

superior conj	2101 Mar 02 12:26	11° <del>♁</del> 44'45	-1°-25'-48	inferior conj	2103 Jul 22 04:22	28° <del>♁</del> 50'10	-5°-37'-37
minimum elong	2101 Mar 02 10:14	11° <del>♁</del> 37'52	1°25'49	minimum elong	2103 Jul 21 18:39	29° <del>♁</del> 05'22	5°35'29
max. Earth dist.	2101 Mar 06 08:14	16° <del>♁</del> 31'36	1.71801 AU	min. Earth dist.	2103 Jul 22 02:29	28° <del>♁</del> 53'07	0.29005 AU
	2101 Mar 17 03:26	0° <del>♁</del>		morning rise	2103 Jul 27 02:54	25° <del>♁</del> 49'23	
	2101 Apr 10 07:06	0° <del>♁</del>		direct	2103 Aug 12 20:32	20° <del>♁</del> 33'02	
evening rise	2101 Apr 11 06:13	1° <del>♁</del> 11'28		greatest brilliancy	2103 Aug 26 20:58	23° <del>♁</del> 59'18	-4.5m
asc. node	2101 May 01 11:52	26° <del>♁</del> 08'48			2103 Sep 06 05:50	0° <del>♁</del>	
	2101 May 04 15:09	0° <del>♁</del>		morning max el	2103 Oct 01 04:53	21° <del>♁</del> 16'49	46°09'00
	2101 May 29 04:07	0° <del>♁</del>			2103 Oct 09 20:15	0° <del>♁</del>	
	2101 Jun 22 22:50	0° <del>♁</del>		asc. node	2103 Oct 17 06:53	7° <del>♁</del> 52'04	
	2101 Jul 18 01:27	0° <del>♁</del>			2103 Nov 06 02:22	0° <del>♁</del>	
	2101 Aug 12 16:26	0° <del>♁</del>			2103 Dec 01 12:09	0° <del>♁</del>	
desc. node	2101 Aug 21 01:07	9° <del>♁</del> 35'44			2103 Dec 26 02:46	0° <del>♁</del>	
	2101 Sep 08 05:22	0° <del>♁</del>			2104 Jan 19 09:00	0° <del>♁</del>	
evening max el	2101 Oct 06 13:38	29° <del>♁</del> 45'20	46°41'47	desc. node	2104 Feb 05 20:19	21° <del>♁</del> 43'05	
	2101 Oct 06 19:37	0° <del>♁</del>			2104 Feb 12 12:04	0° <del>♁</del>	
greatest brilliancy	2101 Nov 14 08:36	29° <del>♁</del> 16'16	-4.6m		2104 Mar 07 14:40	0° <del>♁</del>	
	2101 Nov 16 08:23	0° <del>♁</del>			2104 Mar 31 18:22	0° <del>♁</del>	
retrograde	2101 Nov 25 15:14	1° <del>♁</del> 37'25		morning set	2104 Apr 05 18:30	6° <del>♁</del> 12'18	
	2101 Dec 04 12:46	30° <del>♁</del>			2104 Apr 25 00:06	0° <del>♁</del>	
evening set	2101 Dec 09 21:06	27° <del>♁</del> 35'06		superior conj	2104 May 13 18:26	23° <del>♁</del> 08'43	0°-35'-13
asc. node	2101 Dec 12 04:28	26° <del>♁</del> 18'15		minimum elong	2104 May 14 01:32	23° <del>♁</del> 30'34	0°34'55
inferior conj	2101 Dec 16 03:00	23° <del>♁</del> 56'58	1°01'28	max. Earth dist.	2104 May 15 19:00	25° <del>♁</del> 38'14	1.73264 AU
minimum elong	2101 Dec 16 00:39	24° <del>♁</del> 00'33	1°00'42		2104 May 19 08:03	0° <del>♁</del>	
min. Earth dist.	2101 Dec 16 00:05	24° <del>♁</del> 01'24	0.26432 AU	asc. node	2104 May 28 23:49	11° <del>♁</del> 52'56	
morning rise	2101 Dec 22 04:15	20° <del>♁</del> 25'47			2104 Jun 12 17:44	0° <del>♁</del>	
direct	2102 Jan 05 12:54	16° <del>♁</del> 19'33		evening rise	2104 Jun 19 16:24	8° <del>♁</del> 31'29	
greatest brilliancy	2102 Jan 17 11:22	19° <del>♁</del> 00'18	-4.7m		2104 Jul 07 04:37	0° <del>♁</del>	
	2102 Feb 03 22:16	0° <del>♁</del>			2104 Jul 31 16:55	0° <del>♁</del>	
morning max el	2102 Feb 24 23:04	19° <del>♁</del> 11'38	46°48'18		2104 Aug 25 07:45	0° <del>♁</del>	
	2102 Mar 07 10:19	0° <del>♁</del>		desc. node	2104 Sep 17 13:02	28° <del>♁</del> 06'13	
desc. node	2102 Apr 02 17:59	29° <del>♁</del> 03'25			2104 Sep 19 02:48	0° <del>♁</del>	
	2102 Apr 03 13:52	0° <del>♁</del>			2104 Oct 14 04:21	0° <del>♁</del>	
	2102 Apr 29 11:21	0° <del>♁</del>			2104 Nov 08 17:07	0° <del>♁</del>	
	2102 May 24 20:03	0° <del>♁</del>			2104 Dec 05 07:35	0° <del>♁</del>	
	2102 Jun 18 21:43	0° <del>♁</del>		evening max el	2104 Dec 18 05:30	13° <del>♁</del> 37'48	47°18'01
	2102 Jul 13 17:45	0° <del>♁</del>			2105 Jan 04 11:27	0° <del>♁</del>	
asc. node	2102 Jul 24 21:27	13° <del>♁</del> 34'16		asc. node	2105 Jan 08 16:28	3° <del>♁</del> 30'16	
	2102 Aug 07 07:56	0° <del>♁</del>		greatest brilliancy	2105 Jan 25 06:13	14° <del>♁</del> 15'29	-4.7m
morning set	2102 Aug 24 05:39	20° <del>♁</del> 48'01		retrograde	2105 Feb 07 04:12	17° <del>♁</del> 22'32	
	2102 Aug 31 16:20	0° <del>♁</del>		evening set	2105 Feb 24 22:27	11° <del>♁</del> 15'24	
	2102 Sep 24 20:01	0° <del>♁</del>		min. Earth dist.	2105 Feb 27 08:45	9° <del>♁</del> 45'02	0.27555 AU
max. Earth dist.	2102 Sep 26 20:01	2° <del>♁</del> 29'31	1.72213 AU	inferior conj	2105 Feb 28 01:34	9° <del>♁</del> 18'38	8°47'34
				minimum elong	2105 Feb 27 22:59	9° <del>♁</del> 22'42	8°47'29
superior conj	2102 Sep 30 02:30	6° <del>♁</del> 34'04	1°20'36	morning rise	2105 Mar 02 23:42	7° <del>♁</del> 29'53	
minimum elong	2102 Sep 30 08:22	6° <del>♁</del> 52'23	1°20'30	direct	2105 Mar 20 18:43	1° <del>♁</del> 25'56	
	2102 Oct 18 20:48	0° <del>♁</del>		greatest brilliancy	2105 Mar 31 12:43	3° <del>♁</del> 33'30	-4.6m
evening rise	2102 Nov 07 21:38	25° <del>♁</del> 03'38		desc. node	2105 Apr 30 05:41	24° <del>♁</del> 01'01	
	2102 Nov 11 20:20	0° <del>♁</del>			2105 May 06 16:38	0° <del>♁</del>	
desc. node	2102 Nov 13 10:51	2° <del>♁</del> 00'34		morning max el	2105 May 09 02:05	2° <del>♁</del> 18'03	46°05'21
	2102 Dec 05 19:36	0° <del>♁</del>			2105 Jun 04 19:30	0° <del>♁</del>	
	2102 Dec 29 19:33	0° <del>♁</del>			2105 Jul 01 15:08	0° <del>♁</del>	
	2103 Jan 22 22:10	0° <del>♁</del>			2105 Jul 27 10:37	0° <del>♁</del>	
	2103 Feb 16 07:09	0° <del>♁</del>		asc. node	2105 Aug 21 09:11	29° <del>♁</del> 44'23	
asc. node	2103 Mar 06 14:05	22° <del>♁</del> 07'22			2105 Aug 21 14:22	0° <del>♁</del>	
	2103 Mar 13 04:34	0° <del>♁</del>			2105 Sep 15 05:57	0° <del>♁</del>	
	2103 Apr 08 00:43	0° <del>♁</del>			2105 Oct 09 12:22	0° <del>♁</del>	
	2103 May 05 20:07	0° <del>♁</del>		greatest brilliancy	2105 Oct 28 20:00	24° <del>♁</del> 06'30	-3.9m
evening max el	2103 May 13 01:06	7° <del>♁</del> 08'37	45°30'54	morning set	2105 Nov 02 17:39	0° <del>♁</del> 14'53	
	2103 Jun 09 23:20	0° <del>♁</del>			2105 Nov 02 12:54	0° <del>♁</del>	
greatest brilliancy	2103 Jun 16 14:49	3° <del>♁</del> 35'19	-4.5m		2105 Nov 26 10:22	0° <del>♁</del>	
desc. node	2103 Jun 26 03:32	6° <del>♁</del> 38'49		desc. node	2105 Dec 10 22:43	18° <del>♁</del> 15'29	
retrograde	2103 Jun 30 16:36	7° <del>♁</del> 02'01					
evening set	2103 Jul 16 10:20	2° <del>♁</del> 18'31		superior conj	2105 Dec 12 20:08	20° <del>♁</del> 38'20	0°-4'-33
	2103 Jul 20 07:35	30° <del>♁</del>					

minimum elong	2105 Dec 12 18:55	20°♁34'31	0°04'31	morning rise	2108 May 16 07:57	15°♄59'26	
behind sun begin	2105 Dec 11 17:31	19°♁14'36		desc. node	2108 May 27 17:36	11°♄46'43	
behind sun end	2105 Dec 13 20:20	21°♁54'27		direct	2108 May 31 13:18	11°♄29'16	
max. Earth dist.	2105 Dec 12 09:52	20°♁06'00	1.71110 AU	greatest brilliancy	2108 Jun 13 05:42	14°♄20'09	-4.5m
	2105 Dec 20 06:42	0°♁			2108 Jul 06 20:30	0°♄	
	2106 Jan 13 03:11	0°♁		morning max el	2108 Jul 19 08:14	11°♄15'20	45°43'28
evening rise	2106 Jan 23 06:37	12°♁44'19			2108 Aug 06 22:19	0°♄	
	2106 Feb 06 01:03	0°♁			2108 Sep 03 03:37	0°♄	
	2106 Mar 02 02:11	0°♁		asc. node	2108 Sep 17 21:08	17°♄03'22	
	2106 Mar 26 09:00	0°♁			2108 Sep 28 19:43	0°♄	
asc. node	2106 Apr 03 02:03	9°♄26'31			2108 Oct 23 14:44	0°♄	
	2106 Apr 20 00:18	0°♄			2108 Nov 16 21:22	0°♄	
	2106 May 15 03:49	0°♄			2108 Dec 10 21:34	0°♁	
	2106 Jun 10 02:25	0°♄			2109 Jan 03 19:08	0°♁	
	2106 Jul 07 13:31	0°♄		desc. node	2109 Jan 07 10:30	4°♁34'28	
evening max el	2106 Jul 23 00:03	15°♄28'37	45°35'43	morning set	2109 Jan 17 14:15	17°♁20'06	
desc. node	2106 Jul 23 15:19	16°♄04'57			2109 Jan 27 16:14	0°♁	
	2106 Aug 08 10:33	0°♄			2109 Feb 20 14:14	0°♁	
greatest brilliancy	2106 Aug 29 15:43	13°♄03'02	-4.5m				
retrograde	2106 Sep 09 19:39	15°♄17'00		superior conj	2109 Feb 27 23:49	9°♁15'44	-1°-25'-22
evening set	2106 Sep 27 13:38	9°♄25'05		minimum elong	2109 Feb 27 20:37	9°♁05'41	1°25'22
inferior conj	2106 Sep 30 21:51	7°♄23'40	-8°-19'-6	max. Earth dist.	2109 Mar 03 20:45	14°♁06'15	1.71751 AU
minimum elong	2106 Oct 01 04:14	7°♄13'52	8°18'30		2109 Mar 16 14:26	0°♁	
min. Earth dist.	2106 Oct 01 19:14	6°♄50'48	0.27971 AU	evening rise	2109 Apr 08 19:59	28°♁51'31	
morning rise	2106 Oct 04 18:30	5°♄03'08			2109 Apr 09 18:07	0°♁	
	2106 Oct 16 07:20	30°♄		asc. node	2109 Apr 30 14:01	25°♁41'16	
direct	2106 Oct 22 01:25	29°♄			2109 May 04 02:15	0°♄	
	2106 Oct 27 23:18	0°♄			2109 May 28 15:27	0°♄	
greatest brilliancy	2106 Nov 05 11:26	3°♄04'23	-4.6m		2109 Jun 22 10:36	0°♄	
asc. node	2106 Nov 13 18:39	7°♄56'56			2109 Jul 17 13:57	0°♄	
	2106 Dec 09 06:45	0°♄			2109 Aug 12 06:20	0°♄	
morning max el	2106 Dec 11 16:52	2°♄26'30	46°50'50	desc. node	2109 Aug 20 03:06	8°♄59'57	
	2107 Jan 06 02:10	0°♁			2109 Sep 07 22:04	0°♄	
	2107 Jan 31 19:37	0°♁		evening max el	2109 Oct 04 03:47	27°♄24'16	46°39'17
	2107 Feb 25 19:08	0°♁			2109 Oct 06 20:00	0°♁	
desc. node	2107 Mar 05 08:07	9°♁08'34		greatest brilliancy	2109 Nov 11 22:22	26°♁48'58	-4.6m
	2107 Mar 22 11:22	0°♁		retrograde	2109 Nov 23 03:13	29°♁07'33	
	2107 Apr 16 00:51	0°♁		evening set	2109 Dec 07 09:36	25°♁05'26	
	2107 May 10 13:37	0°♁		asc. node	2109 Dec 11 06:34	22°♁53'10	
	2107 Jun 04 02:08	0°♄		inferior conj	2109 Dec 13 15:03	21°♁27'41	0°36'47
morning set	2107 Jun 15 03:50	13°♄33'15		minimum elong	2109 Dec 13 13:38	21°♁29'50	0°36'20
asc. node	2107 Jun 26 11:39	27°♄26'15		min. Earth dist.	2109 Dec 13 13:43	21°♁29'42	0.26439 AU
	2107 Jun 28 13:47	0°♄		morning rise	2109 Dec 19 17:41	17°♁54'21	
max. Earth dist.	2107 Jul 19 14:09	25°♄49'13	1.73468 AU	direct	2110 Jan 03 01:28	13°♁50'12	
				greatest brilliancy	2110 Jan 15 01:14	16°♁32'08	-4.7m
superior conj	2107 Jul 21 15:50	28°♄22'09	0°55'06		2110 Feb 04 11:42	0°♁	
minimum elong	2107 Jul 21 07:10	27°♄55'28	0°54'47	morning max el	2110 Feb 22 11:46	16°♁44'31	46°49'19
	2107 Jul 22 23:38	0°♄			2110 Mar 07 06:01	0°♁	
	2107 Aug 16 07:21	0°♄		desc. node	2110 Apr 01 20:06	28°♁25'23	
evening rise	2107 Aug 26 13:28	12°♄40'38			2110 Apr 03 05:13	0°♁	
	2107 Sep 09 13:37	0°♄			2110 Apr 29 00:46	0°♁	
	2107 Oct 03 19:36	0°♄			2110 May 24 08:23	0°♁	
desc. node	2107 Oct 16 01:01	15°♄06'41			2110 Jun 18 09:25	0°♄	
	2107 Oct 28 02:21	0°♁			2110 Jul 13 05:02	0°♄	
	2107 Nov 21 10:49	0°♁		asc. node	2110 Jul 23 23:22	13°♄06'06	
	2107 Dec 15 23:08	0°♁			2110 Aug 06 18:59	0°♄	
	2108 Jan 09 20:49	0°♁		morning set	2110 Aug 21 22:56	18°♄39'24	
	2108 Feb 04 17:07	0°♁			2110 Aug 31 03:16	0°♄	
asc. node	2108 Feb 06 04:09	1°♁38'17			2110 Sep 24 06:57	0°♄	
evening max el	2108 Feb 28 20:23	25°♁50'56	46°31'16	max. Earth dist.	2110 Sep 24 09:03	0°♄06'32	1.72264 AU
	2108 Mar 04 01:30	0°♁					
greatest brilliancy	2108 Apr 04 06:33	24°♁08'34	-4.6m	superior conj	2110 Sep 27 18:35	4°♄20'27	1°21'36
retrograde	2108 Apr 18 20:54	27°♁57'13		minimum elong	2110 Sep 27 23:47	4°♄36'40	1°21'32
evening set	2108 May 04 16:54	23°♁02'10			2110 Oct 18 07:51	0°♄	
inferior conj	2108 May 10 04:17	19°♁41'54	4°01'38	evening rise	2110 Nov 05 10:21	22°♄38'20	
minimum elong	2108 May 10 12:16	19°♁29'22	3°59'32		2110 Nov 11 07:32	0°♁	
min. Earth dist.	2108 May 10 04:31	19°♁41'32	0.28652 AU	desc. node	2110 Nov 12 12:59	1°♁32'08	

	2110 Dec 05 06:59	0°☾		2113 May 06 16:26	0°♃
	2110 Dec 29 07:10	0°♁		2113 Jun 04 11:55	0°♄
	2111 Jan 22 10:05	0°♂		2113 Jul 01 04:53	0°♅
	2111 Feb 15 19:33	0°♆		2113 Jul 26 23:03	0°♆
asc. node	2111 Mar 05 16:07	21°♃34'37	asc. node	2113 Aug 20 11:15	29°♁15'11
	2111 Mar 12 17:51	0°♄		2113 Aug 21 02:07	0°♇
	2111 Apr 07 15:51	0°♅		2113 Sep 14 17:20	0°♁
	2111 May 05 16:19	0°♆		2113 Oct 08 23:36	0°♁
evening max el	2111 May 10 16:04	4°♁54'48 45°32'01	morning set	2113 Oct 31 07:20	27°♁52'25
	2111 Jun 11 10:07	0°♇		2113 Nov 02 00:04	0°♁
greatest brilliancy	2111 Jun 14 05:40	1°♇24'02 -4.5m		2113 Nov 25 21:31	0°♁
desc. node	2111 Jun 25 05:31	4°♇41'29			
retrograde	2111 Jun 28 08:11	4°♇52'30	superior conj	2113 Dec 10 06:42	18°♁05'25 0°00'-35
evening set	2111 Jul 14 00:18	0°♇11'58	minimum elong	2113 Dec 10 06:31	18°♁04'53 0°00'36
	2111 Jul 14 08:50	30°♁	behind sun begin	2113 Dec 09 04:26	16°♁42'48
inferior conj	2111 Jul 19 20:39	26°♁40'29 -5°-22'-20	behind sun end	2113 Dec 11 08:37	19°♁26'59
minimum elong	2111 Jul 19 11:06	26°♁55'28 5°20'10	max. Earth dist.	2113 Dec 09 18:46	17°♁27'52 1.71122 AU
min. Earth dist.	2111 Jul 19 18:54	26°♁43'14 0.29008 AU	desc. node	2113 Dec 10 00:44	17°♁46'37
morning rise	2111 Jul 24 21:44	23°♁35'44		2113 Dec 19 17:52	0°☾
direct	2111 Aug 10 12:22	18°♁23'11		2114 Jan 12 14:22	0°♁
greatest brilliancy	2111 Aug 24 12:16	21°♁47'57 -4.5m	evening rise	2114 Jan 20 17:04	10°♁11'24
	2111 Sep 06 23:38	0°♇		2114 Feb 05 12:17	0°♂
morning max el	2111 Sep 28 19:09	18°♇59'50 46°07'41		2114 Mar 01 13:31	0°♃
	2111 Oct 09 15:24	0°♁		2114 Mar 25 20:32	0°♄
asc. node	2111 Oct 16 08:58	7°♁10'12	asc. node	2114 Apr 02 04:09	8°♄57'24
	2111 Nov 05 17:17	0°♁		2114 Apr 19 12:16	0°♅
	2111 Dec 01 01:25	0°♁		2114 May 14 16:37	0°♆
	2111 Dec 25 15:13	0°♁		2114 Jun 09 16:56	0°♇
	2112 Jan 18 20:57	0°☾		2114 Jul 07 08:07	0°♁
desc. node	2112 Feb 04 22:17	21°☾12'45	evening max el	2114 Jul 20 14:58	13°♁14'30 45°34'24
	2112 Feb 11 23:43	0°♁	desc. node	2114 Jul 22 17:20	15°♁13'41
	2112 Mar 07 02:05	0°♂		2114 Aug 08 22:53	0°♁
	2112 Mar 31 05:35	0°♃	greatest brilliancy	2114 Aug 27 02:04	10°♁42'26 -4.5m
morning set	2112 Apr 03 08:37	3°♃52'39	retrograde	2114 Sep 07 09:59	12°♁59'40
	2112 Apr 24 11:10	0°♄	evening set	2114 Sep 25 05:29	7°♁04'25
			inferior conj	2114 Sep 28 12:08	5°♁05'13 -8°-25'-1
superior conj	2112 May 11 10:46	20°♄57'23 0°-38'-15	minimum elong	2114 Sep 28 17:47	4°♁56'31 8°24'34
minimum elong	2112 May 11 18:23	21°♄20'49 0°37'56	min. Earth dist.	2114 Sep 29 08:34	4°♁33'48 0.28039 AU
max. Earth dist.	2112 May 13 13:18	23°♄33'01 1.73226 AU	morning rise	2114 Oct 02 05:49	2°♁49'06
	2112 May 18 19:01	0°♅		2114 Oct 07 11:31	30°♁
asc. node	2112 May 28 01:49	11°♅25'23	direct	2114 Oct 19 16:54	27°♁00'03
	2112 Jun 12 04:42	0°♆		2114 Nov 01 11:44	0°♁
evening rise	2112 Jun 17 10:40	6°♆26'32	greatest brilliancy	2114 Nov 03 03:21	0°♁46'05 -4.6m
	2112 Jul 06 15:44	0°♇	asc. node	2114 Nov 12 20:42	6°♁37'46
	2112 Jul 31 04:19	0°♁		2114 Dec 09 05:38	0°♁
	2112 Aug 24 19:37	0°♁	morning max el	2114 Dec 09 08:40	0°♁07'42 46°49'54
desc. node	2112 Sep 16 15:09	27°♁35'01		2115 Jan 05 18:38	0°♁
	2112 Sep 18 15:21	0°♁		2115 Jan 31 09:42	0°☾
	2112 Oct 13 17:55	0°♁		2115 Feb 25 07:59	0°♁
	2112 Nov 08 08:28	0°☾	desc. node	2115 Mar 04 10:16	8°♁36'53
	2112 Dec 05 02:48	0°♁		2115 Mar 21 23:27	0°♂
evening max el	2112 Dec 15 18:44	11°♁11'28 47°18'15		2115 Apr 15 12:25	0°♃
	2113 Jan 04 21:59	0°♂		2115 May 10 00:48	0°♄
asc. node	2113 Jan 07 18:21	2°♂17'05		2115 Jun 03 13:05	0°♅
greatest brilliancy	2113 Jan 22 21:50	11°♂53'16 -4.7m	morning set	2115 Jun 12 21:51	11°♅28'03
retrograde	2113 Feb 04 18:17	14°♂59'20	asc. node	2115 Jun 25 13:36	26°♅58'59
evening set	2113 Feb 22 10:19	8°♂55'56		2115 Jun 28 00:37	0°♆
min. Earth dist.	2113 Feb 24 22:23	7°♂23'10 0.27504 AU	max. Earth dist.	2115 Jul 17 12:53	23°♆58'14 1.73488 AU
inferior conj	2113 Feb 25 15:37	6°♂56'11 8°44'47			
minimum elong	2113 Feb 25 12:09	7°♂01'36 8°44'37	superior conj	2115 Jul 19 10:15	26°♆17'47 0°52'41
morning rise	2113 Feb 28 14:10	5°♂06'57	minimum elong	2115 Jul 19 01:43	25°♆51'33 0°52'20
	2113 Mar 11 13:16	30°♁		2115 Jul 22 10:26	0°♇
direct	2113 Mar 18 07:34	29°♁04'03		2115 Aug 15 18:13	0°♁
	2113 Mar 25 07:51	0°♂	evening rise	2115 Aug 24 07:16	10°♁33'30
greatest brilliancy	2113 Mar 29 02:34	1°♂12'28 -4.6m		2115 Sep 09 00:39	0°♁
desc. node	2113 Apr 29 07:50	23°♂03'45		2115 Oct 03 06:55	0°♁
morning max el	2113 May 06 16:14	29°♂59'32 46°06'49	desc. node	2115 Oct 15 03:07	14°♁37'37

	2115 Oct 27 14:04	0°♁			2118 Apr 28 13:52	0°♃		
	2115 Nov 20 23:03	0°♄			2118 May 23 20:26	0°♅		
	2115 Dec 15 12:03	0°♆			2118 Jun 17 20:48	0°♇		
	2116 Jan 09 10:52	0°♁			2118 Jul 12 16:01	0°♄		
	2116 Feb 04 09:33	0°♃		asc. node	2118 Jul 23 01:30	12°♄39'29		
asc. node	2116 Feb 05 06:18	0°♃57'55			2118 Aug 06 05:45	0°♅		
evening max el	2116 Feb 26 12:49	23°♃37'38	46°33'48	morning set	2118 Aug 19 16:24	16°♅32'15		
	2116 Mar 04 01:23	0°♅			2118 Aug 30 13:57	0°♆		
greatest brilliancy	2116 Apr 02 00:16	21°♅58'53	-4.6m	max. Earth dist.	2118 Sep 21 23:34	27°♆48'53	1.72320 AU	
retrograde	2116 Apr 16 13:44	25°♅46'00			2118 Sep 23 17:41	0°♇		
evening set	2116 May 02 11:36	20°♅47'48						
inferior conj	2116 May 07 20:28	17°♅30'46	4°19'32	superior conj	2118 Sep 25 10:49	2°♄08'05	1°22'28	
minimum elong	2116 May 08 04:52	17°♅17'33	4°17'22	minimum elong	2118 Sep 25 15:21	2°♄22'11	1°22'25	
min. Earth dist.	2116 May 07 20:16	17°♅31'05	0.28628 AU		2118 Oct 17 18:43	0°♆		
morning rise	2116 May 13 22:33	13°♅50'32		evening rise	2118 Nov 02 23:10	20°♆14'03		
desc. node	2116 May 26 19:33	9°♅25'42			2118 Nov 10 18:33	0°♁		
direct	2116 May 29 05:38	9°♅18'44		desc. node	2118 Nov 11 14:58	1°♁03'53		
greatest brilliancy	2116 Jun 10 18:43	12°♅06'40	-4.5m		2118 Dec 04 18:09	0°♄		
	2116 Jul 07 01:10	0°♇			2118 Dec 28 18:33	0°♆		
morning max el	2116 Jul 17 00:37	9°♇06'45	45°43'17		2119 Jan 21 21:47	0°♁		
	2116 Aug 06 15:25	0°♄			2119 Feb 15 07:46	0°♃		
	2116 Sep 02 17:31	0°♅		asc. node	2119 Mar 04 18:14	21°♃02'44		
asc. node	2116 Sep 16 23:15	16°♅31'29			2119 Mar 12 06:59	0°♅		
	2116 Sep 28 08:14	0°♆			2119 Apr 07 06:55	0°♇		
	2116 Oct 23 02:33	0°♇			2119 May 05 12:48	0°♄		
	2116 Nov 16 08:50	0°♆		evening max el	2119 May 08 06:55	2°♄41'40	45°33'22	
	2116 Dec 10 08:52	0°♁		greatest brilliancy	2119 Jun 11 19:46	29°♄13'15	-4.5m	
	2117 Jan 03 06:20	0°♄			2119 Jun 13 14:02	0°♅		
desc. node	2117 Jan 06 12:28	4°♄05'31		desc. node	2119 Jun 24 07:31	2°♅41'39		
morning set	2117 Jan 14 23:52	14°♄44'32		retrograde	2119 Jun 26 00:20	2°♅44'59		
	2117 Jan 27 03:21	0°♆			2119 Jul 07 21:12	30°♆		
	2117 Feb 20 01:15	0°♁		evening set	2119 Jul 11 14:39	28°♄06'51		
				inferior conj	2119 Jul 17 13:10	24°♄32'40	-5°-6'-46	
superior conj	2117 Feb 25 11:13	6°♁46'47	-1°-24'-46	minimum elong	2119 Jul 17 03:48	24°♄47'17	5°04'33	
minimum elong	2117 Feb 25 07:00	6°♁33'35	1°24'44	min. Earth dist.	2119 Jul 17 11:25	24°♄35'24	0.29010 AU	
max. Earth dist.	2117 Mar 01 09:07	11°♁40'31	1.71697 AU	morning rise	2119 Jul 22 16:47	21°♄24'14		
	2117 Mar 16 01:22	0°♃		direct	2119 Aug 08 04:17	16°♄15'09		
evening rise	2117 Apr 06 09:46	26°♃31'49		greatest brilliancy	2119 Aug 22 04:40	19°♄39'47	-4.5m	
	2117 Apr 09 05:01	0°♅			2119 Sep 07 12:09	0°♅		
asc. node	2117 Apr 29 16:03	25°♅13'53		morning max el	2119 Sep 26 10:06	16°♅46'01	46°06'15	
	2117 May 03 13:13	0°♇			2119 Oct 09 09:37	0°♆		
	2117 May 28 02:38	0°♄		asc. node	2119 Oct 15 11:00	6°♆29'48		
	2117 Jun 21 22:13	0°♅			2119 Nov 05 07:43	0°♇		
	2117 Jul 17 02:23	0°♆			2119 Nov 30 14:20	0°♆		
	2117 Aug 11 20:15	0°♇			2119 Dec 25 03:21	0°♁		
desc. node	2117 Aug 19 05:14	8°♇24'37			2120 Jan 18 08:37	0°♄		
	2117 Sep 07 15:00	0°♆		desc. node	2120 Feb 04 00:30	20°♄44'05		
evening max el	2117 Oct 01 17:19	25°♆02'06	46°36'46		2120 Feb 11 11:02	0°♆		
	2117 Oct 06 21:27	0°♁			2120 Mar 06 13:09	0°♁		
greatest brilliancy	2117 Nov 09 12:48	24°♁23'10	-4.6m		2120 Mar 30 16:29	0°♃		
retrograde	2117 Nov 20 14:41	26°♁38'47		morning set	2120 Mar 31 22:25	1°♃32'53		
evening set	2117 Dec 04 22:27	22°♁36'24			2120 Apr 23 21:55	0°♅		
asc. node	2117 Dec 10 08:30	19°♁28'08						
inferior conj	2117 Dec 11 03:16	18°♁59'32	0°12'14	superior conj	2120 May 09 03:02	18°♅46'45	0°-41'-14	
minimum elong	2117 Dec 11 02:48	19°♁00'15	0°12'04	minimum elong	2120 May 09 11:08	19°♅11'40	0°40'54	
transit middle	2117 Dec 11 02:48	19°♁00'15	0°12'04	max. Earth dist.	2120 May 11 06:19	21°♅24'43	1.73187 AU	
transit begin	2117 Dec 10 23:58	19°♁04'34			2120 May 18 05:40	0°♇		
transit end	2117 Dec 11 05:38	18°♁55'56		asc. node	2120 May 27 03:50	10°♇58'50		
min. Earth dist.	2117 Dec 11 03:48	18°♁58'44	0.26450 AU		2120 Jun 11 15:20	0°♄		
morning rise	2117 Dec 17 07:03	15°♁24'16		evening rise	2120 Jun 15 05:03	4°♄23'00		
direct	2117 Dec 31 13:43	11°♁21'45			2120 Jul 06 02:29	0°♅		
greatest brilliancy	2118 Jan 12 16:12	14°♁06'01	-4.7m		2120 Jul 30 15:20	0°♆		
	2118 Feb 04 21:27	0°♄			2120 Aug 24 07:05	0°♇		
morning max el	2118 Feb 19 23:56	14°♄16'24	46°50'17	desc. node	2120 Sep 15 17:14	27°♄04'52		
	2118 Mar 07 00:57	0°♆			2120 Sep 18 03:32	0°♆		
desc. node	2118 Mar 31 22:09	27°♆48'03			2120 Oct 13 07:13	0°♁		
	2118 Apr 02 20:10	0°♁			2120 Nov 07 23:42	0°♄		

	2120 Dec 04 22:18	0°≈			2123 Mar 21 11:20	0°✠		
evening max el	2120 Dec 13 08:40	8°≈47'42	47°18'21		2123 Apr 14 23:48	0°∇		
	2121 Jan 05 11:48	0°✠			2123 May 09 11:49	0°♁		
asc. node	2121 Jan 06 20:31	1°✠02'46			2123 Jun 02 23:51	0°♁		
greatest brilliancy	2121 Jan 20 12:28	9°✠30'03	-4.7m	morning set	2123 Jun 10 15:35	9°♁22'33		
retrograde	2121 Feb 02 08:41	12°✠36'13		asc. node	2123 Jun 24 15:43	26°♁32'48		
evening set	2121 Feb 19 21:34	6°✠36'57			2123 Jun 27 11:15	0°☾		
min. Earth dist.	2121 Feb 22 11:33	5°✠01'35	0.27451 AU	max. Earth dist.	2123 Jul 15 10:07	22°☾03'16	1.73505 AU	
inferior conj	2121 Feb 23 05:26	4°✠33'40	8°41'00					
minimum elong	2121 Feb 23 01:08	4°✠40'23	8°40'43	superior conj	2123 Jul 17 04:31	24°☾13'41	0°50'10	
morning rise	2121 Feb 26 04:53	2°✠43'22		minimum elong	2123 Jul 16 20:10	23°☾48'00	0°49'50	
	2121 Mar 03 02:09	30°☾≈			2123 Jul 21 21:03	0°♁		
direct	2121 Mar 15 20:36	26°≈42'11			2123 Aug 15 04:55	0°♁		
greatest brilliancy	2121 Mar 26 15:49	28°≈51'12	-4.6m	evening rise	2123 Aug 22 01:08	8°♁27'13		
	2121 Mar 29 09:40	0°✠			2123 Sep 08 11:30	0°♁		
desc. node	2121 Apr 28 09:51	22°✠08'16			2123 Oct 02 18:01	0°♁		
morning max el	2121 May 04 07:01	27°✠43'21	46°08'18	desc. node	2123 Oct 14 05:06	14°♁08'58		
	2121 May 06 14:52	0°∇			2123 Oct 27 01:31	0°♁		
	2121 Jun 04 03:42	0°♁			2123 Nov 20 11:01	0°☾		
	2121 Jun 30 18:11	0°♁			2123 Dec 15 00:44	0°≈		
	2121 Jul 26 11:05	0°☾			2124 Jan 09 00:47	0°✠		
asc. node	2121 Aug 19 13:24	28°☾47'24		asc. node	2124 Feb 04 08:21	0°∇17'19		
	2121 Aug 20 13:28	0°♁			2124 Feb 04 02:07	0°∇		
	2121 Sep 14 04:19	0°♁		evening max el	2124 Feb 24 04:33	21°∇22'27	46°36'00	
	2121 Oct 08 10:25	0°♁			2124 Mar 04 02:27	0°♁		
morning set	2121 Oct 28 21:29	25°♁32'41		greatest brilliancy	2124 Mar 30 18:43	19°♁49'27	-4.6m	
	2121 Nov 01 10:51	0°♁		retrograde	2124 Apr 14 05:46	23°♁33'37		
	2121 Nov 25 08:20	0°♁		evening set	2124 Apr 30 06:06	18°♁32'17		
max. Earth dist.	2121 Dec 07 04:35	14°♁53'36	1.71143 AU	inferior conj	2124 May 05 12:21	15°♁18'40	4°37'18	
				minimum elong	2124 May 05 21:07	15°♁04'51	4°35'04	
superior conj	2121 Dec 07 17:18	15°♁33'38	0°03'22	min. Earth dist.	2124 May 05 12:00	15°♁19'13	0.28603 AU	
minimum elong	2121 Dec 07 18:11	15°♁36'23	0°03'20	morning rise	2124 May 11 12:34	11°♁40'46		
behind sun begin	2121 Dec 06 16:29	14°♁15'34		desc. node	2124 May 25 21:36	7°♁08'26		
behind sun end	2121 Dec 08 19:52	16°♁57'12		direct	2124 May 26 21:26	7°♁07'16		
desc. node	2121 Dec 09 02:47	17°♁18'56		greatest brilliancy	2124 Jun 08 07:23	9°♁52'01	-4.5m	
	2121 Dec 19 04:45	0°☾			2124 Jul 07 04:10	0°♁		
	2122 Jan 12 01:19	0°≈		morning max el	2124 Jul 14 15:48	6°♁55'07	45°43'13	
evening rise	2122 Jan 18 03:08	7°≈37'58			2124 Aug 06 08:08	0°☾		
	2122 Feb 04 23:18	0°✠			2124 Sep 02 07:12	0°♁		
	2122 Mar 01 00:38	0°∇		asc. node	2124 Sep 16 01:11	15°♁59'30		
	2122 Mar 25 07:51	0°♁			2124 Sep 27 20:34	0°♁		
asc. node	2122 Apr 01 06:10	8°♁28'37			2124 Oct 22 14:13	0°♁		
	2122 Apr 19 00:02	0°♁			2124 Nov 15 20:09	0°♁		
	2122 May 14 05:17	0°☾			2124 Dec 09 19:59	0°♁		
	2122 Jun 09 07:21	0°♁			2125 Jan 02 17:20	0°☾		
	2122 Jul 07 02:53	0°♁		desc. node	2125 Jan 05 14:39	3°☾37'50		
evening max el	2122 Jul 18 06:32	11°♁02'57	45°33'13	morning set	2125 Jan 12 09:52	12°☾10'45		
desc. node	2122 Jul 21 19:31	14°♁22'50			2125 Jan 26 14:16	0°≈		
	2122 Aug 09 14:41	0°♁			2125 Feb 19 12:06	0°✠		
greatest brilliancy	2122 Aug 24 13:32	8°♁24'40	-4.5m					
retrograde	2122 Sep 05 00:20	10°♁44'02		superior conj	2125 Feb 22 22:40	4°✠18'28	-1°-23'-59	
evening set	2122 Sep 22 21:21	4°♁46'14		minimum elong	2125 Feb 22 17:28	4°✠02'10	1°23'57	
inferior conj	2122 Sep 26 02:38	2°♁48'46	-8°-30'-10	max. Earth dist.	2125 Feb 26 20:52	9°✠13'10	1.71650 AU	
minimum elong	2122 Sep 26 07:33	2°♁41'12	8°29'50		2125 Mar 15 12:12	0°∇		
min. Earth dist.	2122 Sep 26 22:01	2°♁18'56	0.28100 AU	evening rise	2125 Apr 03 23:11	24°∇11'02		
morning rise	2122 Sep 29 17:31	0°♁36'39			2125 Apr 08 15:53	0°♁		
	2122 Sep 30 18:38	30°☾♁		asc. node	2125 Apr 28 18:01	24°♁46'18		
direct	2122 Oct 17 08:45	24°♁43'01			2125 May 03 00:12	0°♁		
greatest brilliancy	2122 Oct 31 18:09	28°♁28'08	-4.6m		2125 May 27 13:50	0°☾		
	2122 Nov 03 16:11	0°♁			2125 Jun 21 09:53	0°♁		
asc. node	2122 Nov 11 22:41	5°♁22'29			2125 Jul 16 14:54	0°♁		
morning max el	2122 Dec 06 23:46	27°♁48'35	46°48'43		2125 Aug 11 10:21	0°♁		
	2122 Dec 09 03:07	0°♁		desc. node	2125 Aug 18 07:16	7°♁48'44		
	2123 Jan 05 10:28	0°♁			2125 Sep 07 08:20	0°♁		
	2123 Jan 30 23:24	0°☾		evening max el	2125 Sep 29 05:50	22°♁37'31	46°34'20	
	2123 Feb 24 20:34	0°≈			2125 Oct 07 00:22	0°♁		
desc. node	2123 Mar 03 12:19	8°≈05'33		greatest brilliancy	2125 Nov 07 03:20	21°♁57'39	-4.6m	

retrograde	2125 Nov 18 02:09	24°♁10'36		2128 Mar 30 03:30	0°♃	
evening set	2125 Dec 02 11:31	20°♁07'17		2128 Apr 23 08:47	0°♄	
inferior conj	2125 Dec 08 15:33	16°♁31'51	0°-12'-25			
minimum elong	2125 Dec 08 16:01	16°♁31'07	0°12'16	superior conj	2128 May 06 19:30	16°♃36'12 0°-44'-8
transit middle	2125 Dec 08 16:01	16°♁31'07	0°12'16	minimum elong	2128 May 07 04:01	17°♃02'28 0°43'47
transit begin	2125 Dec 08 13:15	16°♁35'21		max. Earth dist.	2128 May 09 00:58	19°♃20'59 1.73151 AU
transit end	2125 Dec 08 18:48	16°♁26'54			2128 May 17 16:28	0°♅
min. Earth dist.	2125 Dec 08 18:05	16°♁28'00	0.26461 AU	asc. node	2128 May 26 05:59	10°♅32'09
asc. node	2125 Dec 09 10:39	16°♁02'45			2128 Jun 11 02:11	0°♆
morning rise	2125 Dec 14 20:15	12°♁55'03		evening rise	2128 Jun 12 23:34	2°♆19'14
direct	2125 Dec 29 01:39	8°♁53'31			2128 Jul 05 13:30	0°♇
greatest brilliancy	2126 Jan 10 07:53	11°♁41'17	-4.7m		2128 Jul 30 02:40	0°♈
	2126 Feb 05 04:21	0°♉			2128 Aug 23 18:54	0°♉
morning max el	2126 Feb 17 12:08	11°♉48'42	46°51'20	desc. node	2128 Sep 14 19:11	26°♉33'19
	2126 Mar 06 19:14	0°♊			2128 Sep 17 16:05	0°♊
desc. node	2126 Mar 31 00:10	27°♊11'12			2128 Oct 12 20:56	0°♋
	2126 Apr 02 10:50	0°♌			2128 Nov 07 15:29	0°♌
	2126 Apr 28 02:51	0°♍			2128 Dec 04 18:44	0°♍
	2126 May 23 08:30	0°♎		evening max el	2128 Dec 10 23:29	6°♎25'19 47°18'25
	2126 Jun 17 08:16	0°♏		asc. node	2129 Jan 05 22:37	29°♎45'03
	2126 Jul 12 03:07	0°♐			2129 Jan 06 06:50	0°♏
asc. node	2126 Jul 22 03:36	12°♐12'22		greatest brilliancy	2129 Jan 18 02:47	7°♏05'27 -4.7m
	2126 Aug 05 16:37	0°♑		retrograde	2129 Jan 30 23:23	10°♏11'51
morning set	2126 Aug 17 09:33	14°♑23'46		evening set	2129 Feb 17 08:25	4°♏17'16
	2126 Aug 30 00:44	0°♒		min. Earth dist.	2129 Feb 20 00:21	2°♏39'10 0.27394 AU
max. Earth dist.	2126 Sep 19 16:26	25°♒38'14	1.72374 AU	inferior conj	2129 Feb 20 19:09	2°♏09'54 8°36'11
				minimum elong	2129 Feb 20 14:03	2°♏17'51 8°35'48
superior conj	2126 Sep 23 02:52	29°♒54'51	1°23'12	morning rise	2129 Feb 23 19:54	0°♏17'58
minimum elong	2126 Sep 23 06:41	0°♓06'42	1°23'10		2129 Feb 24 07:54	30°♓
	2126 Sep 23 04:31	0°♔		direct	2129 Mar 13 10:07	24°♓19'19
	2126 Oct 17 05:40	0°♕		greatest brilliancy	2129 Mar 24 04:07	26°♓27'55 -4.6m
evening rise	2126 Oct 31 12:01	17°♕49'41			2129 Mar 31 13:21	0°♌
	2126 Nov 10 05:40	0°♍		desc. node	2129 Apr 27 11:53	21°♌13'22
desc. node	2126 Nov 10 17:01	0°♎35'29		morning max el	2129 May 01 22:05	25°♌27'18 46°09'54
	2126 Dec 04 05:27	0°♏			2129 May 06 12:39	0°♍
	2126 Dec 28 06:03	0°♐			2129 Jun 03 19:25	0°♎
	2127 Jan 21 09:34	0°♑			2129 Jun 30 07:34	0°♏
	2127 Feb 14 20:03	0°♒			2129 Jul 25 23:20	0°♐
asc. node	2127 Mar 03 20:13	20°♒30'20		asc. node	2129 Aug 18 15:20	28°♐18'02
	2127 Mar 11 20:13	0°♓			2129 Aug 20 01:06	0°♑
	2127 Apr 06 22:14	0°♔			2129 Sep 13 15:39	0°♒
	2127 May 05 10:09	0°♕			2129 Oct 07 21:36	0°♓
evening max el	2127 May 05 21:56	0°♖28'35	45°34'36	morning set	2129 Oct 26 11:31	23°♓11'33
greatest brilliancy	2127 Jun 09 09:15	27°♖00'49	-4.5m		2129 Oct 31 21:59	0°♔
	2127 Jun 18 00:49	0°♗			2129 Nov 24 19:29	0°♕
desc. node	2127 Jun 23 09:43	0°♘36'14		max. Earth dist.	2129 Dec 04 13:24	12°♘15'16 1.71160 AU
retrograde	2127 Jun 23 16:48	0°♙36'20				
	2127 Jun 29 05:26	30°♙		superior conj	2129 Dec 05 03:50	13°♘00'38 0°07'19
evening set	2127 Jul 09 04:57	26°♙00'16		minimum elong	2129 Dec 05 05:44	13°♘06'36 0°07'13
inferior conj	2127 Jul 15 05:29	22°♙23'30	-4°-50'-28	behind sun begin	2129 Dec 04 06:07	11°♘52'21
minimum elong	2127 Jul 14 20:24	22°♙37'41	4°48'17	behind sun end	2129 Dec 06 05:20	14°♘20'51
min. Earth dist.	2127 Jul 15 03:31	22°♙26'33	0.29015 AU	desc. node	2129 Dec 08 04:54	16°♘50'27
morning rise	2127 Jul 20 11:40	19°♙11'37			2129 Dec 18 15:57	0°♚
direct	2127 Aug 05 20:18	14°♙05'44			2130 Jan 11 12:35	0°♛
greatest brilliancy	2127 Aug 19 21:36	17°♙31'16	-4.5m	evening rise	2130 Jan 15 13:08	5°♛03'13
	2127 Sep 07 21:53	0°♜			2130 Feb 04 10:39	0°♌
morning max el	2127 Sep 24 01:48	14°♜33'20	46°04'53		2130 Feb 28 12:05	0°♍
	2127 Oct 09 03:42	0°♝			2130 Mar 24 19:31	0°♎
asc. node	2127 Oct 14 13:04	5°♝49'09		asc. node	2130 Mar 31 08:12	7°♝58'58
	2127 Nov 04 22:14	0°♞			2130 Apr 18 12:08	0°♏
	2127 Nov 30 03:23	0°♟			2130 May 13 18:15	0°♐
	2127 Dec 24 15:38	0°♠			2130 Jun 08 22:11	0°♑
	2128 Jan 17 20:26	0°♡			2130 Jul 06 22:28	0°♒
desc. node	2128 Feb 03 02:27	20°♡14'05		evening max el	2130 Jul 15 21:50	8°♒49'58 45°31'51
	2128 Feb 10 22:31	0°♢		desc. node	2130 Jul 20 21:28	13°♒29'38
	2128 Mar 06 00:23	0°♣			2130 Aug 10 12:35	0°♓
morning set	2128 Mar 29 12:27	29°♣13'16		greatest brilliancy	2130 Aug 22 01:56	6°♓07'00 -4.5m

retrograde	2130 Sep 02 14:10	8°♁27'23		superior conj	2133 Feb 20 09:41	1°♁47'46	-1°-23'-1
evening set	2130 Sep 20 12:54	2°♁27'41		minimum elong	2133 Feb 20 03:32	1°♁28'29	1°22'58
inferior conj	2130 Sep 23 17:10	0°♁31'23	-8°-34'-22	max. Earth dist.	2133 Feb 24 05:41	6°♁35'41	1.71598 AU
minimum elong	2130 Sep 23 21:19	0°♁25'00	8°34'08		2133 Mar 14 23:19	0°♁	
min. Earth dist.	2130 Sep 24 11:43	0°♁02'46	0.28163 AU	evening rise	2133 Apr 01 12:18	21°♁48'25	
	2130 Sep 24 13:31	30°♁			2133 Apr 08 03:01	0°♁	
morning rise	2130 Sep 27 05:32	28°♁22'44		asc. node	2133 Apr 27 20:12	24°♁18'36	
direct	2130 Oct 15 00:21	22°♁25'00			2133 May 02 11:25	0°♁	
greatest brilliancy	2130 Oct 29 08:51	26°♁08'44	-4.6m		2133 May 27 01:17	0°♁	
	2130 Nov 05 03:19	0°♁			2133 Jun 20 21:48	0°♁	
asc. node	2130 Nov 11 00:49	4°♁08'18			2133 Jul 16 03:39	0°♁	
morning max el	2130 Dec 04 13:54	25°♁25'39	46°47'32		2133 Aug 11 00:42	0°♁	
	2130 Dec 09 00:22	0°♁		desc. node	2133 Aug 17 09:16	7°♁12'14	
	2131 Jan 05 02:28	0°♁			2133 Sep 07 02:06	0°♁	
	2131 Jan 30 13:21	0°♁		evening max el	2133 Sep 26 17:46	20°♁11'39	46°31'50
	2131 Feb 24 09:25	0°♁			2133 Oct 07 05:02	0°♁	
desc. node	2131 Mar 02 14:18	7°♁33'09		greatest brilliancy	2133 Nov 04 16:52	19°♁30'47	-4.6m
	2131 Mar 20 23:29	0°♁		retrograde	2133 Nov 15 13:50	21°♁42'19	
	2131 Apr 14 11:27	0°♁		evening set	2133 Nov 30 00:45	17°♁37'13	
	2131 May 08 23:06	0°♁		inferior conj	2133 Dec 06 03:48	14°♁03'35	0°-36'-59
	2131 Jun 02 10:53	0°♁		minimum elong	2133 Dec 06 05:14	14°♁01'25	0°36'32
morning set	2131 Jun 08 09:37	7°♁17'10		min. Earth dist.	2133 Dec 06 08:13	13°♁56'53	0.26487 AU
asc. node	2131 Jun 23 17:49	26°♁05'46		asc. node	2133 Dec 08 12:43	12°♁37'30	
	2131 Jun 26 22:09	0°♁		morning rise	2133 Dec 12 09:18	10°♁25'45	
max. Earth dist.	2131 Jul 13 06:51	20°♁06'08	1.73519 AU	direct	2133 Dec 26 13:47	6°♁24'21	
				greatest brilliancy	2134 Jan 08 00:20	9°♁16'39	-4.7m
superior conj	2131 Jul 14 23:11	22°♁10'06	0°47'37		2134 Feb 05 09:36	0°♁	
minimum elong	2131 Jul 14 15:03	21°♁45'07	0°47'18	morning max el	2134 Feb 15 01:12	9°♁22'01	46°52'19
	2131 Jul 21 07:54	0°♁			2134 Mar 06 13:27	0°♁	
	2131 Aug 14 15:51	0°♁		desc. node	2134 Mar 30 02:17	26°♁34'00	
evening rise	2131 Aug 19 19:22	6°♁21'19			2134 Apr 02 01:38	0°♁	
	2131 Sep 07 22:38	0°♁			2134 Apr 27 16:00	0°♁	
	2131 Oct 02 05:28	0°♁			2134 May 22 20:40	0°♁	
desc. node	2131 Oct 13 07:11	13°♁39'32			2134 Jun 16 19:50	0°♁	
	2131 Oct 26 13:24	0°♁			2134 Jul 11 14:17	0°♁	
	2131 Nov 19 23:26	0°♁		asc. node	2134 Jul 21 05:32	11°♁44'32	
	2131 Dec 14 13:55	0°♁			2134 Aug 05 03:33	0°♁	
	2132 Jan 08 15:15	0°♁		morning set	2134 Aug 15 03:05	12°♁16'19	
asc. node	2132 Feb 03 10:19	29°♁34'56			2134 Aug 29 11:35	0°♁	
	2132 Feb 03 19:24	0°♁		max. Earth dist.	2134 Sep 17 11:20	23°♁33'58	1.72423 AU
evening max el	2132 Feb 21 19:14	19°♁03'25	46°38'18				
	2132 Mar 04 05:20	0°♁		superior conj	2134 Sep 20 19:26	27°♁43'10	1°23'48
greatest brilliancy	2132 Mar 28 13:15	17°♁39'04	-4.6m	minimum elong	2134 Sep 20 22:31	27°♁52'45	1°23'47
retrograde	2132 Apr 11 21:30	21°♁20'31			2134 Sep 22 15:23	0°♁	
evening set	2132 Apr 28 00:44	16°♁15'50			2134 Oct 16 16:38	0°♁	
inferior conj	2132 May 03 04:18	13°♁05'56	4°54'36	evening rise	2134 Oct 29 01:29	15°♁27'19	
minimum elong	2132 May 03 13:24	12°♁51'34	4°52'21	desc. node	2134 Nov 09 19:10	0°♁07'26	
min. Earth dist.	2132 May 03 04:05	13°♁06'17	0.28575 AU		2134 Nov 09 16:47	0°♁	
morning rise	2132 May 09 02:28	9°♁30'31			2134 Dec 03 16:47	0°♁	
direct	2132 May 24 12:51	4°♁55'05			2134 Dec 27 17:38	0°♁	
desc. node	2132 May 24 23:46	4°♁55'20			2135 Jan 20 21:31	0°♁	
greatest brilliancy	2132 Jun 05 20:55	7°♁37'35	-4.5m		2135 Feb 14 08:33	0°♁	
	2132 Jul 07 05:56	0°♁		asc. node	2135 Mar 02 22:17	19°♁57'30	
morning max el	2132 Jul 12 06:22	4°♁41'22	45°43'24		2135 Mar 11 09:43	0°♁	
	2132 Aug 06 00:43	0°♁			2135 Apr 06 13:57	0°♁	
	2132 Sep 01 20:55	0°♁		evening max el	2135 May 03 13:35	28°♁16'47	45°36'09
asc. node	2132 Sep 15 03:18	15°♁27'40			2135 May 05 08:28	0°♁	
	2132 Sep 27 09:02	0°♁		greatest brilliancy	2135 Jun 06 23:09	24°♁48'56	-4.5m
	2132 Oct 22 02:04	0°♁		retrograde	2135 Jun 21 09:43	28°♁27'42	
	2132 Nov 15 07:43	0°♁		desc. node	2135 Jun 22 11:39	28°♁26'19	
	2132 Dec 09 07:26	0°♁		evening set	2135 Jul 06 19:30	23°♁53'37	
	2133 Jan 02 04:41	0°♁		inferior conj	2135 Jul 12 21:48	20°♁14'22	-4°-33'-52
desc. node	2133 Jan 04 16:40	3°♁08'31		minimum elong	2135 Jul 12 13:02	20°♁28'03	4°31'42
morning set	2133 Jan 09 19:24	9°♁34'20		min. Earth dist.	2135 Jul 12 19:21	20°♁18'12	0.29013 AU
	2133 Jan 26 01:31	0°♁		morning rise	2135 Jul 18 06:30	16°♁59'13	
	2133 Feb 18 23:16	0°♁		direct	2135 Aug 03 12:48	11°♁56'33	
				greatest brilliancy	2135 Aug 17 13:56	15°♁22'24	-4.5m

	2135 Sep 08 04:51	0°♁			2138 Feb 03 21:38	0°♁		
morning max el	2135 Sep 21 18:14	12°♁22'58	46°03'37		2138 Feb 27 23:10	0°♁		
	2135 Oct 08 21:14	0°♁			2138 Mar 24 06:51	0°♁		
asc. node	2135 Oct 13 15:09	5°♁09'23		asc. node	2138 Mar 30 10:19	7°♁30'31		
	2135 Nov 04 12:25	0°♁			2138 Apr 17 23:59	0°♁		
	2135 Nov 29 16:10	0°♁			2138 May 13 07:04	0°♁		
	2135 Dec 24 03:42	0°♁			2138 Jun 08 13:00	0°♁		
	2136 Jan 17 08:05	0°♁			2138 Jul 06 18:25	0°♁		
desc. node	2136 Feb 02 04:28	19°♁44'36		evening max el	2138 Jul 13 12:20	6°♁35'44	45°30'39	
	2136 Feb 10 09:54	0°♁		desc. node	2138 Jul 19 23:30	12°♁36'12		
	2136 Mar 05 11:34	0°♁			2138 Aug 11 18:13	0°♁		
morning set	2136 Mar 27 01:53	26°♁51'42		greatest brilliancy	2138 Aug 19 15:10	3°♁51'12	-4.5m	
	2136 Mar 29 14:31	0°♁		retrograde	2138 Aug 31 03:46	6°♁11'58		
	2136 Apr 22 19:40	0°♁		evening set	2138 Sep 18 04:10	0°♁10'57		
					2138 Sep 18 11:30	30°♁		
superior conj	2136 May 04 11:18	14°♁23'31	0°-47'-1	inferior conj	2138 Sep 21 07:48	28°♁15'23	-8°-37'-42	
minimum elong	2136 May 04 20:13	14°♁51'01	0°46'40	minimum elong	2138 Sep 21 11:07	28°♁10'15	8°37'34	
max. Earth dist.	2136 May 06 20:03	17°♁18'33	1.73111 AU	min. Earth dist.	2138 Sep 22 01:46	27°♁47'36	0.28221 AU	
	2136 May 17 03:15	0°♁		morning rise	2138 Sep 24 17:53	26°♁09'47		
asc. node	2136 May 25 07:59	10°♁05'10		direct	2138 Oct 12 15:19	20°♁08'15		
evening rise	2136 Jun 10 17:35	0°♁14'10		greatest brilliancy	2138 Oct 26 23:47	23°♁50'54	-4.6m	
	2136 Jun 10 12:58	0°♁			2138 Nov 06 03:42	0°♁		
	2136 Jul 05 00:25	0°♁		asc. node	2138 Nov 10 02:53	2°♁57'14		
	2136 Jul 29 13:54	0°♁		morning max el	2138 Dec 02 03:22	23°♁02'07	46°46'23	
	2136 Aug 23 06:38	0°♁			2138 Dec 08 20:31	0°♁		
desc. node	2136 Sep 13 21:18	26°♁02'40			2139 Jan 04 17:50	0°♁		
	2136 Sep 17 04:33	0°♁			2139 Jan 30 02:46	0°♁		
	2136 Oct 12 10:34	0°♁			2139 Feb 23 21:47	0°♁		
	2136 Nov 07 07:13	0°♁		desc. node	2139 Mar 01 16:26	7°♁02'35		
	2136 Dec 04 15:30	0°♁			2139 Mar 20 11:10	0°♁		
evening max el	2136 Dec 08 14:49	4°♁05'14	47°18'18		2139 Apr 13 22:39	0°♁		
asc. node	2137 Jan 05 00:31	28°♁25'26			2139 May 08 09:59	0°♁		
	2137 Jan 07 08:04	0°♁			2139 Jun 01 21:34	0°♁		
greatest brilliancy	2137 Jan 15 17:29	4°♁42'14	-4.7m	morning set	2139 Jun 06 03:24	5°♁11'58		
retrograde	2137 Jan 28 14:02	7°♁47'55		asc. node	2139 Jun 22 19:45	25°♁39'14		
evening set	2137 Feb 14 18:56	1°♁58'39			2139 Jun 26 08:44	0°♁		
min. Earth dist.	2137 Feb 17 12:59	0°♁17'25	0.27341 AU	max. Earth dist.	2139 Jul 11 01:41	18°♁04'02	1.73534 AU	
inferior conj	2137 Feb 18 08:47	29°♁46'37	8°30'26					
minimum elong	2137 Feb 18 02:55	29°♁55'45	8°29'54	superior conj	2139 Jul 12 17:32	20°♁06'32	0°44'59	
	2137 Feb 18 00:11	30°♁		minimum elong	2139 Jul 12 09:41	19°♁42'24	0°44'39	
morning rise	2137 Feb 21 11:10	27°♁52'26			2139 Jul 20 18:28	0°♁		
direct	2137 Mar 10 23:56	21°♁57'06			2139 Aug 14 02:29	0°♁		
greatest brilliancy	2137 Mar 21 15:48	24°♁04'18	-4.6m	evening rise	2139 Aug 17 13:18	4°♁15'36		
	2137 Apr 01 23:15	0°♁			2139 Sep 07 09:27	0°♁		
desc. node	2137 Apr 26 14:01	20°♁20'08			2139 Oct 01 16:36	0°♁		
morning max el	2137 Apr 29 12:47	23°♁10'31	46°11'15	desc. node	2139 Oct 12 09:15	13°♁11'05		
	2137 May 06 09:33	0°♁			2139 Oct 26 00:58	0°♁		
	2137 Jun 03 10:48	0°♁			2139 Nov 19 11:32	0°♁		
	2137 Jun 29 20:43	0°♁			2139 Dec 14 02:47	0°♁		
	2137 Jul 25 11:20	0°♁			2140 Jan 08 05:27	0°♁		
asc. node	2137 Aug 17 17:26	27°♁49'56		asc. node	2140 Feb 02 12:29	28°♁53'53		
	2137 Aug 19 12:29	0°♁			2140 Feb 03 12:34	0°♁		
	2137 Sep 13 02:41	0°♁		evening max el	2140 Feb 19 09:06	16°♁43'37	46°40'42	
	2137 Oct 07 08:30	0°♁			2140 Mar 04 09:14	0°♁		
morning set	2137 Oct 24 01:42	20°♁51'52		greatest brilliancy	2140 Mar 26 06:56	15°♁28'59	-4.6m	
	2137 Oct 31 08:50	0°♁		retrograde	2140 Apr 09 13:15	19°♁09'05		
	2137 Nov 24 06:20	0°♁		evening set	2140 Apr 25 19:26	14°♁00'41		
max. Earth dist.	2137 Dec 01 19:37	9°♁29'42	1.71175 AU	inferior conj	2140 Apr 30 20:20	10°♁54'44	5°11'20	
				minimum elong	2140 May 01 05:42	10°♁39'58	5°09'06	
superior conj	2137 Dec 02 14:51	10°♁30'10	0°11'11	min. Earth dist.	2140 Apr 30 20:16	10°♁54'52	0.28550 AU	
minimum elong	2137 Dec 02 17:44	10°♁39'14	0°11'02	morning rise	2140 May 06 16:17	7°♁22'09		
behind sun begin	2137 Dec 01 22:23	9°♁38'23		direct	2140 May 22 03:54	2°♁44'15		
behind sun end	2137 Dec 03 13:05	11°♁40'04		desc. node	2140 May 24 01:42	2°♁48'27		
desc. node	2137 Dec 07 06:53	16°♁22'27		greatest brilliancy	2140 Jun 03 11:25	5°♁25'40	-4.5m	
	2137 Dec 18 02:50	0°♁			2140 Jul 07 05:56	0°♁		
	2138 Jan 10 23:31	0°♁		morning max el	2140 Jul 09 21:09	2°♁29'07	45°43'30	
evening rise	2138 Jan 12 23:28	2°♁30'38			2140 Aug 05 16:38	0°♁		



	2140 Sep 01 10:14	0°♁	evening max el	2143 May 01 06:11	26°♁07'53	45°37'46
asc. node	2140 Sep 14 05:24	14°♁56'42		2143 May 05 07:27	0°♁	
	2140 Sep 26 21:08	0°♁	greatest brilliancy	2143 Jun 04 14:08	22°♁39'14	-4.5m
	2140 Oct 21 13:34	0°♁	retrograde	2143 Jun 19 02:43	26°♁19'46	
	2140 Nov 14 18:56	0°♁	desc. node	2143 Jun 21 13:41	26°♁12'36	
	2140 Dec 08 18:29	0°♁	evening set	2143 Jul 04 10:22	21°♁47'47	
desc. node	2141 Jan 01 15:39	0°♁	inferior conj	2143 Jul 10 14:12	18°♁06'03	-4°-16'-59
morning set	2141 Jan 03 18:37	2°♁40'13	minimum elong	2143 Jul 10 05:48	18°♁19'09	4°14'51
	2141 Jan 07 04:57	6°♁59'02	min. Earth dist.	2143 Jul 10 11:08	18°♁10'50	0.29010 AU
	2141 Jan 25 12:24	0°♁	morning rise	2143 Jul 16 01:17	14°♁47'42	
superior conj	2141 Feb 17 20:40	29°♁17'59	direct	2143 Aug 01 05:43	9°♁48'24	
minimum elong	2141 Feb 17 13:36	28°♁55'51	greatest brilliancy	2143 Aug 15 05:06	13°♁12'54	-4.5m
	2141 Feb 18 10:05	0°♁		2143 Sep 08 09:25	0°♁	
max. Earth dist.	2141 Feb 21 11:16	3°♁49'08	morning max el	2143 Sep 19 10:33	10°♁12'59	46°02'08
	2141 Mar 14 10:05	0°♁		2143 Oct 08 14:17	0°♁	
evening rise	2141 Mar 30 01:24	19°♁26'53	asc. node	2143 Oct 12 17:09	4°♁30'05	
	2141 Apr 07 13:46	0°♁		2143 Nov 04 02:27	0°♁	
asc. node	2141 Apr 26 22:11	23°♁51'33		2143 Nov 29 04:54	0°♁	
	2141 May 01 22:15	0°♁		2143 Dec 23 15:45	0°♁	
	2141 May 26 12:22	0°♁	desc. node	2144 Jan 16 19:42	0°♁	
	2141 Jun 20 09:23	0°♁		2144 Feb 01 06:38	19°♁15'43	
	2141 Jul 15 16:11	0°♁		2144 Feb 09 21:14	0°♁	
	2141 Aug 10 14:58	0°♁	morning set	2144 Mar 04 22:41	0°♁	
desc. node	2141 Aug 16 11:23	6°♁36'26		2144 Mar 24 15:09	24°♁29'49	
	2141 Sep 06 20:05	0°♁		2144 Mar 29 01:27	0°♁	
evening max el	2141 Sep 24 06:17	17°♁48'01		2144 Apr 22 06:27	0°♁	
	2141 Oct 07 11:30	0°♁	superior conj	2144 May 02 03:04	12°♁10'48	0°-49'-51
greatest brilliancy	2141 Nov 02 05:27	17°♁03'37	minimum elong	2144 May 02 12:20	12°♁39'25	0°49'29
retrograde	2141 Nov 13 01:57	19°♁14'46	max. Earth dist.	2144 May 04 16:23	15°♁20'02	1.73070 AU
evening set	2141 Nov 27 14:07	15°♁07'30		2144 May 16 13:59	0°♁	
inferior conj	2141 Dec 03 15:57	11°♁35'50	asc. node	2144 May 24 09:59	9°♁38'18	
minimum elong	2141 Dec 03 18:18	11°♁32'16	evening rise	2144 Jun 08 11:41	28°♁09'25	
min. Earth dist.	2141 Dec 03 21:52	11°♁26'51		2144 Jun 09 23:43	0°♁	
asc. node	2141 Dec 07 14:38	9°♁14'26		2144 Jul 04 11:20	0°♁	
morning rise	2141 Dec 09 22:03	7°♁57'31		2144 Jul 29 01:06	0°♁	
direct	2141 Dec 24 02:17	3°♁55'49		2144 Aug 22 18:20	0°♁	
greatest brilliancy	2142 Jan 05 16:00	6°♁52'02	desc. node	2144 Sep 12 23:22	25°♁31'48	
	2142 Feb 05 12:40	0°♁		2144 Sep 16 17:03	0°♁	
morning max el	2142 Feb 12 15:12	6°♁58'38		2144 Oct 12 00:23	0°♁	
	2142 Mar 06 06:55	0°♁		2144 Nov 06 23:23	0°♁	
desc. node	2142 Mar 29 04:18	25°♁57'45		2144 Dec 04 13:18	0°♁	
	2142 Apr 01 15:56	0°♁	evening max el	2144 Dec 06 06:06	1°♁44'10	47°17'56
	2142 Apr 27 04:44	0°♁	asc. node	2145 Jan 04 02:41	27°♁02'34	
	2142 May 22 08:29	0°♁		2145 Jan 08 20:28	0°♁	
	2142 Jun 16 07:03	0°♁	greatest brilliancy	2145 Jan 13 09:19	2°♁19'10	-4.7m
	2142 Jul 11 01:07	0°♁	retrograde	2145 Jan 26 04:14	5°♁22'19	
asc. node	2142 Jul 20 07:39	11°♁18'06		2145 Feb 11 15:00	30°♁	
	2142 Aug 04 14:12	0°♁	evening set	2145 Feb 12 05:03	29°♁39'09	
morning set	2142 Aug 12 20:39	10°♁09'51	min. Earth dist.	2145 Feb 15 01:47	27°♁53'50	0.27281 AU
	2142 Aug 28 22:12	0°♁	inferior conj	2145 Feb 15 22:13	27°♁22'02	8°23'48
max. Earth dist.	2142 Sep 15 05:24	21°♁27'41	minimum elong	2145 Feb 15 15:37	27°♁32'19	8°23'07
			morning rise	2145 Feb 19 02:29	25°♁25'03	
superior conj	2142 Sep 18 11:52	25°♁31'42	direct	2145 Mar 08 13:19	19°♁33'50	
minimum elong	2142 Sep 18 14:13	25°♁39'00	greatest brilliancy	2145 Mar 19 03:16	21°♁39'23	-4.6m
	2142 Sep 22 02:05	0°♁		2145 Apr 02 23:46	0°♁	
	2142 Oct 16 03:28	0°♁	desc. node	2145 Apr 25 16:00	19°♁27'13	
evening rise	2142 Oct 26 14:42	13°♁04'36	morning max el	2145 Apr 27 02:21	20°♁50'29	46°12'42
desc. node	2142 Nov 08 21:06	29°♁39'07		2145 May 06 05:51	0°♁	
	2142 Nov 09 03:47	0°♁		2145 Jun 03 02:01	0°♁	
	2142 Dec 03 03:58	0°♁		2145 Jun 29 09:51	0°♁	
	2142 Dec 27 05:04	0°♁		2145 Jul 24 23:23	0°♁	
	2143 Jan 20 09:18	0°♁	asc. node	2145 Aug 16 19:32	27°♁21'34	
	2143 Feb 13 20:54	0°♁		2145 Aug 18 23:55	0°♁	
asc. node	2143 Mar 02 00:22	19°♁25'11		2145 Sep 12 13:49	0°♁	
	2143 Mar 10 23:07	0°♁		2145 Oct 06 19:29	0°♁	
	2143 Apr 06 05:41	0°♁	morning set	2145 Oct 21 16:15	18°♁33'00	

	2145 Oct 30 19:47	0°♍		retrograde	2148 Apr 07 05:08	16°♄55'39	
	2145 Nov 23 17:21	0°♁		evening set	2148 Apr 23 14:01	11°♄43'09	
max. Earth dist.	2145 Nov 29 00:23	6°♁39'11	1.71202 AU	inferior conj	2148 Apr 28 12:12	8°♄41'27	5°27'49
				minimum elong	2148 Apr 28 21:46	8°♄26'21	5°25'35
superior conj	2145 Nov 30 02:01	7°♁59'44	0°15'00	min. Earth dist.	2148 Apr 28 12:13	8°♄41'26	0.28525 AU
minimum elong	2145 Nov 30 05:51	8°♁11'47	0°14'50	morning rise	2148 May 04 05:48	5°♄12'11	
behind sun begin	2145 Nov 29 19:00	7°♁37'38		direct	2148 May 19 18:36	0°♄31'12	
behind sun end	2145 Nov 30 16:43	8°♁45'55		desc. node	2148 May 23 03:46	0°♄44'15	
desc. node	2145 Dec 06 08:57	15°♁54'08		greatest brilliancy	2148 Jun 01 02:19	3°♄12'31	-4.5m
	2145 Dec 17 13:57	0°♄			2148 Jul 07 05:22	0°♄	
evening rise	2146 Jan 10 09:26	29°♄56'00		morning max el	2148 Jul 07 12:35	0°♄17'09	45°43'47
	2146 Jan 10 10:42	0°♁			2148 Aug 05 08:40	0°♄	
	2146 Feb 03 08:53	0°♁			2148 Aug 31 23:45	0°♄	
	2146 Feb 27 10:32	0°♁		asc. node	2148 Sep 13 07:20	14°♄24'26	
asc. node	2146 Mar 23 18:28	0°♄			2148 Sep 26 09:30	0°♄	
	2146 Mar 29 12:18	7°♄00'53			2148 Oct 21 01:22	0°♄	
	2146 Apr 17 12:06	0°♄			2148 Nov 14 06:26	0°♄	
	2146 May 12 20:11	0°♄			2148 Dec 08 05:50	0°♄	
	2146 Jun 08 04:13	0°♄			2149 Jan 01 02:53	0°♄	
	2146 Jul 06 15:13	0°♄		desc. node	2149 Jan 02 20:50	2°♄11'51	
evening max el	2146 Jul 11 02:21	4°♄19'54	45°29'36	morning set	2149 Jan 04 15:05	4°♄24'41	
desc. node	2146 Jul 19 01:41	11°♄41'32			2149 Jan 24 23:33	0°♄	
	2146 Aug 13 13:29	0°♄					
greatest brilliancy	2146 Aug 17 04:16	1°♄35'13	-4.5m	superior conj	2149 Feb 15 07:46	26°♄47'30	-1°-20'-37
retrograde	2146 Aug 28 17:33	3°♄57'11		minimum elong	2149 Feb 14 23:50	26°♄22'38	1°20'29
	2146 Sep 12 02:38	30°♄			2149 Feb 17 21:12	0°♄	
evening set	2146 Sep 15 19:18	27°♄55'12		max. Earth dist.	2149 Feb 18 17:09	1°♄02'30	1.71508 AU
inferior conj	2146 Sep 18 22:43	25°♄59'56	-8°-40'-10		2149 Mar 13 21:12	0°♄	
minimum elong	2146 Sep 19 01:12	25°♄56'06	8°40'06	evening rise	2149 Mar 27 14:24	17°♄03'47	
min. Earth dist.	2146 Sep 19 16:18	25°♄32'42	0.28278 AU		2149 Apr 07 00:55	0°♄	
morning rise	2146 Sep 22 06:52	23°♄57'00		asc. node	2149 Apr 26 00:11	23°♄23'14	
direct	2146 Oct 10 06:12	17°♄51'52			2149 May 01 09:31	0°♄	
greatest brilliancy	2146 Oct 24 15:40	21°♄34'32	-4.6m		2149 May 25 23:53	0°♄	
	2146 Nov 06 21:40	0°♄			2149 Jun 19 21:24	0°♄	
asc. node	2146 Nov 09 04:50	1°♄47'45			2149 Jul 15 05:10	0°♄	
morning max el	2146 Nov 29 16:48	20°♄38'18	46°45'11		2149 Aug 10 05:46	0°♄	
	2146 Dec 08 16:12	0°♄		desc. node	2149 Aug 15 13:25	5°♄59'01	
	2147 Jan 04 09:14	0°♄			2149 Sep 06 14:54	0°♄	
	2147 Jan 29 16:24	0°♄		evening max el	2149 Sep 21 19:51	15°♄26'17	46°27'03
	2147 Feb 23 10:26	0°♄			2149 Oct 07 20:51	0°♄	
desc. node	2147 Feb 28 18:27	6°♄30'36		greatest brilliancy	2149 Oct 30 17:41	14°♄35'38	-4.6m
	2147 Mar 19 23:11	0°♄		retrograde	2149 Nov 10 14:40	16°♄46'46	
	2147 Apr 13 10:12	0°♄		evening set	2149 Nov 25 03:52	12°♄37'14	
	2147 May 07 21:12	0°♄		inferior conj	2149 Dec 01 04:12	9°♄07'35	-1°-25'-41
	2147 Jun 01 08:34	0°♄		minimum elong	2149 Dec 01 07:28	9°♄02'38	1°24'39
morning set	2147 Jun 03 20:58	3°♄05'09		min. Earth dist.	2149 Dec 01 11:23	8°♄56'42	0.26540 AU
asc. node	2147 Jun 21 21:53	25°♄12'25		asc. node	2149 Dec 06 16:48	5°♄53'11	
	2147 Jun 25 19:35	0°♄		morning rise	2149 Dec 07 10:41	5°♄29'09	
max. Earth dist.	2147 Jul 08 21:17	16°♄03'28	1.73549 AU	direct	2149 Dec 21 15:25	1°♄26'59	
				greatest brilliancy	2150 Jan 03 06:48	4°♄25'49	-4.7m
superior conj	2147 Jul 10 11:55	18°♄02'13	0°42'18		2150 Feb 05 14:32	0°♄	
minimum elong	2147 Jul 10 04:22	17°♄39'01	0°41'58	morning max el	2150 Feb 10 05:54	4°♄36'21	46°54'04
	2147 Jul 20 05:19	0°♄			2150 Mar 06 00:15	0°♄	
	2147 Aug 13 13:25	0°♄		desc. node	2150 Mar 28 06:20	25°♄21'02	
evening rise	2147 Aug 15 07:35	2°♄10'06			2150 Apr 01 06:20	0°♄	
	2147 Sep 06 20:35	0°♄			2150 Apr 26 17:42	0°♄	
	2147 Oct 01 04:02	0°♄			2150 May 21 20:35	0°♄	
desc. node	2147 Oct 11 11:14	12°♄41'32			2150 Jun 15 18:36	0°♄	
	2147 Oct 25 12:48	0°♄			2150 Jul 10 12:19	0°♄	
	2147 Nov 18 23:55	0°♄		asc. node	2150 Jul 19 09:45	10°♄50'35	
	2147 Dec 13 15:59	0°♄			2150 Aug 04 01:12	0°♄	
	2148 Jan 07 20:07	0°♄		morning set	2150 Aug 10 14:15	8°♄02'35	
asc. node	2148 Feb 01 14:29	28°♄10'45			2150 Aug 28 09:08	0°♄	
	2148 Feb 03 06:33	0°♄		max. Earth dist.	2150 Sep 12 22:29	19°♄17'36	1.72525 AU
evening max el	2148 Feb 16 22:47	14°♄21'51	46°42'55				
	2148 Mar 04 15:51	0°♄		superior conj	2150 Sep 16 04:28	23°♄19'58	1°24'36
greatest brilliancy	2148 Mar 23 23:44	13°♄15'44	-4.6m	minimum elong	2150 Sep 16 06:05	23°♄24'59	1°24'36

