ♁ 31'46	0°32'58	asc. node	2598 Jun 01 04:30	15° ♁ 51'08	
min. Earth dist.	2595 Dec 17 12:48	25° ♁ 29'28	0.26484 AU		2598 Jun 12 16:42	0° ♁	
morning rise	2595 Dec 23 15:32	21° ♁ 56'14		evening rise	2598 Jun 21 17:05	11° ♁ 04'16	
direct	2596 Jan 06 23:41	17° ♁ 51'00			2598 Jul 07 03:26	0° ♁	
greatest brilliancy	2596 Jan 17 02:43	19° ♁ 48'36	-4.9m		2598 Jul 31 15:53	0° ♁	
	2596 Feb 03 09:41	0° ♁			2598 Aug 25 07:01	0° ♁	
morning max el	2596 Feb 26 11:36	20° ♁ 50'28	46°51'29		2598 Sep 19 02:32	0° ♁	
	2596 Mar 06 08:50	0° ♁		desc. node	2598 Sep 20 18:05	1° ♁ 58'57	
	2596 Apr 02 13:24	0° ♁			2598 Oct 14 04:40	0° ♁	
desc. node	2596 Apr 04 23:04	2° ♁ 44'35			2598 Nov 08 17:49	0° ♁	
	2596 Apr 28 10:21	0° ♁			2598 Dec 05 07:18	0° ♁	
	2596 May 23 18:16	0° ♁		evening max el	2598 Dec 19 20:48	15° ♁ 23'49	47°16'49
	2596 Jun 17 19:30	0° ♁			2599 Jan 04 02:48	0° ♁	
	2596 Jul 12 15:42	0° ♁		asc. node	2599 Jan 11 21:09	6° ♁ 28'20	
asc. node	2596 Jul 27 02:09	17° ♁ 33'21		greatest brilliancy	2599 Jan 29 12:52	17° ♁ 04'36	-4.9m
	2596 Aug 06 06:39	0° ♁		retrograde	2599 Feb 08 18:46	19° ♁ 05'00	
morning set	2596 Aug 25 06:03	23° ♁ 18'49		evening set	2599 Feb 26 10:35	13° ♁ 02'11	
	2596 Aug 30 16:07	0° ♁		min. Earth dist.	2599 Feb 28 22:08	11° ♁ 30'13	0.27420 AU
	2596 Sep 23 20:57	0° ♁		inferior conj	2599 Mar 01 15:04	11° ♁ 03'44	8°46'46
max. Earth dist.	2596 Sep 27 18:31	4° ♁ 50'56	1.72364 AU	minimum elong	2599 Mar 01 11:29	11° ♁ 09'20	8°46'34
				morning rise	2599 Mar 04 12:35	9° ♁ 16'15	
superior conj	2596 Oct 01 00:05	8° ♁ 52'18	1°21'36	direct	2599 Mar 22 06:55	3° ♁ 13'19	
minimum elong	2596 Oct 01 05:20	9° ♁ 08'37	1°21'32	greatest brilliancy	2599 Mar 31 08:22	4° ♁ 45'26	-4.8m
	2596 Oct 17 22:45	0° ♁		desc. node	2599 May 03 10:39	27° ♁ 24'36	
evening rise	2596 Nov 08 12:18	26° ♁ 56'16			2599 May 06 05:36	0° ♁	
	2596 Nov 10 23:05	0° ♁		morning max el	2599 May 10 16:49	4° ♁ 16'25	46°09'24
desc. node	2596 Nov 15 15:49	5° ♁ 52'25			2599 Jun 04 13:05	0° ♁	
	2596 Dec 04 22:55	0° ♁			2599 Jul 01 10:05	0° ♁	
	2596 Dec 28 23:06	0° ♁			2599 Jul 27 06:45	0° ♁	
	2597 Jan 22 01:23	0° ♁			2599 Aug 21 12:05	0° ♁	
	2597 Feb 15 09:17	0° ♁		asc. node	2599 Aug 24 14:05	3° ♁ 42'38	
asc. node	2597 Mar 08 18:58	25° ♁ 55'53			2599 Sep 15 05:27	0° ♁	
	2597 Mar 12 04:39	0° ♁			2599 Oct 09 13:32	0° ♁	
	2597 Apr 06 21:18	0° ♁			2599 Nov 02 15:20	0° ♁	
	2597 May 04 09:45	0° ♁		morning set	2599 Nov 04 09:12	2° ♁ 10'59	
evening max el	2597 May 13 21:00	9° ♁ 28'43	45°35'33		2599 Nov 26 13:37	0° ♁	
	2597 Jun 07 02:10	0° ♁		max. Earth dist.	2599 Dec 13 04:41	20° ♁ 54'00	1.71171 AU
greatest brilliancy	2597 Jun 20 17:15	7° ♁ 24'21	-4.7m				
desc. node	2597 Jun 28 08:23	9° ♁ 19'49		superior conj	2599 Dec 14 04:30	22° ♁ 08'54	-0°00'06
retrograde	2597 Jul 01 14:49	9° ♁ 31'57		minimum elong	2599 Dec 14 04:27	22° ♁ 08'45	0°00'05