	2150 Sep 21 13:04	0°♁			2153 Apr 03 17:59	0°♁		
	2150 Oct 15 14:35	0°♁		morning max el	2153 Apr 24 15:12	18°♁28'18	46°14'18	
evening rise	2150 Oct 24 04:12	10°♁41'56		desc. node	2153 Apr 24 18:04	18°♁35'17		
desc. node	2150 Nov 07 23:11	29°♁10'25			2153 May 06 01:34	0°♁		
	2150 Nov 08 15:04	0°♁			2153 Jun 02 17:02	0°♁		
	2150 Dec 02 15:27	0°♁			2153 Jun 28 22:53	0°♁		
	2150 Dec 26 16:49	0°♁			2153 Jul 24 11:24	0°♁		
	2151 Jan 19 21:22	0°♁		asc. node	2153 Aug 15 21:29	26°♁52'40		
asc. node	2151 Feb 13 09:31	0°♁			2153 Aug 18 11:23	0°♁		
	2151 Mar 01 02:22	18°♁51'48			2153 Sep 12 00:59	0°♁		
	2151 Mar 10 12:50	0°♁			2153 Oct 06 06:31	0°♁		
	2151 Apr 05 21:55	0°♁		morning set	2153 Oct 19 06:44	16°♁13'49		
evening max el	2151 Apr 28 23:06	23°♁58'56	45°39'13		2153 Oct 30 06:47	0°♁		
	2151 May 05 07:51	0°♁			2153 Nov 23 04:22	0°♁		
greatest brilliancy	2151 Jun 02 06:15	20°♁30'04	-4.5m	max. Earth dist.	2153 Nov 26 05:52	3°♁50'54	1.71228 AU	
retrograde	2151 Jun 16 19:27	24°♁10'47						
desc. node	2151 Jun 20 15:52	23°♁53'10		superior conj	2153 Nov 27 13:15	5°♁29'33	0°18'48	
evening set	2151 Jul 02 01:26	19°♁41'00		minimum elong	2153 Nov 27 18:00	5°♁44'26	0°18'34	
inferior conj	2151 Jul 08 06:38	15°♁56'56	-3°-59'-39	desc. node	2153 Dec 05 11:05	15°♁26'07		
minimum elong	2151 Jul 07 22:40	16°♁09'23	3°57'35		2153 Dec 17 01:02	0°♁		
min. Earth dist.	2151 Jul 08 03:13	16°♁02'16	0.29004 AU	evening rise	2154 Jan 07 19:26	27°♁21'39		
morning rise	2151 Jul 13 20:00	12°♁35'15			2154 Jan 09 21:51	0°♁		
direct	2151 Jul 29 22:37	7°♁39'36			2154 Feb 02 20:08	0°♁		
greatest brilliancy	2151 Aug 12 19:17	11°♁01'17	-4.5m		2154 Feb 26 21:55	0°♁		
	2151 Sep 08 12:37	0°♁			2154 Mar 23 06:08	0°♁		
morning max el	2151 Sep 17 02:19	8°♁00'59	46°00'43	asc. node	2154 Mar 28 14:20	6°♁31'23		
	2151 Oct 08 07:16	0°♁			2154 Apr 17 00:17	0°♁		
asc. node	2151 Oct 11 19:14	3°♁50'41			2154 May 12 09:22	0°♁		
	2151 Nov 03 16:32	0°♁			2154 Jun 07 19:34	0°♁		
	2151 Nov 28 17:44	0°♁			2154 Jul 06 12:41	0°♁		
	2151 Dec 23 03:56	0°♁		evening max el	2154 Jul 08 15:58	2°♁03'27	45°28'36	
desc. node	2152 Jan 16 07:30	0°♁		desc. node	2154 Jul 18 03:38	10°♁45'22		
	2152 Jan 31 08:36	18°♁45'36		greatest brilliancy	2154 Aug 14 15:58	29°♁17'53	-4.5m	
	2152 Feb 09 08:45	0°♁			2154 Aug 16 14:00	0°♁		
	2152 Mar 04 09:57	0°♁		retrograde	2154 Aug 26 07:32	1°♁42'42		
morning set	2152 Mar 22 04:32	22°♁07'46			2154 Sep 04 16:03	30°♁		
	2152 Mar 28 12:32	0°♁		evening set	2154 Sep 13 09:59	25°♁39'55		
	2152 Apr 21 17:23	0°♁		inferior conj	2154 Sep 16 13:35	23°♁44'31	-8°-41'-47	
				minimum elong	2154 Sep 16 15:13	23°♁41'59	8°41'46	
superior conj	2152 Apr 29 18:58	9°♁58'04	0°-52'-35	min. Earth dist.	2154 Sep 17 06:44	23°♁17'57	0.28338 AU	
minimum elong	2152 Apr 30 04:31	10°♁27'33	0°52'13	morning rise	2154 Sep 19 20:14	21°♁43'51		
max. Earth dist.	2152 May 02 13:46	13°♁24'15	1.73026 AU	direct	2154 Oct 07 21:06	15°♁35'21		
	2152 May 16 00:50	0°♁		greatest brilliancy	2154 Oct 22 08:37	19°♁19'44	-4.6m	
asc. node	2152 May 23 12:08	9°♁11'33			2154 Nov 07 11:06	0°♁		
evening rise	2152 Jun 06 05:49	26°♁04'18		asc. node	2154 Nov 08 07:00	0°♁40'26		
	2152 Jun 09 10:38	0°♁		morning max el	2154 Nov 27 07:03	18°♁16'39	46°44'03	
	2152 Jul 03 22:25	0°♁			2154 Dec 08 11:20	0°♁		
	2152 Jul 28 12:31	0°♁			2155 Jan 04 00:21	0°♁		
	2152 Aug 22 06:15	0°♁			2155 Jan 29 05:48	0°♁		
desc. node	2152 Sep 12 01:19	25°♁00'02			2155 Feb 22 22:52	0°♁		
	2152 Sep 16 05:47	0°♁		desc. node	2155 Feb 27 20:28	5°♁59'12		
	2152 Oct 11 14:26	0°♁			2155 Mar 19 10:59	0°♁		
	2152 Nov 06 15:55	0°♁			2155 Apr 12 21:34	0°♁		
evening max el	2152 Dec 03 20:39	29°♁21'05	47°17'24		2155 May 07 08:16	0°♁		
	2152 Dec 04 12:01	0°♁			2155 May 31 19:25	0°♁		
asc. node	2153 Jan 03 04:44	25°♁36'27		morning set	2155 Jun 01 14:33	0°♁58'42		
greatest brilliancy	2153 Jan 11 01:47	29°♁56'33	-4.7m	asc. node	2155 Jun 20 23:56	24°♁45'51		
	2153 Jan 11 04:52	0°♁			2155 Jun 25 06:18	0°♁		
retrograde	2153 Jan 23 17:56	2°♁56'20		max. Earth dist.	2155 Jul 06 18:28	14°♁08'16	1.73560 AU	
	2153 Feb 04 16:48	30°♁						
evening set	2153 Feb 09 15:00	27°♁19'44		superior conj	2155 Jul 08 06:24	15°♁58'43	0°39'32	
min. Earth dist.	2153 Feb 12 15:05	25°♁29'21	0.27222 AU	minimum elong	2155 Jul 07 23:11	15°♁36'32	0°39'14	
inferior conj	2153 Feb 13 11:40	24°♁57'17	8°16'06		2155 Jul 19 15:59	0°♁		
minimum elong	2153 Feb 13 04:23	25°♁08'38	8°15'16	evening rise	2155 Aug 13 02:06	0°♁05'59		
morning rise	2153 Feb 16 18:06	22°♁56'56			2155 Aug 13 00:10	0°♁		
direct	2153 Mar 06 02:12	17°♁10'13			2155 Sep 06 07:33	0°♁		
greatest brilliancy	2153 Mar 16 15:44	19°♁15'01	-4.6m		2155 Sep 30 15:21	0°♁		

desc. node	2155 Oct 10 13:22	12°♍12'48		desc. node	2158 Mar 27 08:27	24°♌45'24	
	2155 Oct 25 00:33	0°♌			2158 Mar 31 20:22	0°♌	
	2155 Nov 18 12:15	0°♌			2158 Apr 26 06:19	0°♌	
	2155 Dec 13 05:10	0°♌			2158 May 21 08:21	0°♌	
	2156 Jan 07 10:49	0°♌			2158 Jun 15 05:48	0°♌	
asc. node	2156 Jan 31 16:29	27°♌27'31		asc. node	2158 Jul 09 23:11	0°♌	
	2156 Feb 03 00:45	0°♌			2158 Jul 18 11:41	10°♌23'29	
evening max el	2156 Feb 14 13:03	12°♌02'09	46°45'17		2158 Aug 03 11:53	0°♌	
	2156 Mar 05 00:41	0°♌		morning set	2158 Aug 08 07:52	5°♌56'23	
greatest brilliancy	2156 Mar 21 15:27	11°♌01'36	-4.6m		2158 Aug 27 19:46	0°♌	
retrograde	2156 Apr 04 21:20	14°♌42'37		max. Earth dist.	2158 Sep 10 13:38	17°♌02'32	1.72570 AU
evening set	2156 Apr 21 08:34	9°♌25'40					
inferior conj	2156 Apr 26 03:56	6°♌28'20	5°43'51	superior conj	2158 Sep 13 21:21	21°♌10'08	1°24'49
minimum elong	2156 Apr 26 13:42	6°♌12'58	5°41'38	minimum elong	2158 Sep 13 22:12	21°♌12'48	1°24'49
min. Earth dist.	2156 Apr 26 03:46	6°♌28'37	0.28502 AU		2158 Sep 20 23:44	0°♌	
morning rise	2156 May 01 19:04	3°♌02'48			2158 Oct 15 01:21	0°♌	
	2156 May 08 05:04	30°♌		evening rise	2158 Oct 21 18:00	8°♌21'24	
direct	2156 May 17 09:36	28°♌18'16		desc. node	2158 Nov 07 01:19	28°♌42'59	
desc. node	2156 May 22 05:56	28°♌44'57			2158 Nov 08 01:59	0°♌	
	2156 May 27 01:25	0°♌			2158 Dec 02 02:36	0°♌	
greatest brilliancy	2156 May 29 17:01	0°♌59'35	-4.5m		2158 Dec 26 04:15	0°♌	
morning max el	2156 Jul 05 04:54	28°♌08'00	45°44'12		2159 Jan 19 09:12	0°♌	
	2156 Jul 07 03:35	0°♌			2159 Feb 12 21:57	0°♌	
	2156 Aug 05 00:11	0°♌		asc. node	2159 Feb 28 04:26	18°♌19'11	
	2156 Aug 31 12:53	0°♌			2159 Mar 10 02:26	0°♌	
asc. node	2156 Sep 12 09:27	13°♌53'41			2159 Apr 05 14:11	0°♌	
	2156 Sep 25 21:32	0°♌		evening max el	2159 Apr 26 15:22	21°♌48'57	45°40'48
	2156 Oct 20 12:52	0°♌			2159 May 05 09:12	0°♌	
	2156 Nov 13 17:41	0°♌		greatest brilliancy	2159 May 30 22:48	18°♌21'59	-4.5m
	2156 Dec 07 16:58	0°♌		retrograde	2159 Jun 14 11:32	22°♌02'18	
	2156 Dec 31 13:56	0°♌		desc. node	2159 Jun 19 17:47	21°♌29'30	
desc. node	2157 Jan 01 22:49	1°♌43'23		evening set	2159 Jun 29 16:36	17°♌34'32	
morning set	2157 Jan 02 00:54	1°♌49'58		inferior conj	2159 Jul 05 22:59	13°♌48'29	-3°-41'-55
	2157 Jan 24 10:31	0°♌		minimum elong	2159 Jul 05 15:29	14°♌00'13	3°39'57
				min. Earth dist.	2159 Jul 05 19:33	13°♌53'50	0.28997 AU
superior conj	2157 Feb 12 18:17	24°♌15'46	-1°-19'-8	morning rise	2159 Jul 11 14:29	10°♌23'25	
minimum elong	2157 Feb 12 09:31	23°♌48'19	1°18'59	direct	2159 Jul 27 15:06	5°♌31'22	
max. Earth dist.	2157 Feb 16 00:13	28°♌20'06	1.71466 AU	greatest brilliancy	2159 Aug 10 09:04	8°♌49'45	-4.5m
	2157 Feb 17 08:06	0°♌			2159 Sep 08 14:02	0°♌	
	2157 Mar 13 08:03	0°♌		morning max el	2159 Sep 14 17:13	5°♌47'40	45°59'25
evening rise	2157 Mar 25 03:02	14°♌40'22			2159 Oct 07 23:36	0°♌	
	2157 Apr 06 11:48	0°♌		asc. node	2159 Oct 10 21:18	3°♌12'26	
asc. node	2157 Apr 25 02:21	22°♌56'16			2159 Nov 03 06:09	0°♌	
	2157 Apr 30 20:31	0°♌			2159 Nov 28 06:09	0°♌	
	2157 May 25 11:09	0°♌			2159 Dec 22 15:42	0°♌	
	2157 Jun 19 09:13	0°♌			2160 Jan 15 18:53	0°♌	
	2157 Jul 14 17:58	0°♌		desc. node	2160 Jan 30 10:38	18°♌16'51	
	2157 Aug 09 20:26	0°♌			2160 Feb 08 19:54	0°♌	
desc. node	2157 Aug 14 15:27	5°♌22'19			2160 Mar 03 20:56	0°♌	
	2157 Sep 06 09:48	0°♌		morning set	2160 Mar 19 17:32	19°♌45'12	
evening max el	2157 Sep 19 10:12	13°♌07'49	46°24'39		2160 Mar 27 23:20	0°♌	
	2157 Oct 08 08:44	0°♌			2160 Apr 21 04:04	0°♌	
greatest brilliancy	2157 Oct 28 05:46	12°♌09'01	-4.6m				
retrograde	2157 Nov 08 03:16	14°♌19'50		superior conj	2160 Apr 27 10:26	7°♌44'41	0°-55'-16
evening set	2157 Nov 22 17:51	10°♌08'05		minimum elong	2160 Apr 27 20:13	8°♌14'52	0°54'55
inferior conj	2157 Nov 28 16:28	6°♌40'26	-1°-49'-45	max. Earth dist.	2160 Apr 30 09:33	11°♌24'15	1.72978 AU
minimum elong	2157 Nov 28 20:37	6°♌34'07	1°48'26		2160 May 15 11:28	0°♌	
min. Earth dist.	2157 Nov 29 00:45	6°♌27'52	0.26574 AU	asc. node	2160 May 22 14:08	8°♌45'00	
morning rise	2157 Dec 04 23:03	3°♌01'59		evening rise	2160 Jun 03 23:29	23°♌58'26	
asc. node	2157 Dec 05 18:51	2°♌36'20			2160 Jun 08 21:18	0°♌	
	2157 Dec 12 05:18	30°♌			2160 Jul 03 09:16	0°♌	
direct	2157 Dec 19 04:52	28°♌59'22			2160 Jul 27 23:42	0°♌	
	2157 Dec 26 09:12	0°♌			2160 Aug 21 17:58	0°♌	
greatest brilliancy	2157 Dec 31 21:03	1°♌59'40	-4.7m	desc. node	2160 Sep 11 03:28	24°♌29'21	
	2158 Feb 05 14:52	0°♌			2160 Sep 15 18:21	0°♌	
morning max el	2158 Feb 07 20:16	2°♌13'50	46°54'40		2160 Oct 11 04:23	0°♌	
	2158 Mar 05 17:02	0°♌			2160 Nov 06 08:26	0°♌	

evening max el	2160 Dec 01 10:20	26°☾56'49	47°16'56			2163 May 31 06:10	0°♁	
	2160 Dec 04 11:17	0°♁		asc. node		2163 Jun 20 01:56	24°♁19'15	
asc. node	2161 Jan 02 06:40	24°♁08'25				2163 Jun 24 16:57	0°♁	
greatest brilliancy	2161 Jan 08 18:12	27°♁35'03	-4.7m	max. Earth dist.		2163 Jul 04 16:45	12°♁16'33	1.73573 AU
	2161 Jan 16 03:08	0°♁						
retrograde	2161 Jan 21 07:19	0°♁31'49		superior conj		2163 Jul 06 00:50	13°♁55'09	0°36'44
	2161 Jan 26 08:42	30°♁		minimum elong		2163 Jul 05 18:00	13°♁34'09	0°36'26
evening set	2161 Feb 07 00:54	25°♁01'48				2163 Jul 19 02:38	0°♁	
min. Earth dist.	2161 Feb 10 04:49	23°♁05'52	0.27167 AU	evening rise		2163 Aug 10 20:35	28°♁01'49	
inferior conj	2161 Feb 11 01:15	22°♁34'00	8°07'29			2163 Aug 12 10:55	0°♁	
minimum elong	2161 Feb 10 17:20	22°♁46'21	8°06'28			2163 Sep 05 18:32	0°♁	
morning rise	2161 Feb 14 10:04	20°♁30'00				2163 Sep 30 02:41	0°♁	
direct	2161 Mar 03 14:47	14°♁47'44		desc. node		2163 Oct 09 15:25	11°♁43'47	
greatest brilliancy	2161 Mar 14 05:24	16°♁53'04	-4.6m			2163 Oct 24 12:21	0°♁	
	2161 Apr 04 07:06	0°♁				2163 Nov 18 00:39	0°♁	
morning max el	2161 Apr 22 03:59	16°♁06'30	46°15'47			2163 Dec 12 18:29	0°♁	
desc. node	2161 Apr 23 20:12	17°♁45'15				2164 Jan 07 01:45	0°♁	
	2161 May 05 20:27	0°♁		asc. node		2164 Jan 30 18:39	26°♁44'04	
	2161 Jun 02 07:40	0°♁				2164 Feb 02 19:30	0°♁	
	2161 Jun 28 11:40	0°♁		evening max el		2164 Feb 12 04:31	9°♁45'20	46°47'43
	2161 Jul 23 23:12	0°♁				2164 Mar 05 12:37	0°♁	
asc. node	2161 Aug 14 23:37	26°♁24'57		greatest brilliancy		2164 Mar 19 07:29	8°♁48'04	-4.6m
	2161 Aug 17 22:38	0°♁		retrograde		2164 Apr 02 14:03	12°♁29'46	
	2161 Sep 11 11:57	0°♁		evening set		2164 Apr 19 03:15	7°♁08'28	
	2161 Oct 05 17:21	0°♁		inferior conj		2164 Apr 23 19:46	4°♁15'23	5°59'14
morning set	2161 Oct 16 21:13	13°♁55'14		minimum elong		2164 Apr 24 05:38	3°♁59'52	5°57'06
	2161 Oct 29 17:36	0°♁		min. Earth dist.		2164 Apr 23 18:59	4°♁16'37	0.28474 AU
	2161 Nov 22 15:15	0°♁		morning rise		2164 Apr 29 08:18	0°♁53'55	
max. Earth dist.	2161 Nov 23 12:51	1°♁07'52	1.71256 AU			2164 Apr 30 23:40	30°♁	
				direct		2164 May 15 01:09	26°♁05'48	
superior conj	2161 Nov 25 00:39	3°♁00'22	0°22'33	desc. node		2164 May 21 07:51	26°♁50'17	
minimum elong	2161 Nov 25 06:15	3°♁17'56	0°22'17	greatest brilliancy		2164 May 27 06:44	28°♁45'55	-4.5m
desc. node	2161 Dec 04 13:03	14°♁58'05				2164 May 30 00:55	0°♁	
	2161 Dec 16 11:57	0°♁		morning max el		2164 Jul 02 21:47	26°♁00'16	45°44'28
evening rise	2162 Jan 05 05:44	24°♁48'52				2164 Jul 07 00:55	0°♁	
	2162 Jan 09 08:49	0°♁				2164 Aug 04 15:30	0°♁	
	2162 Feb 02 07:09	0°♁				2164 Aug 31 02:01	0°♁	
	2162 Feb 26 09:05	0°♁		asc. node		2164 Sep 11 11:33	13°♁22'34	
	2162 Mar 22 17:35	0°♁				2164 Sep 25 09:39	0°♁	
asc. node	2162 Mar 27 16:28	6°♁02'45				2164 Oct 20 00:29	0°♁	
	2162 Apr 16 12:18	0°♁				2164 Nov 13 05:03	0°♁	
	2162 May 11 22:28	0°♁				2164 Dec 07 04:11	0°♁	
	2162 Jun 07 11:01	0°♁		morning set		2164 Dec 30 10:47	29°♁15'03	
	2162 Jul 06 10:51	0°♁				2164 Dec 31 01:05	0°♁	
evening max el	2162 Jul 06 06:06	29°♁48'39	45°27'47	desc. node		2165 Jan 01 00:48	1°♁14'36	
desc. node	2162 Jul 17 05:41	9°♁48'29				2165 Jan 23 21:38	0°♁	
greatest brilliancy	2162 Aug 12 02:46	27°♁00'10	-4.5m					
retrograde	2162 Aug 23 22:12	29°♁28'59		superior conj		2165 Feb 10 04:39	21°♁42'59	-1°-17'-29
evening set	2162 Sep 11 00:19	23°♁25'50		minimum elong		2165 Feb 09 19:11	21°♁13'15	1°17'18
inferior conj	2162 Sep 14 04:31	21°♁29'40	-8°-42'-27	max. Earth dist.		2165 Feb 13 09:15	25°♁43'13	1.71426 AU
minimum elong	2162 Sep 14 05:20	21°♁28'25	8°42'28			2165 Feb 16 19:10	0°♁	
min. Earth dist.	2162 Sep 14 20:53	21°♁04'22	0.28397 AU			2165 Mar 12 19:06	0°♁	
morning rise	2162 Sep 17 10:06	19°♁30'45		evening rise		2165 Mar 22 15:38	12°♁16'10	
direct	2162 Oct 05 12:28	13°♁19'30				2165 Apr 05 22:50	0°♁	
greatest brilliancy	2162 Oct 20 01:50	17°♁06'00	-4.6m	asc. node		2165 Apr 24 04:20	22°♁28'19	
asc. node	2162 Nov 07 09:02	29°♁34'57				2165 Apr 30 07:38	0°♁	
	2162 Nov 07 20:57	0°♁				2165 May 24 22:33	0°♁	
morning max el	2162 Nov 24 22:16	15°♁57'56	46°42'49			2165 Jun 18 21:11	0°♁	
	2162 Dec 08 05:52	0°♁				2165 Jul 14 06:59	0°♁	
	2163 Jan 03 15:13	0°♁				2165 Aug 09 11:29	0°♁	
	2163 Jan 28 19:02	0°♁		desc. node		2165 Aug 13 17:33	4°♁44'51	
	2163 Feb 22 11:09	0°♁				2165 Sep 06 05:32	0°♁	
desc. node	2163 Feb 26 22:36	5°♁28'33		evening max el		2165 Sep 17 00:46	10°♁49'14	46°22'06
	2163 Mar 18 22:38	0°♁				2165 Oct 09 01:04	0°♁	
	2163 Apr 12 08:48	0°♁		greatest brilliancy		2165 Oct 25 18:40	9°♁42'45	-4.6m
	2163 May 06 19:13	0°♁		retrograde		2165 Nov 05 15:26	11°♁52'09	
morning set	2163 May 30 08:16	28°♁52'52		evening set		2165 Nov 20 08:06	7°♁38'15	

inferior conj	2165 Nov 26 04:47	4°♁12'47	-2°-13'-24	max. Earth dist.	2168 Apr 28 03:27	9°♁17'14	1.72929 AU
minimum elong	2165 Nov 26 09:48	4°♁05'11	2°11'51		2168 May 14 22:28	0°♁	
min. Earth dist.	2165 Nov 26 14:18	3°♁58'20	0.26608 AU	asc. node	2168 May 21 16:09	8°♁17'22	
morning rise	2165 Dec 02 11:10	0°♁34'22		evening rise	2168 Jun 01 17:05	21°♁51'15	
	2165 Dec 03 13:52	30°♁			2168 Jun 08 08:21	0°♁	
asc. node	2165 Dec 04 20:48	29°♁22'47			2168 Jul 02 20:28	0°♁	
direct	2165 Dec 16 18:11	26°♁31'18			2168 Jul 27 11:12	0°♁	
greatest brilliancy	2165 Dec 29 11:05	29°♁32'29	-4.7m		2168 Aug 21 06:00	0°♁	
	2165 Dec 30 10:54	0°♁		desc. node	2168 Sep 10 05:30	23°♁57'26	
morning max el	2166 Feb 05 09:41	29°♁48'01	46°55'10		2168 Sep 15 07:17	0°♁	
	2166 Feb 05 14:25	0°♁			2168 Oct 10 18:49	0°♁	
	2166 Mar 05 09:47	0°♁			2168 Nov 06 01:44	0°♁	
desc. node	2166 Mar 26 10:29	24°♁09'03		evening max el	2168 Nov 28 23:17	24°♁29'10	47°16'09
	2166 Mar 31 10:33	0°♁			2168 Dec 04 12:18	0°♁	
	2166 Apr 25 19:08	0°♁		asc. node	2169 Jan 01 08:52	22°♁35'24	
	2166 May 20 20:19	0°♁		greatest brilliancy	2169 Jan 06 09:42	25°♁09'55	-4.7m
	2166 Jun 14 17:13	0°♁		retrograde	2169 Jan 18 20:20	28°♁04'40	
	2166 Jul 09 10:15	0°♁		evening set	2169 Feb 04 10:13	22°♁41'03	
asc. node	2166 Jul 17 13:51	9°♁56'32		min. Earth dist.	2169 Feb 07 18:15	20°♁39'23	0.27113 AU
	2166 Aug 02 22:47	0°♁		inferior conj	2169 Feb 08 14:28	20°♁07'57	7°57'46
morning set	2166 Aug 06 01:47	3°♁50'26		minimum elong	2169 Feb 08 05:56	20°♁21'13	7°56'33
	2166 Aug 27 06:38	0°♁		morning rise	2169 Feb 12 01:56	18°♁00'07	
max. Earth dist.	2166 Sep 08 04:19	14°♁45'21	1.72623 AU	direct	2169 Mar 01 02:52	12°♁22'16	
				greatest brilliancy	2169 Mar 11 19:34	14°♁29'22	-4.6m
superior conj	2166 Sep 11 14:27	19°♁00'18	1°24'53		2169 Apr 04 17:39	0°♁	
minimum elong	2166 Sep 11 14:35	19°♁00'42	1°24'54	morning max el	2169 Apr 19 16:51	13°♁43'18	46°17'27
	2166 Sep 20 10:41	0°♁		desc. node	2169 Apr 22 22:11	16°♁54'17	
	2166 Oct 14 12:26	0°♁			2169 May 05 15:20	0°♁	
evening rise	2166 Oct 19 07:51	6°♁00'02			2169 Jun 01 22:33	0°♁	
desc. node	2166 Nov 06 03:15	28°♁13'52			2169 Jun 28 00:45	0°♁	
	2166 Nov 07 13:16	0°♁			2169 Jul 23 11:18	0°♁	
	2166 Dec 01 14:07	0°♁		asc. node	2169 Aug 14 01:41	25°♁56'10	
	2166 Dec 25 16:03	0°♁			2169 Aug 17 10:11	0°♁	
	2167 Jan 18 21:24	0°♁			2169 Sep 10 23:10	0°♁	
	2167 Feb 12 10:48	0°♁			2169 Oct 05 04:25	0°♁	
asc. node	2167 Feb 27 06:31	17°♁45'20		morning set	2169 Oct 14 12:13	11°♁37'37	
	2167 Mar 09 16:31	0°♁			2169 Oct 29 04:40	0°♁	
	2167 Apr 05 07:10	0°♁		max. Earth dist.	2169 Nov 20 23:42	28°♁36'12	1.71291 AU
evening max el	2167 Apr 24 07:00	19°♁36'18	45°42'28		2169 Nov 22 02:23	0°♁	
	2167 May 05 12:28	0°♁					
greatest brilliancy	2167 May 28 15:25	16°♁13'12	-4.5m	superior conj	2169 Nov 22 12:21	0°♁31'22	0°26'13
retrograde	2167 Jun 12 03:29	19°♁53'33		minimum elong	2169 Nov 22 18:45	0°♁51'26	0°25'55
desc. node	2167 Jun 18 19:51	19°♁00'41		desc. node	2169 Dec 03 15:07	14°♁29'31	
evening set	2167 Jun 27 08:04	15°♁27'24			2169 Dec 15 23:11	0°♁	
inferior conj	2167 Jul 03 15:31	11°♁39'50	-3°-24'-3	evening rise	2170 Jan 02 15:59	22°♁14'54	
minimum elong	2167 Jul 03 08:31	11°♁50'49	3°22'10		2170 Jan 08 20:08	0°♁	
min. Earth dist.	2167 Jul 03 12:21	11°♁44'48	0.28986 AU		2170 Feb 01 18:33	0°♁	
morning rise	2167 Jul 09 09:02	8°♁11'35			2170 Feb 25 20:39	0°♁	
direct	2167 Jul 25 07:18	3°♁22'56			2170 Mar 22 05:27	0°♁	
greatest brilliancy	2167 Aug 07 23:35	6°♁38'44	-4.5m	asc. node	2170 Mar 26 18:26	5°♁32'21	
	2167 Sep 08 14:24	0°♁			2170 Apr 16 00:44	0°♁	
morning max el	2167 Sep 12 07:33	3°♁32'30	45°58'08		2170 May 11 12:03	0°♁	
	2167 Oct 07 15:55	0°♁			2170 Jun 07 03:06	0°♁	
asc. node	2167 Oct 09 23:20	2°♁33'45		evening max el	2170 Jul 03 21:03	27°♁35'01	45°27'08
	2167 Nov 02 19:59	0°♁			2170 Jul 06 10:23	0°♁	
	2167 Nov 27 18:52	0°♁		desc. node	2170 Jul 16 07:50	8°♁49'34	
	2167 Dec 22 03:51	0°♁		greatest brilliancy	2170 Aug 09 13:25	24°♁41'45	-4.5m
	2168 Jan 15 06:41	0°♁		retrograde	2170 Aug 21 13:20	27°♁14'42	
desc. node	2168 Jan 29 12:49	17°♁47'22		evening set	2170 Sep 08 14:23	21°♁11'53	
	2168 Feb 08 07:27	0°♁		inferior conj	2170 Sep 11 19:29	19°♁14'22	-8°-42'-23
	2168 Mar 03 08:16	0°♁		minimum elong	2170 Sep 11 19:27	19°♁14'25	8°42'25
morning set	2168 Mar 17 06:07	17°♁20'09		min. Earth dist.	2170 Sep 12 10:39	18°♁50'57	0.28448 AU
	2168 Mar 27 10:30	0°♁		morning rise	2170 Sep 15 00:20	17°♁16'43	
	2168 Apr 20 15:07	0°♁		direct	2170 Oct 03 04:17	11°♁03'31	
				greatest brilliancy	2170 Oct 17 18:15	14°♁51'12	-4.6m
superior conj	2168 Apr 25 01:46	5°♁29'41	0°-57'-52	asc. node	2170 Nov 06 11:00	28°♁30'40	
minimum elong	2168 Apr 25 11:44	6°♁00'26	0°57'32		2170 Nov 08 04:14	0°♁	

morning max el	2170 Nov 22 13:55	13°♌40'18	46°41'32		2173 Jun 18 09:13	0°♊	
	2170 Dec 08 00:04	0°♌			2173 Jul 13 20:07	0°♎	
	2171 Jan 03 06:02	0°♍			2173 Aug 09 02:43	0°♏	
	2171 Jan 28 08:20	0°♎		desc. node	2173 Aug 12 19:33	4°♏06'51	
	2171 Feb 21 23:37	0°♏			2173 Sep 06 01:50	0°♌	
desc. node	2171 Feb 26 00:35	4°♏56'46		evening max el	2173 Sep 14 14:22	8°♌28'30	46°19'33
	2171 Mar 18 10:33	0°♐			2173 Oct 09 22:47	0°♍	
	2171 Apr 11 20:19	0°♑		greatest brilliancy	2173 Oct 23 08:28	7°♍17'53	-4.6m
	2171 May 06 06:25	0°♒		retrograde	2173 Nov 03 03:03	9°♍24'55	
morning set	2171 May 28 01:29	26°♒44'41		evening set	2173 Nov 17 22:29	5°♍08'39	
	2171 May 30 17:09	0°♓		inferior conj	2173 Nov 23 17:07	1°♍45'45	-2°-36'-46
asc. node	2171 Jun 19 04:02	23°♓52'21		minimum elong	2173 Nov 23 22:56	1°♍36'55	2°35'00
	2171 Jun 24 03:49	0°♈		min. Earth dist.	2173 Nov 24 04:10	1°♍28'57	0.26642 AU
max. Earth dist.	2171 Jul 02 15:48	10°♈26'29	1.73581 AU		2173 Nov 26 15:14	30°♌	
				morning rise	2173 Nov 29 22:58	28°♌07'32	
superior conj	2171 Jul 03 18:52	11°♈49'40	0°33'52	asc. node	2173 Dec 03 22:58	26°♌13'50	
minimum elong	2171 Jul 03 12:27	11°♈29'58	0°33'34	direct	2173 Dec 14 06:59	24°♌03'43	
	2171 Jul 18 13:29	0°♊		greatest brilliancy	2173 Dec 27 01:42	27°♌06'27	-4.7m
evening rise	2171 Aug 08 14:56	25°♊56'39			2174 Jan 01 14:08	0°♋	
	2171 Aug 11 21:53	0°♌		morning max el	2174 Feb 02 22:03	27°♋20'09	46°55'50
	2171 Sep 05 05:44	0°♍			2174 Feb 05 12:43	0°♎	
	2171 Sep 29 14:11	0°♌			2174 Mar 05 01:56	0°♏	
desc. node	2171 Oct 08 17:22	11°♌14'04		desc. node	2174 Mar 25 12:29	23°♏33'43	
	2171 Oct 24 00:16	0°♍			2174 Mar 31 00:17	0°♐	
	2171 Nov 17 13:09	0°♎			2174 Apr 25 07:36	0°♑	
	2171 Dec 12 07:55	0°♏			2174 May 20 08:01	0°♒	
	2172 Jan 06 16:55	0°♐			2174 Jun 14 04:26	0°♓	
asc. node	2172 Jan 29 20:38	25°♐59'16			2174 Jul 08 21:09	0°♈	
	2172 Feb 02 14:51	0°♑		asc. node	2174 Jul 16 15:53	9°♈29'40	
evening max el	2172 Feb 09 20:25	7°♑29'05	46°49'47		2174 Aug 02 09:31	0°♊	
	2172 Mar 06 05:08	0°♒		morning set	2174 Aug 03 19:21	1°♊43'55	
greatest brilliancy	2172 Mar 17 00:17	6°♒34'24	-4.6m		2174 Aug 26 17:20	0°♋	
retrograde	2172 Mar 31 06:27	10°♒15'06		max. Earth dist.	2174 Sep 05 19:53	12°♋31'33	1.72674 AU
evening set	2172 Apr 16 21:44	4°♒49'41					
inferior conj	2172 Apr 21 11:17	2°♒00'48	6°14'19	superior conj	2174 Sep 09 07:22	16°♋50'34	1°24'50
minimum elong	2172 Apr 21 21:11	1°♒45'12	6°12'15	minimum elong	2174 Sep 09 06:46	16°♋48'44	1°24'51
min. Earth dist.	2172 Apr 21 09:46	2°♒03'11	0.28447 AU		2174 Sep 19 21:26	0°♌	
	2172 Apr 24 17:03	30°♑			2174 Oct 13 23:19	0°♌	
morning rise	2172 Apr 26 21:00	28°♑43'33		evening rise	2174 Oct 16 21:42	3°♌39'28	
direct	2172 May 12 16:44	23°♑51'51		desc. node	2174 Nov 05 05:20	27°♌45'52	
desc. node	2172 May 20 09:56	24°♑58'33			2174 Nov 07 00:20	0°♍	
greatest brilliancy	2172 May 24 19:26	26°♑29'44	-4.5m		2174 Dec 01 01:25	0°♎	
	2172 May 31 20:13	0°♒			2174 Dec 25 03:38	0°♏	
morning max el	2172 Jun 30 14:00	23°♒50'18	45°44'47		2175 Jan 18 09:20	0°♐	
	2172 Jul 06 21:45	0°♓			2175 Feb 11 23:20	0°♑	
	2172 Aug 04 06:44	0°♈		asc. node	2175 Feb 26 08:30	17°♑12'09	
	2172 Aug 30 15:07	0°♊			2175 Mar 09 06:19	0°♒	
asc. node	2172 Sep 10 13:28	12°♊50'57			2175 Apr 05 00:01	0°♓	
	2172 Sep 24 21:46	0°♋		evening max el	2175 Apr 21 21:41	17°♓22'23	45°44'06
	2172 Oct 19 12:05	0°♌			2175 May 05 16:59	0°♈	
	2172 Nov 12 16:23	0°♍		greatest brilliancy	2175 May 26 06:59	14°♈03'55	-4.5m
	2172 Dec 06 15:21	0°♎		retrograde	2175 Jun 09 19:31	17°♈45'46	
morning set	2172 Dec 27 21:12	26°♎42'09		desc. node	2175 Jun 17 21:59	16°♈27'54	
	2172 Dec 30 12:08	0°♏		evening set	2175 Jun 24 23:37	13°♈20'37	
desc. node	2172 Dec 31 02:58	0°♐46'39		inferior conj	2175 Jul 01 08:02	9°♈31'56	-3°-5'-48
	2173 Jan 23 08:37	0°♑		minimum elong	2175 Jul 01 01:35	9°♈42'04	3°04'01
				min. Earth dist.	2175 Jul 01 05:15	9°♈36'18	0.28981 AU
superior conj	2173 Feb 07 15:19	19°♑11'26	-1°-15'-41	morning rise	2175 Jul 07 03:30	6°♈00'42	
minimum elong	2173 Feb 07 05:12	18°♑39'43	1°15'27	direct	2175 Jul 22 23:10	1°♈14'59	
max. Earth dist.	2173 Feb 10 21:04	23°♑15'21	1.71388 AU	greatest brilliancy	2175 Aug 05 15:31	4°♈30'06	-4.5m
	2173 Feb 16 06:08	0°♒			2175 Sep 08 13:25	0°♊	
	2173 Mar 12 06:03	0°♑		morning max el	2175 Sep 09 22:10	1°♊18'41	45°56'56
evening rise	2173 Mar 20 04:11	9°♑51'56			2175 Oct 07 07:42	0°♋	
	2173 Apr 05 09:50	0°♒		asc. node	2175 Oct 09 01:23	1°♋56'10	
asc. node	2173 Apr 23 06:20	22°♒00'28			2175 Nov 02 09:23	0°♌	
	2173 Apr 29 18:46	0°♓			2175 Nov 27 07:13	0°♍	
	2173 May 24 09:59	0°♈			2175 Dec 21 15:37	0°♎	

	2176 Jan 14 18:07	0°☾		retrograde	2178 Aug 19 04:32	25°♍02'05	
desc. node	2176 Jan 28 14:43	17°☾18'08		evening set	2178 Sep 06 04:16	19°♍00'19	
	2176 Feb 07 18:38	0°♌		inferior conj	2178 Sep 09 10:37	17°♍00'44	-8°-41'-31
	2176 Mar 02 19:13	0°♋		minimum elong	2178 Sep 09 09:46	17°♍02'03	8°41'32
morning set	2176 Mar 14 18:44	14°♋56'14		min. Earth dist.	2178 Sep 10 00:21	16°♍39'30	0.28502 AU
	2176 Mar 26 21:15	0°♎		morning rise	2178 Sep 12 15:06	15°♍03'35	
	2176 Apr 20 01:44	0°♏		direct	2178 Sep 30 20:37	8°♍49'20	
				greatest brilliancy	2178 Oct 15 10:04	12°♍36'51	-4.6m
superior conj	2176 Apr 22 17:19	3°♏16'37	-1°00'-23	asc. node	2178 Nov 05 13:09	27°♍29'11	
minimum elong	2176 Apr 23 03:23	3°♏47'44	1°00'02		2178 Nov 08 09:00	0°♏	
max. Earth dist.	2176 Apr 25 20:35	7°♏09'12	1.72878 AU	morning max el	2178 Nov 20 05:40	11°♏23'48	46°40'04
	2176 May 14 09:02	0°♐			2178 Dec 07 17:38	0°♎	
asc. node	2176 May 20 18:17	7°♐51'30			2179 Jan 02 20:27	0°♏	
evening rise	2176 May 30 10:52	19°♐45'59			2179 Jan 27 21:18	0°☾	
	2176 Jun 07 18:59	0°♑			2179 Feb 21 11:44	0°♌	
	2176 Jul 02 07:17	0°♒		desc. node	2179 Feb 25 02:38	4°♌26'12	
	2176 Jul 26 22:23	0°♓			2179 Mar 17 22:07	0°♋	
	2176 Aug 20 17:47	0°♈			2179 Apr 11 07:30	0°♎	
desc. node	2176 Sep 09 07:28	23°♈26'03			2179 May 05 17:19	0°♏	
	2176 Sep 14 20:00	0°♎		morning set	2179 May 25 18:56	24°♏38'09	
	2176 Oct 10 09:05	0°♏			2179 May 30 03:50	0°♐	
	2176 Nov 05 19:00	0°☾		asc. node	2179 Jun 18 06:05	23°♐26'14	
evening max el	2176 Nov 26 12:17	22°☾02'55	47°15'25		2179 Jun 23 14:22	0°♑	
	2176 Dec 04 14:10	0°♌		max. Earth dist.	2179 Jun 30 15:10	8°♑38'26	1.73582 AU
asc. node	2176 Dec 31 10:51	20°♌59'44					
greatest brilliancy	2177 Jan 04 00:09	22°♌44'26	-4.7m	superior conj	2179 Jul 01 13:14	9°♑46'14	0°30'57
retrograde	2177 Jan 16 09:40	25°♌38'32		minimum elong	2179 Jul 01 07:17	9°♑27'56	0°30'41
evening set	2177 Feb 01 19:23	20°♌20'58			2179 Jul 18 00:00	0°♒	
min. Earth dist.	2177 Feb 05 07:21	18°♌13'57	0.27060 AU	evening rise	2179 Aug 06 09:43	23°♒53'54	
inferior conj	2177 Feb 06 03:34	17°♌42'38	7°47'07		2179 Aug 11 08:31	0°♓	
minimum elong	2177 Feb 05 18:31	17°♌56'40	7°45'42		2179 Sep 04 16:37	0°♈	
morning rise	2177 Feb 09 17:54	15°♌30'52			2179 Sep 29 01:26	0°♎	
direct	2177 Feb 26 15:07	9°♌57'28		desc. node	2179 Oct 07 19:31	10°♎45'35	
greatest brilliancy	2177 Mar 09 09:27	12°♌06'22	-4.6m		2179 Oct 23 12:01	0°♏	
	2177 Apr 05 00:52	0°♋			2179 Nov 17 01:34	0°☾	
morning max el	2177 Apr 17 06:41	11°♋23'39	46°19'17		2179 Dec 11 21:20	0°♌	
desc. node	2177 Apr 22 00:14	16°♋05'38			2180 Jan 06 08:11	0°♋	
	2177 May 05 09:14	0°♎		asc. node	2180 Jan 28 22:38	25°♋14'15	
	2177 Jun 01 12:43	0°♏			2180 Feb 02 10:38	0°♎	
	2177 Jun 27 13:14	0°♐		evening max el	2180 Feb 07 12:13	5°♎12'51	46°51'55
	2177 Jul 22 22:54	0°♑			2180 Mar 07 03:07	0°♏	
asc. node	2177 Aug 13 03:37	25°♑28'19		greatest brilliancy	2180 Mar 14 18:12	4°♏22'39	-4.6m
	2177 Aug 16 21:16	0°♒		retrograde	2180 Mar 28 22:33	8°♏00'49	
	2177 Sep 10 10:00	0°♓		evening set	2180 Apr 14 16:20	2°♏31'28	
	2177 Oct 04 15:10	0°♈			2180 Apr 18 18:27	30°♎♎	
morning set	2177 Oct 12 03:10	9°♈20'54		inferior conj	2180 Apr 19 02:50	29°♎46'47	6°28'57
	2177 Oct 28 15:26	0°♎		minimum elong	2180 Apr 19 12:44	29°♎31'11	6°26'57
max. Earth dist.	2177 Nov 18 11:13	26°♎07'37	1.71322 AU	min. Earth dist.	2180 Apr 19 00:39	29°♎50'13	0.28414 AU
				morning rise	2180 Apr 24 09:32	26°♎33'48	
superior conj	2177 Nov 19 23:57	28°♎03'01	0°29'50	direct	2180 May 10 08:24	21°♎38'38	
minimum elong	2177 Nov 20 07:05	28°♎25'25	0°29'30	desc. node	2180 May 19 12:05	23°♎11'32	
	2177 Nov 21 13:12	0°♏		greatest brilliancy	2180 May 22 07:42	24°♎13'31	-4.5m
desc. node	2177 Dec 02 17:15	14°♏02'09			2180 Jun 02 01:32	0°♏	
	2177 Dec 15 10:04	0°☾		morning max el	2180 Jun 28 05:30	21°♏39'12	45°45'14
evening rise	2177 Dec 31 02:08	19°☾41'44			2180 Jul 06 17:37	0°♐	
	2178 Jan 08 07:05	0°♌			2180 Aug 03 21:29	0°♑	
	2178 Feb 01 05:37	0°♋			2180 Aug 30 03:53	0°♒	
	2178 Feb 25 07:53	0°♎		asc. node	2180 Sep 09 15:36	12°♒20'49	
	2178 Mar 21 16:59	0°♏			2180 Sep 24 09:35	0°♓	
asc. node	2178 Mar 25 20:29	5°♏03'18			2180 Oct 18 23:28	0°♈	
	2178 Apr 15 12:49	0°♐			2180 Nov 12 03:33	0°♎	
	2178 May 11 01:16	0°♑			2180 Dec 06 02:25	0°♏	
	2178 Jun 06 18:54	0°♒		morning set	2180 Dec 25 07:24	24°♏08'35	
evening max el	2178 Jul 01 12:48	25°♒24'53	45°26'30		2180 Dec 29 23:10	0°☾	
	2178 Jul 06 10:21	0°♓		desc. node	2180 Dec 30 04:57	0°☾18'12	
desc. node	2178 Jul 15 09:47	7°♓50'26			2181 Jan 22 19:37	0°♌	
greatest brilliancy	2178 Aug 07 00:41	22°♓25'49	-4.5m				



superior conj	2181 Feb 05 01:28	16°≈38'15	-1°-13'-42	morning rise	2183 Jul 04 21:50	3°≈49'10	
minimum elong	2181 Feb 04 14:48	16°≈04'44	1°13'26		2183 Jul 13 20:28	30°RⅡ	
max. Earth dist.	2181 Feb 08 05:59	20°≈38'21	1.71348 AU	direct	2183 Jul 20 14:54	29°Ⅱ05'55	
	2181 Feb 15 17:05	0°≈			2183 Jul 27 15:13	0°≈	
	2181 Mar 11 16:59	0°≈		greatest brilliancy	2183 Aug 03 08:06	2°≈21'34	-4.5m
evening rise	2181 Mar 17 16:09	7°≈25'52		morning max el	2183 Sep 07 13:35	29°≈06'20	45°55'54
	2181 Apr 04 20:47	0°≈			2183 Sep 08 11:45	0°≈	
asc. node	2181 Apr 22 08:29	21°≈33'09			2183 Oct 06 23:25	0°≈	
	2181 Apr 29 05:51	0°≈		asc. node	2183 Oct 08 03:28	1°≈18'29	
	2181 May 23 21:24	0°≈			2183 Nov 01 22:51	0°≈	
	2181 Jun 17 21:15	0°≈			2183 Nov 26 19:38	0°≈	
	2181 Jul 13 09:14	0°≈			2183 Dec 21 03:30	0°≈	
	2181 Aug 08 18:02	0°≈			2184 Jan 14 05:41	0°≈	
desc. node	2181 Aug 11 21:36	3°≈29'03		desc. node	2184 Jan 27 16:48	16°≈48'55	
	2181 Sep 05 22:34	0°≈			2184 Feb 07 05:59	0°≈	
evening max el	2181 Sep 12 03:08	6°≈06'28	46°17'04		2184 Mar 02 06:25	0°≈	
	2181 Oct 11 03:57	0°≈		morning set	2184 Mar 12 06:58	12°≈30'05	
greatest brilliancy	2181 Oct 20 22:29	4°≈54'19	-4.6m		2184 Mar 26 08:19	0°≈	
retrograde	2181 Oct 31 14:34	6°≈59'09			2184 Apr 19 12:42	0°≈	
evening set	2181 Nov 15 13:13	2°≈39'53					
	2181 Nov 20 03:24	30°RⅢ		superior conj	2184 Apr 20 08:20	1°≈00'44	-1°-2'-49
inferior conj	2181 Nov 21 05:44	29°≈19'56	-2°-59'-36	minimum elong	2184 Apr 20 18:27	1°≈32'00	1°02'29
minimum elong	2181 Nov 21 12:17	29°≈09'56	2°57'36	max. Earth dist.	2184 Apr 23 11:42	4°≈53'45	1.72831 AU
min. Earth dist.	2181 Nov 21 18:26	29°≈00'34	0.26686 AU		2184 May 13 19:59	0°≈	
morning rise	2181 Nov 27 10:49	25°≈42'13		asc. node	2184 May 19 20:15	7°≈23'55	
asc. node	2181 Dec 03 00:58	23°≈11'17		evening rise	2184 May 28 04:08	17°≈38'02	
direct	2181 Dec 11 19:38	21°≈36'55			2184 Jun 07 05:59	0°≈	
greatest brilliancy	2181 Dec 24 17:35	24°≈42'30	-4.7m		2184 Jul 01 18:28	0°≈	
	2182 Jan 02 23:58	0°≈			2184 Jul 26 09:54	0°≈	
morning max el	2182 Jan 31 10:21	24°≈51'35	46°56'15		2184 Aug 20 05:55	0°≈	
	2182 Feb 05 10:19	0°≈		desc. node	2184 Sep 08 09:36	22°≈54'11	
	2182 Mar 04 18:01	0°≈			2184 Sep 14 09:06	0°≈	
desc. node	2182 Mar 24 14:37	22°≈58'27			2184 Oct 09 23:48	0°≈	
	2182 Mar 30 14:05	0°≈			2184 Nov 05 12:54	0°≈	
	2182 Apr 24 20:10	0°≈		evening max el	2184 Nov 24 02:20	19°≈39'01	47°14'48
	2182 May 19 19:48	0°≈			2184 Dec 04 17:41	0°≈	
	2182 Jun 13 15:42	0°≈		asc. node	2184 Dec 30 12:49	19°≈20'27	
	2182 Jul 08 08:07	0°≈		greatest brilliancy	2185 Jan 01 14:01	20°≈18'15	-4.7m
asc. node	2182 Jul 15 17:49	9°≈02'18		retrograde	2185 Jan 13 23:46	23°≈12'32	
morning set	2182 Aug 01 13:04	29°≈37'43		evening set	2185 Jan 30 04:47	18°≈00'49	
	2182 Aug 01 20:20	0°≈		min. Earth dist.	2185 Feb 02 20:18	15°≈48'57	0.27010 AU
	2182 Aug 26 04:06	0°≈		inferior conj	2185 Feb 03 16:50	15°≈17'13	7°35'28
max. Earth dist.	2182 Sep 03 13:34	10°≈24'08	1.72722 AU	minimum elong	2185 Feb 03 07:21	15°≈31'53	7°33'53
				morning rise	2185 Feb 07 10:13	13°≈01'24	
superior conj	2182 Sep 07 00:43	14°≈42'05	1°24'40	direct	2185 Feb 24 04:07	7°≈32'42	
minimum elong	2182 Sep 06 23:25	14°≈38'01	1°24'39	greatest brilliancy	2185 Mar 06 22:39	9°≈42'23	-4.6m
	2182 Sep 19 08:14	0°≈			2185 Apr 05 06:12	0°≈	
	2182 Oct 13 10:14	0°≈		morning max el	2185 Apr 14 21:20	9°≈05'07	46°20'46
evening rise	2182 Oct 14 12:16	1°≈21'07		desc. node	2185 Apr 21 02:22	15°≈17'12	
desc. node	2182 Nov 04 07:27	27°≈17'50			2185 May 05 03:07	0°≈	
	2182 Nov 06 11:27	0°≈			2185 Jun 01 03:12	0°≈	
	2182 Nov 30 12:48	0°≈			2185 Jun 27 02:07	0°≈	
	2182 Dec 24 15:19	0°≈			2185 Jul 22 10:54	0°≈	
	2183 Jan 17 21:28	0°≈		asc. node	2185 Aug 12 05:46	24°≈59'57	
	2183 Feb 11 12:11	0°≈			2185 Aug 16 08:45	0°≈	
asc. node	2183 Feb 25 10:34	16°≈38'14			2185 Sep 09 21:12	0°≈	
	2183 Mar 08 20:34	0°≈			2185 Oct 04 02:15	0°≈	
	2183 Apr 04 17:38	0°≈		morning set	2185 Oct 09 18:14	7°≈03'37	
evening max el	2183 Apr 19 12:06	15°≈06'47	45°45'59		2185 Oct 28 02:32	0°≈	
	2183 May 06 00:07	0°≈		max. Earth dist.	2185 Nov 15 21:44	23°≈34'56	1.71352 AU
greatest brilliancy	2183 May 23 21:45	11°≈52'33	-4.5m				
retrograde	2183 Jun 07 11:56	15°≈37'05		superior conj	2185 Nov 17 11:51	25°≈34'39	0°33'23
desc. node	2183 Jun 16 23:55	13°≈49'48		minimum elong	2185 Nov 17 19:39	25°≈59'07	0°33'01
evening set	2183 Jun 22 15:16	11°≈12'28			2185 Nov 21 00:21	0°≈	
inferior conj	2183 Jun 29 00:28	7°≈23'00	-2°-47'-11	desc. node	2185 Dec 01 19:12	13°≈33'13	
minimum elong	2183 Jun 28 18:35	7°≈32'13	2°45'33		2185 Dec 14 21:16	0°≈	
min. Earth dist.	2183 Jun 28 21:56	7°≈26'59	0.28973 AU	evening rise	2185 Dec 28 12:35	17°≈08'28	

	2186 Jan 07 18:20	0°☿				2188 Aug 03 12:23	0°☿	
	2186 Jan 31 16:57	0°♁				2188 Aug 29 16:55	0°♁	
	2186 Feb 24 19:24	0°♂			asc. node	2188 Sep 08 17:40	11°♁49'32	
	2186 Mar 21 04:51	0°♂				2188 Sep 23 21:44	0°♁	
asc. node	2186 Mar 24 22:36	4°♂33'26				2188 Oct 18 11:09	0°♁	
	2186 Apr 15 01:19	0°♁				2188 Nov 11 14:59	0°♁	
	2186 May 10 15:03	0°☿				2188 Dec 05 13:43	0°♁	
evening max el	2186 Jun 06 11:32	0°♁			morning set	2188 Dec 22 17:34	21°♁34'14	
	2186 Jun 29 04:45	23°♁13'40	45°25'52		desc. node	2188 Dec 29 06:59	29°♁49'16	
desc. node	2186 Jul 06 12:18	0°♁				2188 Dec 29 10:24	0°☿	
	2186 Jul 14 11:52	6°♁48'35				2189 Jan 22 06:49	0°☿	
greatest brilliancy	2186 Aug 04 13:16	20°♁09'52	-4.5m					
retrograde	2186 Aug 16 19:23	22°♁47'50			superior conj	2189 Feb 02 11:37	14°☿04'21	-1°-11'-33
evening set	2186 Sep 03 17:49	16°♁48'03			minimum elong	2189 Feb 02 00:29	13°☿29'23	1°11'16
inferior conj	2186 Sep 07 01:43	14°♁45'50	-8°-39'-52		max. Earth dist.	2189 Feb 05 11:52	17°☿51'07	1.71311 AU
minimum elong	2186 Sep 07 00:03	14°♁48'24	8°39'50			2189 Feb 15 04:16	0°♁	
min. Earth dist.	2186 Sep 07 14:13	14°♁26'28	0.28549 AU			2189 Mar 11 04:07	0°♂	
morning rise	2186 Sep 10 06:10	12°♁48'32			evening rise	2189 Mar 15 04:04	4°♂58'53	
direct	2186 Sep 28 12:44	6°♁34'05				2189 Apr 04 07:56	0°♂	
greatest brilliancy	2186 Oct 13 00:30	10°♁19'35	-4.6m		asc. node	2189 Apr 21 10:28	21°♂04'42	
asc. node	2186 Nov 04 15:11	26°♁27'47				2189 Apr 28 17:08	0°♁	
	2186 Nov 08 12:30	0°♁				2189 May 23 09:00	0°☿	
morning max el	2186 Nov 17 20:33	9°♁04'12	46°38'34			2189 Jun 17 09:29	0°♁	
	2186 Dec 07 11:11	0°♁				2189 Jul 12 22:41	0°♁	
	2187 Jan 02 11:03	0°♁				2189 Aug 08 09:51	0°♁	
	2187 Jan 27 10:30	0°☿			desc. node	2189 Aug 10 23:42	2°♁50'13	
desc. node	2187 Feb 21 00:06	0°☿				2189 Sep 05 20:27	0°♁	
	2187 Feb 24 04:45	3°☿55'02			evening max el	2189 Sep 09 15:17	3°♁42'08	46°14'32
	2187 Mar 17 09:56	0°♁				2189 Oct 12 22:55	0°♁	
	2187 Apr 10 18:55	0°♂			greatest brilliancy	2189 Oct 18 12:08	2°♁29'17	-4.6m
	2187 May 05 04:28	0°♂			retrograde	2189 Oct 29 02:15	4°♁32'35	
morning set	2187 May 23 12:24	22°♂30'43			evening set	2189 Nov 13 03:59	0°♁09'45	
	2187 May 29 14:49	0°♁				2189 Nov 13 11:09	30°♁	
asc. node	2187 Jun 17 08:04	22°♁58'50			inferior conj	2189 Nov 18 18:14	26°♁53'11	-3°-22'-1
	2187 Jun 23 01:16	0°☿			minimum elong	2189 Nov 19 01:30	26°♁42'07	3°19'51
max. Earth dist.	2187 Jun 28 12:59	6°☿44'31	1.73586 AU		min. Earth dist.	2189 Nov 19 08:38	26°♁31'15	0.26732 AU
					morning rise	2189 Nov 24 22:23	23°♁16'31	
superior conj	2187 Jun 29 07:27	7°☿41'15	0°27'59		asc. node	2189 Dec 02 02:56	20°♁13'12	
minimum elong	2187 Jun 29 02:00	7°☿24'28	0°27'44		direct	2189 Dec 09 07:59	19°♁09'04	
	2187 Jul 17 10:56	0°♁			greatest brilliancy	2189 Dec 22 09:53	22°♁18'31	-4.7m
evening rise	2187 Aug 04 04:13	21°♁49'05				2190 Jan 04 00:32	0°♁	
	2187 Aug 10 19:34	0°♁			morning max el	2190 Jan 28 23:16	22°♁24'08	46°56'45
	2187 Sep 04 03:54	0°♁				2190 Feb 05 07:19	0°☿	
	2187 Sep 28 13:04	0°♁				2190 Mar 04 09:55	0°☿	
desc. node	2187 Oct 06 21:33	10°♁15'37			desc. node	2190 Mar 23 16:38	22°☿22'54	
	2187 Oct 23 00:07	0°♁				2190 Mar 30 03:51	0°♁	
	2187 Nov 16 14:21	0°☿				2190 Apr 24 08:44	0°♂	
	2187 Dec 11 11:11	0°☿				2190 May 19 07:37	0°♂	
	2188 Jan 05 23:58	0°♁				2190 Jun 13 03:02	0°♁	
asc. node	2188 Jan 28 00:48	24°♁28'13				2190 Jul 07 19:08	0°☿	
	2188 Feb 02 07:23	0°♂			asc. node	2190 Jul 14 20:01	8°☿35'33	
evening max el	2188 Feb 05 03:25	2°♂54'01	46°54'00		morning set	2190 Jul 30 06:59	27°☿31'54	
	2188 Mar 08 10:13	0°♂				2190 Aug 01 07:11	0°♁	
greatest brilliancy	2188 Mar 12 12:52	2°♂11'01	-4.6m			2190 Aug 25 14:56	0°♁	
retrograde	2188 Mar 26 14:18	5°♂45'50			max. Earth dist.	2190 Sep 01 09:05	8°♁22'11	1.72775 AU
evening set	2188 Apr 12 10:59	0°♂12'44						
	2188 Apr 12 19:29	30°♁			superior conj	2190 Sep 04 18:06	12°♁33'22	1°24'21
inferior conj	2188 Apr 16 18:28	27°♂32'16	6°42'48		minimum elong	2190 Sep 04 16:05	12°♁27'07	1°24'21
minimum elong	2188 Apr 17 04:17	27°♂16'47	6°40'56			2190 Sep 18 19:09	0°♁	
min. Earth dist.	2188 Apr 16 15:49	27°♂36'27	0.28380 AU		evening rise	2190 Oct 12 02:45	29°♁02'11	
morning rise	2188 Apr 21 21:58	24°♂23'36				2190 Oct 12 21:18	0°♁	
direct	2188 May 07 23:42	19°♂24'58			desc. node	2190 Nov 03 09:24	26°♁48'49	
desc. node	2188 May 18 13:59	21°♂27'43				2190 Nov 05 22:43	0°♁	
greatest brilliancy	2188 May 19 20:08	21°♂56'51	-4.5m			2190 Nov 30 00:19	0°☿	
	2188 Jun 02 23:04	0°♂				2190 Dec 24 03:08	0°☿	
morning max el	2188 Jun 25 20:09	19°♂25'14	45°45'36			2191 Jan 17 09:41	0°♁	
	2188 Jul 06 13:10	0°♁				2191 Feb 11 01:08	0°♂	

asc. node	2191 Feb 24 12:38	16° $\Upsilon$ 04'05		2193 Sep 09 08:04	0° $\eta$		
	2191 Mar 08 10:59	0° $\mathcal{B}$		2193 Oct 03 13:02	0° $\mathcal{L}$		
	2191 Apr 04 11:38	0° $\Pi$	morning set	2193 Oct 07 09:44	4° $\mathcal{L}$ 48'45		
evening max el	2191 Apr 17 03:19	12° $\mathcal{L}$ 53'16	45°47'57	2193 Oct 27 13:19	0° $\mathcal{M}$		
	2191 May 06 09:52	0° $\mathcal{E}$		max. Earth dist.	2193 Nov 13 07:09	20° $\mathcal{M}$ 59'51	1.71387 AU
greatest brilliancy	2191 May 21 12:18	9° $\mathcal{E}$ 41'11	-4.5m				
retrograde	2191 Jun 05 04:53	13° $\mathcal{E}$ 28'46		superior conj	2193 Nov 15 00:09	23° $\mathcal{M}$ 08'33	0°36'49
desc. node	2191 Jun 16 02:01	11° $\mathcal{E}$ 07'47		minimum elong	2193 Nov 15 08:31	23° $\mathcal{M}$ 34'49	0°36'26
evening set	2191 Jun 20 07:09	9° $\mathcal{E}$ 04'26			2193 Nov 20 11:12	0° $\mathcal{A}$	
inferior conj	2191 Jun 26 16:56	5° $\mathcal{E}$ 14'20	-2°-28'-21	desc. node	2193 Nov 30 21:18	13° $\mathcal{A}$ 05'36	
minimum elong	2191 Jun 26 11:39	5° $\mathcal{E}$ 22'37	2°26'52		2193 Dec 14 08:13	0° $\mathcal{C}$	
min. Earth dist.	2191 Jun 26 14:21	5° $\mathcal{E}$ 18'23	0.28965 AU	evening rise	2193 Dec 25 22:55	14° $\mathcal{C}$ 35'33	
morning rise	2191 Jul 02 16:08	1° $\mathcal{E}$ 38'15			2194 Jan 07 05:23	0° $\approx$	
	2191 Jul 05 19:52	30° $\mathcal{R}$ $\Pi$			2194 Jan 31 04:08	0° $\mathcal{H}$	
direct	2191 Jul 18 07:01	26° $\mathcal{L}$ 57'15			2194 Feb 24 06:46	0° $\Upsilon$	
	2191 Jul 31 12:19	0° $\mathcal{E}$			2194 Mar 20 16:31	0° $\mathcal{B}$	
greatest brilliancy	2191 Aug 01 00:28	0° $\mathcal{E}$ 13'22	-4.5m	asc. node	2194 Mar 24 00:33	4° $\mathcal{B}$ 03'39	
morning max el	2191 Sep 05 05:54	26° $\mathcal{E}$ 56'42	45°54'49		2194 Apr 14 13:37	0° $\Pi$	
	2191 Sep 08 09:05	0° $\mathcal{Q}$			2194 May 10 04:38	0° $\mathcal{E}$	
	2191 Oct 06 14:49	0° $\eta$			2194 Jun 06 04:07	0° $\mathcal{Q}$	
asc. node	2191 Oct 07 05:29	0° $\eta$ 41'13		evening max el	2194 Jun 26 20:24	21° $\mathcal{Q}$ 02'47	45°25'18
	2191 Nov 01 12:11	0° $\mathcal{L}$			2194 Jul 06 15:12	0° $\eta$	
	2191 Nov 26 08:02	0° $\mathcal{M}$		desc. node	2194 Jul 13 14:00	5° $\eta$ 46'34	
	2191 Dec 20 15:24	0° $\mathcal{A}$		greatest brilliancy	2194 Aug 02 02:48	17° $\eta$ 56'28	-4.5m
	2192 Jan 13 17:16	0° $\mathcal{C}$		retrograde	2194 Aug 14 09:59	20° $\eta$ 35'26	
desc. node	2192 Jan 26 18:59	16° $\mathcal{C}$ 20'05		evening set	2194 Sep 01 07:15	14° $\eta$ 38'18	
	2192 Feb 06 17:19	0° $\approx$		inferior conj	2194 Sep 04 17:03	12° $\eta$ 32'59	-8°-37'-23
	2192 Mar 01 17:31	0° $\mathcal{H}$		minimum elong	2194 Sep 04 14:36	12° $\eta$ 36'48	8°37'20
morning set	2192 Mar 09 18:55	10° $\mathcal{H}$ 03'16		min. Earth dist.	2194 Sep 05 04:40	12° $\eta$ 14'56	0.28591 AU
	2192 Mar 25 19:15	0° $\Upsilon$		morning rise	2194 Sep 07 21:48	10° $\eta$ 34'57	
				direct	2194 Sep 26 04:36	4° $\eta$ 20'52	
superior conj	2192 Apr 17 23:14	28° $\Upsilon$ 44'48	-1°-5'-9	greatest brilliancy	2194 Oct 10 14:49	8° $\eta$ 03'50	-4.6m
minimum elong	2192 Apr 18 09:21	29° $\Upsilon$ 16'06	1°04'51	asc. node	2194 Nov 03 17:10	25° $\eta$ 29'11	
	2192 Apr 18 23:32	0° $\mathcal{B}$			2194 Nov 08 13:53	0° $\mathcal{L}$	
max. Earth dist.	2192 Apr 21 03:46	2° $\mathcal{B}$ 41'35	1.72782 AU	morning max el	2194 Nov 15 10:38	6° $\mathcal{L}$ 44'06	46°37'06
	2192 May 13 06:48	0° $\Pi$			2194 Dec 07 03:53	0° $\mathcal{M}$	
asc. node	2192 May 18 22:19	6° $\mathcal{L}$ 57'01			2195 Jan 02 01:03	0° $\mathcal{A}$	
evening rise	2192 May 25 21:30	15° $\mathcal{L}$ 30'47			2195 Jan 26 23:14	0° $\mathcal{C}$	
	2192 Jun 06 16:51	0° $\mathcal{E}$			2195 Feb 20 12:06	0° $\approx$	
	2192 Jul 01 05:29	0° $\mathcal{Q}$		desc. node	2195 Feb 23 06:44	3° $\approx$ 24'31	
	2192 Jul 25 21:16	0° $\eta$			2195 Mar 16 21:27	0° $\mathcal{H}$	
	2192 Aug 19 17:54	0° $\mathcal{L}$			2195 Apr 10 06:05	0° $\Upsilon$	
desc. node	2192 Sep 07 11:38	22° $\mathcal{L}$ 22'29			2195 May 04 15:20	0° $\mathcal{B}$	
	2192 Sep 13 22:05	0° $\mathcal{M}$		morning set	2195 May 21 05:35	20° $\mathcal{B}$ 23'18	
	2192 Oct 09 14:31	0° $\mathcal{A}$			2195 May 29 01:28	0° $\Pi$	
	2192 Nov 05 07:06	0° $\mathcal{C}$		asc. node	2195 Jun 16 10:13	22° $\mathcal{L}$ 33'02	
evening max el	2192 Nov 21 17:08	17° $\mathcal{C}$ 17'13	47°13'48		2195 Jun 22 11:48	0° $\mathcal{E}$	
	2192 Dec 04 23:03	0° $\approx$		max. Earth dist.	2195 Jun 26 09:47	4° $\mathcal{E}$ 48'36	1.73585 AU
asc. node	2192 Dec 29 15:00	17° $\approx$ 37'01					
greatest brilliancy	2192 Dec 30 03:54	17° $\approx$ 51'26	-4.7m	superior conj	2195 Jun 27 01:36	5° $\mathcal{E}$ 37'09	0°24'59
retrograde	2193 Jan 11 13:44	20° $\approx$ 45'11		minimum elong	2195 Jun 26 20:40	5° $\mathcal{E}$ 22'00	0°24'45
evening set	2193 Jan 27 13:50	15° $\approx$ 39'37			2195 Jul 16 21:29	0° $\mathcal{Q}$	
min. Earth dist.	2193 Jan 31 08:51	13° $\approx$ 22'50	0.26956 AU	evening rise	2195 Aug 01 22:51	19° $\mathcal{Q}$ 45'51	
inferior conj	2193 Feb 01 05:43	12° $\approx$ 50'38	7°22'49		2195 Aug 10 06:16	0° $\eta$	
minimum elong	2193 Jan 31 19:51	13° $\approx$ 05'51	7°21'03		2195 Sep 03 14:50	0° $\mathcal{L}$	
morning rise	2193 Feb 05 02:14	10° $\approx$ 30'35			2195 Sep 28 00:21	0° $\mathcal{M}$	
direct	2193 Feb 21 17:08	5° $\approx$ 07'02		desc. node	2195 Oct 05 23:32	9° $\mathcal{M}$ 46'38	
greatest brilliancy	2193 Mar 04 10:43	7° $\approx$ 16'29	-4.6m		2195 Oct 22 11:52	0° $\mathcal{A}$	
	2193 Apr 05 09:37	0° $\mathcal{H}$			2195 Nov 16 02:47	0° $\mathcal{C}$	
morning max el	2193 Apr 12 11:42	6° $\mathcal{H}$ 46'09	46°22'22		2195 Dec 11 00:41	0° $\approx$	
desc. node	2193 Apr 20 04:21	14° $\mathcal{H}$ 29'35			2196 Jan 05 15:33	0° $\mathcal{H}$	
	2193 May 04 20:24	0° $\Upsilon$		asc. node	2196 Jan 27 02:47	23° $\mathcal{H}$ 42'15	
	2193 May 31 17:15	0° $\mathcal{B}$			2196 Feb 02 04:24	0° $\Upsilon$	
	2193 Jun 26 14:38	0° $\Pi$		evening max el	2196 Feb 02 17:34	0° $\Upsilon$ 33'29	46°55'48
	2193 Jul 21 22:33	0° $\mathcal{E}$			2196 Mar 10 07:49	0° $\mathcal{B}$	
asc. node	2193 Aug 11 07:49	24° $\mathcal{E}$ 32'12		greatest brilliancy	2196 Mar 10 07:04	29° $\Upsilon$ 59'06	-4.6m
	2193 Aug 15 19:54	0° $\mathcal{Q}$		retrograde	2196 Mar 24 05:36	3° $\mathcal{B}$ 31'08	

	2196 Apr 06 11:13	30°R♃		superior conj	2198 Sep 02 11:23	10°♃25'16	1°23'56
evening set	2196 Apr 10 05:28	27°♃54'10		minimum elong	2198 Sep 02 08:42	10°♃16'56	1°23'55
inferior conj	2196 Apr 14 09:58	25°♃18'05	6°56'09		2198 Sep 18 05:47	0°♃	
minimum elong	2196 Apr 14 19:37	25°♃02'50	6°54'24	evening rise	2198 Oct 09 17:21	26°♃44'34	
min. Earth dist.	2196 Apr 14 07:11	25°♃22'29	0.28348 AU		2198 Oct 12 08:06	0°♃	
morning rise	2196 Apr 19 10:07	22°♃13'57		desc. node	2198 Nov 02 11:30	26°♃21'00	
direct	2196 May 05 14:17	17°♃11'23			2198 Nov 05 09:46	0°♃	
greatest brilliancy	2196 May 17 09:32	19°♃41'32	-4.5m		2198 Nov 29 11:38	0°♃	
desc. node	2196 May 17 16:06	19°♃48'13			2198 Dec 23 14:46	0°♃	
	2196 Jun 03 14:47	0°♃			2199 Jan 16 21:44	0°♃	
morning max el	2196 Jun 23 10:25	17°♃10'57	45°46'13		2199 Feb 10 13:55	0°♃	
	2196 Jul 06 07:51	0°♃		asc. node	2199 Feb 23 14:39	15°♃30'19	
	2196 Aug 03 02:42	0°♃			2199 Mar 08 01:17	0°♃	
	2196 Aug 29 05:29	0°♃			2199 Apr 04 05:46	0°♃	
asc. node	2196 Sep 07 19:38	11°♃19'19		evening max el	2199 Apr 14 19:21	10°♃42'32	45°49'54
	2196 Sep 23 09:26	0°♃			2199 May 06 22:37	0°♃	
	2196 Oct 17 22:25	0°♃		greatest brilliancy	2199 May 19 03:17	7°♃31'07	-4.5m
	2196 Nov 11 02:01	0°♃		retrograde	2199 Jun 02 22:01	11°♃20'50	
	2196 Dec 05 00:38	0°♃		desc. node	2199 Jun 15 04:07	8°♃22'19	
morning set	2196 Dec 20 04:11	19°♃02'28		evening set	2199 Jun 17 23:14	6°♃56'45	
desc. node	2196 Dec 28 09:09	29°♃21'57		inferior conj	2199 Jun 24 09:22	3°♃06'02	-2°-9'-19
	2196 Dec 28 21:15	0°♃		minimum elong	2199 Jun 24 04:43	3°♃13'19	2°08'00
	2197 Jan 21 17:37	0°♃		min. Earth dist.	2199 Jun 24 06:34	3°♃10'25	0.28956 AU
					2199 Jun 29 11:35	30°R♃	
superior conj	2197 Jan 30 22:06	11°♃32'44	-1°-9'-17	morning rise	2199 Jun 30 10:17	29°♃27'52	
minimum elong	2197 Jan 30 10:35	10°♃56'36	1°08'57	direct	2199 Jul 15 23:37	24°♃49'01	
max. Earth dist.	2197 Feb 02 16:02	14°♃59'46	1.71276 AU	greatest brilliancy	2199 Jul 29 16:05	28°♃04'39	-4.5m
	2197 Feb 14 15:02	0°♃			2199 Aug 02 13:26	0°♃	
	2197 Mar 10 14:53	0°♃		morning max el	2199 Sep 02 22:46	24°♃48'53	45°53'44
evening rise	2197 Mar 12 16:08	2°♃33'25			2199 Sep 08 05:33	0°♃	
	2197 Apr 03 18:46	0°♃		asc. node	2199 Oct 06 07:33	0°♃04'49	
asc. node	2197 Apr 20 12:30	20°♃37'23			2199 Oct 06 05:51	0°♃	
	2197 Apr 28 04:07	0°♃			2199 Nov 01 01:15	0°♃	
	2197 May 22 20:21	0°♃			2199 Nov 25 20:11	0°♃	
	2197 Jun 16 21:29	0°♃			2199 Dec 20 03:06	0°♃	
	2197 Jul 12 11:54	0°♃			2200 Jan 13 04:41	0°♃	
	2197 Aug 08 01:33	0°♃		desc. node	2200 Jan 25 20:51	15°♃50'42	
desc. node	2197 Aug 10 01:43	2°♃11'52			2200 Feb 06 04:30	0°♃	
	2197 Sep 05 18:44	0°♃			2200 Mar 02 04:31	0°♃	
evening max el	2197 Sep 07 03:37	1°♃19'43	46°12'10	morning set	2200 Mar 08 06:50	7°♃36'29	
	2197 Oct 15 19:44	0°♃			2200 Mar 26 06:06	0°♃	
greatest brilliancy	2197 Oct 16 00:50	0°♃04'46	-4.6m				
retrograde	2197 Oct 26 14:25	2°♃07'48		superior conj	2200 Apr 16 14:07	26°♃28'56	-1°-7'-24
	2197 Nov 05 22:36	30°R♃		minimum elong	2200 Apr 17 00:09	27°♃00'03	1°07'06
evening set	2197 Nov 10 18:59	27°♃40'49			2200 Apr 19 10:17	0°♃	
inferior conj	2197 Nov 16 06:51	24°♃27'50	-3°-43'-51	max. Earth dist.	2200 Apr 19 21:32	0°♃34'47	1.72732 AU
minimum elong	2197 Nov 16 14:46	24°♃15'47	3°41'33		2200 May 13 17:31	0°♃	
min. Earth dist.	2197 Nov 16 22:40	24°♃03'46	0.26783 AU	asc. node	2200 May 19 00:27	6°♃30'38	
morning rise	2197 Nov 22 09:51	20°♃52'46		evening rise	2200 May 24 14:53	13°♃23'51	
asc. node	2197 Dec 01 05:09	17°♃22'10			2200 Jun 07 03:38	0°♃	
direct	2197 Dec 06 20:56	16°♃42'26			2200 Jul 01 16:28	0°♃	
greatest brilliancy	2197 Dec 20 02:25	19°♃56'09	-4.7m		2200 Jul 26 08:40	0°♃	
	2198 Jan 04 18:10	0°♃			2200 Aug 20 05:56	0°♃	
morning max el	2198 Jan 26 13:22	20°♃00'48	46°57'18	desc. node	2200 Sep 07 13:36	21°♃50'25	
	2198 Feb 05 03:14	0°♃			2200 Sep 14 11:11	0°♃	
	2198 Mar 04 01:13	0°♃			2200 Oct 10 05:25	0°♃	
desc. node	2198 Mar 22 18:38	21°♃48'39			2200 Nov 06 01:44	0°♃	
	2198 Mar 29 17:08	0°♃		evening max el	2200 Nov 20 08:16	14°♃56'20	47°12'44
	2198 Apr 23 20:53	0°♃			2200 Dec 06 06:35	0°♃	
	2198 May 18 19:05	0°♃		greatest brilliancy	2200 Dec 28 18:20	15°♃25'17	-4.7m
	2198 Jun 12 14:04	0°♃		asc. node	2200 Dec 29 17:00	15°♃49'16	
	2198 Jul 07 05:54	0°♃		retrograde	2201 Jan 10 03:25	18°♃17'20	
asc. node	2198 Jul 13 22:02	8°♃08'59		evening set	2201 Jan 25 22:57	13°♃18'05	
morning set	2198 Jul 28 00:48	25°♃26'32		min. Earth dist.	2201 Jan 29 21:34	10°♃56'00	0.26905 AU
	2198 Jul 31 17:49	0°♃		inferior conj	2201 Jan 30 18:31	10°♃23'39	7°09'18
	2198 Aug 25 01:31	0°♃		minimum elong	2201 Jan 30 08:22	10°♃39'19	7°07'21
max. Earth dist.	2198 Aug 30 05:21	6°♃23'24	1.72821 AU	morning rise	2201 Feb 03 18:14	7°♃59'05	

direct	2201 Feb 20 06:09	2°♊41'04		desc. node	2203 Oct 06 01:40	9°♍17'02	
greatest brilliancy	2201 Mar 02 22:36	4°♊49'46	-4.6m		2203 Oct 23 00:02	0°♊	
	2201 Apr 06 11:40	0°♋			2203 Nov 16 15:42	0°♌	
morning max el	2201 Apr 11 01:30	4°♋25'23	46°23'58		2203 Dec 11 14:47	0°♍	
desc. node	2201 Apr 20 06:25	13°♋42'41			2204 Jan 06 07:53	0°♎	
	2201 May 05 13:25	0°♌		asc. node	2204 Jan 27 04:47	22°♋54'14	
	2201 Jun 01 07:15	0°♍		evening max el	2204 Feb 01 07:04	28°♋09'46	46°57'47
	2201 Jun 27 03:09	0°♎			2204 Feb 03 02:46	0°♌	
	2201 Jul 22 10:15	0°♏		greatest brilliancy	2204 Mar 09 00:05	27°♌44'03	-4.6m
asc. node	2201 Aug 11 09:46	24°♏03'55			2204 Mar 14 19:05	0°♍	
	2201 Aug 16 07:08	0°♐		retrograde	2204 Mar 22 20:47	1°♎14'56	
	2201 Sep 09 19:05	0°♑			2204 Mar 30 16:14	30°♏♌	
	2201 Oct 03 23:59	0°♒		evening set	2204 Apr 08 23:47	25°♌33'45	
morning set	2201 Oct 06 01:06	2°♒32'56		inferior conj	2204 Apr 13 01:21	23°♌02'14	7°08'58
	2201 Oct 28 00:17	0°♓		minimum elong	2204 Apr 13 10:47	22°♌47'20	7°07'20
max. Earth dist.	2201 Nov 11 13:35	18°♓14'58	1.71421 AU	min. Earth dist.	2204 Apr 12 22:27	23°♌06'49	0.28315 AU
				morning rise	2204 Apr 17 22:02	20°♌02'57	
superior conj	2201 Nov 13 12:27	20°♓41'59	0°40'10	direct	2204 May 04 04:26	14°♌55'55	
minimum elong	2201 Nov 13 21:20	21°♓09'51	0°39'47	greatest brilliancy	2204 May 15 23:36	17°♌25'32	-4.5m
	2201 Nov 20 22:14	0°♊		desc. node	2204 May 17 18:13	18°♌10'54	
desc. node	2201 Nov 30 23:23	12°♊37'26			2204 Jun 05 03:06	0°♍	
	2201 Dec 14 19:19	0°♋		morning max el	2204 Jun 22 01:08	14°♌56'25	45°46'56
evening rise	2201 Dec 24 09:07	12°♋01'48			2204 Jul 07 02:29	0°♎	
	2202 Jan 07 16:35	0°♌			2204 Aug 03 17:17	0°♏	
	2202 Jan 31 15:28	0°♍			2204 Aug 29 18:20	0°♐	
	2202 Feb 24 18:19	0°♎		asc. node	2204 Sep 07 21:45	10°♑48'33	
asc. node	2202 Mar 21 04:26	0°♏			2204 Sep 23 21:27	0°♒	
	2202 Mar 24 02:38	3°♏33'34			2204 Oct 18 10:00	0°♓	
	2202 Apr 15 02:12	0°♐			2204 Nov 11 13:24	0°♔	
	2202 May 10 18:33	0°♑			2204 Dec 05 11:56	0°♕	
	2202 Jun 06 21:14	0°♒		morning set	2204 Dec 18 14:38	16°♕28'52	
evening max el	2202 Jun 25 11:13	18°♒49'22	45°24'49	desc. node	2204 Dec 28 11:05	28°♕52'35	
	2202 Jul 07 20:07	0°♓			2204 Dec 29 08:31	0°♖	
desc. node	2202 Jul 13 15:56	4°♓42'08			2205 Jan 22 04:52	0°♗	
greatest brilliancy	2202 Jul 31 16:04	15°♓42'15	-4.5m				
retrograde	2202 Aug 13 00:15	18°♓22'46		superior conj	2205 Jan 29 07:58	8°♘57'43	-1°-6'-49
evening set	2202 Aug 30 20:23	12°♓28'34		minimum elong	2205 Jan 28 20:10	8°♘20'39	1°06'27
inferior conj	2202 Sep 03 08:27	10°♓19'46	-8°-34'-11	max. Earth dist.	2205 Jan 31 18:30	12°♘01'31	1.71247 AU
minimum elong	2202 Sep 03 05:11	10°♓24'51	8°34'03		2205 Feb 15 02:15	0°♙	
min. Earth dist.	2202 Sep 03 19:27	10°♓02'40	0.28635 AU	evening rise	2205 Mar 11 03:36	0°♑04'43	
morning rise	2202 Sep 06 13:49	8°♓20'33			2205 Mar 11 02:05	0°♒	
direct	2202 Sep 24 20:04	2°♓07'03			2205 Apr 04 06:00	0°♓	
greatest brilliancy	2202 Oct 09 05:59	5°♓48'31	-4.6m	asc. node	2205 Apr 20 14:37	20°♔09'01	
asc. node	2202 Nov 03 19:20	24°♓31'20			2205 Apr 28 15:33	0°♔	
	2202 Nov 09 14:25	0°♕			2205 May 23 08:09	0°♕	
morning max el	2202 Nov 14 00:20	4°♕22'01	46°35'35		2205 Jun 17 09:59	0°♖	
	2202 Dec 07 20:40	0°♎			2205 Jul 13 01:40	0°♗	
	2203 Jan 02 15:17	0°♏			2205 Aug 08 17:57	0°♘	
	2203 Jan 27 12:12	0°♐		desc. node	2205 Aug 10 03:45	1°♕32'04	
desc. node	2203 Feb 21 00:21	0°♑		evening max el	2205 Sep 05 16:53	28°♕58'47	46°09'57
	2203 Feb 23 08:47	2°♑53'23			2205 Sep 06 18:24	0°♎	
	2203 Mar 17 09:13	0°♒		greatest brilliancy	2205 Oct 14 12:20	27°♎38'30	-4.6m
	2203 Apr 10 17:30	0°♓		retrograde	2205 Oct 25 03:04	29°♎42'27	
	2203 May 05 02:30	0°♔		evening set	2205 Nov 09 10:09	25°♎11'11	
morning set	2203 May 19 22:35	18°♔14'18		inferior conj	2205 Nov 14 19:29	22°♎01'44	-4°-5'-8
	2203 May 29 12:26	0°♕		minimum elong	2205 Nov 15 04:00	21°♎48'49	4°02'44
asc. node	2203 Jun 16 12:13	22°♕05'44		min. Earth dist.	2205 Nov 15 12:16	21°♎36'15	0.26838 AU
	2203 Jun 22 22:40	0°♖		morning rise	2205 Nov 20 21:10	18°♎28'45	
max. Earth dist.	2203 Jun 25 05:22	2°♖47'58	1.73580 AU	asc. node	2205 Dec 01 07:05	14°♎36'39	
				direct	2205 Dec 05 10:34	14°♎15'17	
superior conj	2203 Jun 25 19:44	3°♖32'07	0°21'57	greatest brilliancy	2205 Dec 18 18:20	17°♎32'18	-4.7m
minimum elong	2203 Jun 25 15:21	3°♖18'38	0°21'44		2206 Jan 06 07:48	0°♏	
	2203 Jul 17 08:21	0°♗		morning max el	2206 Jan 25 04:14	17°♏38'12	46°57'31
evening rise	2203 Jul 31 17:36	17°♗42'10			2206 Feb 05 23:03	0°♐	
	2203 Aug 10 17:15	0°♘			2206 Mar 04 16:47	0°♑	
	2203 Sep 04 02:05	0°♙		desc. node	2206 Mar 22 20:45	21°♒13'25	
	2203 Sep 28 11:58	0°♚			2206 Mar 30 06:47	0°♓	

	2206 Apr 24 09:27	0°♃		evening max el	2208 Nov 17 23:09	12°♁34'30	47°11'36
	2206 May 19 06:57	0°♄			2208 Dec 06 16:52	0°♁	
	2206 Jun 13 01:29	0°♅		greatest brilliancy	2208 Dec 26 09:45	13°♁00'23	-4.7m
	2206 Jul 07 17:02	0°♆		asc. node	2208 Dec 28 18:58	13°♁57'23	
asc. node	2206 Jul 13 23:58	7°♁41'05		retrograde	2209 Jan 07 16:48	15°♁49'35	
morning set	2206 Jul 26 18:32	23°♁19'55		evening set	2209 Jan 23 08:19	10°♁56'46	
	2206 Aug 01 04:49	0°♇		min. Earth dist.	2209 Jan 27 10:49	8°♁29'03	0.26851 AU
	2206 Aug 25 12:29	0°♈		inferior conj	2209 Jan 28 07:27	7°♁57'10	6°54'58
max. Earth dist.	2206 Aug 29 00:35	4°♈20'19	1.72864 AU	minimum elong	2209 Jan 27 21:07	8°♁13'09	6°52'52
				morning rise	2209 Feb 01 10:21	5°♁27'54	
superior conj	2206 Sep 01 04:47	8°♈16'23	1°23'23	direct	2209 Feb 17 18:55	0°♁15'38	
minimum elong	2206 Sep 01 01:27	8°♈06'02	1°23'21	greatest brilliancy	2209 Feb 28 11:15	2°♁24'03	-4.6m
	2206 Sep 18 16:48	0°♉			2209 Apr 06 12:19	0°♈	
evening rise	2206 Oct 08 08:15	24°♉26'49		morning max el	2209 Apr 08 14:23	2°♈02'13	46°25'25
	2206 Oct 12 19:15	0°♊		desc. node	2209 Apr 19 08:32	12°♈56'45	
desc. node	2206 Nov 02 13:35	25°♊52'10			2209 May 05 06:08	0°♃	
	2206 Nov 05 21:07	0°♋			2209 May 31 21:10	0°♄	
	2206 Nov 29 23:14	0°♌			2209 Jun 26 15:40	0°♅	
	2206 Dec 24 02:41	0°♍			2209 Jul 21 21:57	0°♆	
	2207 Jan 17 10:09	0°♎		asc. node	2209 Aug 10 11:56	23°♁36'08	
	2207 Feb 11 03:10	0°♏			2209 Aug 15 18:22	0°♇	
asc. node	2207 Feb 23 16:42	14°♏55'23			2209 Sep 09 06:06	0°♈	
	2207 Mar 08 16:11	0°♐			2209 Oct 03 10:56	0°♉	
	2207 Apr 05 00:54	0°♑		morning set	2209 Oct 03 16:24	0°♉17'02	
evening max el	2207 Apr 13 12:00	8°♑31'55	45°51'58		2209 Oct 27 11:15	0°♊	
	2207 May 08 16:38	0°♒		max. Earth dist.	2209 Nov 08 19:51	15°♊29'36	1.71461 AU
greatest brilliancy	2207 May 17 19:29	5°♒21'15	-4.5m				
retrograde	2207 Jun 01 14:57	9°♒11'17		superior conj	2209 Nov 11 00:56	18°♊16'05	0°43'26
desc. node	2207 Jun 15 06:01	5°♒31'56		minimum elong	2209 Nov 11 10:16	18°♊45'20	0°43'02
evening set	2207 Jun 16 15:27	4°♒47'37			2209 Nov 20 09:16	0°♋	
inferior conj	2207 Jun 23 01:43	0°♒56'19	-1°-50'-1	desc. node	2209 Nov 30 01:21	12°♋08'47	
minimum elong	2207 Jun 22 21:43	1°♒02'34	1°48'52		2209 Dec 14 06:25	0°♌	
min. Earth dist.	2207 Jun 22 22:39	1°♒01'06	0.28944 AU	evening rise	2209 Dec 21 19:30	9°♌28'41	
	2207 Jun 24 13:48	30°♌♊			2210 Jan 07 03:45	0°♍	
morning rise	2207 Jun 29 04:12	27°♌16'06			2210 Jan 31 02:45	0°♎	
direct	2207 Jul 14 16:23	22°♌39'38			2210 Feb 24 05:46	0°♏	
greatest brilliancy	2207 Jul 28 06:27	25°♌53'14	-4.5m		2210 Mar 20 16:13	0°♐	
	2207 Aug 04 22:43	0°♍		asc. node	2210 Mar 23 04:44	3°♐03'57	
morning max el	2207 Sep 01 15:07	22°♍38'59	45°52'37		2210 Apr 14 14:40	0°♑	
	2207 Sep 09 01:44	0°♎			2210 May 10 08:29	0°♒	
asc. node	2207 Oct 06 09:37	29°♎27'51			2210 Jun 06 14:39	0°♓	
	2207 Oct 06 20:59	0°♏		evening max el	2210 Jun 23 01:30	16°♓34'54	45°24'25
	2207 Nov 01 14:30	0°♐			2210 Jul 08 03:04	0°♑	
	2207 Nov 26 08:33	0°♑		desc. node	2210 Jul 12 18:02	3°♑36'36	
	2207 Dec 20 14:58	0°♒		greatest brilliancy	2210 Jul 29 04:45	13°♑27'43	-4.5m
	2208 Jan 13 16:15	0°♓		retrograde	2210 Aug 10 14:48	16°♑10'54	
desc. node	2208 Jan 25 22:57	15°♓21'33		evening set	2210 Aug 28 09:20	10°♑19'44	
	2208 Feb 06 15:50	0°♔		inferior conj	2210 Aug 31 23:57	8°♑07'15	-8°-30'-8
	2208 Mar 01 15:41	0°♕		minimum elong	2210 Aug 31 19:56	8°♑13'30	8°29'55
morning set	2208 Mar 05 18:41	5°♕08'57		min. Earth dist.	2210 Sep 01 10:26	7°♑50'57	0.28678 AU
	2208 Mar 25 17:10	0°♖		morning rise	2210 Sep 04 06:20	6°♑06'26	
					2210 Sep 20 04:34	30°♌♊	
superior conj	2208 Apr 14 04:39	24°♖11'14	-1°-9'-33	direct	2210 Sep 22 11:26	29°♓53'48	
minimum elong	2208 Apr 14 14:32	24°♖41'52	1°09'16		2210 Sep 24 18:53	0°♑	
max. Earth dist.	2208 Apr 17 15:52	28°♖28'59	1.72683 AU	greatest brilliancy	2210 Oct 06 22:16	3°♑35'22	-4.6m
	2208 Apr 18 21:16	0°♗		asc. node	2210 Nov 02 21:19	23°♑34'55	
	2208 May 13 04:28	0°♘			2210 Nov 09 13:40	0°♒	
asc. node	2208 May 18 02:24	6°♘02'56		morning max el	2210 Nov 11 14:13	2°♒01'03	46°34'05
evening rise	2208 May 22 07:47	11°♘14'40			2210 Dec 07 12:58	0°♓	
	2208 Jun 06 14:38	0°♙			2211 Jan 02 05:11	0°♔	
	2208 Jul 01 03:41	0°♚			2211 Jan 27 00:56	0°♕	
	2208 Jul 25 20:16	0°♛			2211 Feb 20 12:22	0°♖	
	2208 Aug 19 18:14	0°♜		desc. node	2211 Feb 22 10:53	2°♖23'05	
desc. node	2208 Sep 06 15:44	21°♜18'09			2211 Mar 16 20:44	0°♗	
	2208 Sep 14 00:36	0°♝			2211 Apr 10 04:39	0°♘	
	2208 Oct 09 20:43	0°♞			2211 May 04 13:21	0°♙	
	2208 Nov 05 21:02	0°♟		morning set	2211 May 17 15:46	16°♙06'36	

	2211 May 28 23:07	0°♄		morning rise	2213 Nov 18 08:14	16°♍06'03	
asc. node	2211 Jun 15 14:13	21°♄39'16		asc. node	2213 Nov 30 09:05	11°♍58'08	
	2211 Jun 22 09:16	0°♄		direct	2213 Dec 03 00:33	11°♍49'28	
max. Earth dist.	2211 Jun 23 01:14	0°♄49'00	1.73581 AU	greatest brilliancy	2213 Dec 16 09:21	15°♍08'25	-4.7m
					2214 Jan 06 17:33	0°♄	
superior conj	2211 Jun 23 14:00	1°♄28'13	0°18'53	morning max el	2214 Jan 22 19:02	15°♄16'36	46°57'38
minimum elong	2211 Jun 23 10:11	1°♄16'29	0°18'42		2214 Feb 05 17:56	0°♄	
	2211 Jul 16 19:00	0°♄			2214 Mar 04 07:45	0°♄	
evening rise	2211 Jul 29 12:27	15°♄39'32		desc. node	2214 Mar 21 22:47	20°♄39'20	
	2211 Aug 10 04:03	0°♄			2214 Mar 29 19:57	0°♄	
	2211 Sep 03 13:07	0°♄			2214 Apr 23 21:34	0°♄	
	2211 Sep 27 23:23	0°♄			2214 May 18 18:24	0°♄	
desc. node	2211 Oct 05 03:41	8°♄47'44			2214 Jun 12 12:29	0°♄	
	2211 Oct 22 11:59	0°♄			2214 Jul 07 03:45	0°♄	
	2211 Nov 16 04:26	0°♄		asc. node	2214 Jul 13 02:10	7°♄15'12	
	2211 Dec 11 04:45	0°♄		morning set	2214 Jul 24 12:43	21°♄16'01	
	2212 Jan 06 00:12	0°♄			2214 Jul 31 15:22	0°♄	
asc. node	2212 Jan 26 06:57	22°♄06'44			2214 Aug 24 23:00	0°♄	
evening max el	2212 Jan 29 20:58	25°♄47'51	46°59'46	max. Earth dist.	2214 Aug 26 19:24	2°♄17'21	1.72908 AU
	2212 Feb 03 01:43	0°♄					
greatest brilliancy	2212 Mar 06 16:23	25°♄28'58	-4.6m	superior conj	2214 Aug 29 22:34	6°♄10'06	1°22'44
retrograde	2212 Mar 20 12:26	28°♄59'58		minimum elong	2214 Aug 29 18:36	5°♄57'48	1°22'41
evening set	2212 Apr 06 18:08	23°♄14'23			2214 Sep 18 03:25	0°♄	
inferior conj	2212 Apr 10 16:48	20°♄47'32	7°21'02	evening rise	2214 Oct 05 23:25	22°♄11'01	
minimum elong	2212 Apr 11 01:58	20°♄33'04	7°19'32		2214 Oct 12 06:04	0°♄	
min. Earth dist.	2212 Apr 10 13:33	20°♄52'39	0.28280 AU	desc. node	2214 Nov 01 15:33	25°♄24'00	
morning rise	2212 Apr 15 10:02	17°♄53'28			2214 Nov 05 08:10	0°♄	
direct	2212 May 01 18:47	12°♄41'37			2214 Nov 29 10:34	0°♄	
greatest brilliancy	2212 May 13 13:47	15°♄11'06	-4.5m		2214 Dec 23 14:21	0°♄	
desc. node	2212 May 16 20:07	16°♄38'10			2215 Jan 16 22:17	0°♄	
	2212 Jun 05 11:36	0°♄			2215 Feb 10 16:10	0°♄	
morning max el	2212 Jun 19 16:44	12°♄45'18	45°47'42	asc. node	2215 Feb 22 18:46	14°♄21'15	
	2212 Jul 06 20:11	0°♄			2215 Mar 08 06:57	0°♄	
	2212 Aug 03 07:16	0°♄			2215 Apr 04 20:12	0°♄	
	2212 Aug 29 06:47	0°♄		evening max el	2215 Apr 11 04:38	6°♄22'02	45°53'58
asc. node	2212 Sep 06 23:48	10°♄18'41			2215 May 09 16:29	0°♄	
	2212 Sep 23 09:07	0°♄		greatest brilliancy	2215 May 15 13:01	3°♄14'04	-4.5m
	2212 Oct 17 21:16	0°♄		retrograde	2215 May 30 07:34	7°♄02'46	
	2212 Nov 11 00:28	0°♄		evening set	2215 Jun 14 07:55	2°♄39'33	
	2212 Dec 04 22:54	0°♄		desc. node	2215 Jun 14 08:10	2°♄39'13	
morning set	2212 Dec 16 01:17	13°♄56'59			2215 Jun 18 19:58	30°♄	
desc. node	2212 Dec 27 13:09	28°♄24'41		inferior conj	2215 Jun 20 18:07	28°♄47'54	-1°-30'-31
	2212 Dec 28 19:27	0°♄		minimum elong	2215 Jun 20 14:49	28°♄53'04	1°29'34
	2213 Jan 21 15:47	0°♄		min. Earth dist.	2215 Jun 20 15:01	28°♄52'45	0.28926 AU
				morning rise	2215 Jun 26 21:59	25°♄05'38	
superior conj	2213 Jan 26 17:46	6°♄23'24	-1°-4'-12	direct	2215 Jul 12 09:03	20°♄31'40	
minimum elong	2213 Jan 26 05:47	5°♄45'45	1°03'49	greatest brilliancy	2215 Jul 25 20:03	23°♄42'06	-4.5m
max. Earth dist.	2213 Jan 28 23:56	9°♄13'35	1.71223 AU		2215 Aug 05 21:46	0°♄	
	2213 Feb 14 13:09	0°♄		morning max el	2215 Aug 30 06:37	20°♄28'25	45°51'37
evening rise	2213 Mar 08 15:06	27°♄37'04			2215 Sep 08 20:47	0°♄	
	2213 Mar 10 12:58	0°♄		asc. node	2215 Oct 05 11:37	28°♄52'18	
	2213 Apr 03 16:55	0°♄			2215 Oct 06 11:28	0°♄	
asc. node	2213 Apr 19 16:35	19°♄41'15			2215 Nov 01 03:17	0°♄	
	2213 Apr 28 02:37	0°♄			2215 Nov 25 20:33	0°♄	
	2213 May 22 19:34	0°♄			2215 Dec 20 02:33	0°♄	
	2213 Jun 16 22:05	0°♄			2216 Jan 13 03:34	0°♄	
	2213 Jul 12 15:05	0°♄		desc. node	2216 Jan 25 01:06	14°♄53'13	
	2213 Aug 08 10:11	0°♄			2216 Feb 06 02:57	0°♄	
desc. node	2213 Aug 09 05:52	0°♄53'17			2216 Mar 01 02:37	0°♄	
evening max el	2213 Sep 03 07:05	26°♄41'20	46°07'33	morning set	2216 Mar 03 06:02	2°♄40'31	
	2213 Sep 06 18:43	0°♄			2216 Mar 25 03:58	0°♄	
greatest brilliancy	2213 Oct 11 23:40	25°♄13'22	-4.6m				
retrograde	2213 Oct 22 15:55	27°♄18'06		superior conj	2216 Apr 11 18:52	21°♄53'15	-1°-11'-35
evening set	2213 Nov 07 01:33	22°♄42'43		minimum elong	2216 Apr 12 04:31	22°♄23'11	1°11'21
inferior conj	2213 Nov 12 08:09	19°♄36'43	-4°-25'-54	max. Earth dist.	2216 Apr 15 10:37	26°♄25'12	1.72630 AU
minimum elong	2213 Nov 12 17:11	19°♄23'00	4°23'25		2216 Apr 18 07:59	0°♄	
min. Earth dist.	2213 Nov 13 01:35	19°♄10'14	0.26895 AU		2216 May 12 15:10	0°♄	

asc. node	2216 May 17 04:27	5°♊36'16		asc. node	2218 Nov 01 23:19	22°♎39'55	
evening rise	2216 May 20 00:29	9°♊05'29		morning max el	2218 Nov 09 04:52	29°♎42'27	46°32'49
	2216 Jun 06 01:25	0°♋			2218 Nov 09 11:52	0°♌	
	2216 Jun 30 14:39	0°♌			2218 Dec 07 04:53	0°♍	
	2216 Jul 25 07:38	0°♍			2219 Jan 01 18:53	0°♎	
	2216 Aug 19 06:17	0°♎			2219 Jan 26 13:33	0°♏	
desc. node	2216 Sep 05 17:46	20°♌46'30		desc. node	2219 Feb 20 00:20	0°♐	
	2216 Sep 13 13:45	0°♍			2219 Feb 21 12:52	1°♐52'25	
	2216 Oct 09 11:51	0°♎			2219 Mar 16 08:18	0°♑	
	2216 Nov 05 16:34	0°♏			2219 Apr 09 15:53	0°♒	
evening max el	2216 Nov 15 12:56	10°♏10'35	47°10'07		2219 May 04 00:21	0°♓	
	2216 Dec 07 06:24	0°♐		morning set	2219 May 15 08:25	13°♓56'43	
greatest brilliancy	2216 Dec 24 01:23	10°♐35'38	-4.7m		2219 May 28 09:55	0°♊	
asc. node	2216 Dec 27 21:08	12°♐01'04		asc. node	2219 Jun 14 16:21	21°♊12'48	
retrograde	2217 Jan 05 05:17	13°♐21'30					
evening set	2217 Jan 20 17:32	8°♐34'53		superior conj	2219 Jun 21 07:49	29°♊22'36	0°15'45
min. Earth dist.	2217 Jan 25 00:19	6°♐01'07	0.26804 AU	minimum elong	2219 Jun 21 04:36	29°♊12'42	0°15'36
inferior conj	2217 Jan 25 20:12	5°♐30'23	6°39'31	behind sun begin	2219 Jun 21 00:47	29°♊00'57	
minimum elong	2217 Jan 25 09:44	5°♐46'34	6°37'17	behind sun end	2219 Jun 21 08:26	29°♊24'28	
morning rise	2217 Jan 30 02:19	2°♐56'18		max. Earth dist.	2219 Jun 20 21:55	28°♊52'09	1.73578 AU
	2217 Feb 04 22:42	30°♑			2219 Jun 21 20:00	0°♋	
direct	2217 Feb 15 07:03	27°♑49'35			2219 Jul 16 05:46	0°♌	
greatest brilliancy	2217 Feb 26 01:04	29°♑59'11	-4.6m	evening rise	2219 Jul 27 07:08	13°♌36'07	
	2217 Feb 26 01:55	0°♐			2219 Aug 09 14:59	0°♍	
morning max el	2217 Apr 06 02:22	29°♐36'43	46°26'59		2219 Sep 03 00:19	0°♎	
	2217 Apr 06 11:48	0°♑			2219 Sep 27 10:57	0°♏	
desc. node	2217 Apr 18 10:30	12°♑11'19		desc. node	2219 Oct 04 05:40	8°♏18'00	
	2217 May 04 22:26	0°♒			2219 Oct 22 00:05	0°♐	
	2217 May 31 10:49	0°♓			2219 Nov 15 17:18	0°♑	
	2217 Jun 26 03:59	0°♊			2219 Dec 10 18:51	0°♒	
	2217 Jul 21 09:30	0°♋			2220 Jan 05 16:48	0°♓	
asc. node	2217 Aug 09 13:56	23°♋08'20		asc. node	2220 Jan 25 08:55	21°♓17'59	
	2217 Aug 15 05:28	0°♌		evening max el	2220 Jan 27 11:32	23°♓27'31	47°01'35
	2217 Sep 08 16:57	0°♍			2220 Feb 03 01:44	0°♔	
morning set	2217 Oct 01 08:12	28°♍03'14		greatest brilliancy	2220 Mar 04 07:48	23°♔12'10	-4.6m
	2217 Oct 02 21:42	0°♎		retrograde	2220 Mar 18 04:21	26°♔44'01	
	2217 Oct 26 22:02	0°♏		evening set	2220 Apr 04 12:15	20°♔53'55	
max. Earth dist.	2217 Nov 06 06:11	12°♏57'39	1.71503 AU	inferior conj	2220 Apr 08 08:05	18°♔31'33	7°32'23
				minimum elong	2220 Apr 08 16:56	18°♔17'37	7°31'02
superior conj	2217 Nov 08 13:59	15°♏52'37	0°46'34	min. Earth dist.	2220 Apr 08 04:07	18°♔37'46	0.28250 AU
minimum elong	2217 Nov 08 23:40	16°♏23'00	0°46'09	morning rise	2220 Apr 12 21:50	15°♔42'55	
	2217 Nov 19 20:06	0°♐		direct	2220 Apr 29 09:34	10°♔26'00	
desc. node	2217 Nov 29 03:28	11°♐41'15		greatest brilliancy	2220 May 11 03:39	12°♔55'10	-4.5m
	2217 Dec 13 17:21	0°♑		desc. node	2220 May 15 22:17	15°♔07'55	
evening rise	2217 Dec 19 06:13	6°♑57'08			2220 Jun 05 18:08	0°♕	
	2218 Jan 06 14:50	0°♒		morning max el	2220 Jun 17 08:51	10°♕34'27	45°48'25
	2218 Jan 30 13:59	0°♓			2220 Jul 06 13:49	0°♖	
	2218 Feb 23 17:14	0°♔			2220 Aug 02 21:26	0°♗	
	2218 Mar 20 04:04	0°♕			2220 Aug 28 19:24	0°♘	
asc. node	2218 Mar 22 06:41	2°♕33'44		asc. node	2220 Sep 06 01:46	9°♘47'58	
	2218 Apr 14 03:15	0°♖			2220 Sep 22 20:59	0°♙	
	2218 May 09 22:37	0°♗			2220 Oct 17 08:44	0°♚	
	2218 Jun 06 08:31	0°♘			2220 Nov 10 11:43	0°♛	
evening max el	2218 Jun 20 15:36	14°♘19'56	45°24'11		2220 Dec 04 10:04	0°♜	
	2218 Jul 08 12:44	0°♙		morning set	2220 Dec 13 12:22	11°♜25'57	
desc. node	2218 Jul 11 20:08	2°♙29'11		desc. node	2220 Dec 26 15:18	27°♜56'28	
greatest brilliancy	2218 Jul 26 16:29	11°♙11'59	-4.5m		2220 Dec 28 06:33	0°♝	
retrograde	2218 Aug 08 05:50	13°♙59'06			2221 Jan 21 02:51	0°♞	
evening set	2218 Aug 25 21:58	8°♙11'04					
inferior conj	2218 Aug 29 15:23	5°♙54'37	-8°-25'-17	superior conj	2221 Jan 24 03:54	3°♞49'39	-1°-1'-28
minimum elong	2218 Aug 29 10:39	6°♙01'59	8°24'59	minimum elong	2221 Jan 23 15:51	3°♞11'48	1°01'04
min. Earth dist.	2218 Aug 30 01:09	5°♙39'27	0.28717 AU	max. Earth dist.	2221 Jan 26 09:03	6°♞36'44	1.71196 AU
morning rise	2218 Sep 01 23:06	3°♙51'56			2221 Feb 14 00:10	0°♟	
	2218 Sep 09 07:21	30°♑		evening rise	2221 Mar 06 02:54	25°♟09'48	
direct	2218 Sep 20 02:50	27°♑40'26			2221 Mar 10 00:00	0°♠	
	2218 Oct 01 10:47	0°♒			2221 Apr 03 04:02	0°♡	
greatest brilliancy	2218 Oct 04 15:21	1°♒23'31	-4.6m	asc. node	2221 Apr 18 18:39	19°♡13'04	



	2221 Apr 27 13:57	0°♁			2223 Nov 25 08:52	0°♁	
	2221 May 22 07:19	0°♁			2223 Dec 19 14:27	0°♁	
	2221 Jun 16 10:35	0°♁			2224 Jan 12 15:11	0°♁	
	2221 Jul 12 05:00	0°♁		desc. node	2224 Jan 24 03:00	14°♁23'06	
desc. node	2221 Aug 08 07:51	0°♁12'43			2224 Feb 05 14:22	0°♁	
	2221 Aug 08 03:08	0°♁		morning set	2224 Feb 29 17:21	0°♁10'53	
evening max el	2221 Aug 31 21:26	24°♁23'22	46°05'12		2224 Feb 29 13:52	0°♁	
	2221 Sep 06 20:48	0°♁			2224 Mar 24 15:04	0°♁	
greatest brilliancy	2221 Oct 09 11:40	22°♁48'12	-4.6m				
retrograde	2221 Oct 20 04:29	24°♁52'41		superior conj	2224 Apr 09 09:19	19°♁35'06	-1°-13'-31
evening set	2221 Nov 04 17:03	20°♁13'19		minimum elong	2224 Apr 09 18:41	20°♁04'09	1°13'18
inferior conj	2221 Nov 09 20:47	17°♁10'50	-4°-46'-5	max. Earth dist.	2224 Apr 13 04:41	24°♁18'20	1.72571 AU
minimum elong	2221 Nov 10 06:16	16°♁56'25	4°43'33		2224 Apr 17 18:59	0°♁	
min. Earth dist.	2221 Nov 10 14:52	16°♁43'20	0.26949 AU		2224 May 12 02:07	0°♁	
morning rise	2221 Nov 15 18:59	13°♁42'33		asc. node	2224 May 16 06:36	5°♁09'10	
asc. node	2221 Nov 29 11:17	9°♁24'28		evening rise	2224 May 17 17:24	6°♁56'12	
direct	2221 Nov 30 14:30	9°♁22'53			2224 Jun 05 12:26	0°♁	
greatest brilliancy	2221 Dec 13 23:41	12°♁42'37	-4.7m		2224 Jun 30 01:55	0°♁	
	2222 Jan 07 01:03	0°♁			2224 Jul 24 19:22	0°♁	
morning max el	2222 Jan 20 09:04	12°♁52'09	46°57'52		2224 Aug 18 18:44	0°♁	
	2222 Feb 05 12:34	0°♁		desc. node	2224 Sep 04 19:44	20°♁13'22	
	2222 Mar 03 22:44	0°♁			2224 Sep 13 03:24	0°♁	
desc. node	2222 Mar 21 00:47	20°♁04'49			2224 Oct 09 03:39	0°♁	
	2222 Mar 29 09:12	0°♁			2224 Nov 05 13:08	0°♁	
	2222 Apr 23 09:50	0°♁		evening max el	2224 Nov 13 01:40	7°♁42'57	47°08'43
	2222 May 18 06:04	0°♁			2224 Dec 08 01:03	0°♁	
	2222 Jun 11 23:46	0°♁		greatest brilliancy	2224 Dec 21 16:46	8°♁09'25	-4.7m
	2222 Jul 06 14:48	0°♁		asc. node	2224 Dec 26 23:06	9°♁58'43	
asc. node	2222 Jul 12 04:10	6°♁47'40		retrograde	2225 Jan 02 17:37	10°♁52'34	
morning set	2222 Jul 22 06:41	19°♁10'21		evening set	2225 Jan 18 02:50	6°♁11'30	
	2222 Jul 31 02:17	0°♁		min. Earth dist.	2225 Jan 22 13:57	3°♁31'54	0.26759 AU
	2222 Aug 24 09:54	0°♁		inferior conj	2225 Jan 23 08:56	3°♁02'36	6°23'21
max. Earth dist.	2222 Aug 24 12:17	0°♁07'24	1.72951 AU	minimum elong	2225 Jan 22 22:24	3°♁18'52	6°20'59
				morning rise	2225 Jan 27 18:18	0°♁23'51	
superior conj	2222 Aug 27 16:09	4°♁02'08	1°21'56		2225 Jan 28 11:08	30°♁♁	
minimum elong	2222 Aug 27 11:35	3°♁48'00	1°21'53	direct	2225 Feb 12 18:52	25°♁22'14	
	2222 Sep 17 14:24	0°♁		greatest brilliancy	2225 Feb 23 15:40	27°♁34'10	-4.6m
evening rise	2222 Oct 03 14:23	19°♁53'40			2225 Feb 28 22:16	0°♁	
	2222 Oct 11 17:13	0°♁		morning max el	2225 Apr 03 14:42	27°♁11'04	46°28'43
desc. node	2222 Oct 31 17:39	24°♁55'10			2225 Apr 06 10:39	0°♁	
	2222 Nov 04 19:35	0°♁		desc. node	2225 Apr 17 12:37	11°♁26'06	
	2222 Nov 28 22:15	0°♁			2225 May 04 14:42	0°♁	
	2222 Dec 23 02:22	0°♁			2225 May 31 00:34	0°♁	
	2223 Jan 16 10:48	0°♁			2225 Jun 25 16:25	0°♁	
asc. node	2223 Feb 10 05:33	0°♁		asc. node	2225 Jul 20 21:11	0°♁	
	2223 Feb 21 20:46	13°♁46'00			2225 Aug 08 15:56	22°♁39'58	
	2223 Mar 07 22:08	0°♁			2225 Aug 14 16:44	0°♁	
	2223 Apr 04 16:19	0°♁			2225 Sep 08 04:03	0°♁	
evening max el	2223 Apr 08 20:24	4°♁09'22	45°55'59	morning set	2225 Sep 28 23:57	25°♁48'29	
	2223 May 11 02:30	0°♁			2225 Oct 02 08:45	0°♁	
greatest brilliancy	2223 May 13 06:38	1°♁06'24	-4.5m		2225 Oct 26 09:07	0°♁	
retrograde	2223 May 27 23:48	4°♁53'49		max. Earth dist.	2225 Nov 03 18:01	10°♁29'24	1.71547 AU
evening set	2223 Jun 12 00:39	0°♁30'43					
	2223 Jun 12 22:37	30°♁♁		superior conj	2225 Nov 06 02:52	13°♁27'36	0°49'37
desc. node	2223 Jun 13 10:14	29°♁43'19		minimum elong	2225 Nov 06 12:50	13°♁58'53	0°49'13
inferior conj	2223 Jun 18 10:39	26°♁39'02	-1°-11'-2		2225 Nov 19 07:16	0°♁	
minimum elong	2223 Jun 18 08:03	26°♁43'07	1°10'17	desc. node	2225 Nov 28 05:33	11°♁12'38	
min. Earth dist.	2223 Jun 18 07:49	26°♁43'30	0.28913 AU		2225 Dec 13 04:36	0°♁	
morning rise	2223 Jun 24 15:44	22°♁54'42		evening rise	2225 Dec 16 16:43	4°♁24'03	
direct	2223 Jul 10 01:31	18°♁23'05			2226 Jan 06 02:12	0°♁	
greatest brilliancy	2223 Jul 23 10:14	21°♁30'42	-4.5m		2226 Jan 30 01:30	0°♁	
	2223 Aug 06 15:16	0°♁			2226 Feb 23 04:58	0°♁	
morning max el	2223 Aug 27 21:25	18°♁14'55	45°50'33		2226 Mar 19 16:11	0°♁	
	2223 Sep 08 15:47	0°♁		asc. node	2226 Mar 21 08:46	2°♁03'12	
asc. node	2223 Oct 04 13:43	28°♁16'01			2226 Apr 13 16:08	0°♁	
	2223 Oct 06 02:14	0°♁			2226 May 09 13:04	0°♁	
	2223 Oct 31 16:24	0°♁			2226 Jun 06 02:56	0°♁	

evening max el	2226 Jun 18 06:32	12°Ω06'58	45°24'11			2228 Dec 03 21:09	0°♁	
	2226 Jul 09 01:44	0°♎		morning set		2228 Dec 10 23:31	8°♁55'15	
desc. node	2226 Jul 10 22:05	1°♎19'44		desc. node		2228 Dec 25 17:14	27°♁27'40	
greatest brilliancy	2226 Jul 24 03:41	8°♎56'07	-4.5m			2228 Dec 27 17:39	0°♁	
retrograde	2226 Aug 05 21:41	11°♎47'59				2229 Jan 20 13:56	0°≈	
evening set	2226 Aug 23 10:41	6°♎03'15						
inferior conj	2226 Aug 27 07:05	3°♎42'29	-8°-19'-43	superior conj		2229 Jan 21 13:31	1°≈14'10	0°-58'-35
minimum elong	2226 Aug 27 01:38	3°♎50'56	8°19'18	minimum elong		2229 Jan 21 01:33	0°≈36'31	0°58'09
min. Earth dist.	2226 Aug 27 15:41	3°♎29'08	0.28757 AU	max. Earth dist.		2229 Jan 23 17:20	3°≈57'01	1.71174 AU
morning rise	2226 Aug 30 16:23	1°♎37'34				2229 Feb 13 11:14	0°♁	
	2226 Sep 02 11:49	30°♎♁		evening rise		2229 Mar 03 14:00	22°♁40'09	
direct	2226 Sep 17 18:55	25°Ω27'42				2229 Mar 09 11:02	0°♎	
greatest brilliancy	2226 Oct 02 08:34	29°Ω12'12	-4.6m			2229 Apr 02 15:09	0°♁	
	2226 Oct 03 22:46	0°♎		asc. node		2229 Apr 17 20:46	18°♁45'13	
asc. node	2226 Nov 01 01:30	21°♎46'02				2229 Apr 27 01:16	0°♁	
morning max el	2226 Nov 06 20:38	27°♎26'20	46°31'13			2229 May 21 19:01	0°♁	
	2226 Nov 09 09:26	0°♁				2229 Jun 15 23:01	0°Ω	
	2226 Dec 06 20:48	0°♎				2229 Jul 11 18:53	0°♎	
	2227 Jan 01 08:43	0°♁		desc. node		2229 Aug 07 09:55	29°♎32'36	
	2227 Jan 26 02:19	0°♁				2229 Aug 07 20:10	0°♁	
	2227 Feb 19 12:28	0°≈		evening max el		2229 Aug 29 11:46	22°♁06'21	46°02'58
desc. node	2227 Feb 20 14:57	1°≈21'35				2229 Sep 06 23:55	0°♎	
	2227 Mar 15 19:59	0°♁		greatest brilliancy		2229 Oct 07 00:46	20°♎26'08	-4.6m
	2227 Apr 09 03:13	0°♎		retrograde		2229 Oct 17 16:53	22°♎29'30	
	2227 May 03 11:25	0°♁		evening set		2229 Nov 02 09:00	17°♎46'15	
morning set	2227 May 13 01:07	11°♁46'37		inferior conj		2229 Nov 07 09:52	14°♎47'21	-5°-5'-19
	2227 May 27 20:49	0°♁		minimum elong		2229 Nov 07 19:42	14°♎32'22	5°02'47
asc. node	2227 Jun 13 18:21	20°♁45'37		min. Earth dist.		2229 Nov 08 04:39	14°♎18'43	0.27008 AU
				morning rise		2229 Nov 13 05:54	11°♎21'32	
superior conj	2227 Jun 19 01:51	27°♁17'18	0°12'38	direct		2229 Nov 28 04:26	6°♎58'41	
minimum elong	2227 Jun 18 23:15	27°♁09'18	0°12'29	asc. node		2229 Nov 28 13:13	6°♎58'50	
behind sun begin	2227 Jun 18 09:10	26°♁26'03		greatest brilliancy		2229 Dec 11 14:20	10°♎18'48	-4.7m
behind sun end	2227 Jun 19 13:20	27°♁52'33				2230 Jan 07 05:57	0°♁	
max. Earth dist.	2227 Jun 18 19:56	26°♁59'07	1.73570 AU	morning max el		2230 Jan 17 22:23	10°♁26'28	46°57'40
	2227 Jun 21 06:49	0°♁				2230 Feb 05 06:35	0°♁	
	2227 Jul 15 16:35	0°Ω				2230 Mar 03 13:26	0°≈	
evening rise	2227 Jul 25 02:13	11°Ω33'48		desc. node		2230 Mar 20 02:54	19°≈30'54	
	2227 Aug 09 01:55	0°♎				2230 Mar 28 22:17	0°♁	
	2227 Sep 02 11:31	0°♁				2230 Apr 22 21:59	0°♎	
	2227 Sep 26 22:34	0°♎				2230 May 17 17:35	0°♁	
desc. node	2227 Oct 03 07:50	7°♎48'37				2230 Jun 11 10:52	0°♁	
	2227 Oct 21 12:18	0°♁				2230 Jul 06 01:37	0°♁	
	2227 Nov 15 06:23	0°♁		asc. node		2230 Jul 11 06:08	6°♁20'43	
	2227 Dec 10 09:19	0°≈		morning set		2230 Jul 20 00:36	17°♁05'18	
	2228 Jan 05 09:58	0°♁				2230 Jul 30 12:58	0°Ω	
asc. node	2228 Jan 24 10:57	20°♁27'52		max. Earth dist.		2230 Aug 22 04:51	27°Ω57'15	1.72992 AU
evening max el	2228 Jan 25 02:56	21°♁08'38	47°03'25			2230 Aug 23 20:33	0°♎	
	2228 Feb 03 03:15	0°♎						
greatest brilliancy	2228 Mar 01 23:45	20°♎55'19	-4.6m	superior conj		2230 Aug 25 10:00	1°♎55'50	1°21'03
retrograde	2228 Mar 15 20:27	24°♎27'00		minimum elong		2230 Aug 25 04:52	1°♎39'59	1°20'58
evening set	2228 Apr 02 06:12	18°♎32'40				2230 Sep 17 01:08	0°♁	
inferior conj	2228 Apr 05 23:11	16°♎14'38	7°43'12	evening rise		2230 Oct 01 05:52	17°♁38'52	
minimum elong	2228 Apr 06 07:38	16°♎01'20	7°42'00			2230 Oct 11 04:06	0°♎	
min. Earth dist.	2228 Apr 05 18:08	16°♎22'34	0.28214 AU	desc. node		2230 Oct 30 19:43	24°♎27'13	
morning rise	2228 Apr 10 09:20	13°♎31'36				2230 Nov 04 06:41	0°♁	
direct	2228 Apr 27 00:33	8°♎09'48				2230 Nov 28 09:37	0°♁	
greatest brilliancy	2228 May 08 16:15	10°♎37'23	-4.5m			2230 Dec 22 14:06	0°≈	
desc. node	2228 May 15 00:22	13°♎40'23				2231 Jan 15 23:06	0°♁	
	2228 Jun 05 22:40	0°♁				2231 Feb 09 18:49	0°♎	
morning max el	2228 Jun 15 01:02	8°♁23'46	45°49'14	asc. node		2231 Feb 20 22:52	13°♎11'21	
	2228 Jul 06 07:03	0°♁				2231 Mar 07 13:23	0°♁	
	2228 Aug 02 11:22	0°♁				2231 Apr 04 13:00	0°♁	
	2228 Aug 28 07:52	0°Ω		evening max el		2231 Apr 06 11:14	1°♁54'27	45°58'01
asc. node	2228 Sep 05 03:54	9°Ω18'06		greatest brilliancy		2231 May 10 23:43	28°♁57'55	-4.5m
	2228 Sep 22 08:41	0°♎				2231 May 13 06:39	0°♁	
	2228 Oct 16 20:02	0°♁		retrograde		2231 May 25 15:46	2°♁44'52	
	2228 Nov 09 22:51	0°♎				2231 Jun 06 11:06	30°♎♁	

evening set	2231 Jun 09 17:20	28°II21'30		superior conj	2233 Nov 03 15:48	11°ML03'59	0°52'35
desc. node	2231 Jun 12 12:09	26°II45'00		minimum elong	2233 Nov 04 02:00	11°ML35'57	0°52'11
inferior conj	2231 Jun 16 03:02	24°II30'15	0°-51'-20		2233 Nov 18 18:03	0°Z	
minimum elong	2231 Jun 16 01:09	24°II33'13	0°50'47	desc. node	2233 Nov 27 07:29	10°Z44'39	
min. Earth dist.	2231 Jun 16 00:43	24°II33'54	0.28896 AU		2233 Dec 12 15:30	0°Z	
morning rise	2231 Jun 22 09:10	20°II44'06		evening rise	2233 Dec 14 03:25	1°Z52'46	
direct	2231 Jul 07 17:18	16°II14'33			2234 Jan 05 13:12	0°Z	
greatest brilliancy	2231 Jul 21 01:03	19°II20'28	-4.5m		2234 Jan 29 12:37	0°K	
	2231 Aug 07 04:01	0°Z			2234 Feb 22 16:17	0°Y	
morning max el	2231 Aug 25 11:49	16°Z01'19	45°49'43		2234 Mar 19 03:54	0°Z	
	2231 Sep 08 09:56	0°Z		asc. node	2234 Mar 20 10:52	1°Z33'53	
asc. node	2231 Oct 03 15:46	27°Z40'56			2234 Apr 13 04:40	0°II	
	2231 Oct 05 16:27	0°M			2234 May 09 03:20	0°Z	
	2231 Oct 31 05:03	0°Z			2234 Jun 05 21:33	0°Z	
	2231 Nov 24 20:46	0°ML		evening max el	2234 Jun 15 22:18	9°Z56'44	45°24'07
	2231 Dec 19 01:55	0°Z			2234 Jul 09 18:56	0°M	
	2232 Jan 12 02:22	0°Z		desc. node	2234 Jul 10 00:11	0°M08'58	
desc. node	2232 Jan 23 05:07	13°Z54'57		greatest brilliancy	2234 Jul 21 15:18	6°M41'07	-4.5m
	2232 Feb 05 01:21	0°Z		retrograde	2234 Aug 03 13:30	9°M36'53	
morning set	2232 Feb 27 04:36	27°Z42'05		evening set	2234 Aug 20 23:07	3°M55'58	
	2232 Feb 29 00:44	0°K		inferior conj	2234 Aug 24 22:35	1°M30'35	-8°-13'-28
	2232 Mar 24 01:51	0°Y		minimum elong	2234 Aug 24 16:30	1°M40'01	8°12'55
				min. Earth dist.	2234 Aug 25 05:53	1°M19'14	0.28792 AU
superior conj	2232 Apr 06 23:28	17°Y16'51	-1°-15'-20		2234 Aug 27 09:16	30°RZ	
minimum elong	2232 Apr 07 08:27	17°Y44'44	1°15'07	morning rise	2234 Aug 28 09:42	29°Z23'01	
max. Earth dist.	2232 Apr 10 19:54	22°Y03'29	1.72518 AU	direct	2234 Sep 15 11:12	23°Z15'24	
	2232 Apr 17 05:42	0°Z		greatest brilliancy	2234 Sep 30 00:33	26°Z59'59	-4.6m
	2232 May 11 12:49	0°II			2234 Oct 05 12:13	0°M	
evening rise	2232 May 15 09:44	4°II45'52		asc. node	2234 Oct 31 03:28	20°M53'29	
asc. node	2232 May 15 08:32	4°II42'12		morning max el	2234 Nov 04 12:31	25°M11'40	46°29'39
	2232 Jun 04 23:12	0°Z			2234 Nov 09 05:56	0°Z	
	2232 Jun 29 12:55	0°Z			2234 Dec 06 12:08	0°ML	
	2232 Jul 24 06:48	0°M			2234 Dec 31 22:06	0°Z	
	2232 Aug 18 06:56	0°Z			2235 Jan 25 14:43	0°Z	
desc. node	2232 Sep 03 21:52	19°Z41'40			2235 Feb 19 00:15	0°Z	
	2232 Sep 12 16:49	0°ML		desc. node	2235 Feb 19 17:01	0°Z51'42	
	2232 Oct 08 19:16	0°Z			2235 Mar 15 07:19	0°K	
	2232 Nov 05 09:55	0°Z			2235 Apr 08 14:13	0°Y	
evening max el	2232 Nov 10 14:15	5°Z16'26	47°07'22		2235 May 02 22:09	0°Z	
	2232 Dec 09 01:19	0°Z		morning set	2235 May 10 17:54	9°Z37'45	
greatest brilliancy	2232 Dec 19 07:27	5°Z43'49	-4.7m		2235 May 27 07:24	0°II	
asc. node	2232 Dec 26 01:07	7°Z52'57		asc. node	2235 Jun 12 20:22	20°II19'24	
retrograde	2232 Dec 31 06:25	8°Z25'26					
evening set	2233 Jan 15 12:20	3°Z49'15		superior conj	2235 Jun 16 19:46	25°II12'27	0°09'28
min. Earth dist.	2233 Jan 20 03:31	1°Z04'23	0.26717 AU	minimum elong	2235 Jun 16 17:48	25°II06'24	0°09'22
inferior conj	2233 Jan 20 21:42	0°Z36'22	6°06'21	behind sun begin	2235 Jun 15 23:18	24°II09'36	
minimum elong	2233 Jan 20 11:12	0°Z52'33	6°03'52	behind sun end	2235 Jun 17 12:17	26°II03'13	
	2233 Jan 21 21:21	30°RZ		max. Earth dist.	2235 Jun 16 19:05	25°II10'23	1.73566 AU
morning rise	2233 Jan 25 10:21	27°Z53'12			2235 Jun 20 17:22	0°Z	
direct	2233 Feb 10 06:46	22°Z56'19			2235 Jul 15 03:12	0°Z	
greatest brilliancy	2233 Feb 21 06:18	25°Z10'52	-4.6m	evening rise	2235 Jul 22 21:05	9°Z31'29	
	2233 Mar 02 15:06	0°Z			2235 Aug 08 12:41	0°M	
morning max el	2233 Apr 01 03:48	24°Z48'33	46°30'17		2235 Sep 01 22:33	0°Z	
	2233 Apr 06 08:03	0°K			2235 Sep 26 10:01	0°ML	
desc. node	2233 Apr 16 14:41	10°K42'41		desc. node	2235 Oct 02 09:48	7°ML19'16	
	2233 May 04 06:19	0°Y			2235 Oct 21 00:21	0°Z	
	2233 May 30 13:52	0°Z			2235 Nov 14 19:19	0°Z	
	2233 Jun 25 04:30	0°II			2235 Dec 09 23:40	0°Z	
	2233 Jul 20 08:34	0°Z			2236 Jan 05 03:14	0°K	
asc. node	2233 Aug 07 18:05	22°Z12'52		evening max el	2236 Jan 22 18:48	18°K51'22	47°05'07
	2233 Aug 14 03:43	0°Z		asc. node	2236 Jan 23 13:06	19°K37'49	
	2233 Sep 07 14:49	0°M			2236 Feb 03 05:54	0°Y	
morning set	2233 Sep 26 15:37	23°M34'42		greatest brilliancy	2236 Feb 28 16:51	18°Y40'26	-4.6m
	2233 Oct 01 19:27	0°Z		retrograde	2236 Mar 13 12:27	22°Y10'14	
	2233 Oct 25 19:51	0°ML		evening set	2236 Mar 31 00:05	16°Y12'09	
max. Earth dist.	2233 Nov 01 07:42	8°ML08'08	1.71589 AU	inferior conj	2236 Apr 03 14:15	13°Y58'11	7°53'21
				minimum elong	2236 Apr 03 22:16	13°Y45'34	7°52'17

min. Earth dist.	2236 Apr 03 08:04	14°♃07'54	0.28173 AU	desc. node	2238 Oct 29 21:41	23°♌58'17	
morning rise	2236 Apr 07 20:45	11°♃20'38			2238 Nov 03 18:00	0°♁	
direct	2236 Apr 24 15:39	5°♃54'21			2238 Nov 27 21:14	0°♁	
greatest brilliancy	2236 May 06 03:47	8°♃18'57	-4.5m		2238 Dec 22 02:05	0°♁	
desc. node	2236 May 14 02:15	12°♃16'08			2239 Jan 15 11:39	0°♁	
	2236 Jun 06 01:10	0°♁			2239 Feb 09 08:21	0°♃	
morning max el	2236 Jun 12 16:35	6°♁12'14	45°50'00	asc. node	2239 Feb 20 00:53	12°♃35'47	
	2236 Jul 05 23:41	0°♁			2239 Mar 07 05:00	0°♁	
	2236 Aug 02 00:59	0°♁		evening max el	2239 Apr 04 01:31	29°♁37'43	46°00'13
	2236 Aug 27 20:09	0°♁			2239 Apr 04 10:35	0°♁	
asc. node	2236 Sep 04 05:56	8°♁48'19		greatest brilliancy	2239 May 08 15:52	26°♁47'46	-4.5m
	2236 Sep 21 20:17	0°♁			2239 May 17 17:29	0°♁	
	2236 Oct 16 07:17	0°♁		retrograde	2239 May 23 08:01	0°♁35'48	
	2236 Nov 09 09:56	0°♁			2239 May 28 19:18	30°♁	
	2236 Dec 03 08:09	0°♁		evening set	2239 Jun 07 10:12	26°♁11'33	
morning set	2236 Dec 08 10:38	6°♁24'51		desc. node	2239 Jun 11 14:19	23°♁44'18	
desc. node	2236 Dec 24 19:19	26°♁59'41		inferior conj	2239 Jun 13 19:30	22°♁21'09	0°-31'-27
	2236 Dec 27 04:37	0°♁		minimum elong	2239 Jun 13 18:20	22°♁22'59	0°31'08
				min. Earth dist.	2239 Jun 13 17:43	22°♁23'57	0.28880 AU
superior conj	2237 Jan 18 23:09	28°♁39'05	0°-55'-33	morning rise	2239 Jun 20 02:34	18°♁33'32	
minimum elong	2237 Jan 18 11:20	28°♁01'57	0°55'07	direct	2239 Jul 05 08:49	14°♁05'29	
	2237 Jan 20 00:53	0°♁		greatest brilliancy	2239 Jul 18 16:47	17°♁11'01	-4.5m
max. Earth dist.	2237 Jan 21 00:55	1°♁15'33	1.71152 AU		2239 Aug 07 13:37	0°♁	
	2237 Feb 12 22:10	0°♁		morning max el	2239 Aug 23 02:58	13°♁49'10	45°49'00
evening rise	2237 Mar 01 01:02	20°♁10'30			2239 Sep 08 03:48	0°♁	
	2237 Mar 08 22:00	0°♃		asc. node	2239 Oct 02 17:46	27°♁05'24	
	2237 Apr 02 02:12	0°♁			2239 Oct 05 06:42	0°♁	
asc. node	2237 Apr 16 22:43	18°♁17'02			2239 Oct 30 17:52	0°♁	
	2237 Apr 26 12:30	0°♁			2239 Nov 24 08:54	0°♁	
	2237 May 21 06:39	0°♁			2239 Dec 18 13:40	0°♁	
	2237 Jun 15 11:26	0°♁			2240 Jan 11 13:53	0°♁	
	2237 Jul 11 08:51	0°♁		desc. node	2240 Jan 22 07:15	13°♁25'47	
desc. node	2237 Aug 06 12:00	28°♁52'01			2240 Feb 04 12:41	0°♁	
	2237 Aug 07 13:35	0°♁		morning set	2240 Feb 24 15:20	25°♁10'34	
evening max el	2237 Aug 27 01:04	19°♁46'36	46°00'29		2240 Feb 28 11:55	0°♁	
	2237 Sep 07 04:59	0°♁			2240 Mar 23 12:54	0°♃	
greatest brilliancy	2237 Oct 04 14:26	18°♁03'57	-4.6m				
retrograde	2237 Oct 15 04:40	20°♁05'33		superior conj	2240 Apr 04 13:21	14°♃56'51	-1°-17'00
evening set	2237 Oct 31 00:49	15°♁18'05		minimum elong	2240 Apr 04 21:53	15°♃23'22	1°16'50
inferior conj	2237 Nov 04 22:46	12°♁23'07	-5°-24'-6	max. Earth dist.	2240 Apr 08 09:25	19°♃42'33	1.72461 AU
minimum elong	2237 Nov 05 08:52	12°♁07'40	5°21'34		2240 Apr 16 16:40	0°♁	
min. Earth dist.	2237 Nov 05 18:37	11°♁52'46	0.27068 AU		2240 May 10 23:46	0°♁	
morning rise	2237 Nov 10 16:22	9°♁00'02		evening rise	2240 May 13 02:01	2°♁34'34	
direct	2237 Nov 25 17:35	4°♁33'24		asc. node	2240 May 14 10:36	4°♁14'47	
asc. node	2237 Nov 27 15:14	4°♁37'45			2240 Jun 04 10:16	0°♁	
greatest brilliancy	2237 Dec 09 05:30	7°♁54'56	-4.7m		2240 Jun 29 00:13	0°♁	
	2238 Jan 07 09:17	0°♁			2240 Jul 23 18:33	0°♁	
morning max el	2238 Jan 15 10:56	7°♁58'25	46°57'40		2240 Aug 17 19:26	0°♁	
	2238 Feb 05 00:16	0°♁		desc. node	2240 Sep 02 23:53	19°♁08'41	
	2238 Mar 03 03:59	0°♁			2240 Sep 12 06:36	0°♁	
desc. node	2238 Mar 19 04:55	18°♁56'52			2240 Oct 08 11:26	0°♁	
	2238 Mar 28 11:18	0°♁			2240 Nov 05 07:51	0°♁	
	2238 Apr 22 10:05	0°♃		evening max el	2240 Nov 08 03:23	2°♁50'26	47°05'45
	2238 May 17 05:07	0°♁			2240 Dec 10 12:21	0°♁	
	2238 Jun 10 22:00	0°♁		greatest brilliancy	2240 Dec 16 20:56	3°♁14'56	-4.7m
	2238 Jul 05 12:29	0°♁		asc. node	2240 Dec 25 03:16	5°♁39'47	
asc. node	2238 Jul 10 08:18	5°♁54'14		retrograde	2240 Dec 28 19:21	5°♁56'03	
morning set	2238 Jul 17 18:41	15°♁00'35		evening set	2241 Jan 12 21:40	1°♁24'15	
	2238 Jul 29 23:41	0°♁			2241 Jan 15 08:12	30°♁	
max. Earth dist.	2238 Aug 19 23:03	25°♁52'00	1.73038 AU	min. Earth dist.	2241 Jan 17 16:35	28°♁34'33	0.26680 AU
				inferior conj	2241 Jan 18 10:08	28°♁07'37	5°48'14
superior conj	2238 Aug 23 04:00	29°♁49'53	1°20'02	minimum elong	2241 Jan 17 23:45	28°♁23'33	5°45'41
minimum elong	2238 Aug 22 22:20	29°♁32'22	1°19'57	morning rise	2241 Jan 23 02:08	25°♁20'08	
	2238 Aug 23 07:16	0°♁		direct	2241 Feb 07 18:52	20°♁27'48	
	2238 Sep 16 11:59	0°♁		greatest brilliancy	2241 Feb 18 20:18	22°♁44'40	-4.6m
evening rise	2238 Sep 28 21:29	15°♁24'08			2241 Mar 03 20:29	0°♁	
	2238 Oct 10 15:11	0°♁		morning max el	2241 Mar 29 17:45	22°♁26'28	46°31'59

	2241 Apr 06 05:19	0°♁			2243 Sep 25 21:50	0°♁		
desc. node	2241 Apr 15 16:40	9°♁58'08		desc. node	2243 Oct 01 11:49	6°♁48'57		
	2241 May 03 22:07	0°♁			2243 Oct 20 12:47	0°♁		
	2241 May 30 03:25	0°♁			2243 Nov 14 08:37	0°♁		
	2241 Jun 24 16:52	0°♁			2243 Dec 09 14:25	0°♁		
	2241 Jul 19 20:14	0°♁			2244 Jan 04 21:04	0°♁		
asc. node	2241 Aug 06 20:04	21°♁44'21		evening max el	2244 Jan 20 10:18	16°♁32'27	47°06'33	
	2241 Aug 13 15:00	0°♁		asc. node	2244 Jan 22 15:03	18°♁45'42		
	2241 Sep 07 01:54	0°♁			2244 Feb 03 10:31	0°♁		
morning set	2241 Sep 24 07:50	21°♁21'44		greatest brilliancy	2244 Feb 26 10:30	16°♁25'17	-4.6m	
	2241 Oct 01 06:28	0°♁		retrograde	2244 Mar 11 03:57	19°♁52'12		
	2241 Oct 25 06:52	0°♁		evening set	2244 Mar 28 17:50	13°♁50'48		
max. Earth dist.	2241 Oct 29 21:29	5°♁46'21	1.71631 AU	inferior conj	2244 Apr 01 05:18	11°♁40'42	8°02'41	
				minimum elong	2244 Apr 01 12:49	11°♁28'52	8°01'46	
superior conj	2241 Nov 01 05:21	8°♁41'20	0°55'24	min. Earth dist.	2244 Mar 31 22:18	11°♁51'44	0.28134 AU	
minimum elong	2241 Nov 01 15:40	9°♁13'40	0°55'00	morning rise	2244 Apr 05 08:07	9°♁08'27		
	2241 Nov 18 05:10	0°♁		direct	2244 Apr 22 06:35	3°♁37'50		
desc. node	2241 Nov 26 09:38	10°♁16'21		greatest brilliancy	2244 May 03 15:35	5°♁59'27	-4.5m	
evening rise	2241 Dec 11 14:28	29°♁21'32		desc. node	2244 May 13 04:26	10°♁53'52		
	2241 Dec 12 02:44	0°♁			2244 Jun 06 02:46	0°♁		
	2242 Jan 05 00:35	0°♁		morning max el	2244 Jun 10 07:22	3°♁57'31	45°50'47	
	2242 Jan 29 00:11	0°♁			2244 Jul 05 16:24	0°♁		
	2242 Feb 22 04:05	0°♁			2244 Aug 01 14:49	0°♁		
	2242 Mar 18 16:08	0°♁			2244 Aug 27 08:37	0°♁		
asc. node	2242 Mar 19 12:48	1°♁02'36		asc. node	2244 Sep 03 07:54	8°♁17'43		
	2242 Apr 12 17:45	0°♁			2244 Sep 21 08:04	0°♁		
	2242 May 08 18:14	0°♁			2244 Oct 15 18:42	0°♁		
	2242 Jun 05 17:08	0°♁			2244 Nov 08 21:11	0°♁		
evening max el	2242 Jun 13 14:47	7°♁47'09	45°24'14		2244 Dec 02 19:22	0°♁		
desc. node	2242 Jul 09 02:16	28°♁55'11		morning set	2244 Dec 05 22:06	3°♁54'52		
	2242 Jul 10 18:51	0°♁		desc. node	2244 Dec 23 21:26	26°♁31'12		
greatest brilliancy	2242 Jul 19 04:04	4°♁26'52	-4.5m		2244 Dec 26 15:48	0°♁		
retrograde	2242 Aug 01 05:16	7°♁25'14						
evening set	2242 Aug 18 11:43	1°♁48'32		superior conj	2245 Jan 16 09:11	26°♁04'46	0°-52'-26	
	2242 Aug 21 11:23	30°♁		minimum elong	2245 Jan 15 21:38	25°♁28'28	0°52'00	
inferior conj	2242 Aug 22 14:16	29°♁18'17	-8°-6'-31	max. Earth dist.	2245 Jan 18 06:08	28°♁26'04	1.71128 AU	
minimum elong	2242 Aug 22 07:36	29°♁28'38	8°05'51		2245 Jan 19 12:00	0°♁		
min. Earth dist.	2242 Aug 22 20:19	29°♁08'53	0.28822 AU		2245 Feb 12 09:16	0°♁		
morning rise	2242 Aug 26 03:22	27°♁07'42		evening rise	2245 Feb 26 12:17	17°♁40'58		
direct	2242 Sep 13 03:51	21°♁02'55			2245 Mar 08 09:07	0°♁		
greatest brilliancy	2242 Sep 27 15:26	24°♁45'47	-4.6m		2245 Apr 01 13:25	0°♁		
	2242 Oct 06 14:50	0°♁		asc. node	2245 Apr 16 00:47	17°♁48'42		
asc. node	2242 Oct 30 05:29	20°♁01'16			2245 Apr 25 23:56	0°♁		
morning max el	2242 Nov 02 04:14	22°♁55'58	46°28'07		2245 May 20 18:32	0°♁		
	2242 Nov 09 02:04	0°♁			2245 Jun 15 00:08	0°♁		
	2242 Dec 06 03:31	0°♁			2245 Jul 10 23:11	0°♁		
	2242 Dec 31 11:39	0°♁		desc. node	2245 Aug 05 14:00	28°♁10'11		
	2243 Jan 25 03:20	0°♁			2245 Aug 07 07:37	0°♁		
desc. node	2243 Feb 18 19:00	0°♁20'35		evening max el	2245 Aug 24 13:39	17°♁24'56	45°58'14	
	2243 Feb 18 12:20	0°♁			2245 Sep 07 12:21	0°♁		
	2243 Mar 14 19:00	0°♁		greatest brilliancy	2245 Oct 02 03:50	15°♁41'40	-4.6m	
	2243 Apr 08 01:36	0°♁		retrograde	2245 Oct 12 16:37	17°♁42'17		
	2243 May 02 09:18	0°♁		evening set	2245 Oct 28 16:51	12°♁50'04		
morning set	2243 May 08 10:19	7°♁26'24		inferior conj	2245 Nov 02 11:52	9°♁59'21	-5°-42'00	
	2243 May 26 18:23	0°♁		minimum elong	2245 Nov 02 22:12	9°♁43'34	5°39'30	
asc. node	2243 Jun 11 22:30	19°♁52'23		min. Earth dist.	2245 Nov 03 08:55	9°♁27'10	0.27132 AU	
				morning rise	2245 Nov 08 02:53	6°♁39'24		
superior conj	2243 Jun 14 13:22	23°♁05'31	0°06'16	direct	2245 Nov 23 06:45	2°♁08'17		
minimum elong	2243 Jun 14 12:03	23°♁01'29	0°06'13	asc. node	2245 Nov 26 17:25	2°♁22'22		
behind sun begin	2243 Jun 13 14:58	21°♁56'42		greatest brilliancy	2245 Dec 06 21:52	5°♁32'45	-4.7m	
behind sun end	2243 Jun 15 09:09	24°♁06'17			2246 Jan 07 11:13	0°♁		
max. Earth dist.	2243 Jun 14 18:10	23°♁20'15	1.73552 AU	morning max el	2246 Jan 12 23:59	5°♁31'21	46°57'44	
	2243 Jun 20 04:17	0°♁			2246 Feb 04 17:38	0°♁		
	2243 Jul 14 14:09	0°♁			2246 Mar 02 18:24	0°♁		
evening rise	2243 Jul 20 15:50	7°♁27'51		desc. node	2246 Mar 18 06:55	18°♁22'52		
	2243 Aug 07 23:47	0°♁			2246 Mar 28 00:15	0°♁		
	2243 Sep 01 09:56	0°♁			2246 Apr 21 22:10	0°♁		