evening set	2597 Jul 17 06:56	4° ♁ 50'10		behind sun begin	2599 Dec 13 03:06	20° ♁ 49'00	
inferior conj	2597 Jul 23 02:53	1° ♁ 18'45	-5°24'14	behind sun end	2599 Dec 15 05:49	23° ♁ 28'29	
minimum elong	2597 Jul 22 17:19	1° ♁ 33'45	5°22'02	desc. node	2599 Dec 14 03:36	22° ♁ 06'04	
min. Earth dist.	2597 Jul 22 23:25	1° ♁ 24'10	0.29030 AU		2599 Dec 20 10:21	0° ♁	
	2597 Jul 25 05:21	30° ♁			2600 Jan 13 06:48	0° ♁	
morning rise	2597 Jul 28 03:41	28° ♁ 14'30		evening rise	2600 Jan 24 11:49	14° ♁ 05'06	
direct	2597 Aug 13 18:59	23° ♁ 01'31			2600 Feb 06 04:13	0° ♁	
greatest brilliancy	2597 Aug 24 04:14	24° ♁ 58'07	-4.7m		2600 Mar 02 04:26	0° ♁	
	2597 Sep 03 09:12	0° ♁			2600 Mar 26 09:53	0° ♁	
morning max el	2597 Oct 02 00:30	23° ♁ 34'14	46°04'53	asc. node	2600 Apr 06 06:52	13° ♁ 20'23	
	2597 Oct 08 11:02	0° ♁			2600 Apr 19 23:31	0° ♁	
asc. node	2597 Oct 19 11:42	11° ♁ 35'22			2600 May 15 01:03	0° ♁	
	2597 Nov 05 00:35	0° ♁			2600 Jun 09 21:04	0° ♁	
	2597 Nov 30 13:51	0° ♁			2600 Jul 07 03:47	0° ♁	
	2597 Dec 25 06:06	0° ♁		evening max el	2600 Jul 24 16:42	17° ♁ 40'56	45°33'10
	2598 Jan 18 12:48	0° ♁		desc. node	2600 Jul 26 20:17	19° ♁ 43'02	
desc. node	2598 Feb 08 01:15	25° ♁ 31'11			2600 Aug 07 10:18	0° ♁	
	2598 Feb 11 15:35	0° ♁		greatest brilliancy	2600 Sep 02 02:36	15° ♁ 50'14	-4.8m
	2598 Mar 07 17:24	0° ♁		retrograde	2600 Sep 11 10:59	17° ♁ 25'34	
	2598 Mar 31 20:02	0° ♁		evening set	2600 Sep 29 07:22	11° ♁ 29'50	
morning set	2598 Apr 07 08:24	8° ♁ 05'32		inferior conj	2600 Oct 02 14:32	9° ♁ 29'37	-8°23'57
	2598 Apr 25 00:37	0° ♁		minimum elong	2600 Oct 02 20:09	9° ♁ 20'58	8°23'28
				min. Earth dist.	2600 Oct 03 11:12	8° ♁ 57'46	0.28142 AU
superior conj	2598 May 15 13:56	25° ♁ 23'38	-0°38'18	morning rise	2600 Oct 06 08:38	7° ♁ 12'28	
minimum elong	2598 May 15 21:37	25° ♁ 47'20	0°37'57	direct	2600 Oct 23 19:51	1° ♁ 22'38	
max. Earth dist.	2598 May 18 00:05	28° ♁ 22'52	1.73145 AU	greatest brilliancy	2600 Nov 04 01:31	3° ♁ 42'46	-4.8m
	2598 May 19 07:36	0° ♁		asc. node	2600 Nov 16 23:24	10° ♁ 57'58	

	2600 Dec 09 01:10	0°♄	
morning max el	2600 Dec 13 09:29	4°♄20'33	46°48'09
	2601 Jan 06 03:12	0°♂	
	2601 Jan 31 22:17	0°♂	
	2601 Feb 25 21:44	0°♂	
desc. node	2601 Mar 08 13:11	12°♂55'36	
	2601 Mar 22 13:09	0°♂	
	2601 Apr 16 01:29	0°♂	
	2601 May 10 13:08	0°♂	
	2601 Jun 04 00:54	0°♂	
morning set	2601 Jun 17 03:39	16°♂04'02	
	2601 Jun 28 12:19	0°♂	
asc. node	2601 Jun 29 16:24	1°♂26'07	
max. Earth dist.	2601 Jul 22 00:28	28°♂52'22	1.73506 AU
	2601 Jul 22 22:28	0°♂	
superior conj	2601 Jul 23 17:52	0°♂59'43	0°53'07
minimum elong	2601 Jul 23 09:16	0°♂33'16	0°52'46
	2601 Aug 16 06:48	0°♂	
evening rise	2601 Aug 28 15:04	15°♂14'31	
	2601 Sep 09 13:49	0°♂	
	2601 Oct 03 20:35	0°♄	
desc. node	2601 Oct 19 05:55	18°♄59'34	
	2601 Oct 28 04:09	0°♂	
	2601 Nov 21 13:20	0°♂	
	2601 Dec 16 01:55	0°♂	
	2602 Jan 09 22:54	0°♂	