	2246 May 16 16:39	0°♄		evening max el	2248 Nov 05 17:33	0°♁27'51	47°04'15
	2246 Jun 10 09:09	0°♂			2248 Dec 12 16:29	0°♁	
	2246 Jul 04 23:24	0°♁		greatest brilliancy	2248 Dec 14 09:59	0°♁46'34	-4.7m
asc. node	2246 Jul 09 10:17	5°♁26'55		asc. node	2248 Dec 24 05:12	3°♁21'54	
morning set	2246 Jul 15 12:41	12°♁55'20		retrograde	2248 Dec 26 08:41	3°♁27'31	
	2246 Jul 29 10:29	0°♁			2249 Jan 08 09:44	30°♁	
max. Earth dist.	2246 Aug 17 18:20	23°♁49'56	1.73081 AU	evening set	2249 Jan 10 07:18	28°♁59'55	
				min. Earth dist.	2249 Jan 15 05:27	26°♁05'54	0.26644 AU
superior conj	2246 Aug 20 21:56	27°♁43'35	1°18'55	inferior conj	2249 Jan 15 22:35	25°♁39'39	5°29'30
minimum elong	2246 Aug 20 15:46	27°♁24'31	1°18'48	minimum elong	2249 Jan 15 12:24	25°♁55'15	5°26'54
	2246 Aug 22 18:03	0°♁		morning rise	2249 Jan 20 17:52	22°♁48'00	
	2246 Sep 15 22:52	0°♁		direct	2249 Feb 05 07:32	18°♁00'18	
evening rise	2246 Sep 26 13:14	13°♁09'57		greatest brilliancy	2249 Feb 16 09:31	20°♁18'23	-4.6m
	2246 Oct 10 02:15	0°♁			2249 Mar 04 17:28	0°♁	
desc. node	2246 Oct 28 23:49	23°♁29'58		morning max el	2249 Mar 27 08:17	20°♁06'40	46°33'30
	2246 Nov 03 05:19	0°♁			2249 Apr 06 01:34	0°♁	
	2246 Nov 27 08:51	0°♁		desc. node	2249 Apr 14 18:47	9°♁15'16	
	2246 Dec 21 14:07	0°♁			2249 May 03 13:25	0°♁	
	2247 Jan 15 00:16	0°♁			2249 May 29 16:35	0°♁	
	2247 Feb 08 21:58	0°♁			2249 Jun 24 04:53	0°♁	
asc. node	2247 Feb 19 02:54	12°♁00'05			2249 Jul 19 07:35	0°♁	
	2247 Mar 06 20:47	0°♁		asc. node	2249 Aug 05 22:05	21°♁16'50	
evening max el	2247 Apr 01 16:03	27°♁21'53	46°02'31		2249 Aug 13 01:59	0°♁	
	2247 Apr 04 08:53	0°♁			2249 Sep 06 12:43	0°♁	
greatest brilliancy	2247 May 06 06:57	24°♁36'41	-4.5m	morning set	2249 Sep 22 00:01	19°♁09'27	
retrograde	2247 May 21 00:41	28°♁27'16			2249 Sep 30 17:15	0°♁	
evening set	2247 Jun 05 03:16	24°♁01'42			2249 Oct 24 17:41	0°♁	
desc. node	2247 Jun 10 16:20	20°♁43'14		max. Earth dist.	2249 Oct 27 08:07	3°♁15'24	1.71673 AU
inferior conj	2247 Jun 11 11:59	20°♁12'24	0°-11'-38				
minimum elong	2247 Jun 11 11:33	20°♁13'05	0°11'31	superior conj	2249 Oct 29 18:51	6°♁19'19	0°58'07
transit middle	2247 Jun 11 11:33	20°♁13'05	0°11'31	minimum elong	2249 Oct 30 05:12	6°♁51'43	0°57'44
transit begin	2247 Jun 11 08:42	20°♁17'34			2249 Nov 17 16:03	0°♁	
transit end	2247 Jun 11 14:25	20°♁08'36		desc. node	2249 Nov 25 11:42	9°♁48'35	
min. Earth dist.	2247 Jun 11 10:33	20°♁14'40	0.28868 AU	evening rise	2249 Dec 09 01:15	26°♁50'13	
morning rise	2247 Jun 17 19:56	16°♁23'42			2249 Dec 11 13:44	0°♁	
direct	2247 Jul 03 00:31	11°♁56'40			2250 Jan 04 11:43	0°♁	
greatest brilliancy	2247 Jul 16 09:03	15°♁02'35	-4.5m		2250 Jan 28 11:28	0°♁	
	2247 Aug 07 20:30	0°♁			2250 Feb 21 15:37	0°♁	
morning max el	2247 Aug 20 19:11	11°♁39'49	45°48'15		2250 Mar 18 04:07	0°♁	
	2247 Sep 07 21:14	0°♁		asc. node	2250 Mar 18 14:54	0°♁32'39	
asc. node	2247 Oct 01 19:51	26°♁30'28			2250 Apr 12 06:38	0°♁	
	2247 Oct 04 20:46	0°♁			2250 May 08 09:01	0°♁	
	2247 Oct 30 06:32	0°♁			2250 Jun 05 12:58	0°♁	
	2247 Nov 23 20:51	0°♁		evening max el	2250 Jun 11 07:09	5°♁38'14	45°24'22
	2247 Dec 18 01:15	0°♁		desc. node	2250 Jul 08 04:13	27°♁40'01	
	2248 Jan 11 01:13	0°♁			2250 Jul 12 03:31	0°♁	
desc. node	2248 Jan 21 09:09	12°♁56'24		greatest brilliancy	2250 Jul 16 17:50	2°♁14'57	-4.5m
	2248 Feb 03 23:52	0°♁		retrograde	2250 Jul 29 20:39	5°♁14'46	
morning set	2248 Feb 22 01:56	22°♁38'52			2250 Aug 15 12:22	30°♁	
	2248 Feb 27 22:58	0°♁		evening set	2250 Aug 16 00:15	29°♁42'42	
	2248 Mar 22 23:49	0°♁		inferior conj	2250 Aug 20 06:01	27°♁07'23	-7°-58'-51
				minimum elong	2250 Aug 19 22:48	27°♁18'38	7°58'04
superior conj	2248 Apr 02 03:07	12°♁36'50	-1°-18'-34	min. Earth dist.	2250 Aug 20 11:02	26°♁59'35	0.28849 AU
minimum elong	2248 Apr 02 11:10	13°♁01'51	1°18'26	morning rise	2250 Aug 23 21:13	24°♁53'25	
max. Earth dist.	2248 Apr 05 21:54	17°♁18'45	1.72403 AU	direct	2250 Sep 10 20:19	18°♁51'55	
	2248 Apr 16 03:29	0°♁		greatest brilliancy	2250 Sep 25 05:25	22°♁31'37	-4.5m
	2248 May 10 10:33	0°♁			2250 Oct 07 09:45	0°♁	
evening rise	2248 May 10 18:19	0°♁23'52		asc. node	2250 Oct 29 07:38	19°♁11'09	
asc. node	2248 May 13 12:44	3°♁48'12		morning max el	2250 Oct 30 19:05	20°♁39'04	46°26'24
	2248 Jun 03 21:08	0°♁			2250 Nov 08 21:17	0°♁	
	2248 Jun 28 11:22	0°♁			2250 Dec 05 18:28	0°♁	
	2248 Jul 23 06:11	0°♁			2250 Dec 31 00:53	0°♁	
	2248 Aug 17 07:51	0°♁			2251 Jan 24 15:40	0°♁	
desc. node	2248 Sep 02 01:52	18°♁35'53		desc. node	2251 Feb 17 21:06	29°♁50'49	
	2248 Sep 11 20:21	0°♁			2251 Feb 18 00:05	0°♁	
	2248 Oct 08 03:43	0°♁			2251 Mar 14 06:20	0°♁	
	2248 Nov 05 06:25	0°♁			2251 Apr 07 12:37	0°♁	

	2251 May 01 20:06	0°♄		evening set	2253 Oct 26 09:00	10°♌23'25	
morning set	2251 May 06 02:35	5°♄15'38		inferior conj	2253 Oct 31 01:07	7°♌37'03	-5°-59'00
	2251 May 26 05:03	0°♀		minimum elong	2253 Oct 31 11:34	7°♌21'05	5°56'36
asc. node	2251 Jun 11 00:28	19°♀25'51		min. Earth dist.	2253 Oct 31 23:03	7°♌03'32	0.27197 AU
				morning rise	2253 Nov 05 13:26	4°♌20'47	
superior conj	2251 Jun 12 07:00	20°♀59'39	0°03'04		2253 Nov 17 07:20	30°♌	
minimum elong	2251 Jun 12 06:22	20°♀57'40	0°03'01	direct	2253 Nov 20 20:16	29°♌44'37	
behind sun begin	2251 Jun 11 07:57	19°♀48'50			2253 Nov 24 10:38	0°♌	
behind sun end	2251 Jun 13 04:46	22°♀06'31		asc. node	2253 Nov 25 19:19	0°♌13'35	
max. Earth dist.	2251 Jun 12 16:00	21°♀27'17	1.73536 AU	greatest brilliancy	2253 Dec 04 14:45	3°♌12'45	-4.7m
	2251 Jun 19 14:53	0°♄			2254 Jan 07 11:27	0°♄	
	2251 Jul 14 00:47	0°♃		morning max el	2254 Jan 10 13:52	3°♄07'22	46°57'35
evening rise	2251 Jul 18 10:41	5°♃25'31			2254 Feb 04 10:23	0°♄	
	2251 Aug 07 10:33	0°♃			2254 Mar 02 08:30	0°♃	
	2251 Aug 31 20:59	0°♂		desc. node	2254 Mar 17 09:03	17°♃49'47	
	2251 Sep 25 09:20	0°♌			2254 Mar 27 13:00	0°♃	
desc. node	2251 Sep 30 13:59	6°♌20'09			2254 Apr 21 10:05	0°♃	
	2251 Oct 20 00:56	0°♄			2254 May 16 04:00	0°♄	
	2251 Nov 13 21:44	0°♄			2254 Jun 09 20:07	0°♀	
	2251 Dec 09 05:06	0°♃			2254 Jul 04 10:08	0°♄	
	2252 Jan 04 15:06	0°♃		asc. node	2254 Jul 08 12:17	5°♄00'16	
evening max el	2252 Jan 18 01:01	14°♃11'51	47°07'59	morning set	2254 Jul 13 06:33	10°♄50'12	
asc. node	2252 Jan 21 17:05	17°♃53'23			2254 Jul 28 21:06	0°♃	
	2252 Feb 03 16:56	0°♃		max. Earth dist.	2254 Aug 15 14:56	21°♃52'23	1.73122 AU
greatest brilliancy	2252 Feb 24 04:27	14°♃10'47	-4.6m				
retrograde	2252 Mar 08 18:54	17°♃34'29		superior conj	2254 Aug 18 15:51	25°♃37'41	1°17'41
evening set	2252 Mar 26 11:19	11°♃30'07		minimum elong	2254 Aug 18 09:14	25°♃17'13	1°17'33
inferior conj	2252 Mar 29 20:17	9°♃23'42	8°11'17		2254 Aug 22 04:42	0°♃	
minimum elong	2252 Mar 30 03:13	9°♃12'46	8°10'32		2254 Sep 15 09:38	0°♂	
min. Earth dist.	2252 Mar 29 12:43	9°♃35'39	0.28091 AU	evening rise	2254 Sep 24 05:13	10°♂56'57	
morning rise	2252 Apr 02 19:23	6°♃56'44			2254 Oct 09 13:10	0°♌	
direct	2252 Apr 19 20:51	1°♃21'45		desc. node	2254 Oct 28 01:50	23°♌01'49	
greatest brilliancy	2252 May 01 03:59	3°♃41'10	-4.5m		2254 Nov 02 16:28	0°♄	
desc. node	2252 May 12 06:31	9°♃34'44			2254 Nov 26 20:17	0°♄	
	2252 Jun 06 02:45	0°♄			2254 Dec 21 01:57	0°♃	
morning max el	2252 Jun 07 21:24	1°♄41'44	45°51'39		2255 Jan 14 12:44	0°♃	
	2252 Jul 05 08:28	0°♀			2255 Feb 08 11:33	0°♃	
	2252 Aug 01 04:11	0°♄		asc. node	2255 Feb 18 05:00	11°♃24'43	
	2252 Aug 26 20:43	0°♃			2255 Mar 06 12:44	0°♄	
asc. node	2252 Sep 02 10:02	7°♃48'35		evening max el	2255 Mar 30 07:28	25°♄08'16	46°04'49
	2252 Sep 20 19:29	0°♃			2255 Apr 04 08:07	0°♀	
	2252 Oct 15 05:47	0°♂		greatest brilliancy	2255 May 03 22:13	22°♀25'40	-4.5m
	2252 Nov 08 08:08	0°♌		retrograde	2255 May 18 17:37	26°♀18'19	
	2252 Dec 02 06:16	0°♄		evening set	2255 Jun 02 20:23	21°♀51'19	
morning set	2252 Dec 03 09:40	1°♄26'06		inferior conj	2255 Jun 09 04:20	18°♀03'11	0°08'17
desc. node	2252 Dec 22 23:23	26°♄03'04		minimum elong	2255 Jun 09 04:38	18°♀02'42	0°08'12
	2252 Dec 26 02:42	0°♄		transit middle	2255 Jun 09 04:38	18°♀02'42	0°08'12
				transit begin	2255 Jun 09 01:08	18°♀08'12	
superior conj	2253 Jan 13 18:56	23°♄30'14	0°-49'-11	transit end	2255 Jun 09 08:08	17°♀57'13	
minimum elong	2253 Jan 13 07:46	22°♄55'07	0°48'44	min. Earth dist.	2255 Jun 09 02:56	18°♀05'22	0.28854 AU
max. Earth dist.	2253 Jan 15 08:12	25°♄27'27	1.71113 AU	desc. node	2255 Jun 09 18:18	17°♀41'18	
	2253 Jan 18 22:54	0°♃		morning rise	2255 Jun 15 13:01	14°♀13'47	
	2253 Feb 11 20:09	0°♃		direct	2255 Jun 30 16:39	9°♀47'30	
evening rise	2253 Feb 23 22:58	15°♃10'16		greatest brilliancy	2255 Jul 14 00:46	12°♀53'31	-4.5m
	2253 Mar 07 20:02	0°♃			2255 Aug 08 01:13	0°♄	
	2253 Apr 01 00:25	0°♄		morning max el	2255 Aug 18 11:52	9°♄31'55	45°47'30
asc. node	2253 Apr 15 02:53	17°♄21'08			2255 Sep 07 14:14	0°♃	
	2253 Apr 25 11:10	0°♀		asc. node	2255 Sep 30 21:55	25°♃55'53	
	2253 May 20 06:12	0°♄			2255 Oct 04 10:38	0°♃	
	2253 Jun 14 12:41	0°♃			2255 Oct 29 19:04	0°♂	
	2253 Jul 10 13:27	0°♃			2255 Nov 23 08:44	0°♌	
desc. node	2253 Aug 04 16:05	27°♃28'46			2255 Dec 17 12:44	0°♄	
	2253 Aug 07 01:49	0°♂			2256 Jan 10 12:27	0°♄	
evening max el	2253 Aug 22 02:14	15°♂04'15	45°56'08	desc. node	2256 Jan 20 11:16	12°♄28'06	
	2253 Sep 07 21:56	0°♌			2256 Feb 03 10:55	0°♃	
greatest brilliancy	2253 Sep 29 16:14	13°♌19'41	-4.6m	morning set	2256 Feb 19 12:45	20°♃08'11	
retrograde	2253 Oct 10 05:01	15°♌20'45			2256 Feb 27 09:54	0°♃	

	2256 Mar 22 10:40	0°♃		inferior conj	2258 Aug 17 21:58	24°♌56'27	-7°-50'-34
				minimum elong	2258 Aug 17 14:13	25°♌08'31	7°49'38
superior conj	2256 Mar 30 16:49	10°♃16'36	-1°-20'00	min. Earth dist.	2258 Aug 18 02:19	24°♌49'39	0.28874 AU
minimum elong	2256 Mar 31 00:18	10°♃39'52	1°19'52	morning rise	2258 Aug 21 15:22	22°♌38'52	
max. Earth dist.	2256 Apr 03 11:40	14°♃58'53	1.72353 AU	direct	2258 Sep 08 12:29	16°♌40'47	
	2256 Apr 15 14:16	0°♄		greatest brilliancy	2258 Sep 22 19:58	20°♌17'46	-4.5m
evening rise	2256 May 08 10:23	28°♄12'24			2258 Oct 08 00:02	0°♍	
	2256 May 09 21:21	0°♅		asc. node	2258 Oct 28 09:37	18°♍20'53	
asc. node	2256 May 12 14:40	3°♅20'55		morning max el	2258 Oct 28 09:01	18°♍19'23	46°24'41
	2256 Jun 03 08:03	0°♆			2258 Nov 08 16:12	0°♎	
	2256 Jun 27 22:33	0°♇			2258 Dec 05 09:25	0°♏	
	2256 Jul 22 17:52	0°♈			2258 Dec 30 14:14	0°♐	
	2256 Aug 16 20:22	0°♉			2259 Jan 24 04:11	0°♑	
desc. node	2256 Sep 01 04:01	18°♉03'15		desc. node	2259 Feb 16 23:10	29°♑20'11	
	2256 Sep 11 10:18	0°♊			2259 Feb 17 12:02	0°♒	
	2256 Oct 07 20:22	0°♋			2259 Mar 13 17:53	0°♓	
evening max el	2256 Nov 03 08:33	28°♋07'17	47°02'36		2259 Apr 06 23:50	0°♈	
	2256 Nov 05 06:02	0°♌			2259 May 01 07:05	0°♉	
greatest brilliancy	2256 Dec 11 23:37	28°♌18'54	-4.7m	morning set	2259 May 03 19:08	3°♉05'02	
	2256 Dec 16 20:02	0°♍			2259 May 25 15:54	0°♊	
asc. node	2256 Dec 23 07:17	0°♍58'17					
retrograde	2256 Dec 23 22:02	0°♍58'45		superior conj	2259 Jun 10 00:56	18°♊54'08	0°00'-9
	2256 Dec 30 18:32	30°♎♁		minimum elong	2259 Jun 10 00:58	18°♊54'12	0°00'10
evening set	2257 Jan 07 17:14	26°♎35'28		behind sun begin	2259 Jun 09 02:22	17°♊44'46	
inferior conj	2257 Jan 13 11:03	23°♎11'41	5°10'08	behind sun end	2259 Jun 10 23:34	20°♊03'38	
minimum elong	2257 Jan 13 01:10	23°♎26'50	5°07'30	asc. node	2259 Jun 10 02:34	18°♊59'10	
min. Earth dist.	2257 Jan 12 18:26	23°♎37'08	0.26604 AU	max. Earth dist.	2259 Jun 10 13:10	19°♊31'42	1.73520 AU
morning rise	2257 Jan 18 09:30	20°♎15'53			2259 Jun 19 01:41	0°♋	
direct	2257 Feb 02 20:30	15°♎33'05			2259 Jul 13 11:38	0°♌	
greatest brilliancy	2257 Feb 13 22:08	17°♎51'26	-4.6m	evening rise	2259 Jul 16 05:44	3°♌23'06	
	2257 Mar 05 08:59	0°♍			2259 Aug 06 21:35	0°♍	
morning max el	2257 Mar 24 22:14	17°♍45'27	46°34'58		2259 Aug 31 08:19	0°♎	
	2257 Apr 05 21:07	0°♆			2259 Sep 24 21:09	0°♏	
desc. node	2257 Apr 13 20:51	8°♆32'58		desc. node	2259 Sep 29 15:56	5°♏49'48	
	2257 May 03 04:28	0°♇			2259 Oct 19 13:26	0°♐	
	2257 May 29 05:42	0°♈			2259 Nov 13 11:13	0°♑	
	2257 Jun 23 16:57	0°♉			2259 Dec 08 20:16	0°♒	
	2257 Jul 18 19:02	0°♊			2260 Jan 04 09:57	0°♓	
asc. node	2257 Aug 05 00:14	20°♊49'23		evening max el	2260 Jan 15 14:46	11°♓47'39	47°09'16
	2257 Aug 12 13:05	0°♋		asc. node	2260 Jan 20 19:15	16°♓59'12	
	2257 Sep 05 23:38	0°♌			2260 Feb 04 02:22	0°♈	
morning set	2257 Sep 19 16:12	16°♌57'00		greatest brilliancy	2260 Feb 21 22:03	11°♈54'23	-4.6m
	2257 Sep 30 04:07	0°♍		retrograde	2260 Mar 06 09:38	15°♈15'33	
	2257 Oct 24 04:36	0°♎		evening set	2260 Mar 24 04:35	9°♈08'20	
max. Earth dist.	2257 Oct 24 17:29	0°♎40'17	1.71719 AU	inferior conj	2260 Mar 27 11:13	7°♈05'32	8°19'11
				minimum elong	2260 Mar 27 17:31	6°♈55'36	8°18'34
superior conj	2257 Oct 27 08:32	3°♎57'36	1°00'42	min. Earth dist.	2260 Mar 27 03:20	7°♈17'59	0.28046 AU
minimum elong	2257 Oct 27 18:50	4°♎29'52	1°00'21	morning rise	2260 Mar 31 06:41	4°♈43'50	
	2257 Nov 17 03:05	0°♏			2260 Apr 10 15:34	30°♎♁	
desc. node	2257 Nov 24 13:38	9°♏19'55		direct	2260 Apr 17 10:35	29°♎04'16	
evening rise	2257 Dec 06 12:07	24°♏18'39			2260 Apr 24 11:21	0°♈	
	2257 Dec 11 00:54	0°♐		greatest brilliancy	2260 Apr 28 17:19	1°♈22'48	-4.5m
	2258 Jan 03 23:01	0°♑		desc. node	2260 May 11 08:25	8°♈16'49	
	2258 Jan 27 22:54	0°♒		morning max el	2260 Jun 05 11:21	29°♈24'50	45°52'48
	2258 Feb 21 03:16	0°♓			2260 Jun 06 01:57	0°♉	
asc. node	2258 Mar 17 17:00	0°♈02'18			2260 Jul 05 00:30	0°♊	
	2258 Mar 17 16:14	0°♉			2260 Jul 31 17:42	0°♋	
	2258 Apr 11 19:42	0°♊			2260 Aug 26 09:02	0°♌	
	2258 May 08 00:06	0°♋		asc. node	2260 Sep 01 12:03	7°♌18'21	
	2258 Jun 05 09:37	0°♌			2260 Sep 20 07:11	0°♍	
evening max el	2258 Jun 08 22:57	3°♌27'25	45°24'25		2260 Oct 14 17:11	0°♎	
desc. node	2258 Jul 07 06:22	26°♌22'18			2260 Nov 07 19:24	0°♏	
	2258 Jul 14 05:14	0°♍		morning set	2260 Nov 30 21:17	28°♏56'29	
greatest brilliancy	2258 Jul 14 08:15	0°♍03'17	-4.5m		2260 Dec 01 17:30	0°♐	
retrograde	2258 Jul 27 11:44	3°♍04'08		desc. node	2260 Dec 22 01:30	25°♐34'28	
	2258 Aug 09 01:39	30°♎♁			2260 Dec 25 13:54	0°♑	
evening set	2258 Aug 13 12:55	27°♎36'46					



superior conj	2261 Jan 11 04:34	20°☾54'21	0°-45'-49	morning rise	2263 Jun 13 05:51	12°♁02'50	
minimum elong	2261 Jan 10 17:51	20°☾20'39	0°45'22	direct	2263 Jun 28 09:05	7°♁37'22	
max. Earth dist.	2261 Jan 12 10:54	22°☾29'44	1.71103 AU	greatest brilliancy	2263 Jul 11 15:27	10°♁42'17	-4.5m
	2261 Jan 18 10:06	0°≈			2263 Aug 08 04:30	0°☾	
	2261 Feb 11 07:22	0°✠		morning max el	2263 Aug 16 04:36	7°☾23'38	45°46'55
evening rise	2261 Feb 21 09:38	12°✠38'23			2263 Sep 07 07:04	0°♁	
	2261 Mar 07 07:18	0°♃		asc. node	2263 Sep 29 23:54	25°♁20'54	
	2261 Mar 31 11:48	0°♄			2263 Oct 04 00:30	0°♁	
asc. node	2261 Apr 14 04:51	16°♄52'03			2263 Oct 29 07:41	0°♁	
	2261 Apr 24 22:44	0°♁			2263 Nov 22 20:44	0°♁	
	2261 May 19 18:12	0°☾			2263 Dec 17 00:24	0°♁	
	2261 Jun 14 01:34	0°♁			2264 Jan 09 23:56	0°☾	
	2261 Jul 10 04:07	0°♁		desc. node	2264 Jan 19 13:23	11°☾58'54	
desc. node	2261 Aug 03 18:10	26°♁46'07			2264 Feb 02 22:15	0°≈	
	2261 Aug 06 20:47	0°♁		morning set	2264 Feb 16 23:05	17°≈35'04	
evening max el	2261 Aug 19 15:17	12°♁44'11	45°54'01		2264 Feb 26 21:06	0°✠	
	2261 Sep 08 11:16	0°♁			2264 Mar 21 21:45	0°♃	
greatest brilliancy	2261 Sep 27 03:34	10°♁55'55	-4.6m				
retrograde	2261 Oct 07 18:00	12°♁58'32		superior conj	2264 Mar 28 05:59	7°♃53'51	-1°-21'-18
evening set	2261 Oct 24 01:14	7°♁55'52		minimum elong	2264 Mar 28 12:49	8°♃15'06	1°21'12
inferior conj	2261 Oct 28 14:22	5°♁13'47	-6°-15'-19	max. Earth dist.	2264 Apr 01 03:09	12°♃43'32	1.72299 AU
minimum elong	2261 Oct 29 00:53	4°♁57'44	6°13'01		2264 Apr 15 01:17	0°♄	
min. Earth dist.	2261 Oct 29 12:47	4°♁39'35	0.27268 AU	evening rise	2264 May 06 02:07	25°♄59'08	
morning rise	2261 Nov 02 23:53	2°♁01'38			2264 May 09 08:22	0°♁	
	2261 Nov 06 23:37	30°♁		asc. node	2264 May 11 16:46	2°♁53'28	
direct	2261 Nov 18 10:22	27°♁20'02			2264 Jun 02 19:11	0°☾	
asc. node	2261 Nov 24 21:24	28°♁08'51			2264 Jun 27 09:58	0°♁	
	2261 Nov 30 09:30	0°♁			2264 Jul 22 05:46	0°♁	
greatest brilliancy	2261 Dec 02 07:35	0°♁51'50	-4.7m		2264 Aug 16 09:04	0°♁	
	2262 Jan 07 11:04	0°♁		desc. node	2264 Aug 31 06:00	17°♁29'44	
morning max el	2262 Jan 08 04:37	0°♁44'35	46°57'23		2264 Sep 11 00:25	0°♁	
	2262 Feb 04 03:12	0°☾			2264 Oct 07 13:21	0°♁	
	2262 Mar 01 22:47	0°≈		evening max el	2264 Oct 31 23:15	25°♁45'57	47°00'42
desc. node	2262 Mar 16 11:03	17°≈15'33			2264 Nov 05 06:48	0°☾	
	2262 Mar 27 01:59	0°✠		greatest brilliancy	2264 Dec 09 13:40	25°☾51'20	-4.7m
	2262 Apr 20 22:17	0°♃		retrograde	2264 Dec 21 10:46	28°☾29'01	
	2262 May 15 15:40	0°♄		asc. node	2264 Dec 22 09:24	28°☾27'55	
	2262 Jun 09 07:23	0°♁		evening set	2265 Jan 05 03:16	24°☾09'57	
	2262 Jul 03 21:08	0°☾		inferior conj	2265 Jan 10 23:23	20°☾42'51	4°49'52
asc. node	2262 Jul 07 14:28	4°☾33'20		minimum elong	2265 Jan 10 13:53	20°☾57'24	4°47'16
morning set	2262 Jul 11 00:43	8°☾45'14		min. Earth dist.	2265 Jan 10 07:36	21°☾07'01	0.26573 AU
	2262 Jul 28 07:59	0°♁		morning rise	2265 Jan 16 00:55	17°☾42'44	
max. Earth dist.	2262 Aug 13 12:58	19°♁58'40	1.73159 AU	direct	2265 Jan 31 09:10	13°☾04'55	
				greatest brilliancy	2265 Feb 11 11:13	15°☾23'45	-4.6m
superior conj	2262 Aug 16 10:05	23°♁32'06	1°16'21		2265 Mar 05 21:00	0°≈	
minimum elong	2262 Aug 16 03:02	23°♁10'20	1°16'12	morning max el	2265 Mar 22 11:06	15°≈20'29	46°36'21
	2262 Aug 21 15:35	0°♁			2265 Apr 05 16:25	0°✠	
	2262 Sep 14 20:37	0°♁		desc. node	2265 Apr 12 22:49	7°✠50'05	
evening rise	2262 Sep 21 21:33	8°♁44'21			2265 May 02 19:34	0°♃	
	2262 Oct 09 00:22	0°♁			2265 May 28 18:53	0°♄	
desc. node	2262 Oct 27 03:50	22°♁32'37			2265 Jun 23 05:05	0°♁	
	2262 Nov 02 03:56	0°♁			2265 Jul 18 06:33	0°☾	
	2262 Nov 26 08:06	0°☾		asc. node	2265 Aug 04 02:12	20°☾21'12	
	2262 Dec 20 14:12	0°≈			2265 Aug 12 00:14	0°♁	
	2263 Jan 14 01:38	0°✠			2265 Sep 05 10:36	0°♁	
	2263 Feb 08 01:37	0°♃		morning set	2265 Sep 17 08:35	14°♁45'06	
asc. node	2263 Feb 17 07:01	10°♃47'49			2265 Sep 29 15:00	0°♁	
	2263 Mar 06 05:19	0°♄		max. Earth dist.	2265 Oct 22 03:20	28°♁06'52	1.71763 AU
evening max el	2263 Mar 27 23:29	22°♄55'03	46°07'09		2265 Oct 23 15:30	0°♁	
	2263 Apr 04 08:54	0°♁					
greatest brilliancy	2263 May 01 14:35	20°♁15'02	-4.5m	superior conj	2265 Oct 24 22:44	1°♁37'45	1°03'09
retrograde	2263 May 16 10:39	24°♁08'03		minimum elong	2265 Oct 25 08:57	2°♁09'42	1°02'49
evening set	2263 May 31 13:37	19°♁39'42			2265 Nov 16 14:04	0°♁	
inferior conj	2263 Jun 06 20:34	15°♁52'43	0°28'23	desc. node	2265 Nov 23 15:48	8°♁52'10	
minimum elong	2263 Jun 06 21:36	15°♁51'04	0°28'04	evening rise	2265 Dec 03 23:25	21°♁48'44	
min. Earth dist.	2263 Jun 06 19:00	15°♁55'09	0.28836 AU		2265 Dec 10 12:01	0°☾	
desc. node	2263 Jun 08 20:28	14°♁38'00			2266 Jan 03 10:16	0°≈	

	2266 Jan 27 10:21	0° $\Upsilon$		morning max el	2268 Jun 03 01:53	27° $\Upsilon$ 09'49	45°53'50
	2266 Feb 20 15:00	0° $\Upsilon$			2268 Jun 06 00:01	0° $\Upsilon$	
asc. node	2266 Mar 16 18:55	29° $\Upsilon$ 31'05			2268 Jul 04 16:06	0° $\Pi$	
	2266 Mar 17 04:29	0° $\Upsilon$			2268 Jul 31 06:54	0° $\Upsilon$	
	2266 Apr 11 08:57	0° $\Pi$			2268 Aug 25 21:03	0° $\Omega$	
	2266 May 07 15:30	0° $\Upsilon$		asc. node	2268 Aug 31 14:03	6° $\Omega$ 48'51	
	2266 Jun 05 07:06	0° $\Omega$			2268 Sep 19 18:36	0° $\Upsilon$	
evening max el	2266 Jun 06 13:38	1° $\Omega$ 13'41	45°24'40		2268 Oct 14 04:18	0° $\Omega$	
desc. node	2266 Jul 06 08:24	25° $\Omega$ 01'43			2268 Nov 07 06:24	0° $\Omega$	
greatest brilliancy	2266 Jul 11 22:06	27° $\Omega$ 50'38	-4.5m	morning set	2268 Nov 28 09:07	26° $\Omega$ 28'30	
	2266 Jul 18 03:45	0° $\Upsilon$			2268 Dec 01 04:26	0° $\Upsilon$	
retrograde	2266 Jul 25 02:40	0° $\Upsilon$ 53'25		desc. node	2268 Dec 21 03:35	25° $\Upsilon$ 06'46	
	2266 Jul 31 20:38	30° $\Omega$			2268 Dec 25 00:47	0° $\Upsilon$	
evening set	2266 Aug 11 01:24	25° $\Omega$ 30'30					
inferior conj	2266 Aug 15 13:47	22° $\Omega$ 45'20	-7°-41'-36	superior conj	2269 Jan 08 14:26	18° $\Upsilon$ 20'15	0°-42'-21
minimum elong	2266 Aug 15 05:34	22° $\Omega$ 58'09	7°40'31	minimum elong	2269 Jan 08 04:15	17° $\Upsilon$ 48'13	0°41'56
min. Earth dist.	2266 Aug 15 17:43	22° $\Omega$ 39'11	0.28897 AU	max. Earth dist.	2269 Jan 09 15:59	19° $\Upsilon$ 40'36	1.71090 AU
morning rise	2266 Aug 19 09:33	20° $\Omega$ 24'03			2269 Jan 17 20:57	0° $\approx$	
direct	2266 Sep 06 04:05	14° $\Omega$ 29'19			2269 Feb 10 18:12	0° $\Upsilon$	
greatest brilliancy	2266 Sep 20 11:32	18° $\Omega$ 05'15	-4.5m	evening rise	2269 Feb 18 20:40	10° $\Upsilon$ 08'55	
	2266 Oct 08 10:38	0° $\Upsilon$			2269 Mar 06 18:10	0° $\Upsilon$	
morning max el	2266 Oct 25 22:42	15° $\Upsilon$ 59'27	46°23'17		2269 Mar 30 22:45	0° $\Upsilon$	
asc. node	2266 Oct 27 11:40	17° $\Upsilon$ 31'54		asc. node	2269 Apr 13 06:56	16° $\Upsilon$ 24'32	
	2266 Nov 08 10:29	0° $\Omega$			2269 Apr 24 09:57	0° $\Pi$	
	2266 Dec 05 00:00	0° $\Omega$			2269 May 19 05:55	0° $\Upsilon$	
	2266 Dec 30 03:16	0° $\Upsilon$			2269 Jun 13 14:14	0° $\Omega$	
	2267 Jan 23 16:24	0° $\Upsilon$			2269 Jul 09 18:43	0° $\Upsilon$	
desc. node	2267 Feb 16 01:08	28° $\Upsilon$ 50'02		desc. node	2269 Aug 02 20:09	26° $\Upsilon$ 03'22	
	2267 Feb 16 23:45	0° $\approx$			2269 Aug 06 16:01	0° $\Omega$	
	2267 Mar 13 05:14	0° $\Upsilon$		evening max el	2269 Aug 17 05:08	10° $\Omega$ 26'59	45°52'03
	2267 Apr 06 10:55	0° $\Upsilon$			2269 Sep 09 04:38	0° $\Omega$	
	2267 Apr 30 17:59	0° $\Upsilon$		greatest brilliancy	2269 Sep 24 14:20	8° $\Omega$ 32'42	-4.6m
morning set	2267 May 01 11:02	0° $\Upsilon$ 52'35		retrograde	2269 Oct 05 07:18	10° $\Omega$ 37'10	
	2267 May 25 02:39	0° $\Pi$		evening set	2269 Oct 21 17:28	5° $\Omega$ 29'16	
				inferior conj	2269 Oct 26 03:33	2° $\Omega$ 51'21	-6°-30'-58
superior conj	2267 Jun 07 18:17	16° $\Pi$ 47'05	0°-3'-26	minimum elong	2269 Oct 26 14:03	2° $\Omega$ 35'20	6°28'45
minimum elong	2267 Jun 07 19:00	16° $\Pi$ 49'17	0°03'24	min. Earth dist.	2269 Oct 27 02:02	2° $\Omega$ 17'04	0.27337 AU
behind sun begin	2267 Jun 06 20:37	15° $\Pi$ 40'30			2269 Oct 30 22:25	30° $\Omega$	
behind sun end	2267 Jun 08 17:23	17° $\Pi$ 58'04		morning rise	2269 Oct 31 10:05	29° $\Omega$ 43'33	
max. Earth dist.	2267 Jun 08 08:14	17° $\Pi$ 29'59	1.73501 AU	direct	2269 Nov 16 00:49	24° $\Omega$ 56'33	
asc. node	2267 Jun 09 04:39	18° $\Pi$ 32'41		asc. node	2269 Nov 23 23:34	26° $\Omega$ 09'51	
	2267 Jun 18 12:23	0° $\Upsilon$		greatest brilliancy	2269 Nov 29 23:31	28° $\Omega$ 30'47	-4.6m
	2267 Jul 12 22:22	0° $\Omega$			2269 Dec 02 20:32	0° $\Omega$	
evening rise	2267 Jul 14 00:22	1° $\Omega$ 19'49		morning max el	2270 Jan 05 19:47	28° $\Omega$ 23'58	46°57'09
	2267 Aug 06 08:30	0° $\Upsilon$			2270 Jan 07 09:19	0° $\Upsilon$	
	2267 Aug 30 19:33	0° $\Omega$			2270 Feb 03 19:18	0° $\Upsilon$	
	2267 Sep 24 08:52	0° $\Omega$			2270 Mar 01 12:30	0° $\approx$	
desc. node	2267 Sep 28 17:57	5° $\Omega$ 19'59		desc. node	2270 Mar 15 13:04	16° $\approx$ 42'53	
	2267 Oct 19 01:48	0° $\Upsilon$			2270 Mar 26 14:26	0° $\Upsilon$	
	2267 Nov 13 00:33	0° $\Upsilon$			2270 Apr 20 09:58	0° $\Upsilon$	
	2267 Dec 08 11:17	0° $\approx$			2270 May 15 02:49	0° $\Upsilon$	
	2268 Jan 04 04:52	0° $\Upsilon$			2270 Jun 08 18:13	0° $\Pi$	
evening max el	2268 Jan 13 04:03	9° $\Upsilon$ 23'24	47°10'34		2270 Jul 03 07:45	0° $\Upsilon$	
asc. node	2268 Jan 19 21:11	16° $\Upsilon$ 04'38		asc. node	2270 Jul 06 16:24	4° $\Upsilon$ 06'49	
	2268 Feb 04 14:25	0° $\Upsilon$		morning set	2270 Jul 08 18:48	6° $\Upsilon$ 41'07	
greatest brilliancy	2268 Feb 19 14:17	9° $\Upsilon$ 37'12	-4.6m		2270 Jul 27 18:31	0° $\Omega$	
retrograde	2268 Mar 04 00:24	12° $\Upsilon$ 57'40		max. Earth dist.	2270 Aug 11 09:45	18° $\Omega$ 02'03	1.73196 AU
evening set	2268 Mar 21 21:32	6° $\Upsilon$ 47'32					
min. Earth dist.	2268 Mar 24 17:47	5° $\Upsilon$ 01'15	0.28008 AU	superior conj	2270 Aug 14 04:04	21° $\Omega$ 26'48	1°14'54
inferior conj	2268 Mar 25 02:07	4° $\Upsilon$ 48'07	8°26'08	minimum elong	2270 Aug 13 20:39	21° $\Omega$ 03'52	1°14'44
minimum elong	2268 Mar 25 07:45	4° $\Upsilon$ 39'13	8°25'39		2270 Aug 21 02:09	0° $\Upsilon$	
morning rise	2268 Mar 28 18:10	2° $\Upsilon$ 31'37			2270 Sep 14 07:18	0° $\Omega$	
	2268 Apr 02 08:11	30° $\Omega$		evening rise	2270 Sep 19 13:40	6° $\Omega$ 32'03	
direct	2268 Apr 15 00:22	26° $\Upsilon$ 47'18			2270 Oct 08 11:15	0° $\Omega$	
greatest brilliancy	2268 Apr 26 07:32	29° $\Upsilon$ 06'07	-4.5m	desc. node	2270 Oct 26 05:57	22° $\Omega$ 04'49	
	2268 Apr 28 10:55	0° $\Upsilon$			2270 Nov 01 15:05	0° $\Upsilon$	
desc. node	2268 May 10 10:37	7° $\Upsilon$ 02'22			2270 Nov 25 19:36	0° $\Upsilon$	

	2270 Dec 20 02:10	0°♊		2273 Aug 11 11:07	0°♈		
	2271 Jan 13 14:15	0°♋		2273 Sep 04 21:20	0°♎		
	2271 Feb 07 15:23	0°♌	morning set	2273 Sep 15 01:03	12°♎34'08		
asc. node	2271 Feb 16 09:03	10°♌11'51		2273 Sep 29 01:43	0°♏		
	2271 Mar 05 21:43	0°♍	max. Earth dist.	2273 Oct 19 14:18	25°♏37'20	1.71816 AU	
evening max el	2271 Mar 25 15:54	20°♍44'15	46°09'35				
	2271 Apr 04 10:16	0°♎	superior conj	2273 Oct 22 12:58	29°♏18'18	1°05'30	
greatest brilliancy	2271 Apr 29 08:01	18°♎07'35	-4.5m	minimum elong	2273 Oct 22 22:59	29°♏49'41	1°05'10
retrograde	2271 May 14 03:41	21°♎59'34			2273 Oct 23 02:17	0°♐	
evening set	2271 May 29 07:14	17°♎29'59			2273 Nov 16 00:59	0°♑	
inferior conj	2271 Jun 04 12:59	13°♎44'10	0°48'18	desc. node	2273 Nov 22 17:50	8°♑24'15	
minimum elong	2271 Jun 04 14:46	13°♎41'23	0°47'46	evening rise	2273 Dec 01 10:30	19°♑18'28	
min. Earth dist.	2271 Jun 04 11:13	13°♎46'57	0.28818 AU		2273 Dec 09 23:04	0°♒	
desc. node	2271 Jun 07 22:27	11°♎38'04			2274 Jan 02 21:28	0°♓	
morning rise	2271 Jun 10 22:40	9°♎53'51			2274 Jan 26 21:42	0°♋	
direct	2271 Jun 26 01:50	5°♎29'17			2274 Feb 20 02:40	0°♌	
greatest brilliancy	2271 Jul 09 05:22	8°♎31'42	-4.5m	asc. node	2274 Mar 15 21:03	29°♌00'43	
	2271 Aug 08 05:44	0°♏			2274 Mar 16 16:41	0°♍	
morning max el	2271 Aug 13 20:50	5°♏15'18	45°46'06		2274 Apr 10 22:10	0°♎	
	2271 Sep 06 23:15	0°♐			2274 May 07 06:57	0°♏	
asc. node	2271 Sep 29 02:00	24°♐47'15		evening max el	2274 Jun 04 04:08	29°♏00'07	45°25'10
	2271 Oct 03 13:59	0°♑			2274 Jun 05 05:10	0°♐	
	2271 Oct 28 19:58	0°♒	desc. node	2274 Jul 05 10:23	23°♐39'33		
	2271 Nov 22 08:25	0°♓	greatest brilliancy	2274 Jul 09 11:14	25°♐38'17	-4.5m	
	2271 Dec 16 11:45	0°♋	retrograde	2274 Jul 22 18:18	28°♐44'30		
	2272 Jan 09 11:04	0°♌	evening set	2274 Aug 08 14:11	23°♐25'41		
desc. node	2272 Jan 18 15:17	11°♌30'07	inferior conj	2274 Aug 13 05:55	20°♐35'49	-7°-31'-55	
	2272 Feb 02 09:16	0°♍	minimum elong	2274 Aug 12 21:18	20°♐49'16	7°30'43	
morning set	2272 Feb 14 09:21	15°♍02'43	min. Earth dist.	2274 Aug 13 09:21	20°♐30'28	0.28920 AU	
	2272 Feb 26 07:59	0°♎	morning rise	2274 Aug 17 04:12	18°♐10'48		
	2272 Mar 21 08:30	0°♏	direct	2274 Sep 03 19:51	12°♐19'20		
			greatest brilliancy	2274 Sep 18 04:11	15°♐55'26	-4.5m	
superior conj	2272 Mar 25 19:11	5°♏32'10	-1°-22'-27		2274 Oct 08 18:04	0°♑	
minimum elong	2272 Mar 26 01:18	5°♏51'13	1°22'23	morning max el	2274 Oct 23 13:11	13°♑42'09	46°21'38
max. Earth dist.	2272 Mar 29 19:49	10°♏32'48	1.72240 AU	asc. node	2274 Oct 26 13:48	16°♑44'20	
	2272 Apr 14 11:57	0°♐			2274 Nov 08 04:16	0°♒	
evening rise	2272 May 03 17:55	23°♐47'07			2274 Dec 04 14:28	0°♓	
	2272 May 08 19:01	0°♑			2274 Dec 29 16:20	0°♋	
asc. node	2272 May 10 18:52	2°♑27'12			2275 Jan 23 04:42	0°♌	
	2272 Jun 02 05:57	0°♒	desc. node	2275 Feb 15 03:15	28°♒20'07		
	2272 Jun 26 21:01	0°♓		2275 Feb 16 11:32	0°♍		
	2272 Jul 21 17:21	0°♋		2275 Mar 12 16:38	0°♎		
	2272 Aug 15 21:34	0°♌		2275 Apr 05 22:02	0°♏		
desc. node	2272 Aug 30 08:00	16°♌56'46		morning set	2275 Apr 29 02:48	28°♏39'32	
	2272 Sep 10 14:29	0°♍			2275 Apr 30 04:54	0°♐	
	2272 Oct 07 06:30	0°♎			2275 May 24 13:27	0°♑	
evening max el	2272 Oct 29 13:03	23°♎22'49	46°58'42				
	2272 Nov 05 08:42	0°♏	superior conj	2275 Jun 05 11:45	14°♑40'18	0°-6'-39	
greatest brilliancy	2272 Dec 07 04:37	23°♏25'16	-4.7m	minimum elong	2275 Jun 05 13:10	14°♑44'38	0°06'36
retrograde	2272 Dec 18 22:55	25°♏59'39		behind sun begin	2275 Jun 04 16:10	13°♑40'05	
asc. node	2272 Dec 21 11:20	25°♏51'53		behind sun end	2275 Jun 06 10:10	15°♑49'10	
evening set	2273 Jan 02 13:28	21°♏44'32		max. Earth dist.	2275 Jun 06 03:04	15°♑27'21	1.73481 AU
inferior conj	2273 Jan 08 11:39	18°♏14'37	4°28'59	asc. node	2275 Jun 08 06:36	18°♑05'43	
minimum elong	2273 Jan 08 02:36	18°♏28'29	4°26'26		2275 Jun 17 23:07	0°♒	
min. Earth dist.	2273 Jan 07 21:07	18°♏36'54	0.26542 AU	evening rise	2275 Jul 11 19:19	29°♒17'35	
morning rise	2273 Jan 13 16:08	15°♏10'12			2275 Jul 12 09:08	0°♓	
direct	2273 Jan 28 21:15	10°♏37'10			2275 Aug 05 19:25	0°♋	
greatest brilliancy	2273 Feb 09 01:01	12°♏57'17	-4.7m		2275 Aug 30 06:48	0°♌	
	2273 Mar 06 05:38	0°♐			2275 Sep 23 20:37	0°♍	
morning max el	2273 Mar 19 23:03	12°♐53'42	46°37'49	desc. node	2275 Sep 27 20:08	4°♍50'35	
	2273 Apr 05 10:56	0°♑			2275 Oct 18 14:16	0°♎	
desc. node	2273 Apr 12 00:57	7°♑08'54			2275 Nov 12 14:07	0°♏	
	2273 May 02 10:11	0°♒			2275 Dec 08 02:45	0°♐	
	2273 May 28 07:41	0°♓			2276 Jan 04 00:41	0°♑	
	2273 Jun 22 16:53	0°♋		evening max el	2276 Jan 10 17:56	6°♑59'39	47°11'46
	2273 Jul 17 17:45	0°♌		asc. node	2276 Jan 18 23:15	15°♑08'06	
asc. node	2273 Aug 03 04:14	19°♌54'05			2276 Feb 05 07:17	0°♒	

greatest brilliancy	2276 Feb 17 05:49	7°♃17'39	-4.6m			2278 Jul 27 05:24	0°♄	
retrograde	2276 Mar 01 15:31	10°♃38'14		max. Earth dist.		2278 Aug 09 05:27	16°♄01'07	1.73228 AU
evening set	2276 Mar 19 14:00	4°♃25'24						
inferior conj	2276 Mar 22 16:47	2°♃28'59	8°32'16		superior conj	2278 Aug 11 22:09	19°♄20'45	1°13'21
minimum elong	2276 Mar 22 21:42	2°♃21'15	8°31'55		minimum elong	2278 Aug 11 14:23	18°♄56'50	1°13'10
min. Earth dist.	2276 Mar 22 07:38	2°♃43'22	0.27965 AU			2278 Aug 20 13:04	0°♃	
morning rise	2276 Mar 26 05:35	0°♃17'41				2278 Sep 13 18:20	0°♄	
	2276 Mar 26 17:25	30°♃			evening rise	2278 Sep 17 06:05	4°♄19'47	
direct	2276 Apr 12 14:10	24°♃28'44				2278 Oct 07 22:28	0°♄	
greatest brilliancy	2276 Apr 23 21:01	26°♃47'35	-4.5m		desc. node	2278 Oct 25 07:58	21°♄35'45	
	2276 Apr 30 13:57	0°♃				2278 Nov 01 02:32	0°♃	
desc. node	2276 May 09 12:39	5°♃49'02				2278 Nov 25 07:23	0°♄	
morning max el	2276 May 31 17:07	24°♃55'46	45°55'01			2278 Dec 19 14:24	0°♄	
	2276 Jun 05 21:28	0°♃				2279 Jan 13 03:12	0°♃	
	2276 Jul 04 07:37	0°♄				2279 Feb 07 05:38	0°♃	
	2276 Jul 30 20:08	0°♄			asc. node	2279 Feb 15 11:08	9°♃34'39	
	2276 Aug 25 09:09	0°♄				2279 Mar 05 14:54	0°♃	
asc. node	2276 Aug 30 16:09	6°♄19'22			evening max el	2279 Mar 23 07:57	18°♃30'44	46°11'44
	2276 Sep 19 06:06	0°♃				2279 Apr 04 13:54	0°♄	
	2276 Oct 13 15:31	0°♄			greatest brilliancy	2279 Apr 27 02:15	15°♄58'55	-4.5m
	2276 Nov 06 17:30	0°♄			retrograde	2279 May 11 20:02	19°♄48'33	
morning set	2276 Nov 25 21:27	24°♄01'43			evening set	2279 May 27 00:46	15°♄17'46	
	2276 Nov 30 15:30	0°♃			inferior conj	2279 Jun 02 05:11	11°♄33'23	1°08'16
desc. node	2276 Dec 20 05:32	24°♃38'03			minimum elong	2279 Jun 02 07:41	11°♄29'27	1°07'32
	2276 Dec 24 11:53	0°♄			min. Earth dist.	2279 Jun 02 03:32	11°♄35'59	0.28798 AU
					desc. node	2279 Jun 07 00:25	8°♄37'03	
superior conj	2277 Jan 06 00:11	15°♄44'51	0°-38'-48		morning rise	2279 Jun 08 15:02	7°♄42'36	
minimum elong	2277 Jan 05 14:39	15°♄14'53	0°38'24		direct	2279 Jun 23 18:07	3°♄19'02	
max. Earth dist.	2277 Jan 06 23:24	16°♄57'55	1.71088 AU		greatest brilliancy	2279 Jul 06 18:45	6°♄18'24	-4.5m
	2277 Jan 17 08:05	0°♄				2279 Aug 08 06:22	0°♄	
	2277 Feb 10 05:22	0°♃			morning max el	2279 Aug 11 11:59	3°♄02'57	45°45'28
evening rise	2277 Feb 16 07:12	7°♃36'46				2279 Sep 06 15:37	0°♄	
	2277 Mar 06 05:23	0°♃			asc. node	2279 Sep 28 04:03	24°♄12'36	
	2277 Mar 30 10:05	0°♃				2279 Oct 03 03:43	0°♃	
asc. node	2277 Apr 12 09:01	15°♄55'53				2279 Oct 28 08:33	0°♄	
	2277 Apr 23 21:31	0°♄				2279 Nov 21 20:23	0°♄	
	2277 May 18 18:00	0°♄				2279 Dec 15 23:22	0°♃	
	2277 Jun 13 03:19	0°♄				2280 Jan 08 22:29	0°♄	
	2277 Jul 09 09:49	0°♃			desc. node	2280 Jan 17 17:26	11°♄01'20	
desc. node	2277 Aug 01 22:14	25°♃19'37				2280 Feb 01 20:32	0°♄	
	2277 Aug 06 12:06	0°♄			morning set	2280 Feb 11 19:53	12°♄30'18	
evening max el	2277 Aug 14 20:01	8°♄11'50	45°50'12			2280 Feb 25 19:08	0°♃	
	2277 Sep 10 04:13	0°♄				2280 Mar 20 19:34	0°♃	
greatest brilliancy	2277 Sep 22 01:51	6°♄10'40	-4.6m					
retrograde	2277 Oct 02 20:53	8°♄16'16			superior conj	2280 Mar 23 08:22	3°♃09'20	-1°-23'-27
evening set	2277 Oct 19 10:04	3°♄03'34			minimum elong	2280 Mar 23 13:44	3°♃26'01	1°23'24
inferior conj	2277 Oct 23 17:06	0°♄29'37	-6°-45'-34		max. Earth dist.	2280 Mar 27 12:08	8°♃19'51	1.72187 AU
minimum elong	2277 Oct 24 03:30	0°♄13'43	6°43'30			2280 Apr 13 22:59	0°♃	
min. Earth dist.	2277 Oct 24 15:21	29°♄55'38	0.27404 AU		evening rise	2280 May 01 09:18	21°♃32'29	
	2277 Oct 24 12:30	30°♄				2280 May 08 06:06	0°♄	
morning rise	2277 Oct 28 20:29	27°♄26'09			asc. node	2280 May 09 20:48	1°♄59'03	
direct	2277 Nov 13 15:42	22°♄34'03				2280 Jun 01 17:11	0°♄	
asc. node	2277 Nov 23 01:26	24°♄15'37				2280 Jun 26 08:33	0°♄	
greatest brilliancy	2277 Nov 27 14:19	26°♄08'37	-4.6m			2280 Jul 21 05:24	0°♃	
	2277 Dec 04 10:00	0°♄				2280 Aug 15 10:32	0°♄	
morning max el	2278 Jan 03 10:44	26°♄02'24	46°56'35		desc. node	2280 Aug 29 10:09	16°♄22'51	
	2278 Jan 07 06:53	0°♃				2280 Sep 10 05:05	0°♄	
	2278 Feb 03 11:25	0°♄				2280 Oct 07 00:25	0°♃	
	2278 Mar 01 02:28	0°♄			evening max el	2280 Oct 27 02:00	20°♃56'45	46°56'45
desc. node	2278 Mar 14 15:11	16°♄09'24				2280 Nov 05 12:30	0°♄	
	2278 Mar 26 03:16	0°♃			greatest brilliancy	2280 Dec 04 20:03	20°♄59'02	-4.7m
	2278 Apr 19 22:04	0°♃			retrograde	2280 Dec 16 10:54	23°♄30'04	
	2278 May 14 14:24	0°♃			asc. node	2280 Dec 20 13:25	23°♄09'24	
	2278 Jun 08 05:25	0°♄			evening set	2280 Dec 31 00:00	19°♄18'16	
	2278 Jul 02 18:44	0°♄			min. Earth dist.	2281 Jan 05 11:06	16°♄06'04	0.26512 AU
asc. node	2278 Jul 05 18:26	3°♄39'29			inferior conj	2281 Jan 06 00:05	15°♄46'09	4°07'39
morning set	2278 Jul 06 12:44	4°♄35'32			minimum elong	2281 Jan 05 15:34	15°♄59'14	4°05'11

morning rise	2281 Jan 11 07:23	12°♁37'42			2283 Jul 11 20:00	0°♁	
direct	2281 Jan 26 09:01	8°♁08'56			2283 Aug 05 06:29	0°♁	
greatest brilliancy	2281 Feb 06 15:44	10°♁31'31	-4.7m		2283 Aug 29 18:13	0°♁	
	2281 Mar 06 12:00	0°♁			2283 Sep 23 08:32	0°♁	
morning max el	2281 Mar 17 10:55	10°♁26'02	46°39'18	desc. node	2283 Sep 26 22:03	4°♁19'56	
	2281 Apr 05 05:10	0°♁			2283 Oct 18 02:55	0°♁	
desc. node	2281 Apr 11 03:00	6°♁27'27			2283 Nov 12 03:52	0°♁	
	2281 May 02 00:51	0°♁			2283 Dec 07 18:28	0°♁	
	2281 May 27 20:42	0°♁			2284 Jan 03 21:08	0°♁	
	2281 Jun 22 04:59	0°♁		evening max el	2284 Jan 08 08:42	4°♁38'12	47°12'58
	2281 Jul 17 05:19	0°♁		asc. node	2284 Jan 18 01:22	14°♁10'33	
asc. node	2281 Aug 02 06:23	19°♁26'16			2284 Feb 06 06:02	0°♁	
	2281 Aug 10 22:20	0°♁		greatest brilliancy	2284 Feb 14 21:10	4°♁57'50	-4.6m
	2281 Sep 04 08:23	0°♁		retrograde	2284 Feb 28 07:10	8°♁18'37	
morning set	2281 Sep 12 17:23	10°♁21'47		evening set	2284 Mar 17 06:12	2°♁03'28	
	2281 Sep 28 12:43	0°♁		inferior conj	2284 Mar 20 07:24	0°♁09'38	8°37'41
max. Earth dist.	2281 Oct 17 04:03	23°♁15'42	1.71867 AU	minimum elong	2284 Mar 20 11:34	0°♁03'05	8°37'26
				min. Earth dist.	2284 Mar 19 21:07	0°♁25'46	0.27920 AU
superior conj	2281 Oct 20 03:11	26°♁58'07	1°07'42		2284 Mar 20 13:32	30°♁	
minimum elong	2281 Oct 20 12:59	27°♁28'45	1°07'25	morning rise	2284 Mar 23 17:09	28°♁03'14	
	2281 Oct 22 13:21	0°♁		direct	2284 Apr 10 04:20	22°♁10'08	
	2281 Nov 15 12:10	0°♁		greatest brilliancy	2284 Apr 21 09:30	24°♁27'59	-4.5m
desc. node	2281 Nov 21 19:48	7°♁55'17			2284 May 01 23:39	0°♁	
evening rise	2281 Nov 28 21:48	16°♁48'10		desc. node	2284 May 08 14:35	4°♁37'49	
	2281 Dec 09 10:23	0°♁		morning max el	2284 May 29 08:52	22°♁43'16	45°56'14
	2282 Jan 02 08:54	0°♁			2284 Jun 05 18:04	0°♁	
	2282 Jan 26 09:18	0°♁			2284 Jul 03 22:48	0°♁	
	2282 Feb 19 14:31	0°♁			2284 Jul 30 09:11	0°♁	
asc. node	2282 Mar 14 23:06	28°♁29'33			2284 Aug 24 21:10	0°♁	
	2282 Mar 16 05:05	0°♁		asc. node	2284 Aug 29 18:11	5°♁49'50	
	2282 Apr 10 11:39	0°♁			2284 Sep 18 17:35	0°♁	
	2282 May 06 22:52	0°♁			2284 Oct 13 02:45	0°♁	
evening max el	2282 Jun 01 18:56	26°♁46'33	45°25'34		2284 Nov 06 04:37	0°♁	
	2282 Jun 05 04:31	0°♁		morning set	2284 Nov 23 09:40	21°♁34'42	
desc. node	2282 Jul 04 12:31	22°♁13'40			2284 Nov 30 02:34	0°♁	
greatest brilliancy	2282 Jul 06 23:16	23°♁23'24	-4.5m	desc. node	2284 Dec 19 07:40	24°♁10'03	
retrograde	2282 Jul 20 10:14	26°♁34'10			2284 Dec 23 22:55	0°♁	
evening set	2282 Aug 06 02:45	21°♁19'20					
inferior conj	2282 Aug 10 21:51	18°♁24'48	-7°-21'-32	superior conj	2285 Jan 03 09:46	13°♁09'12	0°-35'-9
minimum elong	2282 Aug 10 12:52	18°♁38'49	7°20'11	minimum elong	2285 Jan 03 00:58	12°♁41'33	0°34'46
min. Earth dist.	2282 Aug 11 00:38	18°♁20'29	0.28944 AU	max. Earth dist.	2285 Jan 04 08:25	14°♁20'28	1.71082 AU
morning rise	2282 Aug 14 22:45	15°♁56'03			2285 Jan 16 19:07	0°♁	
direct	2282 Sep 01 11:39	10°♁07'52			2285 Feb 09 16:26	0°♁	
greatest brilliancy	2282 Sep 15 21:13	13°♁45'06	-4.5m	evening rise	2285 Feb 13 17:42	5°♁04'42	
	2282 Oct 08 23:42	0°♁			2285 Mar 05 16:30	0°♁	
morning max el	2282 Oct 21 04:30	11°♁26'16	46°20'08		2285 Mar 29 21:18	0°♁	
asc. node	2282 Oct 25 15:45	15°♁56'18		asc. node	2285 Apr 11 10:58	15°♁27'08	
	2282 Nov 07 21:54	0°♁			2285 Apr 23 08:59	0°♁	
	2282 Dec 04 04:56	0°♁			2285 May 18 05:58	0°♁	
	2282 Dec 29 05:26	0°♁			2285 Jun 12 16:18	0°♁	
	2283 Jan 22 17:02	0°♁			2285 Jul 09 00:54	0°♁	
desc. node	2283 Feb 14 05:18	27°♁49'44		desc. node	2285 Aug 01 00:19	24°♁35'46	
	2283 Feb 15 23:22	0°♁			2285 Aug 06 08:39	0°♁	
	2283 Mar 12 04:05	0°♁		evening max el	2285 Aug 12 10:44	5°♁56'44	45°48'06
	2283 Apr 05 09:13	0°♁			2285 Sep 11 12:53	0°♁	
morning set	2283 Apr 26 18:42	26°♁26'36		greatest brilliancy	2285 Sep 19 14:04	3°♁49'34	-4.5m
	2283 Apr 29 15:52	0°♁		retrograde	2285 Sep 30 09:45	5°♁55'11	
	2283 May 24 00:17	0°♁		evening set	2285 Oct 17 02:31	0°♁37'57	
					2285 Oct 18 04:30	30°♁	
superior conj	2283 Jun 03 05:19	12°♁33'36	0°-9'-51	inferior conj	2285 Oct 21 06:32	28°♁07'56	-6°-59'-28
minimum elong	2283 Jun 03 07:24	12°♁40'02	0°09'46	minimum elong	2285 Oct 21 16:44	27°♁52'17	6°57'33
behind sun begin	2283 Jun 02 13:08	11°♁43'51		min. Earth dist.	2285 Oct 22 04:48	27°♁33'50	0.27473 AU
behind sun end	2283 Jun 04 01:41	13°♁36'12		morning rise	2285 Oct 26 06:33	25°♁08'48	
max. Earth dist.	2283 Jun 03 23:31	13°♁29'34	1.73463 AU	direct	2285 Nov 11 06:16	20°♁11'30	
asc. node	2283 Jun 07 08:41	17°♁39'00		asc. node	2285 Nov 22 03:34	22°♁25'41	
	2283 Jun 17 09:54	0°♁		greatest brilliancy	2285 Nov 25 04:41	23°♁45'37	-4.6m
evening rise	2283 Jul 09 14:20	27°♁15'16			2285 Dec 05 12:28	0°♁	

morning max el	2286 Jan 01 00:46	23°♁38'36	46°56'05	desc. node	2288 Aug 28 12:09	15°♁49'38	
	2286 Jan 07 03:41	0°♁			2288 Sep 09 19:24	0°♁	
	2286 Feb 03 03:10	0°♁			2288 Oct 06 18:15	0°♁	
	2286 Feb 28 16:08	0°♁		evening max el	2288 Oct 24 14:20	18°♁30'39	46°54'39
desc. node	2286 Mar 13 17:12	15°♁36'31			2288 Nov 05 17:33	0°♁	
	2286 Mar 25 15:46	0°♁		greatest brilliancy	2288 Dec 02 10:30	18°♁32'35	-4.7m
	2286 Apr 19 09:51	0°♁		retrograde	2288 Dec 13 22:49	21°♁01'25	
	2286 May 14 01:42	0°♁		asc. node	2288 Dec 19 15:32	20°♁21'29	
	2286 Jun 07 16:22	0°♁		evening set	2288 Dec 28 10:36	16°♁52'02	
	2286 Jul 02 05:27	0°♁		min. Earth dist.	2289 Jan 03 01:01	13°♁35'38	0.26494 AU
morning set	2286 Jul 04 07:00	2°♁31'41		inferior conj	2289 Jan 03 12:24	13°♁18'14	3°45'36
asc. node	2286 Jul 04 20:36	3°♁13'21		minimum elong	2289 Jan 03 04:28	13°♁30'22	3°43'15
	2286 Jul 26 16:02	0°♁		morning rise	2289 Jan 08 22:28	10°♁06'00	
max. Earth dist.	2286 Aug 07 00:26	13°♁58'57	1.73260 AU	direct	2289 Jan 23 20:36	5°♁40'50	
				greatest brilliancy	2289 Feb 04 07:10	8°♁06'58	-4.7m
superior conj	2286 Aug 09 16:35	17°♁16'47	1°11'43		2289 Mar 06 16:11	0°♁	
minimum elong	2286 Aug 09 08:33	16°♁52'01	1°11'31	morning max el	2289 Mar 14 23:41	8°♁00'55	46°40'49
	2286 Aug 19 23:42	0°♁			2289 Apr 04 22:46	0°♁	
	2286 Sep 13 05:06	0°♁		desc. node	2289 Apr 10 04:59	5°♁46'52	
evening rise	2286 Sep 14 22:50	2°♁09'23			2289 May 01 15:05	0°♁	
	2286 Oct 07 09:27	0°♁			2289 May 27 09:19	0°♁	
desc. node	2286 Oct 24 09:59	21°♁07'16			2289 Jun 21 16:41	0°♁	
	2286 Oct 31 13:49	0°♁			2289 Jul 16 16:28	0°♁	
	2286 Nov 24 19:02	0°♁		asc. node	2289 Aug 01 08:20	18°♁59'01	
	2286 Dec 19 02:33	0°♁			2289 Aug 10 09:10	0°♁	
	2287 Jan 12 16:04	0°♁			2289 Sep 03 19:03	0°♁	
	2287 Feb 06 19:48	0°♁		morning set	2289 Sep 10 10:07	8°♁11'54	
asc. node	2287 Feb 14 13:09	8°♁57'44			2289 Sep 27 23:20	0°♁	
	2287 Mar 05 08:09	0°♁		max. Earth dist.	2289 Oct 14 19:41	21°♁01'11	1.71914 AU
evening max el	2287 Mar 20 23:06	16°♁15'46	46°14'03				
	2287 Apr 04 18:54	0°♁		superior conj	2289 Oct 17 17:58	24°♁40'51	1°09'46
greatest brilliancy	2287 Apr 24 20:23	13°♁51'13	-4.5m	minimum elong	2289 Oct 18 03:28	25°♁10'35	1°09'30
retrograde	2287 May 09 12:08	17°♁38'56			2289 Oct 22 00:01	0°♁	
evening set	2287 May 24 18:33	13°♁06'37			2289 Nov 14 22:57	0°♁	
inferior conj	2287 May 30 21:33	9°♁24'01	1°28'09	desc. node	2289 Nov 20 21:58	7°♁28'12	
minimum elong	2287 May 31 00:45	9°♁18'59	1°27'13	evening rise	2289 Nov 26 09:39	14°♁20'53	
min. Earth dist.	2287 May 30 20:18	9°♁26'00	0.28776 AU		2289 Dec 08 21:18	0°♁	
morning rise	2287 Jun 06 07:20	5°♁32'54			2290 Jan 01 19:59	0°♁	
desc. node	2287 Jun 06 02:37	5°♁39'22			2290 Jan 25 20:36	0°♁	
direct	2287 Jun 21 10:00	1°♁10'05			2290 Feb 19 02:11	0°♁	
greatest brilliancy	2287 Jul 04 08:42	4°♁06'56	-4.5m	asc. node	2290 Mar 14 01:04	27°♁58'41	
	2287 Aug 08 05:24	0°♁			2290 Mar 15 17:19	0°♁	
morning max el	2287 Aug 09 02:50	0°♁50'58	45°45'01		2290 Apr 10 01:01	0°♁	
	2287 Sep 06 07:15	0°♁			2290 May 06 14:46	0°♁	
asc. node	2287 Sep 27 06:02	23°♁39'12		evening max el	2290 May 30 10:37	24°♁36'06	45°26'17
	2287 Oct 02 16:56	0°♁			2290 Jun 05 04:34	0°♁	
	2287 Oct 27 20:41	0°♁		desc. node	2290 Jul 03 14:33	20°♁46'03	
	2287 Nov 21 08:00	0°♁		greatest brilliancy	2290 Jul 04 11:21	21°♁09'53	-4.5m
	2287 Dec 15 10:43	0°♁		retrograde	2290 Jul 18 02:36	24°♁25'12	
	2288 Jan 08 09:40	0°♁		evening set	2290 Aug 03 15:33	19°♁14'14	
desc. node	2288 Jan 16 19:31	10°♁32'59		inferior conj	2290 Aug 08 13:53	16°♁15'06	-7°-10'-40
	2288 Feb 01 07:35	0°♁		minimum elong	2290 Aug 08 04:36	16°♁29'33	7°09'10
morning set	2288 Feb 09 05:47	9°♁56'28		min. Earth dist.	2290 Aug 08 15:43	16°♁12'16	0.28962 AU
	2288 Feb 25 06:03	0°♁		morning rise	2290 Aug 12 17:28	13°♁42'34	
	2288 Mar 20 06:22	0°♁		direct	2290 Aug 30 04:01	7°♁57'50	
				greatest brilliancy	2290 Sep 13 13:47	11°♁35'36	-4.5m
superior conj	2288 Mar 20 21:08	0°♁46'00	-1°-24'-19		2290 Oct 09 02:58	0°♁	
minimum elong	2288 Mar 21 01:39	1°♁00'05	1°24'17	morning max el	2290 Oct 18 20:50	9°♁14'18	46°18'40
max. Earth dist.	2288 Mar 25 02:03	6°♁00'14	1.72127 AU	asc. node	2290 Oct 24 17:50	15°♁10'27	
	2288 Apr 13 09:42	0°♁			2290 Nov 07 14:47	0°♁	
evening rise	2288 Apr 29 00:27	19°♁18'04			2290 Dec 03 18:54	0°♁	
	2288 May 07 16:51	0°♁			2290 Dec 28 18:06	0°♁	
asc. node	2288 May 08 22:55	1°♁32'30			2291 Jan 22 04:59	0°♁	
	2288 Jun 01 04:05	0°♁		desc. node	2291 Feb 13 07:17	27°♁20'12	
	2288 Jun 25 19:44	0°♁			2291 Feb 15 10:52	0°♁	
	2288 Jul 20 17:07	0°♁			2291 Mar 11 15:16	0°♁	
	2288 Aug 14 23:10	0°♁			2291 Apr 04 20:10	0°♁	

morning set	2291 Apr 24 10:13	24°♃13'01		greatest brilliancy	2293 Sep 17 03:09	1°♌30'10	-4.5m
	2291 Apr 29 02:38	0°♄		retrograde	2293 Sep 27 22:21	3°♌35'15	
	2291 May 23 10:55	0°♅			2293 Oct 11 12:56	30°♌♁	
superior conj	2291 May 31 22:28	10°♅26'09	0°-13'-6	evening set	2293 Oct 14 19:11	28°♌13'32	
minimum elong	2291 Jun 01 01:15	10°♅34'41	0°12'58	inferior conj	2293 Oct 18 20:16	25°♌47'28	-7°-12'-29
behind sun begin	2291 May 31 11:50	9°♅53'25		minimum elong	2293 Oct 19 06:12	25°♌32'12	7°10'43
behind sun end	2291 Jun 01 14:40	11°♅15'58		min. Earth dist.	2293 Oct 19 18:44	25°♌12'58	0.27541 AU
max. Earth dist.	2291 Jun 01 20:42	11°♅34'32	1.73441 AU	morning rise	2293 Oct 23 16:49	22°♌52'44	
asc. node	2291 Jun 06 10:48	17°♅12'58		direct	2293 Nov 08 20:38	17°♌50'04	
	2291 Jun 16 20:28	0°♆		asc. node	2293 Nov 21 05:42	20°♌40'39	
evening rise	2291 Jul 07 09:08	25°♆13'00		greatest brilliancy	2293 Nov 22 19:40	21°♌24'09	-4.6m
	2291 Jul 11 06:38	0°♇			2293 Dec 06 07:39	0°♌	
	2291 Aug 04 17:20	0°♈		morning max el	2293 Dec 29 14:09	21°♌13'15	46°55'28
	2291 Aug 29 05:25	0°♉			2294 Jan 06 23:45	0°♈	
	2291 Sep 22 20:16	0°♊			2294 Feb 02 18:40	0°♉	
desc. node	2291 Sep 26 00:07	3°♌50'17			2294 Feb 28 05:41	0°♊	
	2291 Oct 17 15:23	0°♋		desc. node	2294 Mar 12 19:12	15°♊03'46	
	2291 Nov 11 17:28	0°♌			2294 Mar 25 04:14	0°♋	
	2291 Dec 07 10:08	0°♍			2294 Apr 18 21:37	0°♌	
	2292 Jan 03 17:54	0°♎			2294 May 13 12:58	0°♍	
evening max el	2292 Jan 06 00:26	2°♏20'06	47°14'01		2294 Jun 07 03:19	0°♎	
asc. node	2292 Jan 17 03:21	13°♏12'23			2294 Jul 01 16:14	0°♏	
	2292 Feb 07 13:00	0°♐		morning set	2294 Jul 02 01:09	0°♏27'17	
greatest brilliancy	2292 Feb 12 12:47	2°♐39'16	-4.6m	asc. node	2294 Jul 03 22:33	2°♏46'20	
retrograde	2292 Feb 25 22:49	5°♐59'30			2294 Jul 26 02:45	0°♑	
	2292 Mar 14 10:45	30°♐♁		max. Earth dist.	2294 Aug 04 18:17	11°♑53'01	1.73293 AU
evening set	2292 Mar 14 22:06	29°♏42'45		superior conj	2294 Aug 07 10:55	15°♑12'14	1°09'59
inferior conj	2292 Mar 17 22:01	27°♏50'52	8°42'12	minimum elong	2294 Aug 07 02:38	14°♑46'43	1°09'45
minimum elong	2292 Mar 18 01:26	27°♏45'31	8°42'02		2294 Aug 19 10:28	0°♐	
min. Earth dist.	2292 Mar 17 10:28	28°♏08'58	0.27876 AU	evening rise	2294 Sep 12 15:32	29°♐58'37	
morning rise	2292 Mar 21 04:59	25°♏48'50			2294 Sep 12 15:59	0°♑	
direct	2292 Apr 07 18:57	19°♏52'15			2294 Oct 06 20:31	0°♒	
greatest brilliancy	2292 Apr 18 21:14	22°♏07'56	-4.6m	desc. node	2294 Oct 23 12:06	20°♒38'50	
	2292 May 02 23:27	0°♐			2294 Oct 31 01:12	0°♋	
desc. node	2292 May 07 16:47	3°♐29'34			2294 Nov 24 06:49	0°♌	
morning max el	2292 May 27 00:34	20°♐30'53	45°57'19		2294 Dec 18 14:52	0°♍	
	2292 Jun 05 13:54	0°♑			2295 Jan 12 05:09	0°♎	
	2292 Jul 03 13:41	0°♒			2295 Feb 06 10:17	0°♏	
	2292 Jul 29 22:02	0°♓		asc. node	2295 Feb 13 15:11	8°♐20'01	
	2292 Aug 24 09:01	0°♑			2295 Mar 05 01:57	0°♑	
asc. node	2292 Aug 28 20:12	5°♑20'45		evening max el	2295 Mar 18 13:28	13°♑58'13	46°16'27
	2292 Sep 18 04:54	0°♒			2295 Apr 05 02:19	0°♒	
	2292 Oct 12 13:49	0°♓		greatest brilliancy	2295 Apr 22 13:33	11°♒41'37	-4.5m
	2292 Nov 05 15:35	0°♑		retrograde	2295 May 07 04:08	15°♒28'58	
morning set	2292 Nov 20 22:08	19°♒08'51		evening set	2295 May 22 12:23	10°♒54'35	
	2292 Nov 29 13:30	0°♋		inferior conj	2295 May 28 13:54	7°♒14'14	1°47'54
desc. node	2292 Dec 18 09:44	23°♋42'09		minimum elong	2295 May 28 17:48	7°♒08'06	1°46'45
	2292 Dec 23 09:50	0°♌		min. Earth dist.	2295 May 28 13:14	7°♒15'17	0.28756 AU
superior conj	2292 Dec 31 19:39	10°♌34'53	0°-31'-27	morning rise	2295 Jun 03 23:28	3°♒23'03	
minimum elong	2292 Dec 31 11:39	10°♌09'44	0°31'05	desc. node	2295 Jun 05 04:34	2°♒44'20	
max. Earth dist.	2293 Jan 01 15:49	11°♌38'19	1.71075 AU		2295 Jun 11 23:08	30°♒♁	
	2293 Jan 16 06:02	0°♍		direct	2295 Jun 19 01:26	29°♒00'29	
	2293 Feb 09 03:22	0°♎			2295 Jun 26 09:57	0°♓	
evening rise	2293 Feb 11 04:22	2°♏33'32		greatest brilliancy	2295 Jul 01 23:30	1°♓55'58	-4.5m
	2293 Mar 05 03:29	0°♐		morning max el	2295 Aug 06 17:45	28°♓38'32	45°44'34
	2293 Mar 29 08:24	0°♑			2295 Aug 08 03:44	0°♑	
asc. node	2293 Apr 10 13:07	14°♑59'17			2295 Sep 05 22:56	0°♒	
	2293 Apr 22 20:22	0°♒		asc. node	2295 Sep 26 08:09	23°♒05'34	
	2293 May 17 17:56	0°♓			2295 Oct 02 06:20	0°♓	
	2293 Jun 12 05:21	0°♑			2295 Oct 27 09:02	0°♑	
	2293 Jul 08 16:13	0°♒			2295 Nov 20 19:47	0°♒	
desc. node	2293 Jul 31 02:19	23°♒51'10			2295 Dec 14 22:13	0°♓	
	2293 Aug 06 05:54	0°♓		desc. node	2296 Jan 07 21:01	0°♑	
evening max el	2293 Aug 10 01:01	3°♓40'46	45°46'11		2296 Jan 15 21:26	10°♑03'35	
	2293 Sep 13 13:02	0°♑			2296 Jan 31 18:49	0°♒	
				morning set	2296 Feb 06 15:33	7°♒21'27	

	2296 Feb 24 17:11	0°☿		morning rise	2298 Aug 10 12:14	11°♁28'00	
				direct	2298 Aug 27 20:47	5°♁47'07	
superior conj	2296 Mar 18 09:48	28°☿21'29	-1°-25'-1	greatest brilliancy	2298 Sep 11 05:00	9°♁23'37	-4.5m
minimum elong	2296 Mar 18 13:26	28°☿32'49	1°25'01		2298 Oct 09 05:08	0°♁	
	2296 Mar 19 17:24	0°♁		morning max el	2298 Oct 16 12:58	7°♁01'05	46°16'59
max. Earth dist.	2296 Mar 22 12:43	3°♁29'40	1.72069 AU	asc. node	2298 Oct 23 19:58	14°♁24'23	
	2296 Apr 12 20:42	0°♁			2298 Nov 07 07:45	0°♁	
evening rise	2296 Apr 26 15:29	17°♁02'25			2298 Dec 03 09:10	0°♁	
	2296 May 07 03:52	0°♁			2298 Dec 28 07:09	0°♁	
asc. node	2296 May 08 01:01	1°♁05'04			2299 Jan 21 17:20	0°♁	
	2296 May 31 15:14	0°♁		desc. node	2299 Feb 12 09:25	26°♁49'52	
	2296 Jun 25 07:12	0°♁			2299 Feb 14 22:45	0°♁	
	2296 Jul 20 05:09	0°♁			2299 Mar 11 02:49	0°♁	
	2296 Aug 14 12:13	0°♁			2299 Apr 04 07:28	0°♁	
desc. node	2296 Aug 27 14:09	15°♁15'15		morning set	2299 Apr 22 01:30	21°♁57'31	
	2296 Sep 09 10:17	0°♁			2299 Apr 28 13:45	0°♁	
	2296 Oct 06 12:59	0°♁			2299 May 22 21:55	0°♁	
evening max el	2296 Oct 22 03:00	16°♁04'29	46°52'40				
	2296 Nov 06 01:19	0°♁		superior conj	2299 May 29 15:27	8°♁16'56	0°-16'-20
greatest brilliancy	2296 Nov 30 00:03	16°♁04'00	-4.7m	minimum elong	2299 May 29 18:54	8°♁27'34	0°16'10
retrograde	2296 Dec 11 11:09	18°♁31'51		max. Earth dist.	2299 May 30 18:58	9°♁41'37	1.73418 AU
asc. node	2296 Dec 18 17:28	17°♁26'44		asc. node	2299 Jun 05 12:45	16°♁45'13	
evening set	2296 Dec 25 21:24	14°♁24'14			2299 Jun 16 07:26	0°♁	
min. Earth dist.	2296 Dec 31 14:38	11°♁04'25	0.26478 AU	evening rise	2299 Jul 05 03:52	23°♁09'23	
inferior conj	2297 Jan 01 00:38	10°♁49'08	3°22'59		2299 Jul 10 17:39	0°♁	
minimum elong	2296 Dec 31 17:22	11°♁00'14	3°20'47		2299 Aug 04 04:32	0°♁	
morning rise	2297 Jan 06 13:24	7°♁33'33			2299 Aug 28 16:58	0°♁	
direct	2297 Jan 21 08:33	3°♁11'30			2299 Sep 22 08:21	0°♁	
greatest brilliancy	2297 Feb 01 22:16	5°♁41'08	-4.7m	desc. node	2299 Sep 25 02:16	3°♁19'55	
	2297 Mar 06 19:05	0°♁			2299 Oct 17 04:15	0°♁	
morning max el	2297 Mar 12 13:20	5°♁37'05	46°42'10		2299 Nov 11 07:34	0°♁	
	2297 Apr 04 16:20	0°♁			2299 Dec 07 02:31	0°♁	
desc. node	2297 Apr 09 07:09	5°♁06'16		evening max el	2300 Jan 03 16:14	0°♁00'31	47°14'49
	2297 May 01 05:32	0°♁			2300 Jan 03 16:02	0°♁	
	2297 May 26 22:14	0°♁		asc. node	2300 Jan 16 05:25	12°♁11'26	
	2297 Jun 21 04:43	0°♁			2300 Feb 09 12:39	0°♁	
	2297 Jul 16 03:57	0°♁		greatest brilliancy	2300 Feb 10 05:18	0°♁19'43	-4.7m
asc. node	2297 Jul 31 10:24	18°♁31'08		retrograde	2300 Feb 23 13:54	3°♁37'46	
	2297 Aug 09 20:19	0°♁			2300 Mar 08 21:42	30°♁	
	2297 Sep 03 06:03	0°♁		evening set	2300 Mar 13 13:22	27°♁20'23	
morning set	2297 Sep 08 02:53	6°♁01'10		min. Earth dist.	2300 Mar 15 23:42	25°♁49'39	0.27825 AU
	2297 Sep 27 10:20	0°♁		inferior conj	2300 Mar 16 12:21	25°♁29'49	8°45'51
max. Earth dist.	2297 Oct 12 10:56	18°♁44'21	1.71965 AU	minimum elong	2300 Mar 16 14:57	25°♁25'44	8°45'46
				morning rise	2300 Mar 19 16:45	23°♁31'37	
superior conj	2297 Oct 15 08:39	22°♁22'08	1°11'44	direct	2300 Apr 06 09:16	17°♁32'22	
minimum elong	2297 Oct 15 17:47	22°♁50'42	1°11'29	greatest brilliancy	2300 Apr 17 08:18	19°♁45'17	-4.6m
	2297 Oct 21 11:07	0°♁			2300 May 04 17:43	0°♁	
	2297 Nov 14 10:11	0°♁		desc. node	2300 May 07 18:48	2°♁21'32	
desc. node	2297 Nov 19 23:59	6°♁59'17		morning max el	2300 May 25 15:14	18°♁14'46	45°58'25
evening rise	2297 Nov 23 21:14	11°♁51'28			2300 Jun 06 09:32	0°♁	
	2297 Dec 08 08:39	0°♁			2300 Jul 04 04:42	0°♁	
	2298 Jan 01 07:28	0°♁			2300 Jul 30 11:07	0°♁	
	2298 Jan 25 08:18	0°♁			2300 Aug 24 21:06	0°♁	
	2298 Feb 18 14:14	0°♁		asc. node	2300 Aug 28 22:18	4°♁51'09	
asc. node	2298 Mar 13 03:12	27°♁27'03			2300 Sep 18 16:28	0°♁	
	2298 Mar 15 06:00	0°♁			2300 Oct 13 01:06	0°♁	
	2298 Apr 09 14:55	0°♁			2300 Nov 06 02:45	0°♁	
	2298 May 06 07:24	0°♁		morning set	2300 Nov 19 10:53	16°♁43'17	
evening max el	2298 May 28 03:06	22°♁26'24	45°27'02		2300 Nov 30 00:39	0°♁	
	2298 Jun 05 06:23	0°♁		desc. node	2300 Dec 18 11:41	23°♁13'12	
greatest brilliancy	2298 Jul 02 00:32	18°♁56'42	-4.5m		2300 Dec 23 21:00	0°♁	
desc. node	2298 Jul 02 16:32	19°♁14'20					
retrograde	2298 Jul 15 19:01	22°♁15'05		superior conj	2300 Dec 30 05:36	8°♁00'03	0°-27'-40
evening set	2298 Aug 01 04:29	17°♁08'15		minimum elong	2300 Dec 29 22:29	7°♁37'39	0°27'22
inferior conj	2298 Aug 06 05:56	14°♁04'25	-6°-59'-7	max. Earth dist.	2300 Dec 30 20:40	8°♁47'26	1.71075 AU
minimum elong	2298 Aug 05 20:25	14°♁19'14	6°57'30		2301 Jan 16 17:15	0°♁	
min. Earth dist.	2298 Aug 06 06:40	14°♁03'17	0.28976 AU	evening rise	2301 Feb 09 14:38	0°♁00'02	



	2301 Feb 09 14:37	0°♁		morning max el	2303 Aug 05 09:16	26°♁27'35	45°44'13
	2301 Mar 05 14:46	0°♁			2303 Aug 09 01:12	0°♁	
	2301 Mar 29 19:48	0°♁			2303 Sep 06 14:17	0°♁	
asc. node	2301 Apr 10 15:09	14°♁30'11		asc. node	2303 Sep 26 10:12	22°♁32'13	
	2301 Apr 23 08:03	0°♁			2303 Oct 02 19:31	0°♁	
	2301 May 18 06:12	0°♁			2303 Oct 27 21:13	0°♁	
	2301 Jun 12 18:47	0°♁			2303 Nov 21 07:27	0°♁	
desc. node	2301 Jul 09 08:03	0°♁			2303 Dec 15 09:36	0°♁	
	2301 Jul 31 04:24	23°♁05'26		desc. node	2304 Jan 08 08:12	0°♁	
	2301 Aug 07 04:17	0°♁			2304 Jan 15 23:36	9°♁35'26	
evening max el	2301 Aug 08 14:26	1°♁22'04	45°44'20		2304 Feb 01 05:51	0°♁	
greatest brilliancy	2301 Sep 15 16:22	29°♁10'31	-4.5m	morning set	2304 Feb 05 01:42	4°♁48'10	
	2301 Sep 18 04:02	0°♁			2304 Feb 25 04:05	0°♁	
retrograde	2301 Sep 26 10:54	1°♁15'20					
	2301 Oct 04 10:48	30°♁		superior conj	2304 Mar 16 22:39	25°♁58'09	-1°-25'-33
evening set	2301 Oct 13 11:48	25°♁49'00		minimum elong	2304 Mar 17 01:23	26°♁06'41	1°25'34
inferior conj	2301 Oct 17 10:04	23°♁26'59	-7°-24'-36		2304 Mar 20 04:14	0°♁	
minimum elong	2301 Oct 17 19:41	23°♁12'12	7°23'00	max. Earth dist.	2304 Mar 20 22:43	0°♁57'38	1.72015 AU
min. Earth dist.	2301 Oct 18 08:56	22°♁51'50	0.27607 AU		2304 Apr 13 07:30	0°♁	
morning rise	2301 Oct 22 03:06	20°♁36'54		evening rise	2304 Apr 25 06:32	14°♁47'25	
direct	2301 Nov 07 10:35	15°♁28'30			2304 May 07 14:43	0°♁	
asc. node	2301 Nov 21 07:35	18°♁59'06		asc. node	2304 May 08 02:57	0°♁37'39	
greatest brilliancy	2301 Nov 21 11:26	19°♁03'43	-4.6m		2304 Jun 01 02:13	0°♁	
	2301 Dec 07 22:01	0°♁			2304 Jun 25 18:30	0°♁	
morning max el	2301 Dec 28 03:09	18°♁46'48	46°54'53		2304 Jul 20 17:03	0°♁	
	2302 Jan 07 19:17	0°♁			2304 Aug 15 01:10	0°♁	
	2302 Feb 03 10:02	0°♁		desc. node	2304 Aug 27 16:18	14°♁41'39	
	2302 Feb 28 19:15	0°♁			2304 Sep 10 01:09	0°♁	
desc. node	2302 Mar 12 21:19	14°♁31'03			2304 Oct 07 07:58	0°♁	
	2302 Mar 25 16:47	0°♁		evening max el	2304 Oct 20 16:31	13°♁41'17	46°50'36
	2302 Apr 19 09:30	0°♁			2304 Nov 07 11:30	0°♁	
	2302 May 14 00:23	0°♁		greatest brilliancy	2304 Nov 28 12:47	13°♁35'14	-4.7m
	2302 Jun 07 14:24	0°♁		retrograde	2304 Dec 09 23:51	16°♁02'51	
morning set	2302 Jun 30 18:59	28°♁21'37		asc. node	2304 Dec 18 19:35	14°♁26'46	
	2302 Jul 02 03:07	0°♁		evening set	2304 Dec 24 08:25	11°♁56'45	
asc. node	2302 Jul 04 00:36	2°♁19'20		min. Earth dist.	2304 Dec 30 03:55	8°♁34'01	0.26463 AU
	2302 Jul 26 13:33	0°♁		inferior conj	2304 Dec 30 12:47	8°♁20'31	2°59'53
max. Earth dist.	2302 Aug 03 13:11	9°♁50'04	1.73327 AU	minimum elong	2304 Dec 30 06:13	8°♁30'31	2°57'52
				morning rise	2305 Jan 05 04:07	5°♁01'56	
superior conj	2302 Aug 06 05:06	13°♁07'04	1°08'08	direct	2305 Jan 19 21:05	0°♁42'52	
minimum elong	2302 Aug 05 20:37	12°♁40'56	1°07'54	greatest brilliancy	2305 Jan 31 12:35	3°♁15'09	-4.7m
	2302 Aug 19 21:18	0°♁			2305 Mar 07 20:09	0°♁	
evening rise	2302 Sep 11 08:22	27°♁48'07		morning max el	2305 Mar 11 03:35	3°♁15'45	46°43'39
	2302 Sep 13 02:56	0°♁			2305 Apr 05 09:06	0°♁	
	2302 Oct 07 07:41	0°♁		desc. node	2305 Apr 09 09:09	4°♁26'53	
desc. node	2302 Oct 23 14:06	20°♁09'45			2305 May 01 19:26	0°♁	
	2302 Oct 31 12:39	0°♁			2305 May 27 10:42	0°♁	
	2302 Nov 24 18:38	0°♁			2305 Jun 21 16:22	0°♁	
	2302 Dec 19 03:10	0°♁			2305 Jul 16 15:06	0°♁	
	2303 Jan 12 18:13	0°♁		asc. node	2305 Jul 31 12:32	18°♁04'21	
	2303 Feb 07 00:51	0°♁			2305 Aug 10 07:10	0°♁	
asc. node	2303 Feb 13 17:17	7°♁42'23			2305 Sep 03 16:44	0°♁	
	2303 Mar 05 20:09	0°♁		morning set	2305 Sep 06 19:40	3°♁51'35	
evening max el	2303 Mar 17 03:36	11°♁39'59	46°18'45		2305 Sep 27 21:01	0°♁	
	2303 Apr 06 12:34	0°♁		max. Earth dist.	2305 Oct 11 01:25	16°♁26'15	1.72014 AU
greatest brilliancy	2303 Apr 21 05:49	9°♁30'28	-4.5m				
retrograde	2303 May 05 20:18	13°♁18'40		superior conj	2305 Oct 13 23:27	20°♁04'54	1°13'33
evening set	2303 May 21 06:16	8°♁41'44		minimum elong	2305 Oct 14 08:09	20°♁32'04	1°13'20
inferior conj	2303 May 27 06:10	5°♁03'58	2°07'33		2305 Oct 21 21:52	0°♁	
minimum elong	2303 May 27 10:44	4°♁56'47	2°06'13		2305 Nov 14 21:04	0°♁	
min. Earth dist.	2303 May 27 06:00	5°♁04'14	0.28738 AU	desc. node	2305 Nov 20 01:57	6°♁31'14	
morning rise	2303 Jun 02 15:24	1°♁13'10		evening rise	2305 Nov 22 08:55	9°♁23'26	
	2303 Jun 04 23:58	30°♁			2305 Dec 08 19:41	0°♁	
desc. node	2303 Jun 05 06:34	29°♁52'06			2306 Jan 01 18:40	0°♁	
direct	2303 Jun 17 16:43	26°♁50'18			2306 Jan 25 19:42	0°♁	
greatest brilliancy	2303 Jun 30 15:09	29°♁45'49	-4.5m		2306 Feb 19 01:57	0°♁	
	2303 Jul 01 04:13	0°♁		asc. node	2306 Mar 13 05:14	26°♁56'23	

	2306 Mar 15 18:18	0°♄			2308 Oct 12 12:04	0°♁		
	2306 Apr 10 04:25	0°♁			2308 Nov 05 13:37	0°♁		
	2306 May 06 23:48	0°♁		morning set	2308 Nov 16 23:40	14°♁18'44		
evening max el	2306 May 26 19:56	20°♁18'54	45°27'42		2308 Nov 29 11:29	0°♁		
	2306 Jun 06 09:03	0°♁		desc. node	2308 Dec 17 13:51	22°♁45'52		
greatest brilliancy	2306 Jun 30 15:02	16°♁46'34	-4.5m		2308 Dec 23 07:51	0°♁		
desc. node	2306 Jul 02 18:40	17°♁41'06						
retrograde	2306 Jul 14 11:15	20°♁06'23		superior conj	2308 Dec 27 15:33	5°♁26'15	0°-23'-51	
evening set	2306 Jul 30 17:40	15°♁03'52		minimum elong	2308 Dec 27 09:22	5°♁06'45	0°23'34	
inferior conj	2306 Aug 04 22:07	11°♁55'21	-6°-46'-59	max. Earth dist.	2308 Dec 27 23:01	5°♁49'44	1.71076 AU	
minimum elong	2306 Aug 04 12:26	12°♁10'27	6°45'16		2309 Jan 16 04:07	0°≈		
min. Earth dist.	2306 Aug 04 21:55	11°♁55'40	0.28989 AU	evening rise	2309 Feb 07 00:49	27°≈27'17		
morning rise	2306 Aug 09 07:07	9°♁14'51			2309 Feb 09 01:32	0°♁		
direct	2306 Aug 26 13:47	3°♁38'09			2309 Mar 05 01:45	0°♁		
greatest brilliancy	2306 Sep 09 19:35	7°♁12'10	-4.5m		2309 Mar 29 06:56	0°♁		
	2306 Oct 10 05:30	0°♁		asc. node	2309 Apr 09 17:07	14°♁01'45		
morning max el	2306 Oct 15 04:25	4°♁47'26	46°15'17		2309 Apr 22 19:28	0°♁		
asc. node	2306 Oct 23 21:54	13°♁39'40			2309 May 17 18:12	0°♁		
	2306 Nov 07 23:59	0°♁			2309 Jun 12 07:56	0°♁		
	2306 Dec 03 22:52	0°♁			2309 Jul 08 23:41	0°♁		
	2306 Dec 28 19:42	0°♁		desc. node	2309 Jul 30 06:29	22°♁20'20		
	2307 Jan 22 05:14	0°♁		evening max el	2309 Aug 06 03:12	29°♁03'12	45°42'32	
desc. node	2307 Feb 12 11:26	26°♁20'25			2309 Aug 07 03:04	0°♁		
	2307 Feb 15 10:13	0°≈		greatest brilliancy	2309 Sep 13 04:43	26°♁51'22	-4.5m	
	2307 Mar 11 13:58	0°♁		retrograde	2309 Sep 23 23:47	28°♁57'10		
	2307 Apr 04 18:21	0°♁		evening set	2309 Oct 11 04:23	23°♁25'55		
morning set	2307 Apr 20 16:57	19°♁43'50		inferior conj	2309 Oct 15 00:01	21°♁07'53	-7°-35'-42	
	2307 Apr 29 00:26	0°♁		minimum elong	2309 Oct 15 09:13	20°♁53'44	7°34'18	
	2307 May 23 08:27	0°♁		min. Earth dist.	2309 Oct 15 23:10	20°♁32'18	0.27680 AU	
				morning rise	2309 Oct 19 13:34	18°♁22'40		
superior conj	2307 May 28 08:40	6°♁09'53	0°-19'-31	direct	2309 Nov 05 00:43	13°♁08'00		
minimum elong	2307 May 28 12:46	6°♁22'32	0°19'20	greatest brilliancy	2309 Nov 19 04:34	16°♁46'05	-4.6m	
max. Earth dist.	2307 May 29 18:15	7°♁53'13	1.73389 AU	asc. node	2309 Nov 20 09:43	17°♁22'27		
asc. node	2307 Jun 05 14:51	16°♁19'25			2309 Dec 08 08:28	0°♁		
	2307 Jun 16 17:55	0°♁		morning max el	2309 Dec 25 16:48	16°♁22'33	46°54'16	
evening rise	2307 Jul 03 22:49	21°♁07'46			2310 Jan 07 14:07	0°♁		
	2307 Jul 11 04:14	0°♁			2310 Feb 03 01:02	0°♁		
	2307 Aug 04 15:22	0°♁			2310 Feb 28 08:30	0°≈		
	2307 Aug 29 04:10	0°♁		desc. node	2310 Mar 11 23:20	13°≈58'48		
desc. node	2307 Sep 22 20:05	0°♁			2310 Mar 25 05:04	0°♁		
	2307 Sep 25 04:12	2°♁49'58			2310 Apr 18 21:07	0°♁		
	2307 Oct 17 16:48	0°♁			2310 May 13 11:33	0°♁		
	2307 Nov 11 21:24	0°♁			2310 Jun 07 01:16	0°♁		
	2307 Dec 07 18:46	0°≈		morning set	2310 Jun 28 13:01	26°♁17'06		
evening max el	2308 Jan 02 07:11	27°≈39'47	47°15'27		2310 Jul 01 13:47	0°♁		
	2308 Jan 04 14:35	0°♁		asc. node	2310 Jul 03 02:45	1°♁53'15		
asc. node	2308 Jan 16 07:31	11°♁10'20			2310 Jul 26 00:08	0°♁		
greatest brilliancy	2308 Feb 08 22:34	28°♁02'02	-4.7m	max. Earth dist.	2310 Aug 01 10:03	7°♁53'54	1.73355 AU	
	2308 Feb 14 01:02	0°♁						
retrograde	2308 Feb 22 04:29	1°♁16'49		superior conj	2310 Aug 03 23:37	11°♁03'37	1°06'14	
	2308 Mar 01 00:50	30°♁		minimum elong	2310 Aug 03 14:59	10°♁37'01	1°05'58	
evening set	2308 Mar 11 04:14	24°♁59'38			2310 Aug 19 07:54	0°♁		
min. Earth dist.	2308 Mar 13 13:17	23°♁30'48	0.27772 AU	evening rise	2310 Sep 09 01:42	25°♁40'02		
inferior conj	2308 Mar 14 02:40	23°♁09'47	8°48'41		2310 Sep 12 13:40	0°♁		
minimum elong	2308 Mar 14 04:24	23°♁07'03	8°48'39		2310 Oct 06 18:39	0°♁		
morning rise	2308 Mar 17 04:48	21°♁14'53		desc. node	2310 Oct 22 16:08	19°♁41'25		
direct	2308 Apr 03 23:10	15°♁13'26			2310 Oct 30 23:57	0°♁		
greatest brilliancy	2308 Apr 14 20:14	17°♁24'22	-4.6m		2310 Nov 24 06:22	0°♁		
	2308 May 05 06:49	0°♁			2310 Dec 18 15:27	0°≈		
desc. node	2308 May 06 20:45	1°♁16'20			2311 Jan 12 07:20	0°♁		
morning max el	2308 May 23 04:59	15°♁57'28	45°59'45		2311 Feb 06 15:33	0°♁		
	2308 Jun 06 04:07	0°♁		asc. node	2311 Feb 12 19:17	7°♁04'19		
	2308 Jul 03 19:01	0°♁			2311 Mar 05 14:45	0°♁		
	2308 Jul 29 23:38	0°♁		evening max el	2311 Mar 14 17:58	9°♁22'26	46°21'13	
	2308 Aug 24 08:43	0°♁			2311 Apr 07 02:20	0°♁		
asc. node	2308 Aug 28 00:19	4°♁22'38		greatest brilliancy	2311 Apr 18 21:31	7°♁18'35	-4.5m	
	2308 Sep 18 03:38	0°♁		retrograde	2311 May 03 12:48	11°♁08'17		

evening set	2311 May 19 00:09	6°♁28'26		superior conj	2313 Oct 11 14:41	17°♁48'31	1°15'13
inferior conj	2311 May 24 22:18	2°♁53'22	2°27'06	minimum elong	2313 Oct 11 22:55	18°♁14'12	1°15'02
minimum elong	2311 May 25 03:31	2°♁45'10	2°25'37		2313 Oct 21 08:49	0°♁	
min. Earth dist.	2311 May 24 22:19	2°♁53'20	0.28720 AU		2313 Nov 14 08:07	0°♁	
	2311 May 29 15:14	30°♁		desc. node	2313 Nov 19 04:07	6°♁03'17	
morning rise	2311 May 31 07:05	29°♁03'25		evening rise	2313 Nov 19 21:03	6°♁56'19	
desc. node	2311 Jun 04 08:46	27°♁03'09			2313 Dec 08 06:52	0°♁	
direct	2311 Jun 15 08:13	24°♁39'44			2314 Jan 01 06:02	0°♁	
greatest brilliancy	2311 Jun 28 06:50	27°♁35'41	-4.5m		2314 Jan 25 07:19	0°♁	
	2311 Jul 03 04:57	0°♁			2314 Feb 18 13:58	0°♁	
morning max el	2311 Aug 03 01:38	24°♁18'57	45°44'04	asc. node	2314 Mar 12 07:11	26°♁24'21	
	2311 Aug 08 21:50	0°♁			2314 Mar 15 07:00	0°♁	
	2311 Sep 06 05:18	0°♁			2314 Apr 09 18:27	0°♁	
asc. node	2311 Sep 25 12:10	21°♁59'15			2314 May 06 16:59	0°♁	
	2311 Oct 02 08:29	0°♁		evening max el	2314 May 24 12:07	18°♁08'28	45°28'28
	2311 Oct 27 09:13	0°♁			2314 Jun 06 14:03	0°♁	
	2311 Nov 20 19:01	0°♁		greatest brilliancy	2314 Jun 28 06:21	14°♁35'59	-4.5m
	2311 Dec 14 20:56	0°♁		desc. node	2314 Jul 01 20:41	16°♁03'02	
	2312 Jan 07 19:25	0°♁		retrograde	2314 Jul 12 02:57	17°♁56'12	
desc. node	2312 Jan 15 01:40	9°♁06'52		evening set	2314 Jul 28 06:50	12°♁57'59	
	2312 Jan 31 16:58	0°♁		inferior conj	2314 Aug 02 14:11	9°♁44'57	-6°-34'-23
morning set	2312 Feb 02 11:22	2°♁13'04		minimum elong	2314 Aug 02 04:22	10°♁00'17	6°32'33
	2312 Feb 24 15:06	0°♁		min. Earth dist.	2314 Aug 02 13:23	9°♁46'12	0.28998 AU
				morning rise	2314 Aug 07 01:51	7°♁00'16	
superior conj	2312 Mar 14 10:47	23°♁32'07	-1°-25'-57	direct	2314 Aug 24 06:14	1°♁27'50	
minimum elong	2312 Mar 14 12:34	23°♁37'41	1°25'58	greatest brilliancy	2314 Sep 07 09:43	4°♁58'47	-4.5m
max. Earth dist.	2312 Mar 18 08:43	28°♁25'07	1.71962 AU		2314 Oct 10 05:12	0°♁	
	2312 Mar 19 15:09	0°♁		morning max el	2314 Oct 12 18:56	2°♁30'28	46°13'46
	2312 Apr 12 18:23	0°♁		asc. node	2314 Oct 23 00:01	12°♁55'05	
evening rise	2312 Apr 22 21:03	12°♁30'27			2314 Nov 07 16:17	0°♁	
asc. node	2312 May 07 05:04	0°♁10'30			2314 Dec 03 12:45	0°♁	
	2312 May 07 01:39	0°♁			2314 Dec 28 08:26	0°♁	
	2312 May 31 13:20	0°♁			2315 Jan 21 17:19	0°♁	
	2312 Jun 25 05:57	0°♁		desc. node	2315 Feb 11 13:26	25°♁50'16	
	2312 Jul 20 05:06	0°♁			2315 Feb 14 21:53	0°♁	
	2312 Aug 14 14:17	0°♁			2315 Mar 11 01:21	0°♁	
desc. node	2312 Aug 26 18:16	14°♁07'16			2315 Apr 04 05:32	0°♁	
	2312 Sep 09 16:14	0°♁		morning set	2315 Apr 18 08:04	17°♁27'58	
	2312 Oct 07 03:29	0°♁			2315 Apr 28 11:28	0°♁	
evening max el	2312 Oct 18 06:47	11°♁20'17	46°48'31		2315 May 22 19:22	0°♁	
	2312 Nov 08 01:02	0°♁					
greatest brilliancy	2312 Nov 26 01:14	11°♁06'32	-4.7m	superior conj	2315 May 26 01:28	4°♁00'20	0°-22'-43
retrograde	2312 Dec 07 12:41	13°♁33'52		minimum elong	2315 May 26 06:14	4°♁14'59	0°22'30
asc. node	2312 Dec 17 21:40	11°♁21'32		max. Earth dist.	2315 May 27 15:26	5°♁57'07	1.73360 AU
evening set	2312 Dec 21 19:47	9°♁29'10		asc. node	2315 Jun 04 16:56	15°♁52'14	
min. Earth dist.	2312 Dec 27 17:01	6°♁03'50	0.26455 AU		2315 Jun 16 04:50	0°♁	
inferior conj	2312 Dec 28 00:57	5°♁51'46	2°36'28	evening rise	2315 Jul 01 17:18	19°♁03'32	
minimum elong	2312 Dec 27 19:10	6°♁00'34	2°34'39		2315 Jul 10 15:14	0°♁	
morning rise	2313 Jan 02 18:42	2°♁30'19			2315 Aug 04 02:35	0°♁	
	2313 Jan 08 04:18	30°♁			2315 Aug 28 15:48	0°♁	
direct	2313 Jan 17 10:05	28°♁14'16			2315 Sep 22 08:17	0°♁	
	2313 Jan 27 00:16	0°♁		desc. node	2315 Sep 24 06:15	2°♁19'06	
greatest brilliancy	2313 Jan 29 02:16	0°♁48'00	-4.7m		2315 Oct 17 05:49	0°♁	
	2313 Mar 07 20:17	0°♁			2315 Nov 11 11:45	0°♁	
morning max el	2313 Mar 08 17:47	0°♁53'29	46°44'48		2315 Dec 07 11:37	0°♁	
	2313 Apr 05 01:52	0°♁		evening max el	2315 Dec 30 21:16	25°♁16'03	47°16'10
desc. node	2313 Apr 08 11:10	3°♁47'05			2316 Jan 04 14:23	0°♁	
	2313 May 01 09:29	0°♁		asc. node	2316 Jan 15 09:30	10°♁06'59	
	2313 May 26 23:22	0°♁		greatest brilliancy	2316 Feb 06 15:52	25°♁43'52	-4.7m
	2313 Jun 21 04:12	0°♁		retrograde	2316 Feb 19 18:49	28°♁55'46	
	2313 Jul 16 02:25	0°♁		evening set	2316 Mar 08 18:52	22°♁39'21	
asc. node	2313 Jul 30 14:28	17°♁36'22		min. Earth dist.	2316 Mar 11 03:17	21°♁11'31	0.27722 AU
	2313 Aug 09 18:12	0°♁		inferior conj	2316 Mar 11 17:12	20°♁49'39	8°50'37
	2313 Sep 03 03:39	0°♁		minimum elong	2316 Mar 11 18:05	20°♁48'16	8°50'36
morning set	2313 Sep 04 12:34	1°♁41'44		morning rise	2316 Mar 14 17:29	18°♁57'26	
	2313 Sep 27 07:54	0°♁		direct	2316 Apr 01 12:48	12°♁54'13	
max. Earth dist.	2313 Oct 08 13:58	14°♁01'35	1.72058 AU	greatest brilliancy	2316 Apr 12 09:23	15°♁04'14	-4.6m

desc. node	2316 May 05 22:59	0°♃12'44		2318 Nov 23 18:25	0°♁	
	2316 May 05 16:52	0°♃		2318 Dec 18 04:03	0°♁	
morning max el	2316 May 20 18:21	13°♃38'01	46°00'55	2319 Jan 11 20:48	0°♁	
	2316 Jun 05 22:38	0°♁		2319 Feb 06 06:41	0°♃	
	2316 Jul 03 09:38	0°♁		asc. node	2319 Feb 11 21:20	6°♃25'22
	2316 Jul 29 12:32	0°♁		2319 Mar 05 10:06	0°♁	
	2316 Aug 23 20:44	0°♁		evening max el	2319 Mar 12 09:25	7°♁07'03 46°23'52
asc. node	2316 Aug 27 02:21	3°♁52'55		2319 Apr 07 20:59	0°♁	
	2316 Sep 17 15:10	0°♁		greatest brilliancy	2319 Apr 16 13:43	5°♁07'22 -4.5m
	2316 Oct 11 23:22	0°♁		retrograde	2319 May 01 05:56	8°♁58'02
greatest brilliancy	2316 Oct 25 04:18	16°♁26'06	-3.9m	evening set	2319 May 16 18:24	4°♁15'17
	2316 Nov 05 00:50	0°♁		inferior conj	2319 May 22 14:37	0°♁42'54 2°46'23
morning set	2316 Nov 14 12:26	11°♁53'03		minimum elong	2319 May 22 20:28	0°♁33'44 2°44'43
	2316 Nov 28 22:40	0°♁		min. Earth dist.	2319 May 22 14:26	0°♁43'12 0.28699 AU
desc. node	2316 Dec 16 15:52	22°♁16'55		2319 May 23 17:59	30°♁	
	2316 Dec 22 19:03	0°♁		morning rise	2319 May 28 22:48	26°♁54'11
				desc. node	2319 Jun 03 10:42	24°♁19'13
superior conj	2316 Dec 25 01:37	2°♁51'39	0°-20'00	direct	2319 Jun 13 00:25	22°♁29'33
minimum elong	2316 Dec 24 20:22	2°♁35'10	0°19'44	greatest brilliancy	2319 Jun 25 21:50	25°♁24'58 -4.5m
max. Earth dist.	2316 Dec 25 01:21	2°♁50'50	1.71079 AU	2319 Jul 04 13:22	0°♁	
	2317 Jan 15 15:20	0°♁		morning max el	2319 Jul 31 18:32	22°♁11'26 45°43'42
evening rise	2317 Feb 04 11:14	24°♁54'19		2319 Aug 08 17:54	0°♁	
	2317 Feb 08 12:45	0°♁		2319 Sep 05 20:19	0°♁	
	2317 Mar 04 13:00	0°♁		asc. node	2319 Sep 24 14:18	21°♁26'12
	2317 Mar 28 18:19	0°♁		2319 Oct 01 21:36	0°♁	
asc. node	2317 Apr 08 19:15	13°♁33'02		2319 Oct 26 21:26	0°♁	
	2317 Apr 22 07:11	0°♁		2319 Nov 20 06:46	0°♁	
	2317 May 17 06:36	0°♁		2319 Dec 14 08:27	0°♁	
	2317 Jun 11 21:36	0°♁		2320 Jan 07 06:47	0°♁	
	2317 Jul 08 16:04	0°♁		desc. node	2320 Jan 14 03:36	8°♁37'25
desc. node	2317 Jul 29 08:28	21°♁32'59		morning set	2320 Jan 30 20:58	29°♁37'19
evening max el	2317 Aug 03 16:15	26°♁43'50	45°40'52	2320 Jan 31 04:12	0°♁	
	2317 Aug 07 03:29	0°♁		2320 Feb 24 02:14	0°♁	
greatest brilliancy	2317 Sep 10 16:01	24°♁29'56	-4.5m			
retrograde	2317 Sep 21 13:11	26°♁37'55		superior conj	2320 Mar 11 22:49	21°♁05'13 -1°-26'-11
evening set	2317 Oct 08 20:49	21°♁01'42		minimum elong	2320 Mar 11 23:35	21°♁07'38 1°26'12
inferior conj	2317 Oct 12 13:54	18°♁47'30	-7°-46'-2	max. Earth dist.	2320 Mar 15 20:25	25°♁57'23 1.71909 AU
minimum elong	2317 Oct 12 22:38	18°♁34'05	7°44'48	2320 Mar 19 02:13	0°♁	
min. Earth dist.	2317 Oct 13 12:59	18°♁12'04	0.27753 AU	2320 Apr 12 05:24	0°♁	
morning rise	2317 Oct 17 00:00	16°♁07'25		evening rise	2320 Apr 20 11:38	10°♁13'19
direct	2317 Nov 02 15:07	10°♁46'18		asc. node	2320 May 06 07:10	29°♁43'02
greatest brilliancy	2317 Nov 16 21:51	14°♁27'48	-4.6m	2320 May 06 12:41	0°♁	
asc. node	2317 Nov 19 11:50	15°♁48'09		2320 May 31 00:29	0°♁	
	2317 Dec 08 16:36	0°♁		2320 Jun 24 17:26	0°♁	
morning max el	2317 Dec 23 07:21	13°♁59'36	46°53'38	2320 Jul 19 17:14	0°♁	
	2318 Jan 07 08:51	0°♁		2320 Aug 14 03:34	0°♁	
	2318 Feb 02 16:10	0°♁		desc. node	2320 Aug 25 20:19	13°♁32'39
	2318 Feb 27 21:58	0°♁		2320 Sep 09 07:40	0°♁	
desc. node	2318 Mar 11 01:21	13°♁25'52		2320 Oct 06 23:48	0°♁	
	2318 Mar 24 17:32	0°♁		evening max el	2320 Oct 15 21:23	8°♁59'40 46°46'13
	2318 Apr 18 08:55	0°♁		2320 Nov 08 19:26	0°♁	
	2318 May 12 22:54	0°♁		greatest brilliancy	2320 Nov 23 14:41	8°♁38'30 -4.7m
	2318 Jun 06 12:20	0°♁		retrograde	2320 Dec 05 01:18	11°♁04'02
morning set	2318 Jun 26 07:09	24°♁12'08		asc. node	2320 Dec 16 23:36	8°♁10'44
	2318 Jul 01 00:42	0°♁		evening set	2320 Dec 19 07:24	7°♁00'51
asc. node	2318 Jul 02 04:40	1°♁25'44		inferior conj	2320 Dec 25 13:04	3°♁22'31 2°12'37
	2318 Jul 25 11:01	0°♁		minimum elong	2320 Dec 25 08:07	3°♁30'04 2°11'02
max. Earth dist.	2318 Jul 30 08:01	6°♁00'12	1.73388 AU	min. Earth dist.	2320 Dec 25 06:18	3°♁32'49 0.26447 AU
				morning rise	2320 Dec 31 09:01	29°♁58'12
superior conj	2318 Aug 01 18:03	8°♁59'00	1°04'13	2320 Dec 31 07:41	30°♁	
minimum elong	2318 Aug 01 09:18	8°♁32'04	1°03'56	direct	2321 Jan 14 22:52	25°♁45'20
	2318 Aug 18 18:49	0°♁		greatest brilliancy	2321 Jan 26 15:36	28°♁19'51 -4.7m
evening rise	2318 Sep 06 18:57	23°♁30'44		2321 Jan 30 05:19	0°♁	
	2318 Sep 12 00:43	0°♁		morning max el	2321 Mar 06 07:03	28°♁28'35 46°45'56
	2318 Oct 06 05:57	0°♁		2321 Mar 07 19:27	0°♁	
desc. node	2318 Oct 21 18:16	19°♁12'23		2321 Apr 04 18:21	0°♁	
	2318 Oct 30 11:35	0°♁		desc. node	2321 Apr 07 13:20	3°♁08'03

	2321 Apr 30 23:23	0°♃			2323 Dec 07 04:37	0°♁		
	2321 May 26 11:56	0°♄		evening max el	2323 Dec 28 10:27	22°♁50'11	47°16'32	
	2321 Jun 20 15:57	0°♅			2324 Jan 04 15:16	0°♁		
	2321 Jul 15 13:39	0°♆		asc. node	2324 Jan 14 11:34	9°♁02'12		
asc. node	2321 Jul 29 16:34	17°♆09'10		greatest brilliancy	2324 Feb 04 08:32	23°♁24'08	-4.7m	
	2321 Aug 09 05:07	0°♇		retrograde	2324 Feb 17 08:50	26°♁33'50		
morning set	2321 Sep 02 05:50	29°♇33'24		evening set	2324 Mar 06 08:37	20°♁18'46		
	2321 Sep 02 14:27	0°♈		min. Earth dist.	2324 Mar 08 17:05	18°♁51'01	0.27672 AU	
	2321 Sep 26 18:44	0°♉		inferior conj	2324 Mar 09 07:22	18°♁28'35	8°51'30	
max. Earth dist.	2321 Oct 06 02:01	11°♉35'40	1.72112 AU	minimum elong	2324 Mar 09 07:22	18°♁28'36	8°51'30	
				morning rise	2324 Mar 12 06:17	16°♁38'29		
superior conj	2321 Oct 09 06:13	15°♉33'18	1°16'46	direct	2324 Mar 30 01:43	10°♁33'52		
minimum elong	2321 Oct 09 13:55	15°♉57'19	1°16'36	greatest brilliancy	2324 Apr 09 22:56	12°♁44'09	-4.6m	
	2321 Oct 20 19:45	0°♊		desc. node	2324 May 05 00:57	29°♁10'22		
	2321 Nov 13 19:11	0°♋			2324 May 06 00:07	0°♃		
evening rise	2321 Nov 17 09:05	4°♋28'56		morning max el	2324 May 18 07:47	11°♃19'01	46°02'21	
desc. node	2321 Nov 18 06:08	5°♋34'51			2324 Jun 05 16:27	0°♄		
	2321 Dec 07 18:05	0°♌			2324 Jul 02 23:47	0°♅		
	2321 Dec 31 17:25	0°♍			2324 Jul 29 01:02	0°♆		
	2322 Jan 24 18:58	0°♎			2324 Aug 23 08:22	0°♇		
	2322 Feb 18 01:59	0°♏		asc. node	2324 Aug 26 04:27	3°♇24'30		
asc. node	2322 Mar 11 09:21	25°♏53'04			2324 Sep 17 02:20	0°♈		
	2322 Mar 14 19:42	0°♐			2324 Oct 11 10:17	0°♉		
	2322 Apr 09 08:32	0°♑		greatest brilliancy	2324 Oct 29 12:38	22°♉32'52	-3.9m	
	2322 May 06 10:23	0°♒			2324 Nov 04 11:39	0°♊		
evening max el	2322 May 22 03:44	15°♒57'06	45°29'23	morning set	2324 Nov 12 01:52	9°♊30'44		
	2322 Jun 06 20:53	0°♓			2324 Nov 28 09:29	0°♋		
greatest brilliancy	2322 Jun 25 21:50	12°♓26'33	-4.5m	desc. node	2324 Dec 15 17:52	21°♋49'05		
desc. node	2322 Jun 30 22:42	14°♓22'39						
retrograde	2322 Jul 09 18:42	15°♓47'39		superior conj	2324 Dec 22 11:56	0°♌18'57	0°-16'-6	
evening set	2322 Jul 25 20:26	10°♓53'27		minimum elong	2324 Dec 22 07:40	0°♌05'34	0°15'55	
inferior conj	2322 Jul 31 06:34	7°♓36'19	-6°-21'-17	behind sun begin	2324 Dec 22 01:39	29°♌46'36		
minimum elong	2322 Jul 30 20:42	7°♓51'45	6°19'21	behind sun end	2324 Dec 22 13:42	0°♌24'32		
min. Earth dist.	2322 Jul 31 05:31	7°♓37'58	0.29003 AU		2324 Dec 22 05:54	0°♌		
morning rise	2322 Aug 04 20:53	4°♓47'26		max. Earth dist.	2324 Dec 22 07:56	0°♌06'23	1.71094 AU	
	2322 Aug 16 01:16	30°♍♎			2325 Jan 15 02:15	0°♍		
direct	2322 Aug 21 22:25	29°♍19'14		evening rise	2325 Feb 01 21:30	22°♍21'41		
	2322 Aug 27 23:18	0°♎			2325 Feb 07 23:43	0°♎		
greatest brilliancy	2322 Sep 05 00:22	2°♎47'32	-4.5m		2325 Mar 04 00:02	0°♏		
	2322 Oct 10 03:31	0°♐			2325 Mar 28 05:31	0°♐		
morning max el	2322 Oct 10 08:56	0°♐13'18	46°12'09	asc. node	2325 Apr 07 21:17	13°♐04'38		
asc. node	2322 Oct 22 02:07	12°♐11'55			2325 Apr 21 18:44	0°♑		
	2322 Nov 07 08:03	0°♒			2325 May 16 18:47	0°♒		
	2322 Dec 03 02:20	0°♓			2325 Jun 11 11:05	0°♓		
	2322 Dec 27 21:00	0°♈			2325 Jul 08 08:23	0°♈		
	2323 Jan 21 05:17	0°♉		desc. node	2325 Jul 28 10:35	20°♈46'15		
desc. node	2323 Feb 10 15:35	25°♉20'48		evening max el	2325 Aug 01 06:23	24°♈28'24	45°39'25	
	2323 Feb 14 09:28	0°♊			2325 Aug 07 04:37	0°♉		
	2323 Mar 10 12:38	0°♋		greatest brilliancy	2325 Sep 08 02:57	22°♉10'05	-4.5m	
	2323 Apr 03 16:34	0°♌		retrograde	2325 Sep 19 03:25	24°♉20'50		
morning set	2323 Apr 15 22:51	15°♌11'29		evening set	2325 Oct 06 13:24	18°♉39'57		
	2323 Apr 27 22:18	0°♍		inferior conj	2325 Oct 10 04:02	16°♉29'18	-7°-55'-32	
	2323 May 22 06:05	0°♎		minimum elong	2325 Oct 10 12:17	16°♉16'40	7°54'27	
				min. Earth dist.	2325 Oct 11 02:38	15°♉54'39	0.27821 AU	
superior conj	2323 May 23 18:16	1°♎51'20	0°-25'-54	morning rise	2325 Oct 14 10:45	13°♉54'20		
minimum elong	2323 May 23 23:39	2°♎07'55	0°25'39	direct	2325 Oct 31 06:09	8°♉27'06		
max. Earth dist.	2323 May 25 11:04	3°♎56'54	1.73326 AU	greatest brilliancy	2325 Nov 14 14:19	12°♉10'44	-4.6m	
asc. node	2323 Jun 03 18:54	15°♎25'21		asc. node	2325 Nov 18 13:44	14°♉18'49		
	2323 Jun 15 15:31	0°♏			2325 Dec 08 21:41	0°♊		
evening rise	2323 Jun 29 11:57	17°♏00'29		morning max el	2325 Dec 20 22:51	11°♊41'02	46°52'52	
	2323 Jul 10 02:01	0°♐			2326 Jan 07 02:34	0°♋		
	2323 Aug 03 13:34	0°♑			2326 Feb 02 06:38	0°♌		
	2323 Aug 28 03:07	0°♒			2326 Feb 27 10:57	0°♍		
	2323 Sep 21 20:10	0°♓		desc. node	2326 Mar 10 03:28	12°♍54'22		
desc. node	2323 Sep 23 08:25	1°♓49'34			2326 Mar 24 05:38	0°♎		
	2323 Oct 16 18:35	0°♈			2326 Apr 17 20:27	0°♏		
	2323 Nov 11 01:57	0°♉			2326 May 12 10:01	0°♐		

	2326 Jun 05 23:09	0°♁		retrograde	2328 Dec 02 13:22	8°♁34'58	
morning set	2326 Jun 24 00:59	22°♁07'04		asc. node	2328 Dec 16 01:45	4°♁55'56	
	2326 Jun 30 11:20	0°♁		evening set	2328 Dec 16 19:16	4°♁33'05	
asc. node	2326 Jul 01 06:47	0°♁59'36		inferior conj	2328 Dec 23 01:13	0°♁54'14	1°48'27
	2326 Jul 24 21:34	0°♁		minimum elong	2328 Dec 22 21:07	1°♁00'29	1°47'09
max. Earth dist.	2326 Jul 28 06:49	4°♁10'07	1.73413 AU	min. Earth dist.	2328 Dec 22 19:59	1°♁02'12	0.26439 AU
					2328 Dec 24 12:54	30°♁	
superior conj	2326 Jul 30 12:15	6°♁54'42	1°02'06	morning rise	2328 Dec 28 23:06	27°♁27'03	
minimum elong	2326 Jul 30 03:27	6°♁27'34	1°01'49	direct	2329 Jan 12 11:14	23°♁17'12	
	2326 Aug 18 05:24	0°♁		greatest brilliancy	2329 Jan 24 05:24	25°♁52'55	-4.7m
evening rise	2326 Sep 04 12:17	21°♁22'43			2329 Feb 01 02:00	0°♁	
	2326 Sep 11 11:27	0°♁		morning max el	2329 Mar 03 19:25	26°♁02'09	46°47'09
	2326 Oct 05 16:55	0°♁			2329 Mar 07 17:20	0°♁	
desc. node	2326 Oct 20 20:14	18°♁43'59			2329 Apr 04 10:13	0°♁	
	2326 Oct 29 22:52	0°♁		desc. node	2329 Apr 06 15:19	2°♁29'46	
	2326 Nov 23 06:05	0°♁			2329 Apr 30 12:53	0°♁	
	2326 Dec 17 16:16	0°♁			2329 May 26 00:12	0°♁	
	2327 Jan 11 09:55	0°♁			2329 Jun 20 03:30	0°♁	
	2327 Feb 05 21:36	0°♁			2329 Jul 15 00:45	0°♁	
asc. node	2327 Feb 10 23:26	5°♁47'22		asc. node	2329 Jul 28 18:41	16°♁42'16	
	2327 Mar 05 05:41	0°♁			2329 Aug 08 15:57	0°♁	
evening max el	2327 Mar 10 01:28	4°♁53'50	46°26'08	morning set	2329 Aug 30 22:45	27°♁24'15	
	2327 Apr 08 22:22	0°♁			2329 Sep 02 01:10	0°♁	
greatest brilliancy	2327 Apr 14 06:42	2°♁57'08	-4.6m		2329 Sep 26 05:27	0°♁	
retrograde	2327 Apr 28 22:47	6°♁47'03		max. Earth dist.	2329 Oct 03 14:41	9°♁12'03	1.72164 AU
evening set	2327 May 14 12:29	2°♁01'32					
	2327 May 17 22:08	30°♁		superior conj	2329 Oct 06 21:35	13°♁18'03	1°18'11
inferior conj	2327 May 20 06:35	28°♁31'49	3°05'40	minimum elong	2329 Oct 07 04:42	13°♁40'15	1°18'02
minimum elong	2327 May 20 13:02	28°♁21'42	3°03'51		2329 Oct 20 06:33	0°♁	
min. Earth dist.	2327 May 20 06:06	28°♁32'35	0.28679 AU		2329 Nov 13 06:07	0°♁	
morning rise	2327 May 26 13:57	24°♁44'30		evening rise	2329 Nov 14 21:09	2°♁02'08	
desc. node	2327 Jun 02 12:43	21°♁38'45		desc. node	2329 Nov 17 08:06	5°♁06'40	
direct	2327 Jun 10 16:33	20°♁18'56			2329 Dec 07 05:11	0°♁	
greatest brilliancy	2327 Jun 23 11:38	23°♁12'37	-4.5m		2329 Dec 31 04:44	0°♁	
	2327 Jul 05 12:34	0°♁			2330 Jan 24 06:31	0°♁	
morning max el	2327 Jul 29 11:01	20°♁03'22	45°43'28		2330 Feb 17 13:54	0°♁	
	2327 Aug 08 13:10	0°♁		asc. node	2330 Mar 10 11:22	25°♁21'41	
	2327 Sep 05 10:52	0°♁			2330 Mar 14 08:18	0°♁	
asc. node	2327 Sep 23 16:21	20°♁53'58			2330 Apr 08 22:34	0°♁	
	2327 Oct 01 10:18	0°♁			2330 May 06 04:02	0°♁	
	2327 Oct 26 09:17	0°♁		evening max el	2330 May 19 18:32	13°♁43'59	45°30'13
	2327 Nov 19 18:11	0°♁			2330 Jun 07 06:15	0°♁	
	2327 Dec 13 19:38	0°♁		greatest brilliancy	2330 Jun 23 12:00	10°♁15'19	-4.5m
	2328 Jan 06 17:47	0°♁		desc. node	2330 Jun 30 00:49	12°♁38'24	
desc. node	2328 Jan 13 05:46	8°♁09'46		retrograde	2330 Jul 10:16	13°♁38'52	
morning set	2328 Jan 28 07:04	27°♁04'14		evening set	2330 Jul 23 09:53	8°♁48'09	
	2328 Jan 30 15:04	0°♁		inferior conj	2330 Jul 28 22:49	5°♁27'15	-6°-7'-27
	2328 Feb 23 12:59	0°♁		minimum elong	2330 Jul 28 12:56	5°♁42'43	6°05'27
				min. Earth dist.	2330 Jul 28 21:44	5°♁28'57	0.29012 AU
superior conj	2328 Mar 09 11:03	18°♁39'58	-1°-26'-14	morning rise	2330 Aug 02 15:49	2°♁34'15	
minimum elong	2328 Mar 09 10:49	18°♁39'15	1°26'16		2330 Aug 07 12:52	30°♁	
max. Earth dist.	2328 Mar 13 10:43	23°♁38'43	1.71859 AU	direct	2330 Aug 19 14:11	27°♁09'54	
	2328 Mar 18 12:55	0°♁			2330 Sep 01 06:29	0°♁	
	2328 Apr 11 16:07	0°♁		greatest brilliancy	2330 Sep 02 16:15	0°♁37'22	-4.5m
evening rise	2328 Apr 18 02:08	7°♁56'39		morning max el	2330 Oct 07 23:08	27°♁56'25	46°10'42
asc. node	2328 May 05 09:06	29°♁15'50			2330 Oct 10 01:07	0°♁	
	2328 May 05 23:28	0°♁		asc. node	2330 Oct 21 04:04	11°♁28'41	
	2328 May 30 11:27	0°♁			2330 Nov 06 23:39	0°♁	
	2328 Jun 24 04:46	0°♁			2330 Dec 02 15:50	0°♁	
	2328 Jul 19 05:14	0°♁			2330 Dec 27 09:29	0°♁	
	2328 Aug 13 16:46	0°♁		desc. node	2331 Jan 20 17:12	0°♁	
desc. node	2328 Aug 24 22:26	12°♁58'38			2331 Feb 09 17:35	24°♁50'59	
	2328 Sep 08 23:07	0°♁			2331 Feb 13 21:00	0°♁	
	2328 Oct 06 20:31	0°♁			2331 Mar 09 23:54	0°♁	
evening max el	2328 Oct 13 11:26	6°♁38'30	46°43'54		2331 Apr 03 03:36	0°♁	
	2328 Nov 09 19:44	0°♁		morning set	2331 Apr 13 13:37	12°♁54'47	
greatest brilliancy	2328 Nov 21 05:04	6°♁12'23	-4.6m		2331 Apr 27 09:08	0°♁	

superior conj	2331 May 21 11:10	29°♄42'39	0°-29'-1	min. Earth dist.	2333 Oct 08 15:56	13°♌36'28	0.27893 AU
minimum elong	2331 May 21 17:09	0°♀01'05	0°28'45	morning rise	2333 Oct 11 21:28	11°♌39'53	
	2331 May 21 16:48	0°♀		direct	2333 Oct 28 21:32	6°♌06'50	
max. Earth dist.	2331 May 23 05:41	1°♀53'30	1.73292 AU	greatest brilliancy	2333 Nov 12 05:54	9°♌51'12	-4.6m
asc. node	2331 Jun 02 21:01	14°♀58'55		asc. node	2333 Nov 17 15:54	12°♌51'30	
	2331 Jun 15 02:14	0°♄			2333 Dec 09 01:35	0°♌	
evening rise	2331 Jun 27 06:40	14°♄57'35		morning max el	2333 Dec 18 14:26	9°♌21'15	46°51'58
	2331 Jul 09 12:51	0°♃			2334 Jan 06 20:25	0°♌	
	2331 Aug 03 00:40	0°♂			2334 Feb 01 21:24	0°♌	
	2331 Aug 27 14:37	0°♁			2334 Feb 27 00:13	0°♌	
	2331 Sep 21 08:16	0°♍		desc. node	2334 Mar 09 05:28	12°♌21'32	
desc. node	2331 Sep 22 10:19	1°♌18'38			2334 Mar 23 18:00	0°♌	
	2331 Oct 16 07:36	0°♌			2334 Apr 17 08:14	0°♌	
	2331 Nov 10 16:29	0°♌			2334 May 11 21:24	0°♌	
	2331 Dec 06 22:06	0°♌			2334 Jun 05 10:16	0°♌	
evening max el	2331 Dec 25 23:38	20°♌24'04	47°17'01	morning set	2334 Jun 21 18:59	20°♌01'38	
	2332 Jan 04 17:38	0°♌			2334 Jun 29 22:17	0°♌	
asc. node	2332 Jan 13 13:40	7°♌55'24		asc. node	2334 Jun 30 08:53	0°♌32'31	
greatest brilliancy	2332 Feb 02 00:06	21°♌02'30	-4.7m		2334 Jul 24 08:26	0°♌	
retrograde	2332 Feb 14 23:09	24°♌11'28		max. Earth dist.	2334 Jul 26 05:07	2°♌17'33	1.73433 AU
evening set	2332 Mar 03 21:47	17°♌58'08					
inferior conj	2332 Mar 06 21:28	16°♌06'49	8°51'26	superior conj	2334 Jul 28 06:42	4°♌50'12	0°59'55
minimum elong	2332 Mar 06 20:34	16°♌08'14	8°51'26	minimum elong	2334 Jul 27 21:54	4°♌23'05	0°59'37
min. Earth dist.	2332 Mar 06 06:37	16°♌30'05	0.27622 AU		2334 Aug 17 16:17	0°♌	
morning rise	2332 Mar 09 19:30	14°♌18'15		evening rise	2334 Sep 02 05:53	19°♌14'41	
direct	2332 Mar 27 14:42	8°♌12'40			2334 Sep 10 22:29	0°♌	
greatest brilliancy	2332 Apr 07 12:33	10°♌23'34	-4.6m		2334 Oct 05 04:14	0°♌	
desc. node	2332 May 04 02:57	28°♌09'08		desc. node	2334 Oct 19 22:18	18°♌14'45	
	2332 May 06 05:23	0°♌			2334 Oct 29 10:33	0°♌	
morning max el	2332 May 15 22:07	9°♌01'44	46°03'54		2334 Nov 22 18:14	0°♌	
	2332 Jun 05 10:00	0°♌			2334 Dec 17 05:01	0°♌	
	2332 Jul 02 13:55	0°♌			2335 Jan 10 23:38	0°♌	
	2332 Jul 28 13:37	0°♌			2335 Feb 05 13:14	0°♌	
	2332 Aug 22 20:09	0°♌		asc. node	2335 Feb 10 01:26	5°♌07'16	
asc. node	2332 Aug 25 06:28	2°♌55'17			2335 Mar 05 02:24	0°♌	
	2332 Sep 16 13:43	0°♌		evening max el	2335 Mar 07 17:33	2°♌39'18	46°28'37
	2332 Oct 10 21:28	0°♌			2335 Apr 10 11:23	0°♌	
greatest brilliancy	2332 Nov 01 21:48	27°♌26'51	-3.9m	greatest brilliancy	2335 Apr 12 00:42	0°♌47'09	-4.6m
	2332 Nov 03 22:46	0°♌		retrograde	2335 Apr 26 15:24	4°♌34'56	
morning set	2332 Nov 09 15:06	7°♌06'54			2335 May 11 21:24	30°♌	
	2332 Nov 27 20:35	0°♌		evening set	2335 May 12 06:46	29°♌46'47	
desc. node	2332 Dec 14 20:01	21°♌20'49		inferior conj	2335 May 17 22:38	26°♌19'50	3°24'37
				minimum elong	2335 May 18 05:37	26°♌08'50	3°22'41
superior conj	2332 Dec 19 21:56	27°♌44'22	0°-12'-9	min. Earth dist.	2335 May 17 21:55	26°♌20'56	0.28654 AU
minimum elong	2332 Dec 19 18:42	27°♌34'14	0°12'01	morning rise	2335 May 24 04:56	22°♌33'55	
behind sun begin	2332 Dec 19 00:39	26°♌37'26		desc. node	2335 Jun 01 14:54	19°♌01'54	
behind sun end	2332 Dec 20 12:46	28°♌31'02		direct	2335 Jun 08 08:42	18°♌07'33	
max. Earth dist.	2332 Dec 19 16:44	27°♌28'00	1.71104 AU	greatest brilliancy	2335 Jun 21 00:30	20°♌58'08	-4.5m
	2332 Dec 21 17:02	0°♌			2335 Jul 06 06:09	0°♌	
	2333 Jan 14 13:25	0°♌		morning max el	2335 Jul 27 02:59	17°♌53'07	45°43'17
evening rise	2333 Jan 30 07:39	19°♌47'56			2335 Aug 08 08:14	0°♌	
	2333 Feb 07 10:55	0°♌			2335 Sep 05 01:33	0°♌	
	2333 Mar 03 11:19	0°♌		asc. node	2335 Sep 22 18:19	20°♌20'44	
	2333 Mar 27 16:58	0°♌			2335 Sep 30 23:14	0°♌	
asc. node	2333 Apr 06 23:15	12°♌35'14			2335 Oct 25 21:24	0°♌	
	2333 Apr 21 06:33	0°♌			2335 Nov 19 05:54	0°♌	
	2333 May 16 07:17	0°♌			2335 Dec 13 07:09	0°♌	
	2333 Jun 11 00:55	0°♌			2336 Jan 06 05:11	0°♌	
	2333 Jul 08 01:14	0°♌		desc. node	2336 Jan 12 07:48	7°♌40'24	
desc. node	2333 Jul 27 12:39	19°♌57'58		morning set	2336 Jan 25 16:42	24°♌28'13	
evening max el	2333 Jul 29 21:17	22°♌14'19	45°37'55		2336 Jan 30 02:22	0°♌	
	2333 Aug 07 07:29	0°♌			2336 Feb 23 00:13	0°♌	
greatest brilliancy	2333 Sep 05 13:33	19°♌49'13	-4.5m				
retrograde	2333 Sep 16 17:28	22°♌02'37		superior conj	2336 Mar 06 22:41	16°♌11'22	-1°-26'-8
evening set	2333 Oct 04 05:46	16°♌17'28		minimum elong	2336 Mar 06 21:26	16°♌07'29	1°26'09
inferior conj	2333 Oct 07 18:06	14°♌09'59	-8°-4'-4	max. Earth dist.	2336 Mar 10 23:52	21°♌15'04	1.71804 AU
minimum elong	2333 Oct 08 01:47	13°♌58'12	8°03'09		2336 Mar 18 00:04	0°♌	

	2336 Apr 11 03:14	0°♄			2338 Sep 03 10:31	0°♁		
evening rise	2336 Apr 15 16:04	5°♄36'57		morning max el	2338 Oct 05 14:25	25°♁42'01	46°09'18	
asc. node	2336 May 04 11:14	28°♄48'08			2338 Oct 09 22:05	0°♃		
	2336 May 05 10:37	0°♃		asc. node	2338 Oct 20 06:12	10°♃46'08		
	2336 May 29 22:47	0°♁			2338 Nov 06 15:08	0°♂		
	2336 Jun 23 16:29	0°♁			2338 Dec 02 05:18	0°♂		
	2336 Jul 18 17:39	0°♃			2338 Dec 26 21:58	0°♂		
	2336 Aug 13 06:24	0°♂			2339 Jan 20 05:07	0°♂		
desc. node	2336 Aug 24 00:24	12°♂23'04		desc. node	2339 Feb 08 19:36	24°♂21'05		
	2336 Sep 08 15:05	0°♂			2339 Feb 13 08:34	0°♂		
	2336 Oct 06 18:15	0°♂			2339 Mar 09 11:12	0°♂		
evening max el	2336 Oct 11 00:39	4°♂14'43	46°41'31		2339 Apr 02 14:42	0°♂		
	2336 Nov 11 05:56	0°♂		morning set	2339 Apr 11 04:06	10°♂36'47		
greatest brilliancy	2336 Nov 18 19:45	3°♂46'10	-4.6m		2339 Apr 26 20:05	0°♂		
retrograde	2336 Nov 30 00:58	6°♂05'39						
evening set	2336 Dec 14 07:26	2°♂04'26		superior conj	2339 May 19 03:43	27°♂32'25	0°-32'-8	
asc. node	2336 Dec 15 03:47	1°♂36'58		minimum elong	2339 May 19 10:18	27°♂52'41	0°31'51	
	2336 Dec 17 23:11	30°♂		max. Earth dist.	2339 May 20 23:02	29°♂45'48	1.73259 AU	
inferior conj	2336 Dec 20 13:29	28°♂25'38	1°24'16		2339 May 21 03:39	0°♃		
minimum elong	2336 Dec 20 10:17	28°♂30'31	1°23'13	asc. node	2339 Jun 01 23:05	14°♃31'58		
min. Earth dist.	2336 Dec 20 10:08	28°♂30'45	0.26442 AU		2339 Jun 14 13:04	0°♁		
morning rise	2336 Dec 26 13:07	24°♂55'43		evening rise	2339 Jun 25 01:04	12°♁53'31		
direct	2337 Jan 09 23:17	20°♂48'20			2339 Jul 08 23:46	0°♁		
greatest brilliancy	2337 Jan 21 20:24	23°♂26'29	-4.7m		2339 Aug 02 11:49	0°♃		
	2337 Feb 02 09:04	0°♂			2339 Aug 27 02:11	0°♂		
morning max el	2337 Mar 01 07:32	23°♂33'37	46°48'14		2339 Sep 20 20:28	0°♂		
	2337 Mar 07 14:55	0°♂		desc. node	2339 Sep 21 12:25	0°♂48'04		
	2337 Apr 04 02:19	0°♂			2339 Oct 15 20:46	0°♂		
desc. node	2337 Apr 05 17:20	1°♂50'33			2339 Nov 10 07:12	0°♂		
	2337 Apr 30 02:43	0°♂			2339 Dec 06 15:57	0°♂		
	2337 May 25 12:48	0°♂		evening max el	2339 Dec 23 13:59	18°♂01'13	47°17'30	
	2337 Jun 19 15:19	0°♃			2340 Jan 04 21:27	0°♂		
	2337 Jul 14 12:05	0°♁		asc. node	2340 Jan 12 15:38	6°♂46'47		
asc. node	2337 Jul 27 20:37	16°♁14'05		greatest brilliancy	2340 Jan 30 14:45	18°♂40'08	-4.7m	
	2337 Aug 08 03:01	0°♁		retrograde	2340 Feb 12 14:03	21°♂49'34		
morning set	2337 Aug 28 15:49	25°♁14'52		evening set	2340 Mar 01 10:34	15°♂38'30		
	2337 Sep 01 12:08	0°♃		inferior conj	2340 Mar 04 11:36	13°♂45'24	8°50'31	
	2337 Sep 25 16:25	0°♂		minimum elong	2340 Mar 04 09:48	13°♂48'12	8°50'28	
max. Earth dist.	2337 Oct 01 05:04	6°♂53'08	1.72215 AU	min. Earth dist.	2340 Mar 03 19:50	14°♂10'02	0.27572 AU	
				morning rise	2340 Mar 07 09:13	11°♂57'46		
superior conj	2337 Oct 04 13:24	11°♂03'29	1°19'27	direct	2340 Mar 25 04:11	5°♂51'56		
minimum elong	2337 Oct 04 19:56	11°♂23'50	1°19'20	greatest brilliancy	2340 Apr 05 01:28	8°♂02'46	-4.6m	
	2337 Oct 19 17:35	0°♂		desc. node	2340 May 03 05:09	27°♂10'08		
evening rise	2337 Nov 12 09:48	29°♂36'41			2340 May 06 08:40	0°♂		
	2337 Nov 12 17:15	0°♂		morning max el	2340 May 13 13:24	6°♂46'58	46°05'16	
desc. node	2337 Nov 16 10:17	4°♂38'33			2340 Jun 05 03:07	0°♂		
	2337 Dec 06 16:29	0°♂			2340 Jul 02 03:52	0°♃		
	2337 Dec 30 16:14	0°♂			2340 Jul 28 02:06	0°♁		
	2338 Jan 23 18:18	0°♂			2340 Aug 22 07:50	0°♁		
	2338 Feb 17 02:07	0°♂		asc. node	2340 Aug 24 08:30	2°♂26'24		
asc. node	2338 Mar 09 13:20	24°♂49'12			2340 Sep 16 00:58	0°♃		
	2338 Mar 13 21:16	0°♂			2340 Oct 10 08:30	0°♂		
	2338 Apr 08 13:05	0°♃			2340 Nov 03 09:43	0°♂		
	2338 May 05 22:27	0°♁		greatest brilliancy	2340 Nov 04 07:48	1°♂09'06	-3.9m	
evening max el	2338 May 17 09:18	11°♁29'58	45°31'23	morning set	2340 Nov 07 04:34	4°♂44'23		
	2338 Jun 07 19:21	0°♁			2340 Nov 27 07:33	0°♂		
greatest brilliancy	2338 Jun 21 01:25	8°♂02'36	-4.5m	desc. node	2340 Dec 13 22:01	20°♂52'33		
desc. node	2338 Jun 29 02:48	10°♂49'45						
retrograde	2338 Jul 05 02:23	11°♂29'58		superior conj	2340 Dec 17 08:11	25°♂10'58	0°-8'-13	
evening set	2338 Jul 20 23:36	6°♂42'14		minimum elong	2340 Dec 17 06:00	25°♂04'07	0°08'07	
inferior conj	2338 Jul 26 15:10	3°♂17'54	-5°-53'-16	behind sun begin	2340 Dec 16 06:57	23°♂51'36		
minimum elong	2338 Jul 26 05:19	3°♂33'18	5°51'10	behind sun end	2340 Dec 18 05:03	26°♂16'38		
min. Earth dist.	2338 Jul 26 13:52	3°♂19'56	0.29018 AU	max. Earth dist.	2340 Dec 17 02:10	24°♂52'02	1.71115 AU	
morning rise	2338 Jul 31 10:50	0°♂21'05			2340 Dec 21 04:03	0°♂		
	2338 Aug 01 01:28	30°♂			2341 Jan 14 00:27	0°♂		
direct	2338 Aug 17 05:59	25°♁00'16		evening rise	2341 Jan 27 17:59	17°♂15'10		
greatest brilliancy	2338 Aug 31 08:54	28°♁28'06	-4.5m		2341 Feb 06 21:57	0°♂		



	2341 Mar 02 22:25	0°♃		asc. node	2343 Sep 21 20:27	19°♏49'04	
	2341 Mar 27 04:14	0°♄			2343 Sep 30 11:47	0°♎	
asc. node	2341 Apr 06 01:24	12°♄07'02			2343 Oct 25 09:11	0°♌	
	2341 Apr 20 18:11	0°♁			2343 Nov 18 17:18	0°♍	
	2341 May 15 19:38	0°♄			2343 Dec 12 18:19	0°♁	
	2341 Jun 10 14:42	0°♏			2344 Jan 05 16:12	0°♄	
	2341 Jul 07 18:17	0°♎		desc. node	2344 Jan 11 09:46	7°♄12'00	
desc. node	2341 Jul 26 14:37	19°♎09'02		morning set	2344 Jan 23 02:16	21°♄53'10	
evening max el	2341 Jul 27 12:49	20°♎02'10	45°36'28		2344 Jan 29 13:17	0°♁	
	2341 Aug 07 11:49	0°♌			2344 Feb 22 11:04	0°♁	
greatest brilliancy	2341 Sep 03 01:10	17°♌30'26	-4.5m				
retrograde	2341 Sep 14 07:20	19°♌45'24		superior conj	2344 Mar 04 10:15	13°♁43'40	-1°-25'-52
evening set	2341 Oct 01 22:07	13°♌56'41		minimum elong	2344 Mar 04 07:58	13°♁36'32	1°25'52
inferior conj	2341 Oct 05 08:20	11°♌51'58	-8°-11'-45	max. Earth dist.	2344 Mar 08 11:11	18°♁46'38	1.71751 AU
minimum elong	2341 Oct 05 15:23	11°♌41'08	8°11'01		2344 Mar 17 10:53	0°♃	
min. Earth dist.	2341 Oct 06 05:21	11°♌19'39	0.27959 AU		2344 Apr 10 14:01	0°♄	
morning rise	2341 Oct 09 08:23	9°♌26'30		evening rise	2344 Apr 13 05:51	3°♄17'40	
direct	2341 Oct 26 13:05	3°♌48'08		asc. node	2344 May 03 13:17	28°♄21'13	
greatest brilliancy	2341 Nov 09 20:33	7°♌31'35	-4.6m		2344 May 04 21:26	0°♁	
asc. node	2341 Nov 16 17:58	11°♌27'53			2344 May 29 09:45	0°♄	
	2341 Dec 09 03:32	0°♍			2344 Jun 23 03:50	0°♏	
morning max el	2341 Dec 16 05:19	7°♍00'44	46°50'53		2344 Jul 18 05:44	0°♎	
	2342 Jan 06 13:35	0°♁			2344 Aug 12 19:47	0°♌	
	2342 Feb 01 11:44	0°♄		desc. node	2344 Aug 23 02:29	11°♌48'34	
	2342 Feb 26 13:08	0°♁			2344 Sep 08 07:00	0°♍	
desc. node	2342 Mar 08 07:31	11°♁49'44			2344 Oct 06 16:31	0°♁	
	2342 Mar 23 06:03	0°♁		evening max el	2344 Oct 08 13:03	1°♁49'48	46°39'03
	2342 Apr 16 19:42	0°♃			2344 Nov 13 08:38	0°♄	
	2342 May 11 08:28	0°♄		greatest brilliancy	2344 Nov 16 10:11	1°♄20'12	-4.6m
	2342 Jun 04 21:04	0°♁		retrograde	2344 Nov 27 12:24	3°♄37'06	
morning set	2342 Jun 19 13:05	17°♁57'25			2344 Dec 11 01:01	30°♁	
asc. node	2342 Jun 29 10:49	0°♄05'51		evening set	2344 Dec 11 19:41	29°♁35'49	
	2342 Jun 29 08:55	0°♄		asc. node	2344 Dec 14 05:45	28°♁15'18	
	2342 Jul 23 19:01	0°♏		inferior conj	2344 Dec 18 01:39	25°♁57'39	0°59'47
max. Earth dist.	2342 Jul 24 01:52	0°♏21'07	1.73456 AU	minimum elong	2344 Dec 17 23:22	26°♁01'08	0°59'02
				min. Earth dist.	2344 Dec 18 00:20	25°♁59'39	0.26447 AU
superior conj	2342 Jul 26 01:09	2°♏46'38	0°57'40	morning rise	2344 Dec 24 02:51	22°♁25'25	
minimum elong	2342 Jul 25 16:24	2°♏19'40	0°57'20	direct	2345 Jan 07 11:01	18°♁19'50	
	2342 Aug 17 02:55	0°♎		greatest brilliancy	2345 Jan 19 12:11	21°♁01'49	-4.7m
evening rise	2342 Aug 30 23:27	17°♎07'21			2345 Feb 03 07:08	0°♄	
	2342 Sep 10 09:17	0°♌		morning max el	2345 Feb 26 19:49	21°♄06'23	46°49'21
	2342 Oct 04 15:18	0°♍			2345 Mar 07 11:21	0°♁	
desc. node	2342 Oct 19 00:24	17°♍46'32			2345 Apr 03 17:45	0°♁	
	2342 Oct 28 21:57	0°♁		desc. node	2345 Apr 04 19:30	1°♁13'15	
	2342 Nov 22 06:05	0°♄			2345 Apr 29 16:03	0°♃	
	2342 Dec 16 17:29	0°♁			2345 May 25 00:57	0°♄	
	2343 Jan 10 13:08	0°♁			2345 Jun 19 02:45	0°♁	
	2343 Feb 05 04:45	0°♃			2345 Jul 13 23:03	0°♄	
asc. node	2343 Feb 09 03:29	4°♃27'56		asc. node	2345 Jul 26 22:43	15°♄47'29	
	2343 Mar 04 23:27	0°♄			2345 Aug 07 13:44	0°♏	
evening max el	2343 Mar 05 09:13	0°♄24'31	46°31'00	morning set	2345 Aug 26 09:05	23°♏07'15	
greatest brilliancy	2343 Apr 09 19:13	28°♄38'48	-4.6m		2345 Aug 31 22:45	0°♎	
	2343 Apr 12 20:40	0°♁			2345 Sep 25 03:03	0°♌	
retrograde	2343 Apr 24 07:32	2°♁23'53		max. Earth dist.	2345 Sep 28 22:03	4°♌43'19	1.72271 AU
	2343 May 05 05:15	30°♁					
evening set	2343 May 10 01:12	27°♄33'06		superior conj	2345 Oct 02 05:19	8°♌50'15	1°20'35
inferior conj	2343 May 15 14:44	24°♄09'10	3°43'15	minimum elong	2345 Oct 02 11:13	9°♌08'38	1°20'30
minimum elong	2343 May 15 22:15	23°♄57'21	3°41'14		2345 Oct 19 04:20	0°♍	
min. Earth dist.	2343 May 15 14:07	24°♄10'10	0.28627 AU	evening rise	2345 Nov 09 22:25	27°♍11'59	
morning rise	2343 May 21 19:45	20°♄24'43			2345 Nov 12 04:09	0°♁	
desc. node	2343 May 31 16:49	16°♄31'12		desc. node	2345 Nov 15 12:16	4°♁10'34	
direct	2343 Jun 06 00:35	15°♄57'30			2345 Dec 06 03:33	0°♄	
greatest brilliancy	2343 Jun 18 13:26	18°♄44'54	-4.5m		2345 Dec 30 03:30	0°♁	
	2343 Jul 06 18:39	0°♁			2346 Jan 23 05:51	0°♁	
morning max el	2343 Jul 24 18:03	15°♁41'52	45°43'04		2346 Feb 16 14:05	0°♃	
	2343 Aug 08 02:21	0°♄		asc. node	2346 Mar 08 15:29	24°♃18'01	
	2343 Sep 04 15:42	0°♏			2346 Mar 13 10:01	0°♄	

	2346 Apr 08 03:28	0°♁			2348 Nov 02 20:36	0°♁	
	2346 May 05 17:03	0°♁		morning set	2348 Nov 04 18:32	2°♁23'48	
evening max el	2346 May 15 00:37	9°♁18'08	45°32'37		2348 Nov 26 18:27	0°♁	
	2346 Jun 08 12:27	0°♁		desc. node	2348 Dec 13 00:02	20°♁24'30	
greatest brilliancy	2346 Jun 18 14:31	5°♁50'21	-4.5m				
desc. node	2346 Jun 28 04:52	8°♁57'55		superior conj	2348 Dec 14 18:49	22°♁39'06	0°-4'-17
retrograde	2346 Jul 02 18:58	9°♁21'52		minimum elong	2348 Dec 14 17:41	22°♁35'30	0°04'15
evening set	2346 Jul 18 13:25	4°♁36'54		behind sun begin	2348 Dec 13 16:14	21°♁15'27	
inferior conj	2346 Jul 24 07:27	1°♁09'18	-5°-38'-31	behind sun end	2348 Dec 15 19:08	23°♁55'35	
minimum elong	2346 Jul 23 21:42	1°♁24'31	5°36'21	max. Earth dist.	2348 Dec 14 10:50	22°♁13'58	1.71128 AU
min. Earth dist.	2346 Jul 24 05:43	1°♁12'00	0.29022 AU		2348 Dec 20 15:00	0°♁	
	2346 Jul 26 03:58	30°♁♁			2349 Jan 13 11:27	0°♁	
morning rise	2346 Jul 29 05:50	28°♁08'48		evening rise	2349 Jan 25 04:16	14°♁42'08	
direct	2346 Aug 14 22:07	22°♁51'27			2349 Feb 06 09:01	0°♁	
greatest brilliancy	2346 Aug 29 01:26	26°♁19'48	-4.5m		2349 Mar 02 09:34	0°♁	
	2346 Sep 04 20:01	0°♁			2349 Mar 26 15:36	0°♁	
morning max el	2346 Oct 03 06:20	23°♁30'26	46°07'53	asc. node	2349 Apr 05 03:24	11°♁38'05	
	2346 Oct 09 17:59	0°♁			2349 Apr 20 05:56	0°♁	
asc. node	2346 Oct 19 08:15	10°♁04'49			2349 May 15 08:08	0°♁	
	2346 Nov 06 06:05	0°♁			2349 Jun 10 04:42	0°♁	
	2346 Dec 01 18:26	0°♁			2349 Jul 07 11:46	0°♁	
	2346 Dec 26 10:13	0°♁		evening max el	2349 Jul 25 03:49	17°♁48'33	45°35'01
	2347 Jan 19 16:53	0°♁		desc. node	2349 Jul 25 16:45	18°♁19'21	
desc. node	2347 Feb 07 21:44	23°♁52'00			2349 Aug 07 18:17	0°♁	
	2347 Feb 12 19:59	0°♁		greatest brilliancy	2349 Aug 31 13:57	15°♁12'55	-4.5m
	2347 Mar 08 22:20	0°♁		retrograde	2349 Sep 11 20:51	17°♁28'19	
	2347 Apr 02 01:37	0°♁		evening set	2349 Sep 29 14:22	11°♁36'28	
morning set	2347 Apr 08 18:12	8°♁18'04		inferior conj	2349 Oct 02 22:41	9°♁34'16	-8°-18'-41
	2347 Apr 26 06:49	0°♁		minimum elong	2349 Oct 03 05:02	9°♁24'28	8°18'05
				min. Earth dist.	2349 Oct 03 19:09	9°♁02'42	0.28020 AU
superior conj	2347 May 16 20:03	25°♁22'00	0°-35'-13	morning rise	2349 Oct 06 19:28	7°♁13'13	
minimum elong	2347 May 17 03:11	25°♁43'59	0°34'55	direct	2349 Oct 24 04:18	1°♁29'44	
max. Earth dist.	2347 May 18 17:59	27°♁43'32	1.73226 AU	greatest brilliancy	2349 Nov 07 10:58	5°♁11'46	-4.6m
	2347 May 20 14:18	0°♁		asc. node	2349 Nov 15 19:53	10°♁06'39	
asc. node	2347 Jun 01 01:01	14°♁05'10			2349 Dec 09 04:12	0°♁	
	2347 Jun 13 23:44	0°♁		morning max el	2349 Dec 13 19:14	4°♁37'46	46°49'56
evening rise	2347 Jun 22 19:30	10°♁50'01			2350 Jan 06 06:25	0°♁	
	2347 Jul 08 10:34	0°♁			2350 Feb 01 01:55	0°♁	
	2347 Aug 01 22:50	0°♁			2350 Feb 26 02:01	0°♁	
	2347 Aug 26 13:35	0°♁		desc. node	2350 Mar 07 09:37	11°♁17'59	
	2347 Sep 20 08:30	0°♁			2350 Mar 22 18:09	0°♁	
desc. node	2347 Sep 20 14:33	0°♁18'15			2350 Apr 16 07:17	0°♁	
	2347 Oct 15 09:48	0°♁			2350 May 10 19:41	0°♁	
	2347 Nov 09 21:55	0°♁			2350 Jun 04 08:01	0°♁	
	2347 Dec 06 10:06	0°♁		morning set	2350 Jun 17 06:56	15°♁51'55	
evening max el	2347 Dec 21 05:07	15°♁40'31	47°17'40	asc. node	2350 Jun 28 12:56	29°♁39'14	
	2348 Jan 05 03:11	0°♁			2350 Jun 28 19:42	0°♁	
asc. node	2348 Jan 11 17:44	5°♁36'16		max. Earth dist.	2350 Jul 21 21:22	28°♁20'27	1.73475 AU
greatest brilliancy	2348 Jan 28 05:18	16°♁17'02	-4.7m		2350 Jul 23 05:44	0°♁	
retrograde	2348 Feb 10 04:56	19°♁26'28					
evening set	2348 Feb 27 22:37	13°♁18'30		superior conj	2350 Jul 23 19:30	0°♁42'21	0°55'18
min. Earth dist.	2348 Mar 01 08:36	11°♁49'05	0.27519 AU	minimum elong	2350 Jul 23 10:49	0°♁15'39	0°54'59
inferior conj	2348 Mar 02 01:26	11°♁22'51	8°48'34		2350 Aug 16 13:43	0°♁	
minimum elong	2348 Mar 01 22:47	11°♁26'59	8°48'28	evening rise	2350 Aug 28 17:06	14°♁59'50	
morning rise	2348 Mar 04 23:07	9°♁35'22			2350 Sep 09 20:17	0°♁	
direct	2348 Mar 22 17:52	3°♁30'19			2350 Oct 04 02:34	0°♁	
greatest brilliancy	2348 Apr 02 13:20	5°♁40'06	-4.6m	desc. node	2350 Oct 18 02:23	17°♁17'18	
desc. node	2348 May 02 07:06	26°♁11'48			2350 Oct 28 09:33	0°♁	
	2348 May 06 10:28	0°♁			2350 Nov 21 18:07	0°♁	
morning max el	2348 May 11 04:39	4°♁32'04	46°06'40		2350 Dec 16 06:08	0°♁	
	2348 Jun 04 19:51	0°♁			2351 Jan 10 02:50	0°♁	
	2348 Jul 01 17:38	0°♁			2351 Feb 04 20:36	0°♁	
	2348 Jul 27 14:27	0°♁		asc. node	2351 Feb 08 05:36	3°♁48'04	
	2348 Aug 21 19:26	0°♁		evening max el	2351 Mar 02 23:56	28°♁06'44	46°33'12
asc. node	2348 Aug 23 10:35	1°♁57'52			2351 Mar 04 21:27	0°♁	
	2348 Sep 15 12:09	0°♁		greatest brilliancy	2351 Apr 07 13:25	26°♁29'09	-4.6m
	2348 Oct 09 19:28	0°♁			2351 Apr 18 18:01	0°♁	

retrograde	2351 Apr 21 23:17	0°♁12'07		max. Earth dist.	2353 Sep 26 16:02	2°♁35'41	1.72322 AU
	2351 Apr 25 03:25	30°♁♁					
evening set	2351 May 07 19:43	25°♁18'19		superior conj	2353 Sep 29 21:17	6°♁36'17	1°21'36
inferior conj	2351 May 13 06:52	21°♁57'42	4°01'40	minimum elong	2353 Sep 30 02:31	6°♁52'35	1°21'31
minimum elong	2351 May 13 14:51	21°♁45'08	3°59'32		2353 Oct 18 15:23	0°♁	
min. Earth dist.	2351 May 13 06:34	21°♁58'11	0.28604 AU	evening rise	2353 Nov 07 11:12	24°♁46'56	
morning rise	2351 May 19 10:22	18°♁14'56			2353 Nov 11 15:21	0°♁	
desc. node	2351 May 30 18:53	14°♁04'15		desc. node	2353 Nov 14 14:17	3°♁41'47	
direct	2351 Jun 03 16:02	13°♁46'28			2353 Dec 05 14:57	0°♁	
greatest brilliancy	2351 Jun 16 03:32	16°♁31'58	-4.5m		2353 Dec 29 15:09	0°♁	
	2351 Jul 07 04:18	0°♁			2354 Jan 22 17:46	0°♁	
morning max el	2351 Jul 22 08:47	13°♁28'49	45°43'00		2354 Feb 16 02:25	0°♁	
	2351 Aug 07 20:21	0°♁		asc. node	2354 Mar 07 17:30	23°♁45'22	
	2351 Sep 04 05:57	0°♁			2354 Mar 12 23:08	0°♁	
asc. node	2351 Sep 20 22:29	19°♁16'31			2354 Apr 07 18:18	0°♁	
	2351 Sep 30 00:30	0°♁			2354 May 05 12:25	0°♁	
	2351 Oct 24 21:10	0°♁		evening max el	2354 May 12 16:48	7°♁07'50	45°33'56
	2351 Nov 18 04:55	0°♁			2354 Jun 09 12:05	0°♁	
	2351 Dec 12 05:43	0°♁		greatest brilliancy	2354 Jun 16 04:16	3°♁38'30	-4.5m
	2352 Jan 05 03:28	0°♁		desc. node	2354 Jun 27 06:58	7°♁01'31	
desc. node	2352 Jan 10 11:56	6°♁43'31		retrograde	2354 Jun 30 11:52	7°♁13'19	
morning set	2352 Jan 20 12:07	19°♁18'13		evening set	2354 Jul 16 03:35	2°♁31'03	
	2352 Jan 29 00:26	0°♁			2354 Jul 20 09:25	30°♁♁	
	2352 Feb 21 22:07	0°♁		inferior conj	2354 Jul 21 23:53	29°♁00'11	-5°-23'-16
				minimum elong	2354 Jul 21 14:18	29°♁15'08	5°21'05
superior conj	2352 Mar 01 22:07	11°♁16'13	-1°-25'-25	min. Earth dist.	2354 Jul 21 21:26	29°♁04'00	0.29026 AU
minimum elong	2352 Mar 01 18:48	11°♁05'52	1°25'24	morning rise	2354 Jul 27 00:55	25°♁56'06	
max. Earth dist.	2352 Mar 05 20:54	16°♁12'39	1.71697 AU	direct	2354 Aug 12 15:00	20°♁42'17	
	2352 Mar 16 21:52	0°♁		greatest brilliancy	2354 Aug 26 17:43	24°♁10'34	-4.5m
	2352 Apr 10 01:00	0°♁			2354 Sep 05 20:17	0°♁	
evening rise	2352 Apr 10 19:47	0°♁58'10		morning max el	2354 Sep 30 22:51	21°♁19'30	46°06'24
asc. node	2352 May 02 15:15	27°♁53'19			2354 Oct 09 13:40	0°♁	
	2352 May 04 08:29	0°♁		asc. node	2354 Oct 18 10:14	9°♁22'42	
	2352 May 28 21:02	0°♁			2354 Nov 05 21:11	0°♁	
	2352 Jun 22 15:32	0°♁			2354 Dec 01 07:47	0°♁	
	2352 Jul 17 18:11	0°♁			2354 Dec 25 22:43	0°♁	
	2352 Aug 12 09:36	0°♁			2355 Jan 19 04:53	0°♁	
desc. node	2352 Aug 22 04:36	11°♁13'01		desc. node	2355 Feb 06 23:45	23°♁21'43	
	2352 Sep 07 23:30	0°♁			2355 Feb 12 07:40	0°♁	
evening max el	2352 Oct 06 01:16	29°♁23'51	46°36'39		2355 Mar 08 09:46	0°♁	
	2352 Oct 06 16:04	0°♁			2355 Apr 01 12:49	0°♁	
greatest brilliancy	2352 Nov 13 23:39	28°♁52'26	-4.6m	morning set	2355 Apr 06 08:19	5°♁58'23	
	2352 Nov 17 07:19	0°♁			2355 Apr 25 17:50	0°♁	
retrograde	2352 Nov 25 00:11	1°♁08'05					
	2352 Dec 02 11:38	30°♁♁		superior conj	2355 May 14 12:30	23°♁11'05	0°-38'-15
evening set	2352 Dec 09 08:11	27°♁06'00		minimum elong	2355 May 14 20:10	23°♁34'41	0°37'55
asc. node	2352 Dec 13 07:54	24°♁50'19		max. Earth dist.	2355 May 16 14:50	25°♁46'12	1.73188 AU
inferior conj	2352 Dec 15 13:50	23°♁28'48	0°35'05		2355 May 20 01:13	0°♁	
minimum elong	2352 Dec 15 12:29	23°♁30'52	0°34'40	asc. node	2355 May 31 03:12	13°♁38'22	
min. Earth dist.	2352 Dec 15 14:20	23°♁28'02	0.26458 AU		2355 Jun 13 10:39	0°♁	
morning rise	2352 Dec 21 16:28	19°♁54'47		evening rise	2355 Jun 20 14:10	8°♁46'32	
direct	2353 Jan 04 23:04	15°♁50'17			2355 Jul 07 21:35	0°♁	
greatest brilliancy	2353 Jan 17 04:18	18°♁36'41	-4.7m		2355 Aug 01 10:07	0°♁	
	2353 Feb 03 23:58	0°♁			2355 Aug 26 01:18	0°♁	
morning max el	2353 Feb 24 09:08	18°♁40'50	46°50'39	desc. node	2355 Sep 19 16:28	29°♁46'41	
	2353 Mar 07 07:27	0°♁			2355 Sep 19 20:54	0°♁	
	2353 Apr 03 09:14	0°♁			2355 Oct 14 23:15	0°♁	
desc. node	2353 Apr 03 21:28	0°♁34'56			2355 Nov 09 13:08	0°♁	
	2353 Apr 29 05:29	0°♁			2355 Dec 06 05:02	0°♁	
	2353 May 24 13:17	0°♁		evening max el	2355 Dec 18 20:37	13°♁19'53	47°17'44
	2353 Jun 18 14:24	0°♁			2356 Jan 05 11:35	0°♁	
	2353 Jul 13 10:18	0°♁		asc. node	2356 Jan 10 19:49	4°♁22'47	
asc. node	2353 Jul 26 00:50	15°♁19'59		greatest brilliancy	2356 Jan 25 20:27	13°♁53'48	-4.7m
	2353 Aug 07 00:46	0°♁		retrograde	2356 Feb 07 19:37	17°♁02'03	
morning set	2353 Aug 24 02:26	20°♁58'54		evening set	2356 Feb 25 10:13	10°♁58'04	
	2353 Aug 31 09:41	0°♁		min. Earth dist.	2356 Feb 27 21:21	9°♁26'56	0.27466 AU
	2353 Sep 24 14:00	0°♁		inferior conj	2356 Feb 28 15:11	8°♁59'08	8°45'38

minimum elong	2356 Feb 28 11:41	9° $\Upsilon$ 04'36	8°45'28		2358 Jul 22 16:30	0° $\Omega$	
morning rise	2356 Mar 02 13:22	7° $\Upsilon$ 11'01			2358 Aug 16 00:32	0° $\mathbb{M}$	
direct	2356 Mar 20 07:47	1° $\Upsilon$ 07'41		evening rise	2358 Aug 26 11:05	12° $\mathbb{M}$ 53'32	
greatest brilliancy	2356 Mar 31 00:51	3° $\Upsilon$ 15'48	-4.6m		2358 Sep 09 07:14	0° $\Omega$	
desc. node	2356 May 01 09:09	25° $\Upsilon$ 14'00			2358 Oct 03 13:47	0° $\mathbb{M}$	
	2356 May 06 11:21	0° $\Upsilon$		desc. node	2358 Oct 17 04:28	16° $\mathbb{M}$ 48'32	
morning max el	2356 May 08 19:17	2° $\Upsilon$ 14'43	46°08'10		2358 Oct 27 21:09	0° $\mathcal{A}$	
	2356 Jun 04 12:31	0° $\mathcal{B}$			2358 Nov 21 06:12	0° $\mathcal{C}$	
	2356 Jul 01 07:28	0° $\mathbb{I}$			2358 Dec 15 18:55	0° $\approx$	
	2356 Jul 27 02:55	0° $\mathcal{E}$			2359 Jan 09 16:46	0° $\Upsilon$	
	2356 Aug 21 07:10	0° $\Omega$			2359 Feb 04 12:53	0° $\Upsilon$	
asc. node	2356 Aug 22 12:37	1° $\Omega$ 28'46		asc. node	2359 Feb 07 07:35	3° $\Upsilon$ 06'57	
	2356 Sep 14 23:28	0° $\mathbb{M}$		evening max el	2359 Feb 28 13:33	25° $\Upsilon$ 45'35	46°35'32
	2356 Oct 09 06:37	0° $\Omega$			2359 Mar 04 20:33	0° $\mathcal{B}$	
morning set	2356 Nov 02 08:27	0° $\mathbb{M}$ 02'20		greatest brilliancy	2359 Apr 05 06:36	24° $\mathcal{B}$ 17'23	-4.6m
	2356 Nov 02 07:43	0° $\mathbb{M}$		retrograde	2359 Apr 19 14:56	27° $\mathcal{B}$ 59'33	
	2356 Nov 26 05:35	0° $\mathcal{A}$		evening set	2359 May 05 14:03	23° $\mathcal{B}$ 02'16	
max. Earth dist.	2356 Dec 11 16:01	19° $\mathcal{A}$ 24'14	1.71143 AU	inferior conj	2359 May 10 22:46	19° $\mathcal{B}$ 45'22	4°19'45
				minimum elong	2359 May 11 07:10	19° $\mathcal{B}$ 32'06	4°17'34
superior conj	2356 Dec 12 05:23	20° $\mathcal{A}$ 06'16	0°00'-18	min. Earth dist.	2359 May 10 22:51	19° $\mathcal{B}$ 45'14	0.28581 AU
minimum elong	2356 Dec 12 05:16	20° $\mathcal{A}$ 05'56	0°00'20	morning rise	2359 May 17 00:36	16° $\mathcal{B}$ 04'40	
behind sun begin	2356 Dec 11 03:17	18° $\mathcal{A}$ 44'13		desc. node	2359 May 29 21:04	11° $\mathcal{B}$ 41'10	
behind sun end	2356 Dec 13 07:16	21° $\mathcal{A}$ 27'40		direct	2359 Jun 01 06:53	11° $\mathcal{B}$ 34'21	
desc. node	2356 Dec 12 02:13	19° $\mathcal{A}$ 56'19		greatest brilliancy	2359 Jun 13 18:21	14° $\mathcal{B}$ 19'20	-4.5m
	2356 Dec 20 02:10	0° $\mathcal{C}$			2359 Jul 07 11:26	0° $\mathbb{I}$	
	2357 Jan 12 22:39	0° $\approx$		morning max el	2359 Jul 19 23:43	11° $\mathbb{I}$ 16'05	45°43'11
evening rise	2357 Jan 22 14:16	12° $\approx$ 07'33			2359 Aug 07 13:54	0° $\mathcal{E}$	
	2357 Feb 05 20:16	0° $\Upsilon$			2359 Sep 03 19:58	0° $\Omega$	
	2357 Mar 01 20:57	0° $\Upsilon$		asc. node	2359 Sep 20 00:29	18° $\Omega$ 44'19	
	2357 Mar 26 03:12	0° $\mathcal{B}$			2359 Sep 29 13:01	0° $\mathbb{M}$	
asc. node	2357 Apr 04 05:24	11° $\mathcal{B}$ 08'28			2359 Oct 24 08:57	0° $\Omega$	
	2357 Apr 19 17:56	0° $\mathbb{I}$			2359 Nov 17 16:20	0° $\mathbb{M}$	
	2357 May 14 20:53	0° $\mathcal{E}$			2359 Dec 11 16:57	0° $\mathcal{A}$	
	2357 Jun 09 18:58	0° $\Omega$			2360 Jan 04 14:35	0° $\mathcal{C}$	
	2357 Jul 07 05:44	0° $\mathbb{M}$		desc. node	2360 Jan 09 13:57	6° $\mathcal{C}$ 14'56	
evening max el	2357 Jul 22 18:01	15° $\mathbb{M}$ 33'01	45°33'43	morning set	2360 Jan 17 21:43	16° $\mathcal{C}$ 42'40	
desc. node	2357 Jul 24 18:49	17° $\mathbb{M}$ 28'33			2360 Jan 28 11:29	0° $\approx$	
	2357 Aug 08 03:10	0° $\Omega$			2360 Feb 21 09:07	0° $\Upsilon$	
greatest brilliancy	2357 Aug 29 03:06	12° $\Omega$ 56'15	-4.5m				
retrograde	2357 Sep 09 10:17	15° $\Omega$ 12'07		superior conj	2360 Feb 28 09:22	8° $\Upsilon$ 46'56	-1°-24'-47
evening set	2357 Sep 27 06:34	9° $\Omega$ 17'25		minimum elong	2360 Feb 28 05:03	8° $\Upsilon$ 33'25	1°24'46
inferior conj	2357 Sep 30 13:18	7° $\Omega$ 17'24	-8°-24'-36	max. Earth dist.	2360 Mar 03 03:20	13° $\Upsilon$ 28'24	1.71648 AU
minimum elong	2357 Sep 30 18:57	7° $\Omega$ 08'40	8°24'08		2360 Mar 16 08:49	0° $\Upsilon$	
min. Earth dist.	2357 Oct 01 09:25	6° $\Omega$ 46'18	0.28085 AU	evening rise	2360 Apr 08 09:04	28° $\Upsilon$ 36'49	
morning rise	2357 Oct 04 07:05	5° $\Omega$ 00'26			2360 Apr 09 11:55	0° $\mathcal{B}$	
	2357 Oct 15 11:56	30° $\mathbb{R}$ $\mathbb{M}$		asc. node	2360 May 01 17:24	27° $\mathcal{B}$ 26'09	
direct	2357 Oct 21 19:15	29° $\mathbb{M}$ 11'58			2360 May 03 19:28	0° $\mathbb{I}$	
	2357 Oct 28 06:18	0° $\Omega$			2360 May 28 08:14	0° $\mathcal{E}$	
greatest brilliancy	2357 Nov 05 02:31	2° $\Omega$ 53'39	-4.6m		2360 Jun 22 03:10	0° $\Omega$	
asc. node	2357 Nov 14 22:05	8° $\Omega$ 48'21			2360 Jul 17 06:36	0° $\mathbb{M}$	
	2357 Dec 09 03:52	0° $\mathbb{M}$			2360 Aug 11 23:23	0° $\Omega$	
morning max el	2357 Dec 11 08:32	2° $\mathbb{M}$ 12'51	46°48'46	desc. node	2360 Aug 21 06:33	10° $\Omega$ 37'16	
	2358 Jan 05 23:07	0° $\mathcal{A}$			2360 Sep 07 16:04	0° $\mathbb{M}$	
	2358 Jan 31 16:08	0° $\mathcal{C}$		evening max el	2360 Oct 03 14:07	27° $\mathbb{M}$ 00'42	46°34'28
	2358 Feb 25 14:57	0° $\approx$			2360 Oct 06 16:19	0° $\mathcal{A}$	
desc. node	2358 Mar 06 11:37	10° $\approx$ 45'42		greatest brilliancy	2360 Nov 11 12:11	26° $\mathcal{A}$ 25'14	-4.6m
	2358 Mar 22 06:19	0° $\Upsilon$		retrograde	2360 Nov 22 12:39	28° $\mathcal{A}$ 40'48	
	2358 Apr 15 18:55	0° $\Upsilon$		evening set	2360 Dec 06 21:06	24° $\mathcal{A}$ 37'28	
	2358 May 10 06:58	0° $\mathcal{B}$		asc. node	2360 Dec 12 09:56	21° $\mathcal{A}$ 25'58	
	2358 Jun 03 19:03	0° $\mathbb{I}$		inferior conj	2360 Dec 13 02:08	21° $\mathcal{A}$ 01'23	0°10'33
morning set	2358 Jun 15 00:43	13° $\mathbb{I}$ 45'54		minimum elong	2360 Dec 13 01:44	21° $\mathcal{A}$ 02'00	0°10'26
asc. node	2358 Jun 27 15:02	29° $\mathbb{I}$ 12'23		transit middle	2360 Dec 13 01:44	21° $\mathcal{A}$ 02'00	0°10'26
	2358 Jun 28 06:33	0° $\mathcal{E}$		transit begin	2360 Dec 12 22:32	21° $\mathcal{A}$ 06'51	
max. Earth dist.	2358 Jul 19 16:01	26° $\mathcal{E}$ 17'01	1.73491 AU	transit end	2360 Dec 13 04:55	20° $\mathcal{A}$ 57'09	
				min. Earth dist.	2360 Dec 13 04:02	20° $\mathcal{A}$ 58'31	0.26476 AU
superior conj	2358 Jul 21 14:01	28° $\mathcal{E}$ 38'30	0°52'53	morning rise	2360 Dec 19 06:04	17° $\mathcal{A}$ 26'04	
minimum elong	2358 Jul 21 05:28	28° $\mathcal{E}$ 12'12	0°52'34	direct	2361 Jan 02 11:50	13° $\mathcal{A}$ 22'15	

greatest brilliancy	2361 Jan 14 19:48	16°♁12'14	-4.7m			2363 Jul 31 21:06	0°♎	
	2361 Feb 04 12:08	0°♁				2363 Aug 25 12:45	0°♎	
morning max el	2361 Feb 21 23:24	16°♁18'25	46°51'32	desc. node		2363 Sep 18 18:34	29°♎16'31	
	2361 Mar 07 02:44	0°♁				2363 Sep 19 09:03	0°♎	
desc. node	2361 Apr 02 23:31	29°♁57'36				2363 Oct 14 12:29	0°♁	
	2361 Apr 03 00:21	0°♁				2363 Nov 09 04:13	0°♁	
	2361 Apr 28 18:43	0°♁				2363 Dec 06 00:03	0°♁	
	2361 May 24 01:25	0°♁		evening max el		2363 Dec 16 11:56	10°♁59'51	47°17'47
	2361 Jun 18 01:52	0°♁				2364 Jan 05 22:14	0°♁	
asc. node	2361 Jul 12 21:21	0°♁		asc. node		2364 Jan 09 21:48	3°♁08'16	
	2361 Jul 25 02:46	14°♁52'37		greatest brilliancy		2364 Jan 23 12:40	11°♁33'21	-4.7m
	2361 Aug 06 11:34	0°♁		retrograde		2364 Feb 05 10:01	14°♁39'04	
morning set	2361 Aug 21 19:37	18°♁50'51		evening set		2364 Feb 22 21:35	8°♁39'58	
	2361 Aug 30 20:24	0°♁		min. Earth dist.		2364 Feb 25 10:24	7°♁06'13	0.27407 AU
	2361 Sep 24 00:44	0°♁		inferior conj		2364 Feb 26 05:02	6°♁37'09	8°41'52
max. Earth dist.	2361 Sep 24 08:56	0°♁25'31	1.72369 AU	minimum elong		2364 Feb 26 00:41	6°♁43'56	8°41'36
				morning rise		2364 Feb 29 04:03	4°♁47'45	
superior conj	2361 Sep 27 13:20	4°♁23'21	1°22'28			2364 Mar 10 04:05	30°♁	
minimum elong	2361 Sep 27 17:52	4°♁37'29	1°22'25	direct		2364 Mar 17 21:32	28°♁46'59	
	2361 Oct 18 02:10	0°♁				2364 Mar 25 21:18	0°♁	
evening rise	2361 Nov 05 00:14	22°♁23'37		greatest brilliancy		2364 Mar 28 12:31	0°♁53'13	-4.6m
	2361 Nov 11 02:15	0°♁		desc. node		2364 Apr 30 11:19	24°♁19'17	
desc. node	2361 Nov 13 16:26	3°♁14'23				2364 May 06 10:29	0°♁	
	2361 Dec 05 02:01	0°♁		morning max el		2364 May 06 08:54	29°♁56'11	46°09'28
	2361 Dec 29 02:26	0°♁				2364 Jun 04 04:27	0°♁	
	2362 Jan 22 05:20	0°♁				2364 Jun 30 20:50	0°♁	
	2362 Feb 15 14:28	0°♁				2364 Jul 26 15:02	0°♁	
asc. node	2362 Mar 06 19:29	23°♁13'20				2364 Aug 20 18:34	0°♁	
	2362 Mar 12 12:04	0°♁		asc. node		2364 Aug 21 14:39	1°♁00'32	
	2362 Apr 07 09:06	0°♁				2364 Sep 14 10:29	0°♁	
	2362 May 05 08:12	0°♁				2364 Oct 08 17:27	0°♁	
evening max el	2362 May 10 09:23	4°♁58'53	45°35'15	morning set		2364 Oct 30 22:12	27°♁41'20	
	2362 Jun 10 21:07	0°♁				2364 Nov 01 18:31	0°♁	
greatest brilliancy	2362 Jun 13 19:14	1°♁28'22	-4.5m			2364 Nov 25 16:25	0°♁	
desc. node	2362 Jun 26 08:57	5°♁00'43		max. Earth dist.		2364 Dec 08 19:13	16°♁29'21	1.71161 AU
retrograde	2362 Jun 28 04:33	5°♁04'33						
evening set	2362 Jul 13 17:42	0°♁25'12		superior conj		2364 Dec 09 15:58	17°♁34'33	0°03'39
	2362 Jul 14 11:33	30°♁		minimum elong		2364 Dec 09 16:54	17°♁37'30	0°03'36
inferior conj	2362 Jul 19 16:03	26°♁51'03	-5°-7'-30	behind sun begin		2364 Dec 08 15:22	16°♁17'15	
minimum elong	2362 Jul 19 06:41	27°♁05'40	5°05'19	behind sun end		2364 Dec 10 18:25	18°♁57'45	
min. Earth dist.	2362 Jul 19 12:52	26°♁56'02	0.29025 AU	desc. node		2364 Dec 11 04:10	19°♁28'22	
morning rise	2362 Jul 24 19:42	23°♁43'21				2364 Dec 19 13:03	0°♁	
direct	2362 Aug 10 07:48	18°♁33'22				2365 Jan 12 09:33	0°♁	
greatest brilliancy	2362 Aug 24 08:34	21°♁59'59	-4.5m	evening rise		2365 Jan 20 00:19	9°♁34'06	
	2362 Sep 06 13:53	0°♁				2365 Feb 05 07:12	0°♁	
morning max el	2362 Sep 28 14:50	19°♁08'14	46°04'55			2365 Mar 01 07:58	0°♁	
	2362 Oct 09 08:30	0°♁				2365 Mar 25 14:24	0°♁	
asc. node	2362 Oct 17 12:23	8°♁42'23		asc. node		2365 Apr 03 07:34	10°♁40'33	
	2362 Nov 05 11:47	0°♁				2365 Apr 19 05:32	0°♁	
	2362 Nov 30 20:42	0°♁				2365 May 14 09:18	0°♁	
	2362 Dec 25 10:47	0°♁				2365 Jun 09 09:04	0°♁	
	2363 Jan 18 16:27	0°♁				2365 Jul 06 23:51	0°♁	
desc. node	2363 Feb 06 01:45	22°♁52'45		evening max el		2365 Jul 20 07:33	13°♁16'30	45°32'22
	2363 Feb 11 18:54	0°♁		desc. node		2365 Jul 23 20:48	16°♁37'10	
	2363 Mar 07 20:45	0°♁				2365 Aug 08 14:55	0°♁	
	2363 Mar 31 23:36	0°♁		greatest brilliancy		2365 Aug 26 15:51	10°♁39'34	-4.5m
morning set	2363 Apr 03 22:22	3°♁39'37		retrograde		2365 Sep 06 23:43	12°♁56'37	
	2363 Apr 25 04:30	0°♁		evening set		2365 Sep 24 22:20	6°♁59'19	
				inferior conj		2365 Sep 28 03:52	5°♁01'06	-8°-29'-34
superior conj	2363 May 12 04:36	20°♁59'58	0°-41'-14	minimum elong		2365 Sep 28 08:44	4°♁53'33	8°29'14
minimum elong	2363 May 12 12:45	21°♁25'05	0°40'55	min. Earth dist.		2365 Sep 28 23:43	4°♁30'23	0.28149 AU
max. Earth dist.	2363 May 14 12:02	23°♁50'53	1.73152 AU	morning rise		2365 Oct 01 18:53	2°♁48'04	
	2363 May 19 11:50	0°♁				2365 Oct 06 22:28	30°♁	
asc. node	2363 May 30 05:14	13°♁12'03		direct		2365 Oct 19 09:49	26°♁54'35	
	2363 Jun 12 21:16	0°♁				2365 Nov 01 10:53	0°♁	
evening rise	2363 Jun 18 08:18	6°♁42'16		greatest brilliancy		2365 Nov 02 18:55	0°♁37'24	-4.6m
	2363 Jul 07 08:19	0°♁		asc. node		2365 Nov 14 00:06	7°♁32'39	

morning max el	2365 Dec 08 21:55	29°♁48'53	46°47'42		2368 Aug 11 13:16	0°♁	
	2365 Dec 09 02:17	0°♁		desc. node	2368 Aug 20 08:39	10°♁01'37	
	2366 Jan 05 15:15	0°♁			2368 Sep 07 09:01	0°♁	
	2366 Jan 31 05:57	0°♁		evening max el	2368 Oct 01 03:51	24°♁39'29	46°32'00
	2366 Feb 25 03:33	0°♁			2368 Oct 06 18:01	0°♁	
desc. node	2366 Mar 05 13:39	10°♁14'23		greatest brilliancy	2368 Nov 09 00:20	23°♁56'52	-4.6m
	2366 Mar 21 18:10	0°♁		retrograde	2368 Nov 20 01:15	26°♁12'15	
	2366 Apr 15 06:15	0°♁		evening set	2368 Dec 04 10:03	22°♁07'40	
	2366 May 09 17:56	0°♁		inferior conj	2368 Dec 10 14:13	18°♁32'41	0°-14'-5
	2366 Jun 03 05:45	0°♁		minimum elong	2368 Dec 10 14:45	18°♁31'52	0°13'56
morning set	2366 Jun 12 18:42	11°♁41'25		transit middle	2368 Dec 10 14:45	18°♁31'52	0°13'56
asc. node	2366 Jun 26 16:58	28°♁45'58		transit begin	2368 Dec 10 12:29	18°♁35'17	
	2366 Jun 27 17:07	0°♁		transit end	2368 Dec 10 17:01	18°♁28'26	
max. Earth dist.	2366 Jul 17 11:59	24°♁18'27	1.73513 AU	min. Earth dist.	2368 Dec 10 17:19	18°♁27'58	0.26495 AU
				asc. node	2368 Dec 11 11:54	17°♁59'50	
superior conj	2366 Jul 19 08:37	26°♁35'39	0°50'25	morning rise	2368 Dec 16 19:12	14°♁56'21	
minimum elong	2366 Jul 19 00:14	26°♁09'54	0°50'05	direct	2368 Dec 31 00:51	10°♁53'10	
	2366 Jul 22 03:03	0°♁		greatest brilliancy	2369 Jan 12 10:16	13°♁45'31	-4.7m
	2366 Aug 15 11:10	0°♁			2369 Feb 04 21:29	0°♁	
evening rise	2366 Aug 24 05:06	10°♁47'55		morning max el	2369 Feb 19 13:43	13°♁55'30	46°52'26
	2366 Sep 08 18:05	0°♁			2369 Mar 06 21:41	0°♁	
	2366 Oct 03 00:54	0°♁		desc. node	2369 Apr 02 01:40	29°♁20'32	
desc. node	2366 Oct 16 06:34	16°♁20'09			2369 Apr 02 15:23	0°♁	
	2366 Oct 27 08:39	0°♁			2369 Apr 28 07:56	0°♁	
	2366 Nov 20 18:12	0°♁			2369 May 23 13:36	0°♁	
	2366 Dec 15 07:39	0°♁			2369 Jun 17 13:23	0°♁	
	2367 Jan 09 06:42	0°♁			2369 Jul 12 08:27	0°♁	
	2367 Feb 04 05:17	0°♁		asc. node	2369 Jul 24 04:53	14°♁25'38	
asc. node	2367 Feb 06 09:38	2°♁26'01			2369 Aug 05 22:27	0°♁	
evening max el	2367 Feb 26 03:25	23°♁25'33	46°37'59	morning set	2369 Aug 19 13:18	16°♁44'12	
	2367 Mar 04 20:29	0°♁			2369 Aug 30 07:11	0°♁	
greatest brilliancy	2367 Apr 02 23:07	22°♁05'24	-4.6m	max. Earth dist.	2369 Sep 22 01:28	28°♁14'00	1.72420 AU
retrograde	2367 Apr 17 07:07	25°♁48'03			2369 Sep 23 11:33	0°♁	
evening set	2367 May 03 08:34	20°♁46'54					
inferior conj	2367 May 08 14:47	17°♁33'55	4°37'23	superior conj	2369 Sep 25 05:48	2°♁11'28	1°23'12
minimum elong	2367 May 08 23:35	17°♁20'04	4°35'10	minimum elong	2369 Sep 25 09:39	2°♁23'25	1°23'11
min. Earth dist.	2367 May 08 14:59	17°♁33'36	0.28555 AU		2369 Oct 17 13:06	0°♁	
morning rise	2367 May 14 14:50	13°♁55'49		evening rise	2369 Nov 02 13:24	20°♁00'06	
desc. node	2367 May 28 22:57	9°♁24'11			2369 Nov 10 13:23	0°♁	
direct	2367 May 29 21:55	9°♁23'07		desc. node	2369 Nov 12 18:25	2°♁45'42	
greatest brilliancy	2367 Jun 11 09:34	12°♁08'14	-4.5m		2369 Dec 04 13:23	0°♁	
	2367 Jul 07 15:59	0°♁			2369 Dec 28 14:02	0°♁	
morning max el	2367 Jul 17 15:26	9°♁06'02	45°43'19		2370 Jan 21 17:14	0°♁	
	2367 Aug 07 06:49	0°♁			2370 Feb 15 02:50	0°♁	
	2367 Sep 03 09:42	0°♁		asc. node	2370 Mar 05 21:38	22°♁40'48	
asc. node	2367 Sep 19 02:37	18°♁12'57			2370 Mar 12 01:21	0°♁	
	2367 Sep 29 01:25	0°♁			2370 Apr 07 00:21	0°♁	
	2367 Oct 23 20:43	0°♁			2370 May 05 04:53	0°♁	
	2367 Nov 17 03:45	0°♁		evening max el	2370 May 08 02:07	2°♁49'37	45°36'39
	2367 Dec 11 04:10	0°♁		greatest brilliancy	2370 Jun 11 11:28	29°♁19'30	-4.5m
	2368 Jan 04 01:41	0°♁			2370 Jun 12 23:34	0°♁	
desc. node	2368 Jan 08 15:56	5°♁46'22		desc. node	2370 Jun 25 11:00	2°♁55'30	
morning set	2368 Jan 15 07:15	14°♁07'01		retrograde	2370 Jun 25 21:09	2°♁55'42	
	2368 Jan 27 22:31	0°♁			2370 Jul 08 01:55	30°♁	
	2368 Feb 20 20:05	0°♁		evening set	2370 Jul 11 08:17	28°♁19'19	
				inferior conj	2370 Jul 17 08:29	24°♁42'08	-4°-51'-30
superior conj	2368 Feb 25 20:27	6°♁17'06	-1°-23'-59	minimum elong	2370 Jul 16 23:24	24°♁56'21	4°49'18
minimum elong	2368 Feb 25 15:09	6°♁00'28	1°23'57	min. Earth dist.	2370 Jul 17 04:51	24°♁47'50	0.29018 AU
max. Earth dist.	2368 Feb 29 09:47	10°♁44'12	1.71602 AU	morning rise	2370 Jul 22 14:35	21°♁30'45	
	2368 Mar 15 19:45	0°♁		direct	2370 Aug 08 00:39	16°♁24'49	
evening rise	2368 Apr 05 22:22	26°♁15'31		greatest brilliancy	2370 Aug 21 22:30	19°♁48'13	-4.5m
	2368 Apr 08 22:50	0°♁			2370 Sep 07 03:03	0°♁	
asc. node	2368 Apr 30 19:26	26°♁58'45		morning max el	2370 Sep 26 06:08	16°♁55'05	46°03'27
	2368 May 03 06:26	0°♁			2370 Oct 09 02:57	0°♁	
	2368 May 27 19:23	0°♁		asc. node	2370 Oct 16 14:24	8°♁01'47	
	2368 Jun 21 14:46	0°♁			2370 Nov 05 02:23	0°♁	
	2368 Jul 16 19:00	0°♁			2370 Nov 30 09:47	0°♁	

	2370 Dec 24 23:07	0°♁			2373 Jun 08 23:47	0°♁		
	2371 Jan 18 04:23	0°♁			2373 Jul 06 18:56	0°♁		
desc. node	2371 Feb 05 03:54	22°♁23'03		evening max el	2373 Jul 17 20:57	10°♁58'41	45°31'19	
	2371 Feb 11 06:32	0°♁		desc. node	2373 Jul 22 22:55	15°♁44'00		
	2371 Mar 07 08:08	0°♁			2373 Aug 09 07:16	0°♁		
	2371 Mar 31 10:46	0°♁		greatest brilliancy	2373 Aug 24 03:42	8°♁21'14	-4.5m	
morning set	2371 Apr 01 11:57	1°♁18'11		retrograde	2373 Sep 04 13:45	10°♁40'49		
	2371 Apr 24 15:31	0°♁		evening set	2373 Sep 22 13:56	4°♁41'02		
				inferior conj	2373 Sep 25 18:33	2°♁44'19	-8°-33'-48	
superior conj	2371 May 09 20:29	18°♁47'06	0°-44'-12	minimum elong	2373 Sep 25 22:38	2°♁37'59	8°33'34	
minimum elong	2371 May 10 05:04	19°♁13'34	0°43'51	min. Earth dist.	2373 Sep 26 14:00	2°♁14'15	0.28211 AU	
max. Earth dist.	2371 May 12 09:25	21°♁55'02	1.73110 AU	morning rise	2373 Sep 29 07:05	0°♁35'03		
	2371 May 18 22:46	0°♁			2373 Sep 30 06:51	30°♁		
asc. node	2371 May 29 07:11	12°♁44'29		direct	2373 Oct 17 00:34	24°♁36'41		
	2371 Jun 12 08:14	0°♁		greatest brilliancy	2373 Oct 31 11:56	28°♁21'37	-4.6m	
evening rise	2371 Jun 16 02:25	4°♁36'51			2373 Nov 03 14:45	0°♁		
	2371 Jul 06 19:23	0°♁		asc. node	2373 Nov 13 02:02	6°♁18'21		
	2371 Jul 31 08:25	0°♁		morning max el	2373 Dec 06 12:22	27°♁27'10	46°46'44	
	2371 Aug 25 00:30	0°♁			2373 Dec 09 00:05	0°♁		
desc. node	2371 Sep 17 20:41	28°♁45'31			2374 Jan 05 07:20	0°♁		
	2371 Sep 18 21:31	0°♁			2374 Jan 30 19:52	0°♁		
	2371 Oct 14 02:06	0°♁			2374 Feb 24 16:21	0°♁		
	2371 Nov 08 19:48	0°♁		desc. node	2374 Mar 04 15:45	9°♁42'30		
	2371 Dec 05 20:02	0°♁			2374 Mar 21 06:18	0°♁		
evening max el	2371 Dec 14 02:06	8°♁35'36	47°17'21		2374 Apr 14 17:57	0°♁		
	2372 Jan 06 13:24	0°♁			2374 May 09 05:17	0°♁		
asc. node	2372 Jan 08 23:53	1°♁49'50			2374 Jun 02 16:51	0°♁		
greatest brilliancy	2372 Jan 21 05:24	9°♁11'15	-4.7m	morning set	2374 Jun 10 12:12	9°♁34'06		
retrograde	2372 Feb 02 23:40	12°♁13'26		asc. node	2374 Jun 25 19:05	28°♁18'55		
evening set	2372 Feb 20 08:16	6°♁19'54			2374 Jun 27 04:03	0°♁		
min. Earth dist.	2372 Feb 22 23:42	4°♁42'11	0.27352 AU	max. Earth dist.	2374 Jul 15 09:23	22°♁23'09	1.73529 AU	
inferior conj	2372 Feb 23 18:36	4°♁12'40	8°37'04					
minimum elong	2372 Feb 23 13:26	4°♁20'44	8°36'40	superior conj	2374 Jul 17 02:49	24°♁30'33	0°47'50	
morning rise	2372 Feb 26 18:52	2°♁21'15		minimum elong	2374 Jul 16 18:39	24°♁05'26	0°47'30	
	2372 Mar 01 23:24	30°♁			2374 Jul 21 13:56	0°♁		
direct	2372 Mar 15 10:23	26°♁23'32			2374 Aug 14 22:07	0°♁		
greatest brilliancy	2372 Mar 26 01:05	28°♁29'04	-4.6m	evening rise	2374 Aug 21 23:04	8°♁41'19		
	2372 Mar 29 14:11	0°♁			2374 Sep 08 05:13	0°♁		
desc. node	2372 Apr 29 13:16	23°♁23'23			2374 Oct 02 12:20	0°♁		
morning max el	2372 May 03 21:34	27°♁33'20	46°11'00	desc. node	2374 Oct 15 08:30	15°♁50'20		
	2372 May 06 09:20	0°♁			2374 Oct 26 20:26	0°♁		
	2372 Jun 03 20:39	0°♁			2374 Nov 20 06:28	0°♁		
	2372 Jun 30 10:31	0°♁			2374 Dec 14 20:38	0°♁		
	2372 Jul 26 03:27	0°♁			2375 Jan 08 20:55	0°♁		
	2372 Aug 20 06:17	0°♁			2375 Feb 03 22:08	0°♁		
asc. node	2372 Aug 20 16:45	0°♁31'33		asc. node	2375 Feb 05 11:44	1°♁44'19		
	2372 Sep 13 21:49	0°♁		evening max el	2375 Feb 23 17:59	21°♁06'43	46°40'16	
	2372 Oct 08 04:36	0°♁			2375 Mar 04 21:51	0°♁		
morning set	2372 Oct 28 12:37	25°♁21'33		greatest brilliancy	2375 Mar 31 14:52	19°♁51'27	-4.6m	
	2372 Nov 01 05:36	0°♁		retrograde	2375 Apr 14 23:34	23°♁35'11		
	2372 Nov 25 03:32	0°♁		evening set	2375 May 01 03:02	18°♁29'54		
max. Earth dist.	2372 Dec 06 01:05	13°♁41'59	1.71186 AU	inferior conj	2375 May 06 06:38	15°♁20'51	4°54'48	
				minimum elong	2375 May 06 15:45	15°♁06'30	4°52'32	
superior conj	2372 Dec 07 03:12	15°♁04'03	0°07'31	min. Earth dist.	2375 May 06 06:38	15°♁20'51	0.28536 AU	
minimum elong	2372 Dec 07 05:09	15°♁10'10	0°07'25	morning rise	2375 May 12 04:45	11°♁45'47		
behind sun begin	2372 Dec 06 05:46	13°♁56'43		direct	2375 May 27 13:15	7°♁10'16		
behind sun end	2372 Dec 08 04:31	16°♁23'38		desc. node	2375 May 28 01:03	7°♁10'33		
desc. node	2372 Dec 10 06:12	18°♁59'49		greatest brilliancy	2375 Jun 09 00:26	9°♁55'23	-4.5m	
	2372 Dec 19 00:12	0°♁			2375 Jul 07 19:21	0°♁		
	2373 Jan 11 20:46	0°♁		morning max el	2375 Jul 15 07:57	6°♁56'48	45°43'30	
evening rise	2373 Jan 17 10:38	7°♁00'25			2375 Aug 06 23:47	0°♁		
	2373 Feb 04 18:31	0°♁			2375 Sep 02 23:36	0°♁		
	2373 Feb 28 19:26	0°♁		asc. node	2375 Sep 18 04:37	17°♁40'38		
	2373 Mar 25 02:06	0°♁			2375 Sep 28 13:58	0°♁		
asc. node	2373 Apr 02 09:32	10°♁10'29			2375 Oct 23 08:36	0°♁		
	2373 Apr 18 17:40	0°♁			2375 Nov 16 15:17	0°♁		
	2373 May 13 22:16	0°♁			2375 Dec 10 15:31	0°♁		

	2376 Jan 03 12:54	0°☾			2378 Jun 29 20:50	30°☾☽		
desc. node	2376 Jan 07 18:04	5°☾17'53		evening set	2378 Jul 08 22:59	26°☽13'38		
morning set	2376 Jan 12 17:12	11°☾32'16		inferior conj	2378 Jul 15 00:56	22°☽33'46	-4°-34'-59	
	2376 Jan 27 09:38	0°≈		minimum elong	2378 Jul 14 16:10	22°☽47'30	4°32'50	
	2376 Feb 20 07:08	0°☿		min. Earth dist.	2378 Jul 14 21:14	22°☽39'34	0.29016 AU	
				morning rise	2378 Jul 20 09:25	19°☽18'36		
superior conj	2376 Feb 23 07:44	3°☿47'30	-1°-23'-1	direct	2378 Aug 05 17:06	14°☽16'37		
minimum elong	2376 Feb 23 01:27	3°☿27'49	1°22'57	greatest brilliancy	2378 Aug 19 12:44	17°☽36'59	-4.5m	
max. Earth dist.	2376 Feb 26 19:02	8°☿08'26	1.71557 AU		2378 Sep 07 12:44	0°♁		
	2376 Mar 15 06:44	0°♁		morning max el	2378 Sep 23 20:46	14°♁40'26	46°02'00	
evening rise	2376 Apr 03 11:48	23°♁54'20			2378 Oct 08 20:54	0°♁		
	2376 Apr 08 09:49	0°♁		asc. node	2378 Oct 15 16:23	7°♁21'38		
asc. node	2376 Apr 29 21:23	26°♁30'44			2378 Nov 04 16:43	0°♁		
	2376 May 02 17:32	0°♁			2378 Nov 29 22:38	0°♁		
	2376 May 27 06:44	0°☽			2378 Dec 24 11:15	0°♁		
	2376 Jun 21 02:36	0°♁			2379 Jan 17 16:04	0°☾		
	2376 Jul 16 07:40	0°♁		desc. node	2379 Feb 04 05:53	21°☾53'37		
	2376 Aug 11 03:29	0°♁			2379 Feb 10 17:54	0°≈		
desc. node	2376 Aug 19 10:44	9°♁25'12			2379 Mar 06 19:16	0°☿		
	2376 Sep 07 02:28	0°♁		morning set	2379 Mar 30 01:26	28°☿57'04		
evening max el	2376 Sep 28 18:13	22°♁19'43	46°29'38		2379 Mar 30 21:42	0°♁		
	2376 Oct 06 21:18	0°♁			2379 Apr 24 02:17	0°♁		
greatest brilliancy	2376 Nov 06 12:53	21°♁29'08	-4.6m					
retrograde	2376 Nov 17 13:47	23°♁43'36		superior conj	2379 May 07 12:28	16°♁35'19	0°-47'-5	
evening set	2376 Dec 01 23:19	19°♁37'50		minimum elong	2379 May 07 21:26	17°♁02'58	0°46'43	
inferior conj	2376 Dec 08 02:19	16°♁04'04	0°-38'-46	max. Earth dist.	2379 May 10 05:31	19°♁56'00	1.73063 AU	
minimum elong	2376 Dec 08 03:48	16°♁01'48	0°38'18		2379 May 18 09:28	0°♁		
min. Earth dist.	2376 Dec 08 06:38	15°♁57'31	0.26515 AU	asc. node	2379 May 28 09:20	12°♁18'21		
asc. node	2376 Dec 10 14:03	14°♁34'03			2379 Jun 11 18:55	0°☽		
morning rise	2376 Dec 14 08:06	12°♁26'47		evening rise	2379 Jun 13 20:35	2°☽32'30		
direct	2376 Dec 28 13:57	8°♁24'18			2379 Jul 06 06:11	0°♁		
greatest brilliancy	2377 Jan 10 00:00	11°♁17'46	-4.7m		2379 Jul 30 19:31	0°♁		
	2377 Feb 05 04:17	0°☾			2379 Aug 24 12:06	0°♁		
morning max el	2377 Feb 17 03:43	11°☾31'47	46°53'21	desc. node	2379 Sep 16 22:36	28°♁14'18		
	2377 Mar 06 16:07	0°≈			2379 Sep 18 09:53	0°♁		
desc. node	2377 Apr 01 03:36	28°≈43'18			2379 Oct 13 15:39	0°♁		
	2377 Apr 02 06:09	0°☿			2379 Nov 08 11:26	0°☾		
	2377 Apr 27 20:58	0°♁			2379 Dec 05 16:22	0°≈		
	2377 May 23 01:39	0°♁		evening max el	2379 Dec 11 15:23	6°≈09'46	47°17'04	
	2377 Jun 17 00:50	0°♁			2380 Jan 07 09:10	0°☿		
	2377 Jul 11 19:33	0°☽		asc. node	2380 Jan 08 01:57	0°☿29'45		
asc. node	2377 Jul 23 06:57	13°☽58'27		greatest brilliancy	2380 Jan 18 21:51	6°☿49'29	-4.7m	
	2377 Aug 05 09:21	0°♁		retrograde	2380 Jan 31 13:04	9°☿48'45		
morning set	2377 Aug 17 06:46	14°♁36'51		evening set	2380 Feb 17 18:40	4°☿01'02		
	2377 Aug 29 18:01	0°♁		min. Earth dist.	2380 Feb 20 13:16	2°☿18'41	0.27297 AU	
max. Earth dist.	2377 Sep 19 15:32	25°♁54'55	1.72469 AU	inferior conj	2380 Feb 21 08:11	1°☿49'08	8°31'16	
				minimum elong	2380 Feb 21 02:15	1°☿58'25	8°30'43	
superior conj	2377 Sep 22 22:10	29°♁59'21	1°23'49	morning rise	2380 Feb 24 10:04	29°≈55'15		
minimum elong	2377 Sep 23 01:17	0°♁09'01	1°23'47		2380 Feb 24 06:55	30°☾≈		
	2377 Sep 22 22:23	0°♁		direct	2380 Mar 12 22:51	24°≈00'46		
	2377 Oct 17 00:02	0°♁		greatest brilliancy	2380 Mar 23 14:39	26°≈06'53	-4.6m	
evening rise	2377 Oct 31 02:29	17°♁36'34			2380 Mar 31 14:33	0°☿		
	2377 Nov 10 00:28	0°♁		desc. node	2380 Apr 28 15:20	22°☿29'54		
desc. node	2377 Nov 11 20:26	2°♁17'21		morning max el	2380 May 01 10:21	25°☿11'36	46°12'38	
	2377 Dec 04 00:41	0°☾			2380 May 06 06:54	0°♁		
	2377 Dec 28 01:34	0°≈			2380 Jun 03 12:11	0°♁		
	2378 Jan 21 05:04	0°☿			2380 Jun 29 23:42	0°♁		
	2378 Feb 14 15:09	0°♁			2380 Jul 25 15:26	0°☽		
asc. node	2378 Mar 04 23:36	22°♁08'01		asc. node	2380 Aug 19 18:44	0°♁03'25		
	2378 Mar 11 14:36	0°♁			2380 Aug 19 17:36	0°♁		
	2378 Apr 06 15:38	0°♁			2380 Sep 13 08:48	0°♁		
	2378 May 05 02:04	0°☽			2380 Oct 07 15:27	0°♁		
evening max el	2378 May 05 18:14	0°☽39'20	45°38'01	morning set	2380 Oct 26 02:52	23°♁02'05		
greatest brilliancy	2378 Jun 09 03:39	27°☽11'02	-4.5m		2380 Oct 31 16:27	0°♁		
	2378 Jun 17 00:34	0°♁			2380 Nov 24 14:25	0°♁		
retrograde	2378 Jun 23 13:10	0°♁47'19		max. Earth dist.	2380 Dec 03 08:21	10°♁59'41	1.71212 AU	
desc. node	2378 Jun 24 13:06	0°♁46'10						



superior conj	2380 Dec 04 14:07	12°♄33'16	0°11'24	min. Earth dist.	2383 May 03 21:57	13°♁09'10	0.28509 AU
minimum elong	2380 Dec 04 17:03	12°♄42'29	0°11'15	morning rise	2383 May 09 18:27	9°♁36'38	
behind sun begin	2380 Dec 03 22:05	11°♄42'51		direct	2383 May 25 04:55	4°♁58'16	
behind sun end	2380 Dec 05 12:01	13°♄42'07		desc. node	2383 May 27 03:12	5°♁02'36	
desc. node	2380 Dec 09 08:22	18°♄32'23		greatest brilliancy	2383 Jun 06 14:03	7°♁41'59	-4.5m
	2380 Dec 18 11:07	0°♁			2383 Jul 07 20:46	0°♁	
	2381 Jan 11 07:43	0°♁		morning max el	2383 Jul 13 00:48	4°♁49'27	45°43'43
evening rise	2381 Jan 14 20:38	4°♁26'41			2383 Aug 06 16:02	0°♁	
	2381 Feb 04 05:32	0°♁			2383 Sep 02 13:01	0°♁	
	2381 Feb 28 06:34	0°♁		asc. node	2383 Sep 17 06:37	17°♁09'30	
	2381 Mar 24 13:29	0°♁			2383 Sep 28 02:07	0°♁	
asc. node	2381 Apr 01 11:33	9°♁41'34			2383 Oct 22 20:07	0°♁	
	2381 Apr 18 05:28	0°♁			2383 Nov 16 02:29	0°♁	
	2381 May 13 10:56	0°♁			2383 Dec 10 02:33	0°♁	
	2381 Jun 08 14:16	0°♁			2384 Jan 02 23:52	0°♁	
	2381 Jul 06 14:04	0°♁		desc. node	2384 Jan 06 20:06	4°♁49'48	
evening max el	2381 Jul 15 11:09	8°♁44'16	45°30'23	morning set	2384 Jan 10 03:08	8°♁58'11	
desc. node	2381 Jul 22 00:58	14°♁51'00			2384 Jan 26 20:34	0°♁	
	2381 Aug 10 04:19	0°♁			2384 Feb 19 18:02	0°♁	
greatest brilliancy	2381 Aug 21 14:14	6°♁03'10	-4.5m				
retrograde	2381 Sep 02 04:20	8°♁26'44		superior conj	2384 Feb 20 18:27	1°♁16'33	-1°-21'-52
evening set	2381 Sep 20 05:16	2°♁24'50		minimum elong	2384 Feb 20 11:16	0°♁54'01	1°21'46
inferior conj	2381 Sep 23 09:19	0°♁29'03	-8°-37'-4	max. Earth dist.	2384 Feb 24 04:54	5°♁34'56	1.71515 AU
minimum elong	2381 Sep 23 12:38	0°♁23'57	8°36'55		2384 Mar 14 17:35	0°♁	
min. Earth dist.	2381 Sep 24 04:00	0°♁00'14	0.28276 AU	evening rise	2384 Apr 01 00:37	21°♁31'35	
	2381 Sep 24 04:09	30°♁			2384 Apr 07 20:38	0°♁	
morning rise	2381 Sep 26 19:44	28°♁23'06		asc. node	2384 Apr 28 23:33	26°♁03'53	
direct	2381 Oct 14 15:58	22°♁20'21			2384 May 02 04:26	0°♁	
greatest brilliancy	2381 Oct 29 05:03	26°♁07'28	-4.6m		2384 May 26 17:54	0°♁	
	2381 Nov 05 00:10	0°♁			2384 Jun 20 14:14	0°♁	
asc. node	2381 Nov 12 04:13	5°♁07'41			2384 Jul 15 20:10	0°♁	
morning max el	2381 Dec 04 03:49	25°♁08'58	46°45'31		2384 Aug 10 17:35	0°♁	
	2381 Dec 08 20:51	0°♁		desc. node	2384 Aug 18 12:42	8°♁48'57	
	2382 Jan 04 22:58	0°♁			2384 Sep 06 19:58	0°♁	
	2382 Jan 30 09:28	0°♁		evening max el	2384 Sep 26 08:44	20°♁01'27	46°27'15
	2382 Feb 24 04:51	0°♁			2384 Oct 07 01:48	0°♁	
desc. node	2382 Mar 03 17:45	9°♁11'15		greatest brilliancy	2384 Nov 04 02:23	19°♁04'16	-4.6m
	2382 Mar 20 18:06	0°♁		retrograde	2384 Nov 15 02:04	21°♁16'47	
	2382 Apr 14 05:16	0°♁		evening set	2384 Nov 29 13:06	17°♁09'48	
	2382 May 08 16:15	0°♁		inferior conj	2384 Dec 05 14:44	13°♁37'30	-1°-3'-4
	2382 Jun 02 03:34	0°♁		minimum elong	2384 Dec 05 17:09	13°♁33'50	1°02'18
morning set	2382 Jun 08 05:50	7°♁28'17		min. Earth dist.	2384 Dec 05 20:27	13°♁28'49	0.26539 AU
asc. node	2382 Jun 24 21:10	27°♁52'51		asc. node	2384 Dec 09 16:03	11°♁12'22	
	2382 Jun 26 14:37	0°♁		morning rise	2384 Dec 11 21:00	9°♁59'16	
max. Earth dist.	2382 Jul 13 08:07	20°♁33'05	1.73542 AU	direct	2384 Dec 26 03:07	5°♁57'26	
				greatest brilliancy	2385 Jan 07 14:04	8°♁51'44	-4.7m
superior conj	2382 Jul 14 21:16	22°♁27'17	0°45'12		2385 Feb 05 08:40	0°♁	
minimum elong	2382 Jul 14 13:21	22°♁02'56	0°44'53	morning max el	2385 Feb 14 16:58	9°♁06'42	46°53'55
	2382 Jul 21 00:27	0°♁			2385 Mar 06 09:56	0°♁	
	2382 Aug 14 08:43	0°♁		desc. node	2385 Mar 31 05:41	28°♁07'06	
evening rise	2382 Aug 19 17:28	6°♁37'12			2385 Apr 01 20:40	0°♁	
	2382 Sep 07 16:00	0°♁			2385 Apr 27 09:52	0°♁	
	2382 Oct 01 23:24	0°♁			2385 May 22 13:36	0°♁	
desc. node	2382 Oct 14 10:38	15°♁22'12			2385 Jun 16 12:10	0°♁	
	2382 Oct 26 07:55	0°♁			2385 Jul 11 06:30	0°♁	
	2382 Nov 19 18:30	0°♁		asc. node	2385 Jul 22 08:55	13°♁31'25	
	2382 Dec 14 09:28	0°♁			2385 Aug 04 20:06	0°♁	
	2383 Jan 08 11:05	0°♁		morning set	2385 Aug 15 00:17	12°♁30'09	
	2383 Feb 03 15:08	0°♁			2385 Aug 29 04:41	0°♁	
asc. node	2383 Feb 04 13:43	1°♁02'18		max. Earth dist.	2385 Sep 17 05:08	23°♁34'48	1.72518 AU
evening max el	2383 Feb 21 09:34	18°♁50'53	46°42'43				
	2383 Mar 05 00:24	0°♁		superior conj	2385 Sep 20 14:53	27°♁48'50	1°24'18
greatest brilliancy	2383 Mar 29 07:15	17°♁38'59	-4.6m	minimum elong	2385 Sep 20 17:15	27°♁56'11	1°24'17
retrograde	2383 Apr 12 16:21	21°♁22'49			2385 Sep 22 09:05	0°♁	
evening set	2383 Apr 28 21:35	16°♁13'31			2385 Oct 16 10:50	0°♁	
inferior conj	2383 May 03 22:26	13°♁08'24	5°11'47	evening rise	2385 Oct 28 16:04	15°♁15'03	
minimum elong	2383 May 04 07:52	12°♁53'36	5°09'30		2385 Nov 09 11:26	0°♁	

desc. node	2385 Nov 10 22:36	1°♁49'49		2388 Jun 03 03:39	0°♁		
	2385 Dec 03 11:50	0°♁		2388 Jun 29 13:00	0°♁		
	2385 Dec 27 12:57	0°♁		2388 Jul 25 03:36	0°♁		
	2386 Jan 20 16:47	0°♁		2388 Aug 18 20:49	29°♁34'52		
	2386 Feb 14 03:25	0°♁		2388 Aug 19 05:08	0°♁		
asc. node	2386 Mar 04 01:38	21°♁35'22		2388 Sep 12 19:59	0°♁		
	2386 Mar 11 03:55	0°♁		2388 Oct 07 02:30	0°♁		
	2386 Apr 06 07:11	0°♁		2388 Oct 23 17:17	20°♁42'43		
evening max el	2386 May 03 09:37	28°♁26'52	45°39'28	2388 Oct 31 03:28	0°♁		
	2386 May 05 00:11	0°♁		2388 Nov 24 01:28	0°♁		
greatest brilliancy	2386 Jun 06 19:35	25°♁01'54	-4.5m	max. Earth dist.	2388 Nov 30 18:20	8°♁25'23	1.71241 AU
retrograde	2386 Jun 21 05:00	28°♁38'57					
desc. node	2386 Jun 23 15:05	28°♁32'05		superior conj	2388 Dec 02 01:11	10°♁02'23	0°15'15
evening set	2386 Jul 06 13:49	24°♁07'30		minimum elong	2388 Dec 02 05:04	10°♁14'34	0°15'03
inferior conj	2386 Jul 12 17:24	20°♁25'26	-4°-18'-5	behind sun begin	2388 Dec 01 19:03	9°♁43'06	
minimum elong	2386 Jul 12 09:00	20°♁38'36	4°15'58	behind sun end	2388 Dec 02 15:05	10°♁46'02	
min. Earth dist.	2386 Jul 12 13:56	20°♁30'52	0.29009 AU	desc. node	2388 Dec 08 10:19	18°♁03'40	
morning rise	2386 Jul 18 04:10	17°♁06'39			2388 Dec 17 22:13	0°♁	
direct	2386 Aug 03 09:06	12°♁08'21			2389 Jan 10 18:54	0°♁	
greatest brilliancy	2386 Aug 17 03:35	15°♁26'34	-4.5m	evening rise	2389 Jan 12 06:51	1°♁52'55	
	2386 Sep 07 19:42	0°♁			2389 Feb 03 16:48	0°♁	
morning max el	2386 Sep 21 11:06	12°♁25'18	46°00'39		2389 Feb 27 17:56	0°♁	
	2386 Oct 08 14:23	0°♁			2389 Mar 24 01:04	0°♁	
asc. node	2386 Oct 14 18:34	6°♁42'37		asc. node	2389 Mar 31 13:43	9°♁12'28	
	2386 Nov 04 06:52	0°♁			2389 Apr 17 17:31	0°♁	
	2386 Nov 29 11:24	0°♁			2389 May 12 23:55	0°♁	
	2386 Dec 23 23:18	0°♁			2389 Jun 08 05:13	0°♁	
	2387 Jan 17 03:42	0°♁			2389 Jul 06 10:10	0°♁	
desc. node	2387 Feb 03 07:55	21°♁24'27		evening max el	2389 Jul 13 02:23	6°♁31'31	45°29'27
	2387 Feb 10 05:13	0°♁		desc. node	2389 Jul 21 02:58	13°♁55'48	
	2387 Mar 06 06:21	0°♁			2389 Aug 11 10:07	0°♁	
morning set	2387 Mar 27 14:53	26°♁35'42		greatest brilliancy	2389 Aug 19 00:47	3°♁44'25	-4.5m
	2387 Mar 30 08:37	0°♁		retrograde	2389 Aug 30 19:17	6°♁11'51	
	2387 Apr 23 13:07	0°♁		evening set	2389 Sep 17 20:21	0°♁08'35	
					2389 Sep 18 02:06	30°♁	
superior conj	2387 May 05 04:21	14°♁22'52	0°-49'-53	inferior conj	2389 Sep 21 00:10	28°♁13'06	-8°-39'-27
minimum elong	2387 May 05 13:39	14°♁51'34	0°49'32	minimum elong	2389 Sep 21 02:40	28°♁09'14	8°39'23
max. Earth dist.	2387 May 07 23:15	17°♁49'22	1.73020 AU	min. Earth dist.	2389 Sep 21 17:41	27°♁46'04	0.28335 AU
	2387 May 17 20:15	0°♁		morning rise	2389 Sep 24 08:47	26°♁09'56	
asc. node	2387 May 27 11:22	11°♁51'28		direct	2389 Oct 12 07:50	20°♁03'40	
	2387 Jun 11 05:43	0°♁		greatest brilliancy	2389 Oct 26 21:18	23°♁51'43	-4.6m
evening rise	2387 Jun 11 14:30	0°♁26'57			2389 Nov 06 00:21	0°♁	
	2387 Jul 05 17:07	0°♁		asc. node	2389 Nov 11 06:15	3°♁58'01	
	2387 Jul 30 06:44	0°♁		morning max el	2389 Dec 01 19:41	22°♁51'22	46°44'12
	2387 Aug 23 23:49	0°♁			2389 Dec 08 17:11	0°♁	
desc. node	2387 Sep 16 00:44	27°♁43'22			2390 Jan 04 14:35	0°♁	
	2387 Sep 17 22:24	0°♁			2390 Jan 29 23:10	0°♁	
	2387 Oct 13 05:25	0°♁			2390 Feb 23 17:32	0°♁	
	2387 Nov 08 03:23	0°♁		desc. node	2390 Mar 02 19:49	8°♁39'29	
	2387 Dec 05 13:29	0°♁			2390 Mar 20 06:09	0°♁	
evening max el	2387 Dec 09 04:37	3°♁43'39	47°16'46		2390 Apr 13 16:51	0°♁	
asc. node	2388 Jan 07 03:57	29°♁06'50			2390 May 08 03:29	0°♁	
	2388 Jan 08 12:12	0°♁			2390 Jun 01 14:33	0°♁	
greatest brilliancy	2388 Jan 16 13:29	4°♁26'27	-4.7m	morning set	2390 Jun 05 23:36	5°♁22'02	
retrograde	2388 Jan 29 02:41	7°♁24'15		asc. node	2390 Jun 23 23:07	27°♁25'31	
evening set	2388 Feb 15 04:50	1°♁42'20			2390 Jun 26 01:28	0°♁	
	2388 Feb 17 23:45	30°♁		max. Earth dist.	2390 Jul 11 07:42	18°♁44'38	1.73555 AU
min. Earth dist.	2388 Feb 18 02:50	29°♁55'12	0.27242 AU				
inferior conj	2388 Feb 18 21:51	29°♁25'34	8°24'26	superior conj	2390 Jul 12 15:42	20°♁22'59	0°42'31
minimum elong	2388 Feb 18 15:09	29°♁36'01	8°23'45	minimum elong	2390 Jul 12 08:05	19°♁59'35	0°42'12
morning rise	2388 Feb 22 01:41	27°♁28'54			2390 Jul 20 11:18	0°♁	
direct	2388 Mar 10 11:20	21°♁37'48			2390 Aug 13 19:41	0°♁	
greatest brilliancy	2388 Mar 21 04:35	23°♁45'07	-4.6m	evening rise	2390 Aug 17 11:49	4°♁31'49	
	2388 Apr 01 23:01	0°♁			2390 Sep 07 03:10	0°♁	
desc. node	2388 Apr 27 17:30	21°♁37'38			2390 Oct 01 10:51	0°♁	
morning max el	2388 Apr 28 23:57	22°♁51'32	46°14'14	desc. node	2390 Oct 13 12:42	14°♁52'42	
	2388 May 06 03:48	0°♁			2390 Oct 25 19:45	0°♁	

	2390 Nov 19 06:54	0°☾		asc. node	2393 Jul 21 11:03	13°☾04'00	
	2390 Dec 13 22:43	0°♊			2393 Aug 04 07:07	0°♈	
	2391 Jan 08 01:45	0°♋		morning set	2393 Aug 12 17:56	10°♈23'03	
	2391 Feb 03 08:53	0°♌			2393 Aug 28 15:36	0°♍	
asc. node	2391 Feb 03 15:48	0°♌18'58		max. Earth dist.	2393 Sep 14 21:02	21°♍21'11	1.72570 AU
evening max el	2391 Feb 19 01:45	16°♌35'18	46°44'57				
	2391 Mar 05 05:10	0°♍		superior conj	2393 Sep 18 07:46	25°♍38'11	1°24'37
greatest brilliancy	2391 Mar 27 00:32	15°♍26'14	-4.6m	minimum elong	2393 Sep 18 09:25	25°♍43'16	1°24'38
retrograde	2391 Apr 10 08:50	19°♍08'35			2393 Sep 21 20:01	0°♎	
evening set	2391 Apr 26 16:06	13°♍55'32			2393 Oct 15 21:54	0°♎	
inferior conj	2391 May 01 14:05	10°♍54'20	5°28'20	evening rise	2393 Oct 26 05:46	12°♎53'09	
minimum elong	2391 May 01 23:44	10°♍39'10	5°26'05		2393 Nov 08 22:42	0°♏	
min. Earth dist.	2391 May 01 13:03	10°♍55'57	0.28480 AU	desc. node	2393 Nov 10 00:33	1°♏20'42	
morning rise	2391 May 07 07:46	7°♍25'58			2393 Dec 02 23:20	0°♐	
direct	2391 May 22 20:39	2°♍44'52			2393 Dec 27 00:41	0°♑	
desc. node	2391 May 26 05:06	2°♍57'52			2394 Jan 20 04:51	0°♋	
greatest brilliancy	2391 Jun 04 02:32	5°♍25'52	-4.5m		2394 Feb 13 16:03	0°♌	
	2391 Jul 07 21:21	0°♎		asc. node	2394 Mar 03 03:46	21°♌02'05	
morning max el	2391 Jul 10 16:58	2°♎39'25	45°43'57		2394 Mar 10 17:37	0°♍	
	2391 Aug 06 08:22	0°♏			2394 Apr 05 23:16	0°♎	
	2391 Sep 02 02:41	0°♈		evening max el	2394 May 01 00:14	26°♎11'45	45°41'00
asc. node	2391 Sep 16 08:46	16°♈37'52			2394 May 04 23:34	0°♏	
	2391 Sep 27 14:36	0°♍		greatest brilliancy	2394 Jun 04 10:31	22°♏50'37	-4.5m
	2391 Oct 22 08:00	0°♎		retrograde	2394 Jun 18 21:00	26°♏29'54	
	2391 Nov 15 14:03	0°♏		desc. node	2394 Jun 22 17:09	26°♏12'29	
	2391 Dec 09 13:57	0°♐		evening set	2394 Jul 04 04:43	22°♏00'06	
desc. node	2392 Jan 02 11:10	0°♐		inferior conj	2394 Jul 10 09:48	18°♏16'15	-4°00'-47
morning set	2392 Jan 05 22:06	4°♐20'38		minimum elong	2394 Jul 10 01:48	18°♏28'47	3°58'43
	2392 Jan 07 12:59	6°♐22'52		min. Earth dist.	2394 Jul 10 06:37	18°♏21'14	0.29002 AU
	2392 Jan 26 07:49	0°♑		morning rise	2394 Jul 15 22:49	14°♏54'10	
				direct	2394 Aug 01 00:48	9°♏59'06	
superior conj	2392 Feb 18 05:03	28°♑44'12	-1°-20'-32	greatest brilliancy	2394 Aug 14 19:28	13°♏16'50	-4.5m
minimum elong	2392 Feb 17 21:01	28°♑19'01	1°20'25		2394 Sep 08 00:47	0°♈	
	2392 Feb 19 05:13	0°♋		morning max el	2394 Sep 19 01:48	10°♈10'40	45°59'31
max. Earth dist.	2392 Feb 21 16:03	3°♋04'24	1.71474 AU		2394 Oct 08 07:39	0°♍	
	2392 Mar 14 04:44	0°♌		asc. node	2394 Oct 13 20:33	6°♍03'05	
evening rise	2392 Mar 29 13:17	19°♌07'12			2394 Nov 03 21:01	0°♎	
	2392 Apr 07 07:49	0°♍			2394 Nov 29 00:15	0°♏	
asc. node	2392 Apr 28 01:34	25°♍35'26			2394 Dec 23 11:30	0°♐	
	2392 May 01 15:43	0°♎		desc. node	2395 Jan 16 15:30	0°♑	
	2392 May 26 05:25	0°♏			2395 Feb 02 10:03	20°♑54'59	
	2392 Jun 20 02:14	0°♈			2395 Feb 09 16:45	0°♒	
	2392 Jul 15 09:03	0°♉			2395 Mar 05 17:38	0°♋	
desc. node	2392 Aug 10 08:10	0°♊		morning set	2395 Mar 25 03:45	24°♋11'51	
	2392 Aug 17 14:49	8°♊11'49			2395 Mar 29 19:43	0°♌	
	2392 Sep 06 14:17	0°♋			2395 Apr 23 00:05	0°♍	
evening max el	2392 Sep 23 22:17	17°♋39'39	46°24'38				
	2392 Oct 07 09:00	0°♌		superior conj	2395 May 02 19:52	12°♌08'57	0°-52'-39
greatest brilliancy	2392 Nov 01 16:27	16°♌38'22	-4.6m	minimum elong	2395 May 03 05:28	12°♌38'35	0°52'18
retrograde	2392 Nov 12 13:29	18°♌48'15		max. Earth dist.	2395 May 05 15:55	15°♌39'00	1.72974 AU
evening set	2392 Nov 27 02:52	14°♌39'40			2395 May 17 07:09	0°♎	
inferior conj	2392 Dec 03 03:01	11°♌09'18	-1°-27'-16	asc. node	2395 May 26 13:21	11°♎24'02	
minimum elong	2392 Dec 03 06:20	11°♌04'15	1°26'13	evening rise	2395 Jun 09 08:15	28°♎20'37	
min. Earth dist.	2392 Dec 03 10:29	10°♌57'56	0.26567 AU		2395 Jun 10 16:38	0°♏	
asc. node	2392 Dec 08 18:03	7°♌51'00			2395 Jul 05 04:11	0°♐	
morning rise	2392 Dec 09 09:28	7°♌30'18			2395 Jul 29 18:05	0°♑	
direct	2392 Dec 23 15:40	3°♌28'43			2395 Aug 23 11:40	0°♒	
greatest brilliancy	2393 Jan 05 04:59	6°♌25'05	-4.7m	desc. node	2395 Sep 15 02:49	27°♒12'07	
	2393 Feb 05 11:53	0°♍			2395 Sep 17 11:01	0°♓	
morning max el	2393 Feb 12 05:08	6°♍37'34	46°54'35		2395 Oct 12 19:18	0°♏	
	2393 Mar 06 03:43	0°♎			2395 Nov 07 19:36	0°♐	
desc. node	2393 Mar 30 07:50	27°♎30'26			2395 Dec 05 11:24	0°♑	
	2393 Apr 01 11:19	0°♋		evening max el	2395 Dec 06 18:00	1°♑17'56	47°16'15
	2393 Apr 26 22:57	0°♌		asc. node	2396 Jan 06 06:02	27°♑40'40	
	2393 May 22 01:46	0°♍			2396 Jan 10 03:12	0°♋	
	2393 Jun 15 23:47	0°♎		greatest brilliancy	2396 Jan 14 03:47	2°♋00'54	-4.7m
	2393 Jul 10 17:45	0°♏		retrograde	2396 Jan 26 16:26	4°♋58'30	

	2396 Feb 11 12:36	30°R		superior conj	2398 Jul 10 09:52	18°E18'44	0°39'46
evening set	2396 Feb 12 14:26	29°E22'22		minimum elong	2398 Jul 10 02:36	17°E56'25	0°39'26
min. Earth dist.	2396 Feb 15 15:52	27°E30'30	0.27192 AU		2398 Jul 19 21:54	0°E	
inferior conj	2396 Feb 16 11:10	27°E00'31	8°16'34		2398 Aug 13 06:22	0°E	
minimum elong	2396 Feb 16 03:46	27°E12'02	8°15'42	evening rise	2398 Aug 15 06:01	2°E26'57	
morning rise	2396 Feb 19 17:19	25°E00'42			2398 Sep 06 14:03	0°E	
direct	2396 Mar 07 23:52	19°E13'17			2398 Sep 30 22:03	0°E	
greatest brilliancy	2396 Mar 18 18:12	21°E21'56	-4.6m	desc. node	2398 Oct 12 14:39	14°E23'35	
	2396 Apr 02 22:45	0°E			2398 Oct 25 07:22	0°E	
morning max el	2396 Apr 26 14:12	20°E32'31	46°15'53		2398 Nov 18 19:05	0°E	
desc. node	2396 Apr 26 19:25	20°E45'17			2398 Dec 13 11:42	0°E	
	2396 May 06 00:09	0°E			2399 Jan 07 16:10	0°E	
	2396 Jun 02 18:57	0°E		asc. node	2399 Feb 02 17:53	29°E36'33	
	2396 Jun 29 02:10	0°E			2399 Feb 03 02:30	0°E	
	2396 Jul 24 15:40	0°E		evening max el	2399 Feb 16 17:36	14°E20'03	46°47'05
asc. node	2396 Aug 17 22:53	29°E06'30			2399 Mar 05 11:18	0°E	
	2396 Aug 18 16:35	0°E		greatest brilliancy	2399 Mar 24 18:39	13°E15'54	-4.6m
	2396 Sep 12 07:07	0°E		retrograde	2399 Apr 08 00:55	16°E55'35	
	2396 Oct 06 13:28	0°E		evening set	2399 Apr 24 10:46	11°E38'54	
morning set	2396 Oct 21 08:03	18°E24'45		inferior conj	2399 Apr 29 05:51	8°E41'38	5°44'27
	2396 Oct 30 14:24	0°E		minimum elong	2399 Apr 29 15:39	8°E26'11	5°42'14
	2396 Nov 23 12:24	0°E		min. Earth dist.	2399 Apr 29 04:23	8°E43'55	0.28452 AU
max. Earth dist.	2396 Nov 28 05:51	5°E56'22	1.71266 AU	morning rise	2399 May 04 20:58	5°E16'43	
				direct	2399 May 20 12:26	0°E32'53	
superior conj	2396 Nov 29 12:40	7°E33'12	0°19'01	desc. node	2399 May 25 07:13	0°E59'05	
minimum elong	2396 Nov 29 17:26	7°E48'12	0°18'47	greatest brilliancy	2399 Jun 01 15:04	3°E10'47	-4.5m
desc. node	2396 Dec 07 12:22	17°E35'42			2399 Jul 07 20:24	0°E	
	2396 Dec 17 09:12	0°E		morning max el	2399 Jul 08 08:25	0°E28'35	45°44'10
evening rise	2397 Jan 09 17:18	29°E20'18			2399 Aug 06 00:03	0°E	
	2397 Jan 10 05:56	0°E			2399 Sep 01 15:52	0°E	
	2397 Feb 03 03:57	0°E		asc. node	2399 Sep 15 10:46	16°E07'02	
	2397 Feb 27 05:14	0°E			2399 Sep 27 02:38	0°E	
	2397 Mar 23 12:37	0°E			2399 Oct 21 19:28	0°E	
asc. node	2397 Mar 30 15:39	8°E42'49			2399 Nov 15 01:13	0°E	
	2397 Apr 17 05:32	0°E			2399 Dec 09 00:58	0°E	
	2397 May 12 12:54	0°E			2400 Jan 01 22:07	0°E	
	2397 Jun 07 20:17	0°E		morning set	2400 Jan 04 23:01	3°E49'09	
	2397 Jul 06 06:47	0°E		desc. node	2400 Jan 05 00:15	3°E53'02	
evening max el	2397 Jul 10 17:59	4°E20'06	45°28'37		2400 Jan 25 18:41	0°E	
desc. node	2397 Jul 20 05:04	13°E00'08					
	2397 Aug 13 05:12	0°E		superior conj	2400 Feb 15 15:54	26°E13'55	-1°-19'-4
greatest brilliancy	2397 Aug 16 12:13	1°E27'10	-4.5m	minimum elong	2400 Feb 15 07:05	25°E46'15	1°18'54
retrograde	2397 Aug 28 10:02	3°E57'17			2400 Feb 18 16:00	0°E	
	2397 Sep 11 17:21	30°E		max. Earth dist.	2400 Feb 19 02:16	0°E32'10	1.71427 AU
evening set	2397 Sep 15 11:04	27°E53'29			2400 Mar 13 15:27	0°E	
inferior conj	2397 Sep 18 14:58	25°E57'38	-8°-41'-7	evening rise	2400 Mar 27 02:08	16°E44'40	
minimum elong	2397 Sep 18 16:38	25°E55'04	8°41'07		2400 Apr 06 18:32	0°E	
min. Earth dist.	2397 Sep 19 07:12	25°E32'34	0.28391 AU	asc. node	2400 Apr 27 03:34	25°E08'21	
morning rise	2397 Sep 21 22:02	23°E56'43			2400 May 01 02:33	0°E	
direct	2397 Oct 09 23:53	17°E47'39			2400 May 25 16:31	0°E	
greatest brilliancy	2397 Oct 24 12:28	21°E35'06	-4.6m		2400 Jun 19 13:51	0°E	
	2397 Nov 06 17:57	0°E			2400 Jul 14 21:36	0°E	
asc. node	2397 Nov 10 08:12	2°E50'36			2400 Aug 09 22:30	0°E	
morning max el	2397 Nov 29 11:08	20°E33'31	46°43'00	desc. node	2400 Aug 16 16:53	7°E35'28	
	2397 Dec 08 12:39	0°E			2400 Sep 06 08:37	0°E	
	2398 Jan 04 05:41	0°E		evening max el	2400 Sep 21 10:50	15°E16'48	46°22'05
	2398 Jan 29 12:28	0°E			2400 Oct 07 18:08	0°E	
	2398 Feb 23 05:52	0°E		greatest brilliancy	2400 Oct 30 06:30	14°E14'02	-4.6m
desc. node	2398 Mar 01 21:54	8°E08'49		retrograde	2400 Nov 10 00:50	16°E21'36	
	2398 Mar 19 17:52	0°E		evening set	2400 Nov 24 16:52	12°E10'44	
	2398 Apr 13 04:09	0°E		inferior conj	2400 Nov 30 15:23	8°E42'45	-1°-51'-10
	2398 May 07 14:28	0°E		minimum elong	2400 Nov 30 19:35	8°E36'21	1°49'51
	2398 Jun 01 01:18	0°E		min. Earth dist.	2400 Dec 01 00:45	8°E28'30	0.26602 AU
morning set	2398 Jun 03 17:08	3°E15'44		morning rise	2400 Dec 06 21:49	5°E03'22	
asc. node	2398 Jun 23 01:16	26°E59'30		asc. node	2400 Dec 07 20:13	4°E34'20	
	2398 Jun 25 12:05	0°E		direct	2400 Dec 21 03:57	1°E01'16	
max. Earth dist.	2398 Jul 09 06:24	16°E54'19	1.73562 AU	greatest brilliancy	2401 Jan 02 21:01	4°E01'07	-4.7m

	2401 Feb 05 13:11	0°☾			2403 Sep 16 23:31	0°♍		
morning max el	2401 Feb 09 17:28	4°☾09'48	46°55'23		2403 Oct 12 09:09	0°♁		
	2401 Mar 05 20:41	0°♁			2403 Nov 07 11:56	0°☾		
desc. node	2401 Mar 29 09:44	26°♁54'43		evening max el	2403 Dec 04 08:17	28°☾55'00	47°15'44	
	2401 Apr 01 01:20	0°♁			2403 Dec 05 10:03	0°♁		
	2401 Apr 26 11:29	0°♁		asc. node	2404 Jan 05 08:05	26°♁11'52		
	2401 May 21 13:26	0°♁		greatest brilliancy	2404 Jan 11 17:25	29°♁34'52	-4.7m	
	2401 Jun 15 10:54	0°♁			2404 Jan 12 16:45	0°♁		
	2401 Jul 10 04:32	0°☾		retrograde	2404 Jan 24 06:30	2°♁32'48		
asc. node	2401 Jul 20 13:06	12°☾37'41			2404 Feb 04 08:43	30°♁		
	2401 Aug 03 17:44	0°♁		evening set	2404 Feb 09 23:49	27°♁02'32		
morning set	2401 Aug 10 11:35	8°♁17'11		min. Earth dist.	2404 Feb 13 04:30	25°♁06'10	0.27140 AU	
	2401 Aug 28 02:09	0°♁		inferior conj	2404 Feb 14 00:22	24°♁35'24	8°07'43	
max. Earth dist.	2401 Sep 12 14:32	19°♁13'42	1.72623 AU	minimum elong	2404 Feb 13 16:20	24°♁47'51	8°06'40	
				morning rise	2404 Feb 17 09:05	22°♁32'06		
superior conj	2401 Sep 16 00:40	23°♁28'43	1°24'50	direct	2404 Mar 05 12:56	16°♁48'51		
minimum elong	2401 Sep 16 01:35	23°♁31'32	1°24'50	greatest brilliancy	2404 Mar 16 06:56	18°♁57'55	-4.6m	
	2401 Sep 21 06:36	0°♁			2404 Apr 03 16:10	0°♁		
	2401 Oct 15 08:37	0°♍		morning max el	2404 Apr 24 04:55	18°♁14'58	46°17'31	
evening rise	2401 Oct 23 19:34	10°♍32'52		desc. node	2404 Apr 25 21:31	19°♁54'44		
	2401 Nov 08 09:37	0°♁			2404 May 05 19:45	0°♁		
desc. node	2401 Nov 09 02:36	0°♁53'01			2404 Jun 02 09:53	0°♁		
	2401 Dec 02 10:29	0°☾			2404 Jun 28 15:06	0°♁		
	2401 Dec 26 12:06	0°♁			2404 Jul 24 03:31	0°☾		
	2402 Jan 19 16:37	0°♁		asc. node	2404 Aug 17 00:53	28°☾38'29		
	2402 Feb 13 04:24	0°♁			2404 Aug 18 03:51	0°♁		
asc. node	2402 Mar 02 05:44	20°♁29'13			2404 Sep 11 18:04	0°♁		
	2402 Mar 10 07:03	0°♁			2404 Oct 06 00:20	0°♁		
	2402 Apr 05 15:10	0°♁		morning set	2404 Oct 18 22:58	16°♁07'40		
evening max el	2402 Apr 28 15:03	23°♁58'34	45°42'47		2404 Oct 30 01:15	0°♍		
	2402 May 04 23:23	0°☾			2404 Nov 22 23:19	0°♁		
greatest brilliancy	2402 Jun 02 00:46	20°☾40'10	-4.5m	max. Earth dist.	2404 Nov 25 15:20	3°♁21'04	1.71295 AU	
retrograde	2402 Jun 16 13:38	24°☾22'53						
desc. node	2402 Jun 21 19:14	23°☾50'15		superior conj	2404 Nov 27 00:08	5°♁04'04	0°22'45	
evening set	2402 Jul 01 19:58	19°☾54'15		minimum elong	2404 Nov 27 05:45	5°♁21'43	0°22'29	
inferior conj	2402 Jul 08 02:23	16°☾08'51	-3°-43'-16	desc. node	2404 Dec 06 14:31	17°♁07'59		
minimum elong	2402 Jul 07 18:50	16°☾20'40	3°41'16		2404 Dec 16 20:10	0°☾		
min. Earth dist.	2402 Jul 07 23:12	16°☾13'50	0.28998 AU	evening rise	2405 Jan 07 03:25	26°☾46'37		
morning rise	2402 Jul 13 17:37	12°☾43'48			2405 Jan 09 17:00	0°♁		
direct	2402 Jul 29 16:52	7°☾51'33			2405 Feb 02 15:06	0°♁		
greatest brilliancy	2402 Aug 12 12:21	11°☾09'57	-4.5m		2405 Feb 26 16:33	0°♁		
	2402 Sep 08 03:32	0°♁			2405 Mar 23 00:11	0°♁		
morning max el	2402 Sep 16 17:35	7°♁59'54	45°58'16	asc. node	2405 Mar 29 17:41	8°♁13'19		
	2402 Oct 08 00:13	0°♁			2405 Apr 16 17:38	0°♁		
asc. node	2402 Oct 12 22:33	5°♁24'56			2405 May 12 02:01	0°☾		
	2402 Nov 03 10:43	0°♁			2405 Jun 07 11:34	0°♁		
	2402 Nov 28 12:44	0°♍			2405 Jul 06 04:06	0°♁		
	2402 Dec 22 23:22	0°♁		evening max el	2405 Jul 08 09:46	2°♁09'14	45°27'54	
	2403 Jan 16 02:59	0°☾		desc. node	2405 Jul 19 07:07	12°♁03'25		
desc. node	2403 Feb 01 12:02	20°☾25'59		greatest brilliancy	2405 Aug 14 00:52	29°♁12'06	-4.5m	
	2403 Feb 09 03:57	0°♁			2405 Aug 16 04:51	0°♁		
	2403 Mar 05 04:38	0°♁		retrograde	2405 Aug 26 00:40	1°♁43'43		
morning set	2403 Mar 22 16:25	21°♁47'58			2405 Sep 04 09:38	30°♁		
	2403 Mar 29 06:34	0°♁		evening set	2405 Sep 13 01:44	25°♁40'10		
	2403 Apr 22 10:48	0°♁		inferior conj	2405 Sep 16 06:04	23°♁43'22	-8°-42'00	
				minimum elong	2405 Sep 16 06:55	23°♁42'03	8°42'00	
superior conj	2403 Apr 30 11:22	9°♁55'36	0°-55'-21	min. Earth dist.	2405 Sep 16 21:07	23°♁20'04	0.28443 AU	
minimum elong	2403 Apr 30 21:13	10°♁26'00	0°54'59	morning rise	2405 Sep 19 11:56	21°♁44'01		
max. Earth dist.	2403 May 03 08:05	13°♁27'52	1.72925 AU	direct	2405 Oct 07 16:02	15°♁32'58		
	2403 May 16 17:46	0°♁		greatest brilliancy	2405 Oct 22 03:01	19°♁18'20	-4.6m	
asc. node	2403 May 25 15:30	10°♁58'01			2405 Nov 07 06:54	0°♁		
evening rise	2403 Jun 07 02:08	26°♁15'35		asc. node	2405 Nov 09 10:24	1°♁45'44		
	2403 Jun 10 03:15	0°☾		morning max el	2405 Nov 27 01:44	18°♁13'31	46°41'27	
	2403 Jul 04 14:56	0°♁			2405 Dec 08 07:38	0°♍		
	2403 Jul 29 05:10	0°♁			2406 Jan 03 20:46	0°♁		
	2403 Aug 22 23:18	0°♁			2406 Jan 29 01:53	0°☾		
desc. node	2403 Sep 14 04:44	26°♁40'50			2406 Feb 22 18:21	0°♁		

desc. node	2406 Feb 28 23:53	7°♊37'17		evening max el	2408 Sep 18 22:53	12°♌51'56	46°19'46
	2406 Mar 19 05:45	0°♋			2408 Oct 08 06:53	0°♌	
	2406 Apr 12 15:36	0°♌		greatest brilliancy	2408 Oct 27 20:05	11°♌48'45	-4.6m
	2406 May 07 01:36	0°♍		retrograde	2408 Nov 07 12:40	13°♌55'02	
	2406 May 31 12:13	0°♎		evening set	2408 Nov 22 07:10	9°♌41'14	
morning set	2406 Jun 01 10:29	1°♎08'19		inferior conj	2408 Nov 28 03:55	6°♌16'02	-2°-14'-42
asc. node	2406 Jun 22 03:17	26°♎32'30		minimum elong	2408 Nov 28 08:58	6°♌08'21	2°13'08
	2406 Jun 24 22:53	0°♏		min. Earth dist.	2408 Nov 28 15:00	5°♌59'10	0.26639 AU
max. Earth dist.	2406 Jul 07 03:12	14°♏57'39	1.73565 AU	morning rise	2408 Dec 04 10:09	2°♌36'49	
				asc. node	2408 Dec 06 22:10	1°♌22'01	
superior conj	2406 Jul 08 04:05	16°♏14'06	0°36'56		2408 Dec 10 07:26	30°♌	
minimum elong	2406 Jul 07 21:13	15°♏52'58	0°36'38	direct	2408 Dec 18 16:23	28°♌33'30	
	2406 Jul 19 08:41	0°♐			2408 Dec 27 08:39	0°♌	
	2406 Aug 12 17:13	0°♑		greatest brilliancy	2408 Dec 31 13:27	1°♌37'31	-4.7m
evening rise	2406 Aug 13 00:26	0°♑22'15			2409 Feb 05 13:32	0°♍	
	2406 Sep 06 01:05	0°♒		morning max el	2409 Feb 07 06:30	1°♍43'00	46°55'56
	2406 Sep 30 09:23	0°♓			2409 Mar 05 13:40	0°♎	
desc. node	2406 Oct 11 16:47	13°♓54'39		desc. node	2409 Mar 28 11:50	26°♎18'33	
	2406 Oct 24 19:09	0°♈			2409 Mar 31 15:39	0°♏	
	2406 Nov 18 07:30	0°♉			2409 Apr 26 00:25	0°♐	
	2406 Dec 13 01:02	0°♊			2409 May 21 01:32	0°♑	
	2407 Jan 07 07:04	0°♋			2409 Jun 14 22:28	0°♒	
asc. node	2407 Feb 01 19:51	28°♋52'03			2409 Jul 09 15:46	0°♓	
	2407 Feb 02 21:00	0°♌		asc. node	2409 Jul 19 15:02	12°♓09'41	
evening max el	2407 Feb 14 08:23	12°♌00'36	46°49'10		2409 Aug 03 04:45	0°♈	
	2407 Mar 05 20:36	0°♍		morning set	2409 Aug 08 05:01	6°♈09'21	
greatest brilliancy	2407 Mar 22 13:10	11°♍04'17	-4.6m		2409 Aug 27 13:06	0°♉	
retrograde	2407 Apr 05 16:24	14°♍40'43		max. Earth dist.	2409 Sep 10 09:28	17°♉09'24	1.72672 AU
evening set	2407 Apr 22 05:18	9°♍20'21					
inferior conj	2407 Apr 26 21:25	6°♍27'12	6°00'10	superior conj	2409 Sep 13 17:31	21°♉17'50	1°24'56
minimum elong	2407 Apr 27 07:19	6°♍11'35	5°58'00	minimum elong	2409 Sep 13 17:41	21°♉18'21	1°24'56
min. Earth dist.	2407 Apr 26 19:48	6°♍29'44	0.28421 AU		2409 Sep 20 17:36	0°♊	
morning rise	2407 May 02 09:44	3°♍05'55			2409 Oct 14 19:45	0°♋	
	2407 May 08 23:03	30°♌		evening rise	2409 Oct 21 09:37	8°♌12'11	
direct	2407 May 18 03:33	28°♌19'09			2409 Nov 07 20:55	0°♌	
desc. node	2407 May 24 09:21	29°♌03'07		desc. node	2409 Nov 08 04:43	0°♌24'21	
	2407 May 27 17:26	0°♍			2409 Dec 01 21:57	0°♍	
greatest brilliancy	2407 May 30 03:57	0°♍54'32	-4.5m		2409 Dec 25 23:49	0°♎	
morning max el	2407 Jul 05 22:50	28°♍14'03	45°44'30		2410 Jan 19 04:42	0°♏	
	2407 Jul 07 18:57	0°♎			2410 Feb 12 17:08	0°♐	
	2407 Aug 05 15:51	0°♏		asc. node	2410 Mar 01 07:45	19°♐55'21	
	2407 Sep 01 05:16	0°♐			2410 Mar 09 21:00	0°♑	
asc. node	2407 Sep 14 12:45	15°♐35'25			2410 Apr 05 07:50	0°♒	
	2407 Sep 26 14:54	0°♑		evening max el	2410 Apr 26 06:28	21°♒45'16	45°44'31
	2407 Oct 21 07:09	0°♒			2410 May 05 01:10	0°♓	
	2407 Nov 14 12:36	0°♓		greatest brilliancy	2410 May 30 15:06	18°♓27'55	-4.5m
	2407 Dec 08 12:13	0°♈		retrograde	2410 Jun 14 06:31	22°♓13'34	
	2408 Jan 01 09:19	0°♉		desc. node	2410 Jun 20 21:12	21°♓21'07	
morning set	2408 Jan 02 09:08	1°♉14'53		evening set	2410 Jun 29 11:11	17°♓46'00	
desc. node	2408 Jan 04 02:13	3°♉24'03		inferior conj	2410 Jul 05 18:42	13°♓59'09	-3°-25'-9
	2408 Jan 25 05:52	0°♊		minimum elong	2410 Jul 05 11:39	14°♓10'09	3°23'16
				min. Earth dist.	2410 Jul 05 15:16	14°♓04'30	0.28992 AU
superior conj	2408 Feb 13 02:23	23°♊41'18	-1°-17'-24	morning rise	2410 Jul 11 12:07	10°♓31'21	
minimum elong	2408 Feb 12 16:51	23°♊11'22	1°17'12	direct	2410 Jul 27 09:05	5°♓41'49	
max. Earth dist.	2408 Feb 16 08:37	27°♊46'39	1.71387 AU	greatest brilliancy	2410 Aug 10 04:41	9°♓00'41	-4.5m
	2408 Feb 18 03:09	0°♋			2410 Sep 08 05:29	0°♈	
	2408 Mar 13 02:34	0°♌		morning max el	2410 Sep 14 09:52	5°♈49'08	45°57'04
evening rise	2408 Mar 24 14:14	14°♌18'29			2410 Oct 07 16:56	0°♉	
	2408 Apr 06 05:40	0°♍		asc. node	2410 Oct 12 00:43	4°♉46'24	
asc. node	2408 Apr 26 05:41	24°♍40'18			2410 Nov 03 00:43	0°♊	
	2408 Apr 30 13:49	0°♎			2410 Nov 28 01:32	0°♋	
	2408 May 25 04:05	0°♏			2410 Dec 22 11:31	0°♌	
	2408 Jun 19 01:57	0°♐			2411 Jan 15 14:44	0°♍	
	2408 Jul 14 10:41	0°♑		desc. node	2411 Jan 31 14:04	19°♍56'16	
	2408 Aug 09 13:28	0°♒			2411 Feb 08 15:24	0°♎	
desc. node	2408 Aug 15 18:50	6°♒57'17			2411 Mar 04 15:53	0°♏	
	2408 Sep 06 03:53	0°♓		morning set	2411 Mar 20 05:14	19°♏23'45	

	2411 Mar 28 17:40	0°♃		minimum elong	2413 Sep 13 21:11	21°♎28'41	8°41'57
	2411 Apr 21 21:48	0°♄		min. Earth dist.	2413 Sep 14 11:25	21°♎06'35	0.28495 AU
superior conj	2411 Apr 28 02:47	7°♄40'56	0°-57'-57	morning rise	2413 Sep 17 02:14	19°♎30'16	
minimum elong	2411 Apr 28 12:48	8°♄11'54	0°57'36	direct	2413 Oct 05 07:33	13°♎17'48	
max. Earth dist.	2411 May 01 01:36	11°♄19'49	1.72884 AU	greatest brilliancy	2413 Oct 19 17:43	17°♎01'16	-4.6m
	2411 May 16 04:44	0°♅		asc. node	2413 Nov 07 16:45	0°♌	
asc. node	2411 May 24 17:30	10°♅30'24		morning max el	2413 Nov 08 12:21	0°♌41'35	
evening rise	2411 Jun 04 19:46	24°♅08'43			2413 Nov 24 15:26	15°♌50'55	46°40'00
	2411 Jun 09 14:15	0°♆			2413 Dec 08 02:16	0°♍	
	2411 Jul 04 02:06	0°♇			2414 Jan 03 11:43	0°♎	
	2411 Jul 28 16:40	0°♈			2414 Jan 28 15:14	0°♏	
	2411 Aug 22 11:21	0°♉		desc. node	2414 Feb 22 06:49	0°♐	
desc. node	2411 Sep 13 06:52	26°♉09'04			2414 Feb 28 01:59	7°♐06'03	
	2411 Sep 16 12:26	0°♊			2414 Mar 18 17:38	0°♑	
	2411 Oct 11 23:30	0°♋			2414 Apr 12 03:01	0°♒	
	2411 Oct 11 23:30	0°♋			2414 May 06 12:40	0°♓	
evening max el	2411 Nov 07 04:57	0°♌		morning set	2414 May 30 04:09	29°♓02'01	
	2411 Dec 01 23:28	26°♌33'27	47°15'09		2414 May 30 23:03	0°♈	
	2411 Dec 05 10:02	0°♍		asc. node	2414 Jun 21 05:16	26°♈05'41	
asc. node	2412 Jan 04 10:05	24°♍39'08			2414 Jun 24 09:36	0°♉	
greatest brilliancy	2412 Jan 09 07:44	27°♍09'02	-4.7m	max. Earth dist.	2414 Jul 04 23:41	13°♉00'14	1.73571 AU
	2412 Jan 19 14:10	0°♊					
retrograde	2412 Jan 21 20:49	0°♊06'21		superior conj	2414 Jul 05 22:36	14°♉10'39	0°34'05
	2412 Jan 24 02:53	30°♊06'21		minimum elong	2414 Jul 05 16:09	13°♉50'50	0°33'48
evening set	2412 Feb 07 09:16	24°♊42'23			2414 Jul 18 19:24	0°♊	
min. Earth dist.	2412 Feb 10 17:03	22°♊41'30	0.27083 AU	evening rise	2414 Aug 10 19:04	28°♊18'21	
inferior conj	2412 Feb 11 13:36	22°♊09'44	7°57'56		2414 Aug 12 04:03	0°♋	
minimum elong	2412 Feb 11 05:00	22°♊23'02	7°56'42		2414 Sep 05 12:08	0°♌	
morning rise	2412 Feb 15 01:03	20°♊02'41			2414 Sep 29 20:45	0°♍	
direct	2412 Mar 03 02:20	14°♊24'17		desc. node	2414 Oct 10 18:50	13°♍25'23	
greatest brilliancy	2412 Mar 13 18:38	16°♊32'25	-4.6m		2414 Oct 24 06:59	0°♎	
	2412 Apr 04 05:16	0°♋			2414 Nov 17 19:57	0°♏	
morning max el	2412 Apr 21 19:22	15°♋56'27	46°19'02		2414 Dec 12 14:26	0°♐	
desc. node	2412 Apr 24 23:40	19°♋04'59			2415 Jan 06 22:06	0°♑	
	2412 May 05 14:54	0°♄		asc. node	2415 Jan 31 21:56	28°♑07'33	
	2412 Jun 02 00:47	0°♅			2415 Feb 02 15:53	0°♒	
	2412 Jun 28 04:09	0°♆		evening max el	2415 Feb 11 22:21	9°♒39'12	46°51'14
	2412 Jul 23 15:35	0°♇			2415 Mar 06 08:58	0°♓	
asc. node	2412 Aug 16 02:57	28°♇09'51		greatest brilliancy	2415 Mar 20 07:23	8°♓52'29	-4.6m
	2412 Aug 17 15:21	0°♈		retrograde	2415 Apr 03 07:52	12°♓26'31	
	2412 Sep 11 05:17	0°♉		evening set	2415 Apr 19 23:56	7°♓02'14	
	2412 Oct 05 11:25	0°♊		inferior conj	2415 Apr 24 13:06	4°♓13'28	6°15'14
morning set	2412 Oct 16 13:48	13°♊49'43		minimum elong	2415 Apr 24 23:03	3°♓57'46	6°13'09
	2412 Oct 29 12:19	0°♋		min. Earth dist.	2415 Apr 24 11:32	4°♓15'57	0.28387 AU
	2412 Nov 22 10:25	0°♌		morning rise	2415 Apr 29 22:29	0°♓56'05	
max. Earth dist.	2412 Nov 22 22:52	0°♌39'05	1.71325 AU		2415 May 01 15:21	30°♓♃	
				direct	2415 May 15 18:14	26°♓05'59	
superior conj	2412 Nov 24 11:41	2°♌34'43	0°26'26	desc. node	2415 May 23 11:15	27°♓12'04	
minimum elong	2412 Nov 24 18:05	2°♌54'49	0°26'07	greatest brilliancy	2415 May 27 17:47	28°♓40'02	-4.5m
desc. node	2412 Dec 05 16:28	16°♌39'02			2415 May 30 17:26	0°♔	
	2412 Dec 16 07:21	0°♕		morning max el	2415 Jul 03 13:14	26°♔00'05	45°45'03
evening rise	2413 Jan 04 13:34	24°♕12'21			2415 Jul 07 16:20	0°♕	
	2413 Jan 09 04:15	0°♖			2415 Aug 05 07:07	0°♆	
	2413 Feb 02 02:26	0°♗			2415 Aug 31 18:20	0°♇	
	2413 Feb 26 03:59	0°♘		asc. node	2415 Sep 13 14:55	15°♇05'04	
	2413 Mar 22 11:52	0°♙			2415 Sep 26 02:57	0°♈	
asc. node	2413 Mar 28 19:50	7°♙43'58			2415 Oct 20 18:41	0°♉	
	2413 Apr 16 05:49	0°♚			2415 Nov 13 23:53	0°♊	
	2413 May 11 15:16	0°♛			2415 Dec 07 23:22	0°♋	
	2413 Jun 07 03:10	0°♜		morning set	2415 Dec 30 19:10	28°♋40'39	
evening max el	2413 Jul 06 00:57	29°♜56'30	45°27'00		2415 Dec 31 20:24	0°♌	
	2413 Jul 06 02:25	0°♝		desc. node	2416 Jan 03 04:16	2°♌55'42	
desc. node	2413 Jul 18 09:07	11°♝04'49			2416 Jan 24 16:52	0°♍	
greatest brilliancy	2413 Aug 11 14:21	26°♝57'16	-4.5m				
retrograde	2413 Aug 23 14:52	29°♝29'36		superior conj	2416 Feb 10 12:43	21°♞08'42	-1°-15'-34
evening set	2413 Sep 10 15:59	23°♞27'04		minimum elong	2416 Feb 10 02:32	20°♞36'44	1°15'21
inferior conj	2413 Sep 13 21:10	21°♞28'43	-8°-41'-56	max. Earth dist.	2416 Feb 13 12:33	24°♞54'05	1.71350 AU

	2416 Feb 17 14:06	0°♁			2418 Sep 08 05:31	0°♁	
	2416 Mar 12 13:30	0°♁		morning max el	2418 Sep 12 02:27	3°♁40'43	45°55'59
evening rise	2416 Mar 22 02:20	11°♁52'45			2418 Oct 07 08:50	0°♁	
	2416 Apr 05 16:38	0°♁		asc. node	2418 Oct 11 02:41	4°♁09'07	
asc. node	2416 Apr 25 07:41	24°♁12'31			2418 Nov 02 14:07	0°♁	
	2416 Apr 30 00:54	0°♁			2418 Nov 27 13:51	0°♁	
	2416 May 24 15:25	0°♁			2418 Dec 21 23:17	0°♁	
	2416 Jun 18 13:47	0°♁			2419 Jan 15 02:09	0°♁	
	2416 Jul 13 23:30	0°♁		desc. node	2419 Jan 30 16:13	19°♁27'45	
	2416 Aug 09 04:15	0°♁			2419 Feb 08 02:36	0°♁	
desc. node	2416 Aug 14 20:59	6°♁20'20			2419 Mar 04 02:53	0°♁	
	2416 Sep 05 23:21	0°♁		morning set	2419 Mar 17 17:28	16°♁58'20	
evening max el	2416 Sep 16 11:20	10°♁29'09	46°17'16		2419 Mar 28 04:30	0°♁	
	2416 Oct 08 23:29	0°♁			2419 Apr 21 08:31	0°♁	
greatest brilliancy	2416 Oct 25 08:34	9°♁22'53	-4.6m				
retrograde	2416 Nov 05 00:51	11°♁29'00		superior conj	2419 Apr 25 17:42	5°♁25'32	-1°00'-29
evening set	2416 Nov 19 21:34	7°♁11'46		minimum elong	2419 Apr 26 03:51	5°♁56'55	1°00'09
inferior conj	2416 Nov 25 16:21	3°♁49'32	-2°-37'-57	max. Earth dist.	2419 Apr 28 20:29	9°♁16'49	1.72836 AU
minimum elong	2416 Nov 25 22:12	3°♁40'38	2°36'08		2419 May 15 15:22	0°♁	
min. Earth dist.	2416 Nov 26 04:55	3°♁30'27	0.26685 AU	asc. node	2419 May 23 19:29	10°♁03'43	
morning rise	2416 Dec 01 22:12	0°♁		evening rise	2419 Jun 02 13:12	22°♁02'05	
	2416 Dec 02 06:32	30°♁			2419 Jun 09 00:56	0°♁	
asc. node	2416 Dec 06 00:11	28°♁14'27			2419 Jul 03 12:57	0°♁	
direct	2416 Dec 16 05:15	26°♁05'53			2419 Jul 28 03:50	0°♁	
greatest brilliancy	2416 Dec 29 05:49	29°♁14'10	-4.7m		2419 Aug 21 23:03	0°♁	
	2416 Dec 30 20:20	0°♁		desc. node	2419 Sep 12 08:57	25°♁38'20	
morning max el	2417 Feb 04 20:34	29°♁19'13	46°56'33		2419 Sep 16 00:59	0°♁	
	2417 Feb 05 12:39	0°♁			2419 Oct 11 13:29	0°♁	
	2417 Mar 05 06:08	0°♁			2419 Nov 06 21:45	0°♁	
desc. node	2417 Mar 27 13:59	25°♁43'32		evening max el	2419 Nov 29 14:34	24°♁13'05	47°14'11
	2417 Mar 31 05:33	0°♁			2419 Dec 05 10:39	0°♁	
	2417 Apr 25 12:59	0°♁		asc. node	2420 Jan 03 12:10	23°♁03'58	
	2417 May 20 13:18	0°♁		greatest brilliancy	2420 Jan 06 22:40	24°♁44'42	-4.7m
	2417 Jun 14 09:42	0°♁		retrograde	2420 Jan 19 10:39	27°♁39'58	
	2417 Jul 09 02:38	0°♁		evening set	2420 Feb 04 18:28	22°♁22'42	
asc. node	2417 Jul 18 17:12	11°♁43'24		min. Earth dist.	2420 Feb 08 05:49	20°♁16'30	0.27032 AU
	2417 Aug 02 15:24	0°♁		inferior conj	2420 Feb 09 02:39	19°♁44'15	7°47'06
morning set	2417 Aug 05 23:00	4°♁04'24		minimum elong	2420 Feb 08 17:33	19°♁58'21	7°45'41
	2417 Aug 26 23:41	0°♁		morning rise	2420 Feb 12 17:00	17°♁32'59	
max. Earth dist.	2417 Sep 08 06:01	15°♁11'21	1.72719 AU	direct	2420 Feb 29 15:32	11°♁59'54	
				greatest brilliancy	2420 Mar 11 06:34	14°♁07'01	-4.6m
superior conj	2417 Sep 11 10:53	19°♁09'50	1°24'53		2420 Apr 04 14:54	0°♁	
minimum elong	2417 Sep 11 10:20	19°♁08'06	1°24'53	morning max el	2420 Apr 19 08:56	13°♁35'53	46°20'32
	2417 Sep 20 04:14	0°♁		desc. node	2420 Apr 24 01:35	18°♁15'53	
	2417 Oct 14 06:32	0°♁			2420 May 05 09:23	0°♁	
evening rise	2417 Oct 19 00:08	5°♁54'06			2420 Jun 01 15:17	0°♁	
desc. node	2417 Nov 07 06:42	29°♁56'13			2420 Jun 27 16:51	0°♁	
	2417 Nov 07 07:55	0°♁			2420 Jul 23 03:18	0°♁	
	2417 Dec 01 09:11	0°♁		asc. node	2420 Aug 15 05:01	27°♁42'12	
	2417 Dec 25 11:20	0°♁			2420 Aug 17 02:32	0°♁	
	2418 Jan 18 16:38	0°♁			2420 Sep 10 16:11	0°♁	
	2418 Feb 12 05:42	0°♁			2420 Oct 04 22:11	0°♁	
asc. node	2418 Feb 28 09:54	19°♁22'24		morning set	2420 Oct 14 05:05	11°♁34'09	
	2418 Mar 09 10:48	0°♁			2420 Oct 28 23:03	0°♁	
	2418 Apr 05 00:29	0°♁		max. Earth dist.	2420 Nov 20 05:47	27°♁56'25	1.71355 AU
evening max el	2418 Apr 23 22:43	19°♁35'00	45°46'24				
	2418 May 05 03:57	0°♁		superior conj	2420 Nov 21 23:57	0°♁08'46	0°29'59
greatest brilliancy	2418 May 28 06:26	16°♁18'13	-4.5m	minimum elong	2420 Nov 22 07:04	0°♁31'06	0°29'39
retrograde	2418 Jun 11 23:40	20°♁05'30			2420 Nov 21 21:09	0°♁	
desc. node	2418 Jun 19 23:18	18°♁48'49		desc. node	2420 Dec 04 18:33	16°♁11'40	
evening set	2418 Jun 27 02:44	15°♁39'04			2420 Dec 15 18:09	0°♁	
inferior conj	2418 Jul 03 11:07	11°♁50'47	-3°-6'-50	evening rise	2421 Jan 02 00:07	21°♁40'30	
minimum elong	2418 Jul 03 04:36	12°♁00'57	3°05'04		2421 Jan 08 15:09	0°♁	
min. Earth dist.	2418 Jul 03 07:18	11°♁56'44	0.28980 AU		2421 Feb 01 13:28	0°♁	
morning rise	2418 Jul 09 06:35	8°♁20'23			2421 Feb 25 15:12	0°♁	
direct	2418 Jul 25 01:48	3°♁33'40			2421 Mar 21 23:23	0°♁	
greatest brilliancy	2418 Aug 07 19:59	6°♁51'39	-4.5m	asc. node	2421 Mar 27 21:47	7°♁14'25	



	2421 Apr 15 17:55	0°♁		2423 Nov 13 11:07	0°♁
	2421 May 11 04:29	0°♁		2423 Dec 07 10:29	0°♁
	2421 Jun 06 18:52	0°♁	morning set	2423 Dec 28 05:23	26°♁07'04
evening max el	2421 Jul 03 15:16	27°♁42'11 45°26'21		2423 Dec 31 07:27	0°♁
	2421 Jul 06 01:29	0°♁	desc. node	2424 Jan 02 06:23	2°♁27'36
desc. node	2421 Jul 17 11:14	10°♁05'47		2424 Jan 24 03:52	0°♁
greatest brilliancy	2421 Aug 09 03:37	24°♁42'59 -4.5m			
retrograde	2421 Aug 21 04:59	27°♁16'42	superior conj	2424 Feb 07 23:12	18°♁36'34 -1°-13'-35
evening set	2421 Sep 08 05:56	21°♁15'30	minimum elong	2424 Feb 07 12:27	18°♁02'49 1°13'19
inferior conj	2421 Sep 11 12:22	19°♁15'15 -8°-41'-7	max. Earth dist.	2424 Feb 10 16:32	22°♁01'41 1.71312 AU
minimum elong	2421 Sep 11 11:32	19°♁16'32 8°41'08		2424 Feb 17 01:01	0°♁
min. Earth dist.	2421 Sep 12 02:07	18°♁53'52 0.28541 AU		2424 Mar 12 00:23	0°♁
morning rise	2421 Sep 14 16:58	17°♁17'15	evening rise	2424 Mar 19 14:40	9°♁27'54
direct	2421 Oct 02 22:42	11°♁03'35		2424 Apr 05 03:34	0°♁
greatest brilliancy	2421 Oct 17 09:13	14°♁46'17 -4.6m	asc. node	2424 Apr 24 09:42	23°♁44'51
asc. node	2421 Nov 07 14:22	29°♁39'59		2424 Apr 29 11:59	0°♁
	2421 Nov 07 23:33	0°♁		2424 May 24 02:48	0°♁
morning max el	2421 Nov 22 05:02	13°♁29'01 46°38'46		2424 Jun 18 01:46	0°♁
	2421 Dec 07 20:05	0°♁		2424 Jul 13 12:34	0°♁
	2422 Jan 03 02:09	0°♁		2424 Aug 08 19:26	0°♁
	2422 Jan 28 04:10	0°♁	desc. node	2424 Aug 13 23:01	5°♁42'16
	2422 Feb 21 18:55	0°♁		2424 Sep 05 19:39	0°♁
desc. node	2422 Feb 27 04:02	6°♁35'43	evening max el	2424 Sep 14 00:42	8°♁08'27 46°14'59
	2422 Mar 18 05:12	0°♁		2424 Oct 09 22:02	0°♁
	2422 Apr 11 14:13	0°♁	greatest brilliancy	2424 Oct 22 20:16	6°♁56'13 -4.6m
	2422 May 05 23:36	0°♁	retrograde	2424 Nov 02 13:30	9°♁02'51
morning set	2422 May 27 21:20	26°♁54'26	evening set	2424 Nov 17 12:09	4°♁42'05
	2422 May 30 09:48	0°♁	inferior conj	2424 Nov 23 04:46	1°♁22'45 -3°00'-44
asc. node	2422 Jun 20 07:25	25°♁39'32	minimum elong	2424 Nov 23 11:23	1°♁12'43 2°58'45
	2422 Jun 23 20:14	0°♁	min. Earth dist.	2424 Nov 23 18:24	1°♁02'03 0.26731 AU
max. Earth dist.	2422 Jul 02 18:47	10°♁58'51 1.73574 AU		2424 Nov 25 11:33	30°♁
			morning rise	2424 Nov 29 10:00	27°♁45'22
superior conj	2422 Jul 03 16:41	12°♁06'10 0°31'10	asc. node	2424 Dec 05 02:21	25°♁11'44
minimum elong	2422 Jul 03 10:42	11°♁47'45 0°30'53	direct	2424 Dec 13 18:38	23°♁38'12
	2422 Jul 18 06:02	0°♁	greatest brilliancy	2424 Dec 26 21:14	26°♁49'29 -4.7m
evening rise	2422 Aug 08 13:26	26°♁14'06		2425 Jan 01 19:43	0°♁
	2422 Aug 11 14:47	0°♁	morning max el	2425 Feb 02 11:30	26°♁57'23 46°57'04
	2422 Sep 04 23:04	0°♁		2425 Feb 05 10:57	0°♁
	2422 Sep 29 08:02	0°♁	desc. node	2425 Mar 04 22:23	0°♁
desc. node	2422 Oct 09 20:47	12°♁56'08		2425 Mar 26 15:52	25°♁07'43
	2422 Oct 23 18:44	0°♁		2425 Mar 30 19:23	0°♁
	2422 Nov 17 08:20	0°♁		2425 Apr 25 01:33	0°♁
	2422 Dec 12 03:44	0°♁		2425 May 20 01:06	0°♁
	2423 Jan 06 13:06	0°♁		2425 Jun 13 21:01	0°♁
asc. node	2423 Jan 31 00:03	27°♁23'17		2425 Jul 08 13:39	0°♁
	2423 Feb 02 11:00	0°♁	asc. node	2425 Jul 17 19:14	11°♁16'10
evening max el	2423 Feb 09 11:48	7°♁17'07 46°53'17		2425 Aug 02 02:15	0°♁
	2423 Mar 07 01:12	0°♁	morning set	2425 Aug 03 16:46	1°♁58'14
greatest brilliancy	2423 Mar 18 00:13	6°♁39'11 -4.6m		2425 Aug 26 10:30	0°♁
retrograde	2423 Mar 31 23:22	10°♁12'36	max. Earth dist.	2425 Sep 06 00:15	13°♁05'24 1.72765 AU
evening set	2423 Apr 17 18:29	4°♁43'59			
inferior conj	2423 Apr 22 04:43	1°♁59'45 6°29'43	superior conj	2425 Sep 09 03:58	17°♁00'12 1°24'42
minimum elong	2423 Apr 22 14:38	1°♁44'06 6°27'43	minimum elong	2425 Sep 09 02:42	16°♁56'17 1°24'43
min. Earth dist.	2423 Apr 22 03:07	2°♁02'17 0.28362 AU		2425 Sep 19 15:07	0°♁
	2423 Apr 25 09:31	30°♁		2425 Oct 13 17:33	0°♁
morning rise	2423 Apr 27 11:04	28°♁46'38	evening rise	2425 Oct 16 14:21	3°♁34'22
direct	2423 May 13 08:42	23°♁52'30	desc. node	2425 Nov 06 08:45	29°♁27'42
desc. node	2423 May 22 13:23	25°♁25'11		2425 Nov 06 19:07	0°♁
greatest brilliancy	2423 May 25 08:24	26°♁26'19 -4.5m		2425 Nov 30 20:38	0°♁
	2423 Jun 01 12:17	0°♁		2425 Dec 24 23:05	0°♁
morning max el	2423 Jul 01 04:22	23°♁47'37 45°45'34		2426 Jan 18 04:48	0°♁
	2423 Jul 07 13:03	0°♁		2426 Feb 11 18:33	0°♁
	2423 Aug 04 22:16	0°♁	asc. node	2426 Feb 27 11:50	18°♁48'05
	2423 Aug 31 07:22	0°♁		2426 Mar 09 00:57	0°♁
asc. node	2423 Sep 12 16:53	14°♁34'06		2426 Apr 04 17:40	0°♁
	2423 Sep 25 14:58	0°♁	evening max el	2426 Apr 21 15:30	17°♁25'28 45°48'20
	2423 Oct 20 06:10	0°♁		2426 May 05 08:41	0°♁

greatest brilliancy	2426 May 25 22:40	14°☿09'14	-4.5m	minimum elong	2428 Nov 19 19:45	28°♁05'11	0°33'10
retrograde	2426 Jun 09 16:35	17°♁56'46			2428 Nov 21 08:20	0°♁	
desc. node	2426 Jun 19 01:21	16°♁11'30		desc. node	2428 Dec 03 20:41	15°♁43'04	
evening set	2426 Jun 24 18:31	13°♁31'30			2428 Dec 15 05:25	0°♁	
inferior conj	2426 Jul 01 03:32	9°♁41'52	-2°-48'-22	evening rise	2428 Dec 30 10:13	19°♁05'52	
minimum elong	2426 Jun 30 21:37	9°♁51'09	2°46'43		2429 Jan 08 02:31	0°♁	
min. Earth dist.	2426 Jun 30 23:24	9°♁48'21	0.28969 AU		2429 Feb 01 00:55	0°♁	
morning rise	2426 Jul 07 00:55	6°♁08'51			2429 Feb 25 02:48	0°♁	
direct	2426 Jul 22 18:41	1°♁25'05			2429 Mar 21 11:16	0°♁	
greatest brilliancy	2426 Aug 05 10:12	4°♁40'33	-4.5m	asc. node	2429 Mar 26 23:50	6°♁44'08	
	2426 Sep 08 04:54	0°♁			2429 Apr 15 06:24	0°♁	
morning max el	2426 Sep 09 18:36	1°♁30'20	45°54'41		2429 May 10 18:10	0°♁	
	2426 Oct 07 00:54	0°♁			2429 Jun 06 11:10	0°♁	
asc. node	2426 Oct 10 04:43	3°♁31'09		evening max el	2429 Jul 01 05:22	25°♁26'40	45°25'54
	2426 Nov 02 03:49	0°♁			2429 Jul 06 01:57	0°♁	
	2426 Nov 27 02:29	0°♁		desc. node	2429 Jul 16 13:16	9°♁04'26	
	2426 Dec 21 11:19	0°♁		greatest brilliancy	2429 Aug 06 15:50	22°♁27'10	-4.5m
	2427 Jan 14 13:50	0°♁		retrograde	2429 Aug 18 19:29	25°♁03'56	
desc. node	2427 Jan 29 18:11	18°♁57'54		evening set	2429 Sep 05 19:41	19°♁04'17	
	2427 Feb 07 14:02	0°♁		inferior conj	2429 Sep 09 03:47	17°♁01'41	-8°-39'-28
	2427 Mar 03 14:09	0°♁		minimum elong	2429 Sep 09 02:07	17°♁04'16	8°39'27
morning set	2427 Mar 15 05:36	14°♁31'44		min. Earth dist.	2429 Sep 09 16:57	16°♁41'12	0.28590 AU
	2427 Mar 27 15:38	0°♁		morning rise	2429 Sep 12 08:20	15°♁03'43	
	2427 Apr 20 19:31	0°♁		direct	2429 Sep 30 14:00	8°♁49'09	
superior conj	2427 Apr 23 08:38	3°♁09'11	-1°-2'-56	greatest brilliancy	2429 Oct 15 01:50	12°♁32'30	-4.6m
minimum elong	2427 Apr 23 18:50	3°♁40'46	1°02'36	asc. node	2429 Nov 06 16:33	28°♁39'30	
max. Earth dist.	2427 Apr 26 15:50	7°♁14'14	1.72785 AU	morning max el	2429 Nov 08 04:33	0°♁	
	2427 May 15 02:18	0°♁			2429 Nov 19 19:13	11°♁07'46	46°37'17
asc. node	2427 May 22 21:39	9°♁36'44			2429 Dec 07 13:54	0°♁	
evening rise	2427 May 31 06:37	19°♁54'34			2430 Jan 02 16:52	0°♁	
	2427 Jun 08 11:53	0°♁			2430 Jan 27 17:29	0°♁	
	2427 Jul 03 00:05	0°♁		desc. node	2430 Feb 21 07:25	0°♁	
	2427 Jul 27 15:20	0°♁			2430 Feb 26 06:02	6°♁03'59	
	2427 Aug 21 11:10	0°♁			2430 Mar 17 17:08	0°♁	
desc. node	2427 Sep 11 10:51	25°♁05'46			2430 Apr 11 01:44	0°♁	
	2427 Sep 15 14:03	0°♁			2430 May 05 10:48	0°♁	
	2427 Oct 11 04:07	0°♁		morning set	2430 May 25 14:26	24°♁45'44	
	2427 Nov 06 15:27	0°♁			2430 May 29 20:48	0°♁	
evening max el	2427 Nov 27 05:08	21°♁49'53	47°13'13	asc. node	2430 Jun 19 09:25	25°♁12'10	
	2427 Dec 05 13:11	0°♁			2430 Jun 23 07:09	0°♁	
asc. node	2428 Jan 02 14:13	21°♁23'42		max. Earth dist.	2430 Jun 30 14:41	8°♁59'10	1.73576 AU
greatest brilliancy	2428 Jan 04 14:23	22°♁19'52	-4.7m	superior conj	2430 Jul 01 10:55	10°♁01'17	0°28'13
retrograde	2428 Jan 16 23:58	25°♁12'00		minimum elong	2430 Jul 01 05:24	9°♁44'21	0°27'57
evening set	2428 Feb 02 03:39	20°♁01'38			2430 Jul 17 16:56	0°♁	
min. Earth dist.	2428 Feb 05 18:57	17°♁49'37	0.26978 AU	evening rise	2430 Aug 06 08:10	24°♁10'16	
inferior conj	2428 Feb 06 15:39	17°♁17'32	7°35'28		2430 Aug 11 01:46	0°♁	
minimum elong	2428 Feb 06 06:07	17°♁32'19	7°33'51		2430 Sep 04 10:15	0°♁	
morning rise	2428 Feb 10 08:58	15°♁01'48			2430 Sep 28 19:33	0°♁	
direct	2428 Feb 27 04:09	9°♁34'13		desc. node	2430 Oct 08 22:56	12°♁26'50	
greatest brilliancy	2428 Mar 08 19:07	11°♁40'57	-4.6m		2430 Oct 23 06:45	0°♁	
	2428 Apr 04 22:20	0°♁			2430 Nov 16 21:02	0°♁	
morning max el	2428 Apr 16 21:37	11°♁11'56	46°22'04		2430 Dec 11 17:28	0°♁	
desc. node	2428 Apr 23 03:43	17°♁27'12			2431 Jan 06 04:42	0°♁	
	2428 May 05 03:45	0°♁		asc. node	2431 Jan 30 01:59	26°♁36'33	
	2428 Jun 01 05:57	0°♁			2431 Feb 02 07:12	0°♁	
	2428 Jun 27 05:47	0°♁		evening max el	2431 Feb 07 01:50	4°♁55'03	46°55'20
	2428 Jul 22 15:18	0°♁			2431 Mar 08 00:10	0°♁	
asc. node	2428 Aug 14 07:02	27°♁13'29		greatest brilliancy	2431 Mar 15 16:10	4°♁23'05	-4.6m
	2428 Aug 16 14:00	0°♁		retrograde	2431 Mar 29 15:09	7°♁57'00	
	2428 Sep 10 03:23	0°♁		evening set	2431 Apr 15 12:50	2°♁23'49	
	2428 Oct 04 09:17	0°♁			2431 Apr 19 10:09	30°♁	
morning set	2428 Oct 11 20:14	9°♁17'09		inferior conj	2431 Apr 20 20:08	29°♁44'16	6°43'47
	2428 Oct 28 10:10	0°♁		minimum elong	2431 Apr 20 05:58	29°♁28'46	6°41'53
max. Earth dist.	2428 Nov 17 11:57	25°♁10'04	1.71393 AU	min. Earth dist.	2431 Apr 19 18:14	29°♁47'15	0.28331 AU
				morning rise	2431 Apr 24 23:20	26°♁35'54	
superior conj	2428 Nov 19 11:59	27°♁40'48	0°33'30	direct	2431 May 10 23:09	21°♁37'21	

desc. node	2431 May 21 15:29	23°♃41'01		2433 Nov 06 06:15	0°♁	
greatest brilliancy	2431 May 22 22:38	24°♃11'07	-4.5m	2433 Nov 30 07:59	0°♁	
	2431 Jun 02 18:15	0°♁		2433 Dec 24 10:43	0°♁	
morning max el	2431 Jun 28 20:12	21°♁36'12	45°46'13	2434 Jan 17 16:51	0°♁	
	2431 Jul 07 09:20	0°♁		2434 Feb 11 07:18	0°♃	
	2431 Aug 04 13:23	0°♁		2434 Feb 26 13:55	18°♃14'27	
	2431 Aug 30 20:27	0°♁		2434 Mar 08 15:05	0°♁	
asc. node	2431 Sep 11 18:54	14°♁02'58		2434 Apr 04 11:06	0°♁	
	2431 Sep 25 03:03	0°♁		2434 Apr 19 08:06	15°♁15'28	45°50'07
	2431 Oct 19 17:44	0°♁		2434 May 05 15:29	0°♁	
	2431 Nov 12 22:26	0°♁		2434 May 23 15:57	12°♁01'31	-4.5m
	2431 Dec 06 21:42	0°♁		2434 Jun 07 09:03	15°♁47'57	
morning set	2431 Dec 25 15:57	23°♁34'15		2434 Jun 18 03:20	13°♁29'54	
	2431 Dec 30 18:37	0°♁		2434 Jun 22 10:28	11°♁23'53	
desc. node	2432 Jan 01 08:22	1°♁58'42		2434 Jun 28 19:58	7°♁33'13	-2°-29'-31
	2432 Jan 23 15:00	0°♁		2434 Jun 28 14:39	7°♁41'33	2°28'01
				2434 Jun 28 15:52	7°♁39'39	0.28954 AU
superior conj	2432 Feb 05 09:21	16°♁02'46	-1°-11'-25	2434 Jul 04 19:05	3°♁57'30	
minimum elong	2432 Feb 04 22:07	15°♁27'30	1°11'07	2434 Jul 14 10:16	30°♁	
max. Earth dist.	2432 Feb 07 22:15	19°♁14'01	1.71285 AU	2434 Jul 20 11:16	29°♁16'52	
	2432 Feb 16 12:08	0°♁		2434 Jul 26 16:27	0°♁	
	2432 Mar 11 11:30	0°♃		2434 Aug 02 23:45	2°♁28'55	-4.5m
evening rise	2432 Mar 17 02:28	7°♃00'41		2434 Sep 07 09:48	29°♁18'20	45°53'29
	2432 Apr 04 14:42	0°♁		2434 Sep 08 03:04	0°♁	
asc. node	2432 Apr 23 11:50	23°♁16'55		2434 Oct 06 16:26	0°♁	
	2432 Apr 28 23:14	0°♁		2434 Oct 09 06:53	2°♁54'40	
	2432 May 23 14:21	0°♁		2434 Nov 01 17:08	0°♁	
	2432 Jun 17 13:53	0°♁		2434 Nov 26 14:47	0°♁	
	2432 Jul 13 01:49	0°♁		2434 Dec 20 23:05	0°♁	
	2432 Aug 08 10:55	0°♁		2435 Jan 14 01:14	0°♁	
desc. node	2432 Aug 13 00:59	5°♁03'29		2435 Jan 28 20:12	18°♁29'01	
	2432 Sep 05 16:38	0°♁		2435 Feb 07 01:12	0°♁	
evening max el	2432 Sep 11 15:11	5°♁50'39	46°12'43	2435 Mar 03 01:07	0°♁	
	2432 Oct 11 04:50	0°♁		2435 Mar 12 17:55	12°♁06'34	
greatest brilliancy	2432 Oct 20 08:10	4°♁30'40	-4.6m	2435 Mar 27 02:27	0°♃	
retrograde	2432 Oct 31 02:25	6°♁37'31		2435 Apr 20 06:14	0°♁	
evening set	2432 Nov 15 03:10	2°♁13'24				
	2432 Nov 18 23:45	30°♁		2435 Apr 20 23:36	0°♁53'46	-1°-5'-17
inferior conj	2432 Nov 20 17:25	28°♁56'58	-3°-23'-1	2435 Apr 21 09:46	1°♁25'15	1°04'58
minimum elong	2432 Nov 21 00:43	28°♁45'53	3°20'51	2435 Apr 24 11:10	5°♁12'26	1.72735 AU
min. Earth dist.	2432 Nov 21 07:53	28°♁35'00	0.26778 AU	2435 May 14 12:59	0°♁	
morning rise	2432 Nov 26 21:45	25°♁20'53		2435 May 21 23:38	9°♁09'55	
asc. node	2432 Dec 04 04:18	22°♁15'48		2435 May 28 23:50	17°♁47'03	
direct	2432 Dec 11 08:32	21°♁11'47		2435 Jun 07 22:38	0°♁	
greatest brilliancy	2432 Dec 24 11:49	24°♁24'30	-4.7m	2435 Jul 02 11:00	0°♁	
	2433 Jan 03 03:22	0°♁		2435 Jul 27 02:36	0°♁	
morning max el	2433 Jan 31 02:12	24°♁35'18	46°57'18	2435 Aug 20 23:01	0°♁	
	2433 Feb 05 08:18	0°♁		2435 Sep 10 13:00	24°♁34'45	
	2433 Mar 04 14:20	0°♁		2435 Sep 15 02:51	0°♁	
desc. node	2433 Mar 25 18:00	24°♁32'46		2435 Oct 10 18:34	0°♁	
	2433 Mar 30 09:09	0°♁		2435 Nov 06 09:11	0°♁	
	2433 Apr 24 14:08	0°♃		2435 Nov 24 18:48	19°♁25'20	47°12'04
	2433 May 19 12:56	0°♁		2435 Dec 05 16:53	0°♁	
	2433 Jun 13 08:21	0°♁		2436 Jan 01 16:14	19°♁40'23	
	2433 Jul 08 00:37	0°♁		2436 Jan 02 06:26	19°♁56'08	-4.7m
asc. node	2433 Jul 16 21:12	10°♁48'52		2436 Jan 14 12:46	22°♁44'57	
morning set	2433 Aug 01 10:32	29°♁52'20		2436 Jan 30 12:48	17°♁41'20	
	2433 Aug 01 13:02	0°♁		2436 Feb 03 08:30	15°♁23'03	0.26924 AU
	2433 Aug 25 21:14	0°♁		2436 Feb 04 04:38	14°♁51'51	7°22'45
max. Earth dist.	2433 Sep 03 17:19	10°♁56'14	1.72810 AU	2436 Feb 03 18:45	15°♁07'11	7°20'59
				2436 Feb 08 01:02	12°♁31'29	
superior conj	2433 Sep 06 21:14	14°♁51'32	1°24'25	2436 Feb 24 16:16	7°♁09'19	
minimum elong	2433 Sep 06 19:17	14°♁45'27	1°24'25	2436 Mar 06 08:43	9°♁16'59	-4.6m
	2433 Sep 19 01:55	0°♁		2436 Apr 05 03:04	0°♁	
	2433 Oct 13 04:30	0°♁		2436 Apr 14 09:52	8°♁47'57	46°23'45
evening rise	2433 Oct 14 04:54	1°♁15'59		2436 Apr 22 05:48	16°♁40'25	
desc. node	2433 Nov 05 10:51	28°♁59'34		2436 May 04 21:13	0°♃	

	2436 May 31 20:01	0°♄			2439 Feb 02 03:39	0°♃	
	2436 Jun 26 18:16	0°♁		evening max el	2439 Feb 04 16:45	2°♃36'17	46°57'20
	2436 Jul 22 02:55	0°♁			2439 Mar 09 07:32	0°♄	
asc. node	2436 Aug 13 09:05	26°♁45'54		greatest brilliancy	2439 Mar 13 07:45	2°♄07'21	-4.6m
	2436 Aug 16 01:07	0°♁		retrograde	2439 Mar 27 07:15	5°♄41'56	
	2436 Sep 09 14:14	0°♃		evening set	2439 Apr 13 07:08	0°♄04'07	
	2436 Oct 03 20:01	0°♁			2439 Apr 13 09:54	30°♃♃	
morning set	2436 Oct 09 11:28	7°♁01'37		inferior conj	2439 Apr 17 11:25	27°♃29'13	6°57'13
	2436 Oct 27 20:53	0°♃		minimum elong	2439 Apr 17 21:08	27°♃13'57	6°55'26
max. Earth dist.	2436 Nov 14 21:16	22°♃34'58	1.71434 AU	min. Earth dist.	2439 Apr 17 08:55	27°♃33'10	0.28300 AU
				morning rise	2439 Apr 22 11:23	24°♃25'54	
superior conj	2436 Nov 17 00:12	25°♃14'47	0°36'57	direct	2439 May 08 14:01	19°♃22'46	
minimum elong	2436 Nov 17 08:34	25°♃41'02	0°36'34	greatest brilliancy	2439 May 20 12:06	21°♃55'47	-4.5m
	2436 Nov 20 19:06	0°♃		desc. node	2439 May 20 17:23	22°♃01'09	
desc. node	2436 Dec 02 22:36	15°♃15'03			2439 Jun 03 15:30	0°♄	
	2436 Dec 14 16:18	0°♄		morning max el	2439 Jun 26 12:35	19°♄27'05	45°46'56
evening rise	2436 Dec 27 20:34	16°♄33'19			2439 Jul 07 04:36	0°♁	
	2437 Jan 07 13:30	0°♃			2439 Aug 04 03:55	0°♁	
	2437 Jan 31 12:00	0°♃			2439 Aug 30 09:07	0°♁	
	2437 Feb 24 14:02	0°♃		asc. node	2439 Sep 10 21:02	13°♁33'12	
	2437 Mar 20 22:48	0°♄			2439 Sep 24 14:48	0°♃	
asc. node	2437 Mar 26 01:58	6°♄15'18			2439 Oct 19 05:03	0°♁	
	2437 Apr 14 18:31	0°♁			2439 Nov 12 09:32	0°♃	
	2437 May 10 07:31	0°♁			2439 Dec 06 08:43	0°♃	
	2437 Jun 06 03:18	0°♁		morning set	2439 Dec 23 02:29	21°♃02'04	
evening max el	2437 Jun 28 19:39	23°♁12'46	45°25'26		2439 Dec 30 05:34	0°♄	
	2437 Jul 06 03:13	0°♃		desc. node	2439 Dec 31 10:25	1°♄30'45	
desc. node	2437 Jul 15 15:15	8°♃02'29			2440 Jan 23 01:53	0°♃	
greatest brilliancy	2437 Aug 04 03:05	20°♃11'16	-4.5m				
retrograde	2437 Aug 16 10:30	22°♃52'12		superior conj	2440 Feb 02 19:15	13°♃28'56	-1°-9'-5
evening set	2437 Sep 03 09:02	16°♃54'23		minimum elong	2440 Feb 02 07:40	12°♃52'30	1°08'46
inferior conj	2437 Sep 06 19:07	14°♃48'59	-8°-36'-59	max. Earth dist.	2440 Feb 05 07:18	16°♃37'34	1.71256 AU
minimum elong	2437 Sep 06 16:40	14°♃52'47	8°36'55		2440 Feb 15 22:59	0°♃	
min. Earth dist.	2437 Sep 07 07:29	14°♃29'47	0.28638 AU		2440 Mar 10 22:21	0°♃	
morning rise	2437 Sep 10 00:04	12°♃50'35		evening rise	2440 Mar 14 14:09	4°♃33'44	
direct	2437 Sep 28 05:30	6°♃35'38			2440 Apr 04 01:38	0°♄	
greatest brilliancy	2437 Oct 12 18:58	10°♃20'39	-4.6m	asc. node	2440 Apr 22 13:48	22°♄49'10	
asc. node	2437 Nov 05 18:29	27°♃40'53			2440 Apr 28 10:18	0°♁	
	2437 Nov 08 07:21	0°♁			2440 May 23 01:43	0°♁	
morning max el	2437 Nov 17 10:13	8°♁50'00	46°35'53		2440 Jun 17 01:51	0°♁	
	2437 Dec 07 06:54	0°♃			2440 Jul 12 14:55	0°♃	
	2438 Jan 02 07:00	0°♃			2440 Aug 08 02:22	0°♁	
	2438 Jan 27 06:17	0°♄		desc. node	2440 Aug 12 03:08	4°♁25'33	
	2438 Feb 20 19:28	0°♃			2440 Sep 05 14:09	0°♃	
desc. node	2438 Feb 25 08:06	5°♃33'41		evening max el	2440 Sep 09 05:40	3°♃33'32	46°10'15
	2438 Mar 17 04:39	0°♃			2440 Oct 13 01:33	0°♃	
	2438 Apr 10 12:51	0°♃		greatest brilliancy	2440 Oct 17 20:27	2°♃05'57	-4.6m
	2438 May 04 21:37	0°♄		retrograde	2440 Oct 28 14:42	4°♃12'05	
morning set	2438 May 23 07:34	22°♄38'10			2440 Nov 12 06:53	30°♃♃	
	2438 May 29 07:25	0°♁		evening set	2440 Nov 12 18:13	29°♃44'40	
asc. node	2438 Jun 18 11:24	24°♁45'55		inferior conj	2440 Nov 18 05:56	26°♃31'14	-3°-44'-57
	2438 Jun 22 17:40	0°♁		minimum elong	2440 Nov 18 13:53	26°♃19'08	3°42'38
max. Earth dist.	2438 Jun 28 12:40	7°♁06'57	1.73578 AU	min. Earth dist.	2440 Nov 18 21:20	26°♃07'49	0.26828 AU
				morning rise	2440 Nov 24 09:05	22°♃56'30	
superior conj	2438 Jun 29 05:08	7°♁57'34	0°25'12	asc. node	2440 Dec 03 06:19	19°♃25'06	
minimum elong	2438 Jun 29 00:08	7°♁42'12	0°24'59	direct	2440 Dec 08 22:17	18°♃45'24	
	2438 Jul 17 03:27	0°♁		greatest brilliancy	2440 Dec 22 02:07	21°♃58'55	-4.7m
evening rise	2438 Aug 04 02:59	22°♁07'49			2441 Jan 04 02:15	0°♃	
	2438 Aug 10 12:24	0°♃		morning max el	2441 Jan 28 15:54	22°♃10'38	46°57'31
	2438 Sep 03 21:07	0°♁			2441 Feb 05 04:55	0°♄	
	2438 Sep 28 06:47	0°♃			2441 Mar 04 05:58	0°♃	
desc. node	2438 Oct 08 00:58	11°♃58'02		desc. node	2441 Mar 24 20:05	23°♃58'11	
	2438 Oct 22 18:29	0°♃			2441 Mar 29 22:40	0°♃	
	2438 Nov 16 09:28	0°♄			2441 Apr 24 02:30	0°♃	
	2438 Dec 11 06:57	0°♃			2441 May 19 00:36	0°♄	
	2439 Jan 05 20:09	0°♃			2441 Jun 12 19:32	0°♁	
asc. node	2439 Jan 29 04:05	25°♃50'36			2441 Jul 07 11:30	0°♁	

asc. node	2441 Jul 15 23:20	10°♄22'19		retrograde	2444 Jan 12 01:21	20°♁17'18	
morning set	2441 Jul 30 04:28	27°♄47'12		evening set	2444 Jan 27 21:52	15°♁19'50	
	2441 Jul 31 23:44	0°♄		min. Earth dist.	2444 Jan 31 22:04	12°♁55'26	0.26878 AU
	2441 Aug 25 07:53	0°♄		inferior conj	2444 Feb 01 17:34	12°♁25'16	7°09'04
max. Earth dist.	2441 Sep 01 09:39	8°♄45'12	1.72854 AU	minimum elong	2444 Feb 01 07:22	12°♁41'04	7°07'07
				morning rise	2444 Feb 05 17:09	10°♁00'18	
superior conj	2441 Sep 04 14:49	12°♄44'13	1°24'00	direct	2444 Feb 22 04:14	4°♁43'09	
minimum elong	2441 Sep 04 12:10	12°♄36'01	1°23'59	greatest brilliancy	2444 Mar 03 23:23	6°♁53'08	-4.6m
	2441 Sep 18 12:38	0°♄			2444 Apr 05 06:29	0°♁	
evening rise	2441 Oct 11 19:44	28°♄58'50		morning max el	2444 Apr 11 22:29	6°♁23'39	46°25'24
	2441 Oct 12 15:22	0°♄		desc. node	2444 Apr 21 07:44	15°♁52'52	
desc. node	2441 Nov 04 12:49	28°♄31'10			2444 May 04 14:41	0°♁	
	2441 Nov 05 17:20	0°♄			2444 May 31 10:16	0°♁	
	2441 Nov 29 19:20	0°♄			2444 Jun 26 06:57	0°♁	
	2441 Dec 23 22:24	0°♁			2444 Jul 21 14:45	0°♁	
	2442 Jan 17 05:00	0°♁		asc. node	2444 Aug 12 11:09	26°♁17'34	
asc. node	2442 Feb 10 20:11	0°♁			2444 Aug 15 12:29	0°♄	
	2442 Feb 25 16:00	17°♁40'33			2444 Sep 09 01:22	0°♄	
	2442 Mar 08 05:24	0°♁			2444 Oct 03 07:02	0°♄	
evening max el	2442 Apr 04 04:59	0°♁		morning set	2444 Oct 07 02:57	4°♁46'01	
	2442 Apr 16 23:39	13°♁02'38	45°52'00		2444 Oct 27 07:52	0°♄	
	2442 May 06 00:57	0°♁		max. Earth dist.	2444 Nov 12 09:17	20°♄07'28	1.71470 AU
greatest brilliancy	2442 May 21 09:06	9°♁53'19	-4.5m				
retrograde	2442 Jun 05 00:57	13°♁38'55		superior conj	2444 Nov 14 12:52	22°♄49'16	0°40'17
desc. node	2442 Jun 17 05:26	10°♁43'37		minimum elong	2444 Nov 14 21:44	23°♄17'08	0°39'53
evening set	2442 Jun 20 02:30	9°♁15'39			2444 Nov 20 06:09	0°♄	
inferior conj	2442 Jun 26 12:21	5°♁24'20	-2°-10'-23	desc. node	2444 Dec 02 00:42	14°♁46'54	
minimum elong	2442 Jun 26 07:41	5°♁31'41	2°09'04		2444 Dec 14 03:25	0°♁	
min. Earth dist.	2442 Jun 26 08:35	5°♁30'15	0.28938 AU	evening rise	2444 Dec 25 07:23	14°♁01'34	
morning rise	2442 Jul 02 13:03	1°♁45'59			2445 Jan 07 00:42	0°♁	
	2442 Jul 06 00:09	30°♁			2445 Jan 30 23:20	0°♁	
direct	2442 Jul 18 03:24	27°♁08'14			2445 Feb 24 01:33	0°♁	
	2442 Jul 30 21:37	0°♁			2445 Mar 20 10:40	0°♁	
greatest brilliancy	2442 Jul 31 13:57	0°♁17'41	-4.5m	asc. node	2445 Mar 25 03:53	5°♁44'42	
morning max el	2442 Sep 05 00:17	27°♁04'22	45°52'31		2445 Apr 14 07:04	0°♁	
	2442 Sep 08 00:28	0°♄			2445 May 09 21:23	0°♁	
	2442 Oct 06 07:47	0°♄			2445 Jun 05 20:11	0°♄	
asc. node	2442 Oct 08 08:48	2°♄17'38		evening max el	2445 Jun 26 10:35	20°♄59'31	45°25'12
	2442 Nov 01 06:23	0°♄			2445 Jul 06 06:25	0°♄	
	2442 Nov 26 03:05	0°♄		desc. node	2445 Jul 14 17:23	6°♄58'09	
	2442 Dec 20 10:52	0°♄		greatest brilliancy	2445 Aug 01 13:57	17°♄54'07	-4.5m
	2443 Jan 13 12:44	0°♄		retrograde	2445 Aug 14 02:00	20°♄39'37	
desc. node	2443 Jan 27 22:21	18°♁00'05		evening set	2445 Aug 31 22:08	14°♄44'04	
	2443 Feb 06 12:30	0°♁		inferior conj	2445 Sep 04 10:29	12°♄35'20	-8°-33'-42
	2443 Mar 02 12:16	0°♁		minimum elong	2445 Sep 04 07:15	12°♄40'20	8°33'35
morning set	2443 Mar 10 05:33	9°♁38'33		min. Earth dist.	2445 Sep 07 21:39	12°♄18'01	0.28684 AU
	2443 Mar 26 13:27	0°♁		morning rise	2445 Sep 07 16:10	10°♄35'58	
				direct	2445 Sep 25 21:30	4°♄21'18	
superior conj	2443 Apr 18 14:04	28°♁36'15	-1°-7'-32	greatest brilliancy	2445 Oct 10 11:52	8°♄07'41	-4.6m
minimum elong	2443 Apr 19 00:09	29°♁07'27	1°07'15	asc. node	2445 Nov 04 20:32	26°♄42'45	
	2443 Apr 19 17:07	0°♁			2445 Nov 08 09:08	0°♄	
max. Earth dist.	2443 Apr 22 04:51	3°♁04'59	1.72680 AU	morning max el	2445 Nov 15 02:02	6°♁33'26	46°34'32
	2443 May 13 23:49	0°♁			2445 Dec 06 23:56	0°♄	
asc. node	2443 May 21 01:37	8°♁42'39			2446 Jan 01 21:18	0°♄	
evening rise	2443 May 26 16:40	15°♁37'53			2446 Jan 26 19:18	0°♄	
	2443 Jun 07 09:32	0°♁			2446 Feb 20 07:43	0°♁	
	2443 Jul 01 22:07	0°♄		desc. node	2446 Feb 24 10:11	5°♁02'41	
	2443 Jul 26 14:06	0°♄			2446 Mar 16 16:25	0°♁	
	2443 Aug 20 11:06	0°♄			2446 Apr 10 00:15	0°♁	
desc. node	2443 Sep 09 15:03	24°♁02'46			2446 May 04 08:47	0°♁	
	2443 Sep 14 15:55	0°♄		morning set	2446 May 21 00:33	20°♁28'57	
	2443 Oct 10 09:19	0°♄			2446 May 28 18:24	0°♁	
evening max el	2443 Nov 06 03:27	0°♄		asc. node	2446 Jun 17 13:34	24°♁19'05	
	2443 Nov 22 07:32	16°♁58'13	47°10'51		2446 Jun 22 04:34	0°♁	
	2443 Dec 05 22:37	0°♁					
greatest brilliancy	2443 Dec 30 21:37	17°♁30'42	-4.7m	superior conj	2446 Jun 26 23:06	5°♁51'54	0°22'09
asc. node	2443 Dec 31 18:17	17°♁52'25		minimum elong	2446 Jun 26 18:39	5°♁38'14	0°21'56

max. Earth dist.	2446 Jun 26 11:18	5°♁15'36	1.73577 AU	direct	2448 Dec 06 11:44	16°♌18'53	
	2446 Jul 16 14:20	0°♈		greatest brilliancy	2448 Dec 19 16:55	19°♌33'29	-4.7m
evening rise	2446 Aug 01 21:40	20°♊03'54			2449 Jan 04 19:31	0°♌	
	2446 Aug 09 23:23	0°♎		morning max el	2449 Jan 26 04:49	19°♌43'05	46°57'40
	2446 Sep 03 08:22	0°♌			2449 Feb 05 01:09	0°♌	
	2446 Sep 27 18:26	0°♌			2449 Mar 03 21:38	0°♌	
desc. node	2446 Oct 07 02:55	11°♌27'52		desc. node	2449 Mar 23 22:00	23°♌22'34	
	2446 Oct 22 06:39	0°♌			2449 Mar 29 12:19	0°♌	
	2446 Nov 15 22:21	0°♌			2449 Apr 23 15:01	0°♌	
	2446 Dec 10 20:54	0°♌			2449 May 18 12:24	0°♌	
	2447 Jan 05 12:08	0°♌			2449 Jun 12 06:51	0°♌	
asc. node	2447 Jan 28 06:10	25°♌03'12			2449 Jul 06 22:31	0°♌	
	2447 Feb 02 01:05	0°♌		asc. node	2449 Jul 15 01:21	9°♌54'57	
evening max el	2447 Feb 02 08:31	0°♌18'55	46°59'20	morning set	2449 Jul 27 22:31	25°♌41'53	
greatest brilliancy	2447 Mar 11 00:04	29°♌52'10	-4.6m		2449 Jul 31 10:37	0°♌	
	2447 Mar 11 06:41	0°♌			2449 Aug 24 18:45	0°♌	
retrograde	2447 Mar 24 23:39	3°♌26'23		max. Earth dist.	2449 Aug 30 01:45	6°♌32'48	1.72901 AU
	2447 Apr 06 23:54	30°♌					
evening set	2447 Apr 11 01:35	27°♌44'13		superior conj	2449 Sep 02 08:32	10°♌36'43	1°23'28
inferior conj	2447 Apr 15 02:52	25°♌13'43	7°09'56	minimum elong	2449 Sep 02 05:15	10°♌26'31	1°23'27
minimum elong	2447 Apr 15 12:23	24°♌58'47	7°08'17		2449 Sep 17 23:35	0°♌	
min. Earth dist.	2447 Apr 14 23:24	25°♌19'11	0.28269 AU	evening rise	2449 Oct 09 10:40	26°♌41'29	
morning rise	2447 Apr 19 23:29	22°♌15'32			2449 Oct 12 02:28	0°♌	
direct	2447 May 06 05:28	17°♌07'57		desc. node	2449 Nov 03 14:55	28°♌02'36	
greatest brilliancy	2447 May 18 00:49	19°♌38'57	-4.5m		2449 Nov 05 04:37	0°♌	
desc. node	2447 May 19 19:33	20°♌24'33			2449 Nov 29 06:53	0°♌	
	2447 Jun 04 07:37	0°♌			2449 Dec 23 10:18	0°♌	
morning max el	2447 Jun 24 05:03	17°♌17'11	45°47'28		2450 Jan 16 17:23	0°♌	
	2447 Jul 06 23:43	0°♌			2450 Feb 10 09:21	0°♌	
	2447 Aug 03 18:40	0°♌		asc. node	2450 Feb 24 17:57	17°♌05'23	
	2447 Aug 29 22:03	0°♌			2450 Mar 07 20:05	0°♌	
asc. node	2447 Sep 09 23:00	13°♌01'59			2450 Apr 03 23:28	0°♌	
	2447 Sep 24 02:51	0°♌		evening max el	2450 Apr 14 14:28	10°♌47'34	45°54'04
	2447 Oct 18 16:38	0°♌			2450 May 06 13:49	0°♌	
	2447 Nov 11 20:56	0°♌		greatest brilliancy	2450 May 19 01:43	7°♌44'25	-4.5m
	2447 Dec 05 20:01	0°♌		retrograde	2450 Jun 02 17:06	11°♌30'27	
morning set	2447 Dec 20 13:09	18°♌29'21		desc. node	2450 Jun 16 07:29	7°♌54'11	
	2447 Dec 29 16:49	0°♌		evening set	2450 Jun 17 18:52	7°♌07'27	
desc. node	2447 Dec 30 12:32	1°♌02'01		inferior conj	2450 Jun 24 04:58	3°♌15'56	-1°-51'-18
	2448 Jan 22 13:05	0°♌		minimum elong	2450 Jun 24 00:56	3°♌22'16	1°50'08
				min. Earth dist.	2450 Jun 24 01:39	3°♌21'09	0.28923 AU
superior conj	2448 Jan 31 05:17	10°♌54'25	-1°-6'-37		2450 Jun 29 13:35	30°♌	
minimum elong	2448 Jan 30 17:27	10°♌17'14	1°06'16	morning rise	2450 Jun 30 07:08	29°♌35'16	
max. Earth dist.	2448 Feb 02 16:55	14°♌01'49	1.71224 AU	direct	2450 Jul 15 19:20	25°♌00'00	
	2448 Feb 15 10:08	0°♌		greatest brilliancy	2450 Jul 29 05:19	28°♌08'07	-4.5m
	2448 Mar 10 09:29	0°♌			2450 Aug 02 00:56	0°♌	
evening rise	2448 Mar 12 01:58	2°♌06'16		morning max el	2450 Sep 02 14:57	24°♌50'46	45°51'29
	2448 Apr 03 12:47	0°♌			2450 Sep 07 21:11	0°♌	
asc. node	2448 Apr 21 15:50	22°♌20'55			2450 Oct 05 23:03	0°♌	
	2448 Apr 27 21:36	0°♌		asc. node	2450 Oct 07 10:52	1°♌40'58	
	2448 May 22 13:21	0°♌			2450 Oct 31 19:41	0°♌	
	2448 Jun 16 14:09	0°♌			2450 Nov 25 15:28	0°♌	
	2448 Jul 12 04:28	0°♌			2450 Dec 19 22:44	0°♌	
	2448 Aug 07 18:26	0°♌			2451 Jan 13 00:18	0°♌	
desc. node	2448 Aug 11 05:09	3°♌45'54		desc. node	2451 Jan 27 00:20	17°♌30'29	
	2448 Sep 05 12:53	0°♌			2451 Feb 05 23:52	0°♌	
evening max el	2448 Sep 06 19:36	1°♌14'17	46°07'49		2451 Mar 01 23:28	0°♌	
greatest brilliancy	2448 Oct 15 09:46	29°♌42'02	-4.6m	morning set	2451 Mar 07 16:56	7°♌09'26	
	2448 Oct 16 05:51	0°♌			2451 Mar 26 00:31	0°♌	
retrograde	2448 Oct 26 02:38	1°♌46'33					
	2448 Nov 04 13:12	30°♌		superior conj	2451 Apr 16 04:33	26°♌18'25	-1°-9'-42
evening set	2448 Nov 10 09:34	27°♌15'43		minimum elong	2451 Apr 16 14:28	26°♌49'11	1°09'25
inferior conj	2448 Nov 15 18:41	24°♌05'31	-4°-6'-6		2451 Apr 19 04:04	0°♌	
minimum elong	2448 Nov 16 03:12	23°♌52'31	4°03'42	max. Earth dist.	2451 Apr 19 19:58	0°♌49'16	1.72623 AU
min. Earth dist.	2448 Nov 16 11:11	23°♌40'20	0.26881 AU		2451 May 13 10:43	0°♌	
morning rise	2448 Nov 21 20:19	20°♌32'16		asc. node	2451 May 20 03:48	8°♌15'52	
asc. node	2448 Dec 02 08:28	16°♌39'54		evening rise	2451 May 24 09:34	13°♌28'48	

	2451 Jun 06 20:27	0°☿				2454 Feb 19 19:48	0°♁	
	2451 Jul 01 09:13	0°♁			desc. node	2454 Feb 23 12:10	4°♁31'56	
	2451 Jul 26 01:34	0°♃				2454 Mar 16 03:59	0°♃	
	2451 Aug 19 23:13	0°♁				2454 Apr 09 11:27	0°♃	
desc. node	2451 Sep 08 17:00	23°♁30'23				2454 May 03 19:43	0°♃	
	2451 Sep 14 05:04	0°♃			morning set	2454 May 18 17:15	18°♃19'33	
	2451 Oct 10 00:19	0°♃				2454 May 28 05:10	0°♃	
	2451 Nov 05 22:16	0°♃			asc. node	2454 Jun 16 15:33	23°♃52'24	
evening max el	2451 Nov 19 20:22	14°♃31'20	47°09'37			2454 Jun 21 15:14	0°☿	
	2451 Dec 06 06:43	0°♁						
greatest brilliancy	2451 Dec 28 11:54	15°♁03'49	-4.7m		superior conj	2454 Jun 24 16:55	3°☿46'24	0°19'03
asc. node	2451 Dec 30 20:21	15°♁59'45			minimum elong	2454 Jun 24 13:03	3°☿34'30	0°18'52
retrograde	2452 Jan 09 14:15	17°♁49'30			max. Earth dist.	2454 Jun 24 10:07	3°☿25'29	1.73572 AU
evening set	2452 Jan 25 06:56	12°♁57'38				2454 Jul 16 01:00	0°♁	
min. Earth dist.	2452 Jan 29 11:19	10°♁27'42	0.26834 AU		evening rise	2454 Jul 30 16:23	18°♁00'48	
inferior conj	2452 Jan 30 06:24	9°♁58'17	6°54'30			2454 Aug 09 10:09	0°♃	
minimum elong	2452 Jan 29 19:58	10°♁14'22	6°52'22			2454 Sep 02 19:21	0°♁	
morning rise	2452 Feb 03 09:16	7°♁28'51				2454 Sep 27 05:46	0°♃	
direct	2452 Feb 19 16:17	2°♁16'31			desc. node	2454 Oct 06 05:05	10°♃59'22	
greatest brilliancy	2452 Mar 01 13:48	4°♁28'56	-4.6m			2454 Oct 21 18:30	0°♃	
	2452 Apr 05 08:21	0°♃				2454 Nov 15 10:55	0°☿	
morning max el	2452 Apr 09 11:55	4°♃01'19	46°27'03			2454 Dec 10 10:39	0°♁	
desc. node	2452 Apr 20 09:54	15°♃06'43				2455 Jan 05 04:09	0°♃	
	2452 May 04 07:44	0°♃			asc. node	2455 Jan 27 08:07	24°♃15'01	
	2452 May 31 00:18	0°♃			evening max el	2455 Jan 31 00:20	28°♃01'48	47°01'01
	2452 Jun 25 19:31	0°♃				2455 Feb 01 23:12	0°♃	
	2452 Jul 21 02:28	0°☿			greatest brilliancy	2455 Mar 08 17:23	27°♃37'52	-4.6m
asc. node	2452 Aug 11 13:09	25°☿49'29				2455 Mar 14 20:47	0°♃	
	2452 Aug 14 23:42	0°♁			retrograde	2455 Mar 22 15:28	1°♃09'49	
	2452 Sep 08 12:19	0°♃				2455 Mar 30 03:24	30°♃♃	
	2452 Oct 02 17:53	0°♁			evening set	2455 Apr 08 19:43	25°♃23'41	
morning set	2452 Oct 04 18:44	2°♁31'55			inferior conj	2455 Apr 12 17:58	22°♃57'31	7°22'11
	2452 Oct 26 18:45	0°♃			minimum elong	2455 Apr 13 03:12	22°♃43'00	7°20'40
max. Earth dist.	2452 Nov 09 22:30	17°♃44'05	1.71513 AU		min. Earth dist.	2455 Apr 12 13:35	23°♃04'24	0.28234 AU
					morning rise	2455 Apr 17 11:02	20°♃04'30	
superior conj	2452 Nov 12 01:33	20°♃24'12	0°43'31		direct	2455 May 03 20:40	14°♃52'39	
minimum elong	2452 Nov 12 10:53	20°♃53'26	0°43'08		greatest brilliancy	2455 May 15 12:36	17°♃20'45	-4.5m
	2452 Nov 19 17:06	0°♃			desc. node	2455 May 18 21:37	18°♃51'01	
desc. node	2452 Dec 01 02:50	14°♃19'03				2455 Jun 04 19:32	0°♃	
	2452 Dec 13 14:29	0°☿			morning max el	2455 Jun 21 20:19	15°♃04'52	45°48'06
evening rise	2452 Dec 22 17:56	11°☿29'08				2455 Jul 06 18:05	0°♃	
	2453 Jan 06 11:53	0°♁				2455 Aug 03 08:58	0°☿	
	2453 Jan 30 10:37	0°♃				2455 Aug 29 10:37	0°♁	
	2453 Feb 23 13:01	0°♃			asc. node	2455 Sep 09 01:02	12°♁31'52	
	2453 Mar 19 22:30	0°♃				2455 Sep 23 14:33	0°♃	
asc. node	2453 Mar 24 05:58	5°♃14'54				2455 Oct 18 03:53	0°♁	
	2453 Apr 13 19:35	0°♃				2455 Nov 11 07:57	0°♃	
	2453 May 09 11:16	0°☿				2455 Dec 05 06:56	0°♃	
	2453 Jun 05 13:14	0°♁			morning set	2455 Dec 18 00:15	15°♃59'14	
evening max el	2453 Jun 24 02:31	18°♁49'15	45°25'07			2455 Dec 29 03:40	0°☿	
	2453 Jul 06 11:05	0°♃			desc. node	2455 Dec 29 14:30	0°☿34'05	
desc. node	2453 Jul 13 19:24	5°♃52'35				2456 Jan 21 23:55	0°♁	
greatest brilliancy	2453 Jul 30 01:43	15°♃39'04	-4.5m					
retrograde	2453 Aug 11 17:46	18°♃28'09			superior conj	2456 Jan 28 15:21	8°♁21'07	-1°4'-1
evening set	2453 Aug 29 11:11	12°♃35'33			minimum elong	2456 Jan 28 03:22	7°♁43'29	1°03'37
inferior conj	2453 Sep 02 01:59	10°♃23'02	-8°-29'-45		max. Earth dist.	2456 Jan 31 00:46	11°♁21'34	1.71200 AU
minimum elong	2453 Sep 01 22:00	10°♃29'12	8°29'32			2456 Feb 14 20:59	0°♃	
min. Earth dist.	2453 Sep 02 11:39	10°♃08'01	0.28722 AU		evening rise	2456 Mar 09 13:20	29°♃38'06	
morning rise	2453 Sep 05 08:40	8°♃22'14				2456 Mar 09 20:21	0°♃	
direct	2453 Sep 23 13:58	2°♃08'40				2456 Apr 02 23:43	0°♃	
greatest brilliancy	2453 Oct 08 03:37	5°♃54'44	-4.6m		asc. node	2456 Apr 20 17:58	21°♃53'37	
asc. node	2453 Nov 03 22:41	25°♃47'09				2456 Apr 27 08:41	0°♃	
	2453 Nov 08 09:12	0°♁				2456 May 22 00:47	0°☿	
morning max el	2453 Nov 12 17:53	4°♁18'11	46°32'55			2456 Jun 16 02:15	0°♁	
	2453 Dec 06 16:22	0°♃				2456 Jul 11 17:51	0°♃	
	2454 Jan 01 11:16	0°♃				2456 Aug 07 10:29	0°♁	
	2454 Jan 26 08:05	0°☿			desc. node	2456 Aug 10 07:08	3°♁06'28	

evening max el	2456 Sep 04 08:41	28°♁53'56	46°05'30	morning set	2459 Mar 05 04:34	4°♁41'58	
	2456 Sep 05 12:16	0°♁			2459 Mar 25 11:15	0°♁	
greatest brilliancy	2456 Oct 12 23:51	27°♁20'18	-4.6m				
retrograde	2456 Oct 23 14:29	29°♁22'49		superior conj	2459 Apr 13 19:11	24°♁01'59	-1°-11'-43
evening set	2456 Nov 08 01:08	24°♁48'14		minimum elong	2459 Apr 14 04:53	24°♁32'03	1°11'28
inferior conj	2456 Nov 13 07:35	21°♁41'39	-4°-26'-41	max. Earth dist.	2459 Apr 17 10:36	28°♁32'57	1.72572 AU
minimum elong	2456 Nov 13 16:36	21°♁27'53	4°24'12		2459 Apr 18 14:42	0°♁	
min. Earth dist.	2456 Nov 14 01:25	21°♁14'25	0.26931 AU		2459 May 12 21:20	0°♁	
morning rise	2456 Nov 19 07:29	18°♁10'14		asc. node	2459 May 19 05:45	7°♁49'09	
asc. node	2456 Dec 01 10:24	14°♁02'19		evening rise	2459 May 22 02:27	11°♁20'24	
direct	2456 Dec 04 00:45	13°♁54'06			2459 Jun 06 07:11	0°♁	
greatest brilliancy	2456 Dec 17 08:26	17°♁10'42	-4.7m		2459 Jun 30 20:10	0°♁	
	2457 Jan 05 07:43	0°♁			2459 Jul 25 12:55	0°♁	
morning max el	2457 Jan 23 17:10	17°♁15'31	46°57'49		2459 Aug 19 11:13	0°♁	
	2457 Feb 04 20:14	0°♁		desc. node	2459 Sep 07 19:09	22°♁58'51	
	2457 Mar 03 12:37	0°♁			2459 Sep 13 18:11	0°♁	
desc. node	2457 Mar 23 00:09	22°♁48'59			2459 Oct 09 15:22	0°♁	
	2457 Mar 29 01:30	0°♁			2459 Nov 05 17:28	0°♁	
	2457 Apr 23 03:12	0°♁		evening max el	2459 Nov 17 09:49	12°♁06'33	47°08'23
	2457 May 17 23:55	0°♁			2459 Dec 06 17:30	0°♁	
	2457 Jun 11 17:55	0°♁		greatest brilliancy	2459 Dec 26 01:33	12°♁36'26	-4.7m
	2457 Jul 06 09:17	0°♁		asc. node	2459 Dec 29 22:22	14°♁02'42	
asc. node	2457 Jul 14 03:21	9°♁28'18		retrograde	2460 Jan 07 03:39	15°♁21'51	
morning set	2457 Jul 25 16:12	23°♁36'13		evening set	2460 Jan 22 16:01	10°♁35'15	
	2457 Jul 30 21:14	0°♁		min. Earth dist.	2460 Jan 27 00:12	8°♁00'17	0.26787 AU
	2457 Aug 24 05:21	0°♁		inferior conj	2460 Jan 27 19:04	7°♁31'17	6°39'00
max. Earth dist.	2457 Aug 27 19:31	4°♁26'28	1.72948 AU	minimum elong	2460 Jan 27 08:30	7°♁47'31	6°36'43
				morning rise	2460 Feb 01 01:18	4°♁57'29	
superior conj	2457 Aug 31 02:01	8°♁29'26	1°22'49		2460 Feb 14 08:17	30°♁	
minimum elong	2457 Aug 30 22:06	8°♁17'18	1°22'46	direct	2460 Feb 17 04:39	29°♁50'00	
	2457 Sep 17 10:16	0°♁			2460 Feb 20 02:03	0°♁	
evening rise	2457 Oct 07 01:40	24°♁25'11		greatest brilliancy	2460 Feb 28 03:11	2°♁03'58	-4.6m
	2457 Oct 11 13:17	0°♁			2460 Apr 05 08:37	0°♁	
desc. node	2457 Nov 02 16:59	27°♁34'47		morning max el	2460 Apr 07 02:05	1°♁41'31	46°28'49
	2457 Nov 04 15:39	0°♁		desc. node	2460 Apr 19 11:57	14°♁21'46	
	2457 Nov 28 18:09	0°♁			2460 May 04 00:09	0°♁	
	2457 Dec 22 21:52	0°♁			2460 May 30 13:57	0°♁	
	2458 Jan 16 05:25	0°♁			2460 Jun 25 07:48	0°♁	
	2458 Feb 09 22:11	0°♁			2460 Jul 20 14:01	0°♁	
asc. node	2458 Feb 23 20:03	16°♁31'40		asc. node	2460 Aug 10 15:14	25°♁21'55	
	2458 Mar 07 10:32	0°♁			2460 Aug 14 10:51	0°♁	
	2458 Apr 03 18:04	0°♁			2460 Sep 07 23:13	0°♁	
evening max el	2458 Apr 12 04:44	8°♁31'51	45°55'59	morning set	2460 Oct 02 10:22	0°♁17'38	
	2458 May 07 06:52	0°♁			2460 Oct 02 04:42	0°♁	
greatest brilliancy	2458 May 16 17:15	5°♁34'14	-4.5m		2460 Oct 26 05:34	0°♁	
retrograde	2458 May 31 09:23	9°♁22'01		max. Earth dist.	2460 Nov 07 10:53	15°♁18'21	1.71553 AU
evening set	2458 Jun 15 11:09	4°♁58'44					
desc. node	2458 Jun 15 09:28	5°♁01'02		superior conj	2460 Nov 09 14:10	17°♁59'08	0°46'41
inferior conj	2458 Jun 21 21:21	1°♁07'24	-1°-31'-48	minimum elong	2460 Nov 09 23:51	18°♁29'29	0°46'17
minimum elong	2458 Jun 21 18:01	1°♁12'39	1°30'50		2460 Nov 19 04:01	0°♁	
min. Earth dist.	2458 Jun 21 18:29	1°♁11'54	0.28912 AU	desc. node	2460 Nov 30 04:45	13°♁50'39	
	2458 Jun 23 16:25	30°♁			2460 Dec 13 01:31	0°♁	
morning rise	2458 Jun 28 00:56	27°♁24'44		evening rise	2460 Dec 20 04:24	8°♁56'34	
direct	2458 Jul 13 10:54	22°♁51'27			2461 Jan 05 23:01	0°♁	
greatest brilliancy	2458 Jul 26 21:30	25°♁59'44	-4.5m		2461 Jan 29 21:52	0°♁	
	2458 Aug 03 10:35	0°♁			2461 Feb 23 00:27	0°♁	
morning max el	2458 Aug 31 06:05	22°♁38'52	45°50'35		2461 Mar 19 10:17	0°♁	
	2458 Sep 07 17:03	0°♁		asc. node	2461 Mar 23 08:06	4°♁45'20	
	2458 Oct 05 13:53	0°♁			2461 Apr 13 08:02	0°♁	
asc. node	2458 Oct 06 13:02	1°♁05'31			2461 May 09 01:07	0°♁	
	2458 Oct 31 08:40	0°♁			2461 Jun 05 06:30	0°♁	
	2458 Nov 25 03:32	0°♁		evening max el	2461 Jun 21 18:48	16°♁40'06	45°24'52
	2458 Dec 19 10:20	0°♁			2461 Jul 06 17:46	0°♁	
	2459 Jan 12 11:35	0°♁		desc. node	2461 Jul 12 21:24	4°♁45'20	
desc. node	2459 Jan 26 02:21	17°♁01'56		greatest brilliancy	2461 Jul 27 14:32	13°♁25'20	-4.5m
	2459 Feb 05 10:55	0°♁		retrograde	2461 Aug 09 09:15	16°♁16'34	
	2459 Mar 01 10:21	0°♁		evening set	2461 Aug 27 00:06	10°♁27'32	



inferior conj	2461 Aug 30 17:32	8° $\Upsilon$ 10'45	-8°-25'-3	superior conj	2464 Jan 26 01:08	5° $\approx$ 45'57	-1°-1'-15
minimum elong	2461 Aug 30 12:51	8° $\Upsilon$ 18'02	8°24'44	minimum elong	2464 Jan 25 13:06	5° $\approx$ 08'10	1°00'50
min. Earth dist.	2461 Aug 31 01:54	7° $\Upsilon$ 57'45	0.28761 AU	max. Earth dist.	2464 Jan 28 05:13	8° $\approx$ 29'40	1.71173 AU
morning rise	2461 Sep 03 01:28	6° $\Upsilon$ 07'55			2464 Feb 14 08:08	0° $\text{X}$	
	2461 Sep 19 11:24	30° $\text{R}\Omega$		evening rise	2464 Mar 07 00:28	27° $\text{X}$ 08'12	
direct	2461 Sep 21 06:31	29° $\Omega$ 56'09			2464 Mar 09 07:31	0° $\Upsilon$	
	2461 Sep 23 01:59	0° $\Upsilon$			2464 Apr 02 10:57	0° $\text{X}$	
greatest brilliancy	2461 Oct 05 18:25	3° $\Upsilon$ 40'17	-4.6m	asc. node	2464 Apr 19 19:56	21° $\text{X}$ 24'54	
asc. node	2461 Nov 03 00:38	24° $\Upsilon$ 51'46			2464 Apr 26 20:05	0° $\text{II}$	
	2461 Nov 08 08:24	0° $\Omega$			2464 May 21 12:30	0° $\text{X}$	
morning max el	2461 Nov 10 09:13	2° $\Omega$ 01'25	46°31'16		2464 Jun 15 14:39	0° $\Omega$	
	2461 Dec 06 08:38	0° $\text{M}$			2464 Jul 11 07:34	0° $\Upsilon$	
	2462 Jan 01 01:12	0° $\text{X}$			2464 Aug 07 03:00	0° $\Omega$	
	2462 Jan 25 20:52	0° $\text{X}$		desc. node	2464 Aug 09 09:18	2° $\Omega$ 26'37	
	2462 Feb 19 07:53	0° $\approx$		evening max el	2464 Sep 01 21:02	26° $\Omega$ 31'30	46°03'08
desc. node	2462 Feb 22 14:16	4° $\approx$ 01'22			2464 Sep 05 12:58	0° $\text{M}$	
	2462 Mar 15 15:35	0° $\text{X}$		greatest brilliancy	2464 Oct 10 13:11	24° $\text{M}$ 57'11	-4.6m
	2462 Apr 08 22:42	0° $\Upsilon$		retrograde	2464 Oct 21 02:21	26° $\text{M}$ 58'42	
	2462 May 03 06:42	0° $\text{X}$		evening set	2464 Nov 05 16:46	22° $\text{M}$ 19'39	
morning set	2462 May 16 10:17	16° $\text{X}$ 10'58		inferior conj	2464 Nov 10 20:32	19° $\text{M}$ 16'59	-4°-46'-38
	2462 May 27 15:58	0° $\text{II}$		minimum elong	2464 Nov 11 05:59	19° $\text{M}$ 02'33	4°44'06
asc. node	2462 Jun 15 17:34	23° $\text{II}$ 25'45		min. Earth dist.	2464 Nov 11 15:44	18° $\text{M}$ 47'40	0.26994 AU
	2462 Jun 21 01:55	0° $\text{X}$		morning rise	2464 Nov 16 18:31	15° $\text{M}$ 47'50	
				asc. node	2464 Nov 30 12:28	11° $\text{M}$ 29'23	
superior conj	2462 Jun 22 11:05	1° $\text{X}$ 41'52	0°15'57	direct	2464 Dec 01 13:42	11° $\text{M}$ 28'02	
minimum elong	2462 Jun 22 07:48	1° $\text{X}$ 31'48	0°15'48	greatest brilliancy	2464 Dec 15 01:07	14° $\text{M}$ 48'13	-4.7m
behind sun begin	2462 Jun 22 06:23	1° $\text{X}$ 27'26			2465 Jan 05 17:24	0° $\text{X}$	
behind sun end	2462 Jun 22 09:14	1° $\text{X}$ 36'11		morning max el	2465 Jan 21 06:16	14° $\text{X}$ 48'13	46°57'57
max. Earth dist.	2462 Jun 22 09:28	1° $\text{X}$ 36'53	1.73562 AU		2465 Feb 04 15:23	0° $\text{X}$	
	2462 Jul 15 11:42	0° $\Omega$			2465 Mar 03 03:54	0° $\approx$	
evening rise	2462 Jul 28 11:23	15° $\Omega$ 58'25		desc. node	2465 Mar 22 02:13	22° $\approx$ 14'02	
	2462 Aug 08 21:00	0° $\Upsilon$			2465 Mar 28 15:00	0° $\text{X}$	
	2462 Sep 02 06:29	0° $\Omega$			2465 Apr 22 15:41	0° $\Upsilon$	
	2462 Sep 26 17:19	0° $\text{M}$			2465 May 17 11:44	0° $\text{X}$	
desc. node	2462 Oct 05 07:05	10° $\text{M}$ 29'37			2465 Jun 11 05:17	0° $\text{II}$	
	2462 Oct 21 06:37	0° $\text{X}$			2465 Jul 05 20:22	0° $\text{X}$	
	2462 Nov 14 23:49	0° $\text{X}$		asc. node	2465 Jul 13 05:28	9° $\text{X}$ 01'06	
	2462 Dec 10 00:47	0° $\approx$		morning set	2465 Jul 23 10:11	21° $\text{X}$ 30'35	
	2463 Jan 04 20:41	0° $\text{X}$			2465 Jul 30 08:09	0° $\Omega$	
asc. node	2463 Jan 26 10:15	23° $\text{X}$ 25'50			2465 Aug 23 16:13	0° $\Upsilon$	
evening max el	2463 Jan 28 15:31	25° $\text{X}$ 42'17	47°02'39	max. Earth dist.	2465 Aug 25 15:41	2° $\Upsilon$ 26'45	1.72990 AU
	2463 Feb 01 22:30	0° $\Upsilon$					
greatest brilliancy	2463 Mar 06 11:36	25° $\Upsilon$ 23'57	-4.6m	superior conj	2465 Aug 28 19:58	6° $\Upsilon$ 22'44	1°22'03
retrograde	2463 Mar 20 06:52	28° $\Upsilon$ 52'28		minimum elong	2465 Aug 28 15:26	6° $\Upsilon$ 08'43	1°21'59
evening set	2463 Apr 06 13:51	23° $\Upsilon$ 02'36			2465 Sep 16 21:12	0° $\Omega$	
inferior conj	2463 Apr 10 09:05	20° $\Upsilon$ 40'44	7°33'49	evening rise	2465 Oct 04 17:16	22° $\Omega$ 10'07	
minimum elong	2463 Apr 10 17:59	20° $\Upsilon$ 26'42	7°32'27		2465 Oct 11 00:23	0° $\text{M}$	
min. Earth dist.	2463 Apr 10 04:05	20° $\Upsilon$ 48'37	0.28194 AU	desc. node	2465 Nov 01 18:57	27° $\text{M}$ 05'42	
morning rise	2463 Apr 14 22:28	17° $\Upsilon$ 52'53			2465 Nov 04 02:59	0° $\text{X}$	
direct	2463 May 01 11:34	12° $\Upsilon$ 36'48			2465 Nov 28 05:48	0° $\text{X}$	
greatest brilliancy	2463 May 13 00:34	15° $\Upsilon$ 02'02	-4.5m		2465 Dec 22 09:55	0° $\approx$	
desc. node	2463 May 17 23:33	17° $\Upsilon$ 19'57			2466 Jan 15 17:59	0° $\text{X}$	
	2463 Jun 05 04:33	0° $\text{X}$			2466 Feb 09 11:35	0° $\Upsilon$	
morning max el	2463 Jun 19 10:51	12° $\text{X}$ 50'10	45°48'57	asc. node	2466 Feb 22 22:08	15° $\Upsilon$ 56'08	
	2463 Jul 06 12:07	0° $\text{II}$			2466 Mar 07 01:39	0° $\text{X}$	
	2463 Aug 02 23:13	0° $\text{X}$			2466 Apr 03 13:44	0° $\text{II}$	
	2463 Aug 28 23:15	0° $\Omega$		evening max el	2466 Apr 09 19:25	6° $\text{II}$ 15'52	45°58'13
asc. node	2463 Sep 08 03:11	12° $\Omega$ 01'46			2466 May 08 06:51	0° $\text{X}$	
	2463 Sep 23 02:23	0° $\Upsilon$		greatest brilliancy	2466 May 14 08:08	3° $\text{X}$ 22'08	-4.5m
	2463 Oct 17 15:22	0° $\Omega$		retrograde	2466 May 29 02:08	7° $\text{X}$ 12'33	
	2463 Nov 10 19:16	0° $\text{M}$		evening set	2466 Jun 13 03:37	2° $\text{X}$ 48'40	
	2463 Dec 04 18:10	0° $\text{X}$		desc. node	2466 Jun 14 11:33	2° $\text{X}$ 03'51	
morning set	2463 Dec 15 11:07	13° $\text{X}$ 27'15			2466 Jun 17 21:52	30° $\text{R}\text{II}$	
desc. node	2463 Dec 28 16:35	0° $\text{X}$ 05'23		inferior conj	2466 Jun 19 13:44	28° $\text{II}$ 57'42	-1°-12'-6
	2463 Dec 28 14:52	0° $\text{X}$		minimum elong	2466 Jun 19 11:06	29° $\text{II}$ 01'50	1°11'21
	2464 Jan 21 11:05	0° $\approx$		min. Earth dist.	2466 Jun 19 11:04	29° $\text{II}$ 01'53	0.28897 AU
				morning rise	2466 Jun 25 18:38	25° $\text{II}$ 13'26	

direct	2466 Jul 11 02:41	20°II41'44		2469 Jan 05 10:14	0°≈	
greatest brilliancy	2466 Jul 24 13:50	23°II50'39	-4.5m	2469 Jan 29 09:14	0°✕	
	2466 Aug 04 11:04	0°☉		2469 Feb 22 12:03	0°Υ	
morning max el	2466 Aug 28 22:19	20°☉28'54	45°49'52	2469 Mar 18 22:18	0°♁	
	2466 Sep 07 12:39	0°♁		2469 Mar 22 10:00	4°♁14'23	
	2466 Oct 05 04:46	0°♁		2469 Apr 12 20:49	0°II	
asc. node	2466 Oct 05 14:55	0°♁28'49		2469 May 08 15:26	0°☉	
	2466 Oct 30 21:46	0°♁		2469 Jun 05 00:29	0°♁	
	2466 Nov 24 15:48	0°♁		2469 Jun 19 10:46	14°♁29'18	45°24'48
	2466 Dec 18 22:09	0°♁		2469 Jul 07 03:26	0°♁	
	2467 Jan 11 23:11	0°☉		2469 Jul 11 23:31	3°♁35'40	
desc. node	2467 Jan 25 04:28	16°☉32'34		2469 Jul 25 04:15	11°♁12'03	-4.5m
	2467 Feb 04 22:22	0°≈		2469 Aug 07 00:17	14°♁04'29	
	2467 Feb 28 21:39	0°✕		2469 Aug 24 12:51	8°♁19'32	
morning set	2467 Mar 02 15:32	2°✕10'57		2469 Aug 28 09:07	5°♁58'15	-8°-19'-37
	2467 Mar 24 22:24	0°Υ		2469 Aug 28 03:45	6°♁06'37	8°19'13
				2469 Aug 28 16:31	5°♁46'44	0.28793 AU
superior conj	2467 Apr 11 09:07	21°Υ41'57	-1°-13'-39	2469 Aug 31 18:31	3°♁52'56	
minimum elong	2467 Apr 11 18:31	22°Υ11'06	1°13'26	2469 Sep 08 05:14	30°♁	
max. Earth dist.	2467 Apr 15 00:21	26°Υ12'30	1.72518 AU	2469 Sep 18 22:41	27°♁43'28	
	2467 Apr 18 01:45	0°♁		2469 Sep 30 02:38	0°♁	
	2467 May 12 08:22	0°II		2469 Oct 03 08:30	1°♁24'40	-4.6m
asc. node	2467 May 18 07:46	7°II21'25		2469 Nov 02 02:41	23°♁57'32	
evening rise	2467 May 19 18:53	9°II09'25		2469 Nov 07 23:43	29°♁42'27	46°29'42
	2467 Jun 05 18:17	0°☉		2469 Nov 08 06:43	0°♁	
	2467 Jun 30 07:29	0°♁		2469 Dec 06 00:40	0°♁	
	2467 Jul 25 00:37	0°♁		2469 Dec 31 15:00	0°♁	
	2467 Aug 18 23:35	0°♁		2470 Jan 25 09:33	0°☉	
desc. node	2467 Sep 06 21:10	22°♁25'59		2470 Feb 18 19:53	0°≈	
	2467 Sep 13 07:39	0°♁		2470 Feb 21 16:17	3°≈30'47	
	2467 Oct 09 06:50	0°♁		2470 Mar 15 03:08	0°✕	
	2467 Nov 05 13:23	0°☉		2470 Apr 08 09:57	0°Υ	
evening max el	2467 Nov 15 00:13	9°☉43'59	47°07'01	2470 May 02 17:44	0°♁	
	2467 Dec 07 08:06	0°≈		2470 May 14 02:55	14°♁00'52	
greatest brilliancy	2467 Dec 23 14:43	10°≈08'07	-4.7m	2470 May 27 02:50	0°II	
asc. node	2467 Dec 29 00:26	12°≈00'17		2470 Jun 14 19:42	22°II59'10	
retrograde	2468 Jan 04 17:15	12°≈53'22				
evening set	2468 Jan 20 01:15	8°≈11'57		2470 Jun 20 04:46	29°II35'37	0°12'47
min. Earth dist.	2468 Jan 24 12:56	5°≈32'09	0.26749 AU	2470 Jun 20 02:07	29°II27'29	0°12'40
inferior conj	2468 Jan 25 07:41	5°≈03'23	6°22'31	2470 Jun 19 12:21	28°II45'11	
minimum elong	2468 Jan 24 21:06	5°≈19'38	6°20'08	2470 Jun 20 15:53	0°☉09'47	
morning rise	2468 Jan 29 17:20	2°≈25'06		2470 Jun 20 06:26	29°II40'45	1.73552 AU
	2468 Feb 03 09:50	30°♁		2470 Jun 20 12:42	0°☉	
direct	2468 Feb 14 17:35	27°☉22'40		2470 Jul 14 22:29	0°♁	
greatest brilliancy	2468 Feb 25 16:01	29°☉37'13	-4.6m	2470 Jul 26 05:55	13°♁54'27	
	2468 Feb 26 14:37	0°≈		2470 Aug 08 07:54	0°♁	
morning max el	2468 Apr 04 16:30	29°≈21'00	46°30'18	2470 Sep 01 17:39	0°♁	
	2468 Apr 05 08:17	0°✕		2470 Sep 26 04:54	0°♁	
desc. node	2468 Apr 18 13:52	13°✕35'47		2470 Oct 04 09:03	9°♁59'45	
	2468 May 03 16:44	0°Υ		2470 Oct 20 18:45	0°♁	
	2468 May 30 03:53	0°♁		2470 Nov 14 12:44	0°☉	
	2468 Jun 24 20:23	0°II		2470 Dec 09 14:57	0°≈	
	2468 Jul 20 01:49	0°☉		2471 Jan 04 13:22	0°✕	
asc. node	2468 Aug 09 17:17	24°☉53'33		2471 Jan 25 12:18	22°✕36'15	
	2468 Aug 13 22:11	0°♁		2471 Jan 26 05:50	23°✕20'56	47°04'17
	2468 Sep 07 10:19	0°♁		2471 Feb 01 22:38	0°Υ	
morning set	2468 Sep 30 02:18	28°♁03'45		2471 Mar 04 05:42	23°Υ10'25	-4.6m
	2468 Oct 01 15:41	0°♁		2471 Mar 17 21:59	26°Υ35'53	
	2468 Oct 25 16:34	0°♁		2471 Apr 04 07:57	20°Υ42'25	
max. Earth dist.	2468 Nov 04 21:23	12°♁46'22	1.71588 AU	2471 Apr 08 00:18	18°Υ24'46	7°44'34
				2471 Apr 08 08:49	18°Υ11'21	7°43'22
superior conj	2468 Nov 07 03:26	15°♁35'43	0°49'43	2471 Apr 07 18:54	18°Υ33'17	0.28157 AU
minimum elong	2468 Nov 07 13:23	16°♁06'54	0°49'18	2471 Apr 12 09:59	15°Υ42'05	
	2468 Nov 18 15:04	0°♁		2471 Apr 29 01:56	10°Υ21'36	
desc. node	2468 Nov 29 06:51	13°♁22'34		2471 May 10 13:26	12°Υ44'49	-4.5m
	2468 Dec 12 12:38	0°☉		2471 May 17 01:41	15°Υ52'48	
evening rise	2468 Dec 17 15:25	6°☉25'28		2471 Jun 05 10:52	0°♁	

morning max el	2471 Jun 17 00:59	10°♄34'40	45°49'40	asc. node	2474 Feb 22 00:03	15°♃21'01	
	2471 Jul 06 05:40	0°♂			2474 Mar 06 16:36	0°♄	
	2471 Aug 02 13:16	0°♁			2474 Apr 03 09:32	0°♂	
	2471 Aug 28 11:45	0°♁		evening max el	2474 Apr 07 11:10	4°♂03'42	46°00'32
asc. node	2471 Sep 07 05:07	11°♁31'19			2474 May 09 15:31	0°♁	
	2471 Sep 22 14:06	0°♃		greatest brilliancy	2474 May 11 23:28	1°♁12'01	-4.5m
	2471 Oct 17 02:41	0°♁		retrograde	2474 May 26 19:17	5°♁04'28	
	2471 Nov 10 06:24	0°♂		evening set	2474 Jun 10 20:22	0°♁39'53	
	2471 Dec 04 05:12	0°♂			2474 Jun 12 00:48	30°♂	
morning set	2471 Dec 12 22:05	10°♂56'10		desc. node	2474 Jun 13 13:36	29°♂06'01	
desc. node	2471 Dec 27 18:40	29°♂37'23		inferior conj	2474 Jun 17 06:10	26°♂49'19	0°-52'-25
	2471 Dec 28 01:51	0°♁		minimum elong	2474 Jun 17 04:14	26°♂52'21	0°51'52
	2472 Jan 20 22:02	0°♁		min. Earth dist.	2474 Jun 17 03:23	26°♂53'41	0.28882 AU
				morning rise	2474 Jun 23 12:16	23°♂03'46	
superior conj	2472 Jan 23 11:02	3°♁11'46	0°-58'-21	direct	2474 Jul 08 19:01	18°♂33'31	
minimum elong	2472 Jan 22 23:04	2°♁34'09	0°57'56	greatest brilliancy	2474 Jul 22 05:20	21°♂42'04	-4.5m
max. Earth dist.	2472 Jan 25 07:06	5°♁30'19	1.71149 AU		2474 Aug 05 04:23	0°♁	
	2472 Feb 13 19:04	0°♂		morning max el	2474 Aug 26 15:12	18°♁21'49	45°48'57
evening rise	2472 Mar 04 11:42	24°♂39'21			2474 Sep 07 07:16	0°♁	
	2472 Mar 08 18:26	0°♃		asc. node	2474 Oct 04 17:01	29°♁53'50	
	2472 Apr 01 21:54	0°♄			2474 Oct 04 19:11	0°♃	
asc. node	2472 Apr 18 21:59	20°♄57'17			2474 Oct 30 10:32	0°♁	
	2472 Apr 26 07:12	0°♂			2474 Nov 24 03:46	0°♂	
	2472 May 21 00:01	0°♁			2474 Dec 18 09:41	0°♂	
	2472 Jun 15 02:55	0°♁			2475 Jan 11 10:26	0°♁	
	2472 Jul 10 21:16	0°♃		desc. node	2475 Jan 24 06:28	16°♁03'57	
	2472 Aug 06 19:43	0°♁			2475 Feb 04 09:26	0°♁	
desc. node	2472 Aug 08 11:16	1°♁46'10		morning set	2475 Feb 28 02:26	29°♁40'50	
evening max el	2472 Aug 30 09:28	24°♁09'50	46°00'56		2475 Feb 28 08:33	0°♂	
	2472 Sep 05 14:49	0°♂			2475 Mar 24 09:11	0°♃	
greatest brilliancy	2472 Oct 08 01:35	22°♂33'47	-4.6m				
retrograde	2472 Oct 18 14:39	24°♂35'30		superior conj	2475 Apr 08 22:59	19°♃22'41	-1°-15'-28
evening set	2472 Nov 03 08:28	19°♂51'35		minimum elong	2475 Apr 09 08:02	19°♃50'46	1°15'17
inferior conj	2472 Nov 08 09:27	16°♂53'04	-5°-5'-52	max. Earth dist.	2475 Apr 12 15:09	23°♃56'19	1.72465 AU
minimum elong	2472 Nov 08 19:16	16°♂38'05	5°03'20		2475 Apr 17 12:27	0°♄	
min. Earth dist.	2472 Nov 09 05:45	16°♂22'06	0.27056 AU		2475 May 11 19:02	0°♂	
morning rise	2472 Nov 14 05:21	13°♂26'45		evening rise	2475 May 17 11:20	6°♂59'36	
direct	2472 Nov 29 02:56	9°♂02'44		asc. node	2475 May 17 09:55	6°♂55'15	
asc. node	2472 Nov 29 14:35	9°♂03'01			2475 Jun 05 05:01	0°♁	
greatest brilliancy	2472 Dec 12 17:50	12°♂26'53	-4.7m		2475 Jun 29 18:25	0°♁	
	2473 Jan 06 00:06	0°♂			2475 Jul 24 11:57	0°♃	
morning max el	2473 Jan 18 20:22	12°♂24'27	46°58'00		2475 Aug 18 11:37	0°♁	
	2473 Feb 04 09:41	0°♁		desc. node	2475 Sep 05 23:07	21°♁53'47	
	2473 Mar 02 18:40	0°♁			2475 Sep 12 20:54	0°♂	
desc. node	2473 Mar 21 04:08	21°♁39'50			2475 Oct 08 22:17	0°♂	
	2473 Mar 28 04:05	0°♂			2475 Nov 05 09:45	0°♁	
	2473 Apr 22 03:45	0°♃		evening max el	2475 Nov 12 15:18	7°♁23'38	47°05'28
	2473 May 16 23:09	0°♄			2475 Dec 08 03:24	0°♁	
	2473 Jun 10 16:16	0°♂		greatest brilliancy	2475 Dec 21 04:34	7°♁40'57	-4.7m
	2473 Jul 05 07:05	0°♁		asc. node	2475 Dec 28 02:27	9°♁52'56	
asc. node	2473 Jul 12 07:29	8°♁34'35		retrograde	2476 Jan 02 06:34	10°♁24'45	
morning set	2473 Jul 21 04:09	19°♁25'50		evening set	2476 Jan 17 10:32	5°♁48'44	
	2473 Jul 29 18:45	0°♁		min. Earth dist.	2476 Jan 22 01:40	3°♁03'59	0.26704 AU
	2473 Aug 23 02:50	0°♃		inferior conj	2476 Jan 22 20:08	2°♁35'38	6°05'17
max. Earth dist.	2473 Aug 23 12:13	0°♃29'00	1.73035 AU	minimum elong	2476 Jan 22 09:35	2°♁51'49	6°02'48
				morning rise	2476 Jan 27 09:05	29°♁52'51	
superior conj	2473 Aug 26 13:43	4°♃16'18	1°21'09		2476 Jan 27 04:04	30°♂	
minimum elong	2473 Aug 26 08:37	4°♃00'30	1°21'05	direct	2476 Feb 12 06:24	24°♁55'49	
	2473 Sep 16 07:54	0°♁		greatest brilliancy	2476 Feb 23 04:09	27°♁10'07	-4.6m
evening rise	2473 Oct 02 08:42	19°♁55'20			2476 Feb 29 03:45	0°♁	
	2473 Oct 10 11:14	0°♂		morning max el	2476 Apr 02 06:11	26°♁59'37	46°31'48
desc. node	2473 Oct 31 21:03	26°♂37'54			2476 Apr 05 06:33	0°♂	
	2473 Nov 03 14:03	0°♂		desc. node	2476 Apr 17 16:04	12°♂52'16	
	2473 Nov 27 17:09	0°♁			2476 May 03 08:37	0°♃	
	2473 Dec 21 21:39	0°♁			2476 May 29 17:18	0°♄	
	2474 Jan 15 06:14	0°♂			2476 Jun 24 08:32	0°♂	
	2474 Feb 09 00:43	0°♃			2476 Jul 19 13:14	0°♁	

asc. node	2476 Aug 08 19:16	24°☿26'11		evening max el	2479 Jan 23 19:29	20°♃57'33	47°05'41
	2476 Aug 13 09:09	0°♁		asc. node	2479 Jan 24 14:15	21°♃45'13	
	2476 Sep 06 21:03	0°♃			2479 Feb 02 00:08	0°♃	
morning set	2476 Sep 27 18:24	25°♃51'29		greatest brilliancy	2479 Mar 01 23:02	20°♃54'54	-4.6m
	2476 Oct 01 02:22	0°♁		retrograde	2479 Mar 15 12:50	24°♃18'21	
	2476 Oct 25 03:17	0°♃		evening set	2479 Apr 02 01:44	18°♃21'14	
max. Earth dist.	2476 Nov 02 05:36	10°♃08'04	1.71634 AU	inferior conj	2479 Apr 05 15:21	16°♃07'52	7°54'41
				minimum elong	2479 Apr 05 23:23	15°♃55'12	7°53'38
superior conj	2476 Nov 04 16:48	13°♃13'27	0°52'39	min. Earth dist.	2479 Apr 05 09:45	16°♃16'42	0.28117 AU
minimum elong	2476 Nov 05 02:56	13°♃45'11	0°52'15	morning rise	2479 Apr 09 21:16	13°♃30'36	
	2476 Nov 18 01:55	0°♃		direct	2479 Apr 26 15:46	8°♃05'15	
desc. node	2476 Nov 28 08:58	12°♃55'02		greatest brilliancy	2479 May 08 03:04	10°♃27'49	-4.5m
	2476 Dec 11 23:36	0°♃		desc. node	2479 May 16 03:45	14°♃27'56	
evening rise	2476 Dec 15 02:04	3°♃53'45			2479 Jun 05 15:15	0°♃	
	2477 Jan 04 21:18	0°♃		morning max el	2479 Jun 14 15:11	8°♃19'03	45°50'38
	2477 Jan 28 20:25	0°♃			2479 Jul 05 22:48	0°♃	
	2477 Feb 21 23:27	0°♃			2479 Aug 02 03:08	0°♃	
	2477 Mar 18 10:07	0°♃			2479 Aug 28 00:09	0°♃	
asc. node	2477 Mar 21 12:06	3°♃44'44		asc. node	2479 Sep 06 07:10	11°♃01'28	
	2477 Apr 12 09:24	0°♃			2479 Sep 22 01:45	0°♃	
	2477 May 08 05:35	0°♃			2479 Oct 16 13:57	0°♃	
	2477 Jun 04 18:34	0°♃			2479 Nov 09 17:29	0°♃	
evening max el	2477 Jun 17 02:17	12°♃18'17	45°24'48		2479 Dec 03 16:12	0°♃	
	2477 Jul 07 15:49	0°♃		morning set	2479 Dec 10 09:40	8°♃27'12	
desc. node	2477 Jul 11 01:33	2°♃25'02		desc. node	2479 Dec 26 20:39	29°♃09'08	
greatest brilliancy	2477 Jul 22 18:20	9°♃00'27	-4.5m		2479 Dec 27 12:49	0°♃	
retrograde	2477 Aug 04 15:10	11°♃54'14			2480 Jan 20 09:01	0°♃	
evening set	2477 Aug 22 01:41	6°♃13'33					
inferior conj	2477 Aug 26 00:58	3°♃47'39	-8°-13'-26	superior conj	2480 Jan 20 21:05	0°♃37'56	0°-55'-20
minimum elong	2477 Aug 25 18:57	3°♃57'03	8°12'55	minimum elong	2480 Jan 20 09:17	0°♃00'51	0°54'54
min. Earth dist.	2477 Aug 26 07:41	3°♃37'10	0.28823 AU	max. Earth dist.	2480 Jan 22 10:19	2°♃35'02	1.71136 AU
morning rise	2477 Aug 29 12:03	1°♃39'32			2480 Feb 13 06:04	0°♃	
	2477 Sep 01 09:02	30°♃		evening rise	2480 Mar 01 22:46	22°♃09'34	
direct	2477 Sep 16 14:36	25°♃32'33			2480 Mar 08 05:28	0°♃	
greatest brilliancy	2477 Sep 30 23:09	29°♃11'16	-4.6m		2480 Apr 01 09:01	0°♃	
	2477 Oct 02 14:20	0°♃		asc. node	2480 Apr 18 00:05	20°♃29'18	
asc. node	2477 Nov 01 04:49	23°♃05'34			2480 Apr 25 18:29	0°♃	
morning max el	2477 Nov 05 13:33	27°♃22'53	46°28'02		2480 May 20 11:42	0°♃	
	2477 Nov 08 03:51	0°♃			2480 Jun 14 15:22	0°♃	
	2477 Dec 05 16:13	0°♃			2480 Jul 10 11:11	0°♃	
	2477 Dec 31 04:32	0°♃			2480 Aug 06 12:52	0°♃	
	2478 Jan 24 22:05	0°♃		desc. node	2480 Aug 07 13:17	1°♃05'09	
	2478 Feb 18 07:48	0°♃		evening max el	2480 Aug 27 22:51	21°♃50'35	45°58'52
desc. node	2478 Feb 20 18:19	3°♃00'27			2480 Sep 05 18:14	0°♃	
	2478 Mar 14 14:36	0°♃		greatest brilliancy	2480 Oct 05 13:09	20°♃10'02	-4.6m
	2478 Apr 07 21:05	0°♃		retrograde	2480 Oct 16 03:42	22°♃13'02	
	2478 May 02 04:37	0°♃		evening set	2480 Nov 01 00:28	17°♃24'08	
morning set	2478 May 11 19:21	11°♃50'38		inferior conj	2480 Nov 05 22:35	14°♃29'41	-5°-24'-20
	2478 May 26 13:33	0°♃		minimum elong	2480 Nov 06 08:42	14°♃14'16	5°21'50
asc. node	2478 Jun 13 21:39	22°♃32'34		min. Earth dist.	2480 Nov 06 19:35	13°♃57'43	0.27119 AU
				morning rise	2480 Nov 11 16:15	11°♃06'41	
superior conj	2478 Jun 17 22:33	27°♃30'10	0°09'38	direct	2480 Nov 26 17:01	6°♃38'11	
minimum elong	2478 Jun 17 20:33	27°♃24'01	0°09'31	asc. node	2480 Nov 28 16:32	6°♃42'55	
behind sun begin	2478 Jun 17 02:12	26°♃27'39		greatest brilliancy	2480 Dec 10 10:12	10°♃05'40	-4.7m
behind sun end	2478 Jun 18 14:53	28°♃20'24			2481 Jan 06 04:42	0°♃	
max. Earth dist.	2478 Jun 18 02:23	27°♃41'57	1.73539 AU	morning max el	2481 Jan 16 11:20	10°♃03'02	46°57'59
	2478 Jun 19 23:19	0°♃			2481 Feb 04 03:35	0°♃	
	2478 Jul 14 09:07	0°♃			2481 Mar 02 09:20	0°♃	
evening rise	2478 Jul 24 00:46	11°♃51'54		desc. node	2481 Mar 20 06:18	21°♃06'15	
	2478 Aug 07 18:41	0°♃			2481 Mar 27 17:12	0°♃	
	2478 Sep 01 04:42	0°♃			2481 Apr 21 15:59	0°♃	
	2478 Sep 25 16:20	0°♃			2481 May 16 10:47	0°♃	
desc. node	2478 Oct 03 11:14	9°♃31'00			2481 Jun 10 03:29	0°♃	
	2478 Oct 20 06:45	0°♃			2481 Jul 04 18:02	0°♃	
	2478 Nov 14 01:35	0°♃		asc. node	2481 Jul 11 09:29	8°♃07'24	
	2478 Dec 09 05:11	0°♃		morning set	2481 Jul 18 22:03	17°♃20'18	
	2479 Jan 04 06:23	0°♃			2481 Jul 29 05:34	0°♃	

max. Earth dist.	2481 Aug 21 09:20	28°♁32'33	1.73074 AU	inferior conj	2484 Jan 20 08:40	0°≈07'17	5°47'19
	2481 Aug 22 13:38	0°♎		minimum elong	2484 Jan 19 22:16	0°≈23'15	5°44'44
					2484 Jan 20 13:24	30°R♁	
superior conj	2481 Aug 24 07:31	2°♎09'27	1°20'08	morning rise	2484 Jan 25 00:51	27°♁19'49	
minimum elong	2481 Aug 24 01:52	1°♎52'02	1°20'04	direct	2484 Feb 09 18:59	22°♁28'16	
	2481 Sep 15 18:47	0°♊		greatest brilliancy	2484 Feb 20 17:06	24°♁42'49	-4.6m
evening rise	2481 Sep 30 00:24	17°♊40'50			2484 Mar 01 18:54	0°≈	
	2481 Oct 09 22:18	0°♌		morning max el	2484 Mar 30 19:02	24°≈35'04	46°33'21
desc. node	2481 Oct 30 23:06	26°♌09'15			2484 Apr 05 04:18	0°♋	
	2481 Nov 03 01:21	0°♌		desc. node	2484 Apr 16 18:05	12°♋08'04	
	2481 Nov 27 04:45	0°♍			2484 May 03 00:32	0°♎	
	2481 Dec 21 09:36	0°≈			2484 May 29 06:54	0°♏	
	2482 Jan 14 18:42	0°♋			2484 Jun 23 20:57	0°♐	
	2482 Feb 08 14:06	0°♎			2484 Jul 19 00:58	0°♑	
asc. node	2482 Feb 21 02:11	14°♎45'46		asc. node	2484 Aug 07 21:23	23°♑58'04	
	2482 Mar 06 07:56	0°♏			2484 Aug 12 20:29	0°♒	
	2482 Apr 03 06:18	0°♐			2484 Sep 06 08:09	0°♓	
evening max el	2482 Apr 05 03:38	1°♐52'23	46°02'38	morning set	2484 Sep 25 10:27	23°♓37'58	
greatest brilliancy	2482 May 09 15:50	29°♐02'06	-4.5m		2484 Sep 30 13:23	0°♈	
	2482 May 11 18:19	0°♑			2484 Oct 24 14:21	0°♉	
retrograde	2482 May 24 12:20	2°♑54'48		max. Earth dist.	2484 Oct 30 14:26	7°♌30'50	1.71679 AU
	2482 Jun 05 14:24	30°R♐					
evening set	2482 Jun 08 13:12	28°♐29'40		superior conj	2484 Nov 02 06:18	10°♌50'46	0°55'27
desc. node	2482 Jun 12 15:35	26°♐05'04		minimum elong	2484 Nov 02 16:33	11°♌22'52	0°55'04
inferior conj	2482 Jun 14 22:30	24°♐39'31	0°-32'-32		2484 Nov 17 13:03	0°♌	
minimum elong	2482 Jun 14 21:17	24°♐41'24	0°32'11	desc. node	2484 Nov 27 10:54	12°♌26'02	
min. Earth dist.	2482 Jun 14 19:33	24°♐44'07	0.28866 AU		2484 Dec 11 10:51	0°♍	
morning rise	2482 Jun 21 05:39	20°♐52'45		evening rise	2484 Dec 12 12:52	1°♍21'39	
direct	2482 Jul 06 11:38	16°♐24'02			2485 Jan 04 08:41	0°≈	
greatest brilliancy	2482 Jul 19 19:50	19°♐31'00	-4.5m		2485 Jan 28 07:58	0°♋	
	2482 Aug 05 17:51	0°♑			2485 Feb 21 11:15	0°♎	
morning max el	2482 Aug 24 07:50	16°♑13'11	45°48'07		2485 Mar 17 22:18	0°♏	
	2482 Sep 07 01:47	0°♒		asc. node	2485 Mar 20 14:12	3°♏13'56	
asc. node	2482 Oct 03 19:09	29°♒18'26			2485 Apr 11 22:22	0°♐	
	2482 Oct 04 09:42	0°♎			2485 May 07 20:12	0°♑	
	2482 Oct 29 23:27	0°♊			2485 Jun 04 13:28	0°♒	
	2482 Nov 23 15:56	0°♌		evening max el	2485 Jun 14 16:49	10°♒03'59	45°24'46
	2482 Dec 17 21:26	0°♌			2485 Jul 08 09:07	0°♎	
	2483 Jan 10 21:57	0°♁		desc. node	2485 Jul 10 03:33	1°♎11'15	
desc. node	2483 Jan 23 08:30	15°♁34'39		greatest brilliancy	2485 Jul 20 07:36	6°♎46'43	-4.5m
	2483 Feb 03 20:45	0°≈		retrograde	2485 Aug 02 06:02	9°♎43'00	
morning set	2483 Feb 25 13:34	27°≈10'42		evening set	2485 Aug 19 14:17	4°♎06'25	
	2483 Feb 27 19:42	0°♋		inferior conj	2485 Aug 23 16:46	1°♎35'54	-8°-6'-34
	2483 Mar 23 20:11	0°♎		minimum elong	2485 Aug 23 10:08	1°♎46'16	8°05'54
				min. Earth dist.	2485 Aug 23 23:01	1°♎26'09	0.28854 AU
superior conj	2483 Apr 06 12:59	17°♎02'56	-1°-17'-9		2485 Aug 26 06:34	30°R♒	
minimum elong	2483 Apr 06 21:35	17°♎29'40	1°16'59	morning rise	2485 Aug 27 05:46	29°♒24'46	
max. Earth dist.	2483 Apr 10 08:26	21°♎47'00	1.72413 AU	direct	2485 Sep 14 06:11	23°♒20'16	
	2483 Apr 16 23:23	0°♏		greatest brilliancy	2485 Sep 28 15:06	26°♒58'21	-4.5m
	2483 May 11 05:59	0°♐			2485 Oct 04 04:44	0°♎	
evening rise	2483 May 15 03:47	4°♐48'48		asc. node	2485 Oct 31 06:45	22°♎12'53	
asc. node	2483 May 16 11:53	6°♐27'35		morning max el	2485 Nov 03 03:28	25°♎02'25	46°26'31
	2483 Jun 04 16:05	0°♑			2485 Nov 08 00:43	0°♊	
	2483 Jun 29 05:43	0°♒			2485 Dec 05 07:54	0°♌	
	2483 Jul 23 23:40	0°♎			2485 Dec 30 18:16	0°♌	
	2483 Aug 18 00:05	0°♊			2486 Jan 24 10:48	0°♁	
desc. node	2483 Sep 05 01:17	21°♊21'03			2486 Feb 17 19:54	0°≈	
	2483 Sep 12 10:37	0°♌		desc. node	2486 Feb 19 20:26	2°≈29'46	
	2483 Oct 08 14:18	0°♌			2486 Mar 14 02:18	0°♋	
	2483 Nov 05 07:07	0°♁			2486 Apr 07 08:29	0°♎	
evening max el	2483 Nov 10 06:02	5°♁01'43	47°03'48		2486 May 01 15:46	0°♏	
	2483 Dec 09 06:03	0°≈		morning set	2486 May 09 11:48	9°♏39'24	
greatest brilliancy	2483 Dec 18 19:21	5°≈14'12	-4.7m		2486 May 26 00:30	0°♐	
asc. node	2483 Dec 27 04:29	7°≈39'36		asc. node	2486 Jun 12 23:43	22°♐05'28	
retrograde	2483 Dec 30 19:30	7°≈55'18					
evening set	2484 Jan 14 20:07	3°≈24'35		superior conj	2486 Jun 15 16:26	25°♐24'18	0°06'27
min. Earth dist.	2484 Jan 19 14:55	0°≈34'33	0.26662 AU	minimum elong	2486 Jun 15 15:05	25°♐20'08	0°06'23

behind sun begin	2486 Jun 14 18:04	24°II15'36		greatest brilliancy	2488 Dec 08 01:49	7°III43'03	-4.7m
behind sun end	2486 Jun 16 12:05	26°II24'40			2489 Jan 06 07:50	0°♁	
max. Earth dist.	2486 Jun 15 22:05	25°II41'41	1.73525 AU	morning max el	2489 Jan 14 02:28	7°♁41'34	46°57'47
	2486 Jun 19 10:11	0°♁			2489 Feb 03 21:17	0°♁	
	2486 Jul 13 20:01	0°♁			2489 Mar 01 23:57	0°≈	
evening rise	2486 Jul 21 19:44	9°♁49'07		desc. node	2489 Mar 19 08:20	20°≈32'15	
	2486 Aug 07 05:45	0°♁			2489 Mar 27 06:18	0°♁	
	2486 Aug 31 16:03	0°♁			2489 Apr 21 04:09	0°♁	
	2486 Sep 25 04:07	0°III			2489 May 15 22:21	0°♁	
desc. node	2486 Oct 02 13:13	9°III00'35			2489 Jun 09 14:39	0°II	
	2486 Oct 19 19:07	0°♁			2489 Jul 04 04:58	0°♁	
	2486 Nov 13 14:48	0°♁		asc. node	2489 Jul 10 11:37	7°♁40'41	
	2486 Dec 08 19:51	0°≈		morning set	2489 Jul 16 16:04	15°♁15'11	
	2487 Jan 04 00:01	0°♁			2489 Jul 28 16:22	0°♁	
evening max el	2487 Jan 21 08:55	18°♁32'54	47°07'11	max. Earth dist.	2489 Aug 19 05:20	26°♁32'48	1.73109 AU
asc. node	2487 Jan 23 16:23	20°♁53'05					
	2487 Feb 02 03:23	0°♁		superior conj	2489 Aug 22 01:30	0°♁03'24	1°19'02
greatest brilliancy	2487 Feb 27 15:05	18°♁36'51	-4.6m	minimum elong	2489 Aug 21 19:22	29°♁44'27	1°18'55
retrograde	2487 Mar 13 03:48	21°♁59'59			2489 Aug 22 00:24	0°♁	
evening set	2487 Mar 30 19:17	15°♁58'56			2489 Sep 15 05:37	0°♁	
inferior conj	2487 Apr 03 06:17	13°♁49'50	8°04'07	evening rise	2489 Sep 27 16:21	15°♁27'22	
minimum elong	2487 Apr 03 13:48	13°♁38'01	8°03'12		2489 Oct 09 09:17	0°III	
min. Earth dist.	2487 Apr 03 00:18	13°♁59'16	0.28081 AU	desc. node	2489 Oct 30 01:05	25°III40'34	
morning rise	2487 Apr 07 08:30	11°♁18'10			2489 Nov 02 12:35	0°♁	
direct	2487 Apr 24 05:34	5°♁47'36			2489 Nov 26 16:18	0°♁	
greatest brilliancy	2487 May 05 17:08	8°♁10'22	-4.5m		2489 Dec 20 21:34	0°≈	
desc. node	2487 May 15 05:42	13°♁04'52			2490 Jan 14 07:14	0°♁	
	2487 Jun 05 18:15	0°♁			2490 Feb 08 03:36	0°♁	
morning max el	2487 Jun 12 06:11	6°♁04'36	45°51'45	asc. node	2490 Feb 20 04:14	14°♁10'00	
	2487 Jul 05 15:48	0°II			2490 Mar 05 23:30	0°♁	
	2487 Aug 01 17:01	0°♁		evening max el	2490 Apr 02 20:04	29°♁40'59	46°04'53
	2487 Aug 27 12:38	0°♁			2490 Apr 03 03:47	0°II	
asc. node	2487 Sep 05 09:19	10°♁31'33		greatest brilliancy	2490 May 07 09:14	26°II53'37	-4.5m
	2487 Sep 21 13:33	0°♁			2490 May 15 21:37	0°♁	
	2487 Oct 16 01:24	0°♁		retrograde	2490 May 22 05:00	0°♁45'02	
	2487 Nov 09 04:46	0°III			2490 May 28 07:39	30°RII	
	2487 Dec 03 03:24	0°♁		evening set	2490 Jun 06 06:11	26°II19'25	
morning set	2487 Dec 07 21:03	5°♁56'54		desc. node	2490 Jun 11 17:41	23°II02'47	
desc. node	2487 Dec 25 22:45	28°♁40'36		inferior conj	2490 Jun 12 14:44	22°II29'47	0°-12'-28
	2487 Dec 26 23:59	0°♁		minimum elong	2490 Jun 12 14:17	22°II30'31	0°12'21
				transit middle	2490 Jun 12 14:17	22°II30'31	0°12'21
superior conj	2488 Jan 18 06:42	28°♁02'09	0°-52'-11	transit begin	2490 Jun 12 11:39	22°II34'38	
minimum elong	2488 Jan 17 19:09	27°♁25'52	0°51'44	transit end	2490 Jun 12 16:55	22°II26'23	
max. Earth dist.	2488 Jan 19 16:00	29°♁46'54	1.71121 AU	min. Earth dist.	2490 Jun 12 11:44	22°II34'29	0.28847 AU
	2488 Jan 19 20:10	0°≈		morning rise	2490 Jun 18 22:45	18°II41'49	
	2488 Feb 12 17:12	0°♁		direct	2490 Jul 04 04:13	14°II14'46	
evening rise	2488 Feb 28 09:38	19°♁38'46		greatest brilliancy	2490 Jul 17 09:30	17°II19'01	-4.5m
	2488 Mar 07 16:37	0°♁			2490 Aug 06 03:42	0°♁	
	2488 Mar 31 20:15	0°♁		morning max el	2490 Aug 21 23:39	14°♁03'02	45°47'22
asc. node	2488 Apr 17 02:02	20°♁00'26			2490 Sep 06 19:40	0°♁	
	2488 Apr 25 05:55	0°II		asc. node	2490 Oct 02 21:03	28°♁43'11	
	2488 May 19 23:33	0°♁			2490 Oct 03 23:52	0°♁	
	2488 Jun 14 04:00	0°♁			2490 Oct 29 12:06	0°♁	
	2488 Jul 10 01:20	0°♁			2490 Nov 23 03:50	0°III	
	2488 Aug 06 06:25	0°♁			2490 Dec 17 08:57	0°♁	
desc. node	2488 Aug 06 15:27	0°♁23'55			2491 Jan 10 09:15	0°♁	
evening max el	2488 Aug 25 12:57	19°♁33'09	45°56'47	desc. node	2491 Jan 22 10:37	15°♁06'14	
	2488 Sep 05 23:29	0°III			2491 Feb 03 07:54	0°≈	
greatest brilliancy	2488 Oct 02 23:56	17°III45'35	-4.6m	morning set	2491 Feb 23 00:14	24°≈39'24	
retrograde	2488 Oct 13 16:50	19°III50'13			2491 Feb 27 06:42	0°♁	
evening set	2488 Oct 29 16:30	14°III56'26			2491 Mar 23 07:04	0°♁	
inferior conj	2488 Nov 03 11:38	12°III05'54	-5°-42'-14				
minimum elong	2488 Nov 03 21:58	11°III50'10	5°39'45	superior conj	2491 Apr 04 02:25	14°♁41'52	-1°-18'-43
min. Earth dist.	2488 Nov 04 08:53	11°III33'33	0.27187 AU	minimum elong	2491 Apr 04 10:29	15°♁06'56	1°18'34
morning rise	2488 Nov 09 02:50	8°III46'27		max. Earth dist.	2491 Apr 08 01:39	19°♁37'46	1.72357 AU
direct	2488 Nov 24 07:25	4°III13'26			2491 Apr 16 10:11	0°♁	
asc. node	2488 Nov 27 18:36	4°III27'52			2491 May 10 16:46	0°II	

evening rise	2491 May 12 19:41	2°♁36'51		asc. node	2493 Oct 30 08:52	21°♁22'45	
asc. node	2491 May 15 13:55	6°♁00'40		morning max el	2493 Oct 31 18:05	22°♁45'03	46°25'00
	2491 Jun 04 02:57	0°♁			2493 Nov 07 20:30	0°♁	
	2491 Jun 28 16:49	0°♁			2493 Dec 04 22:58	0°♁	
	2491 Jul 23 11:13	0°♁			2493 Dec 30 07:29	0°♁	
	2491 Aug 17 12:23	0°♁			2494 Jan 23 23:03	0°♁	
desc. node	2491 Sep 04 03:16	20°♁48'20		desc. node	2494 Feb 17 07:32	0°♁	
	2491 Sep 12 00:12	0°♁			2494 Feb 18 22:25	2°♁00'06	
	2491 Oct 08 06:15	0°♁			2494 Mar 13 13:32	0°♁	
	2491 Nov 05 04:51	0°♁			2494 Apr 06 19:25	0°♁	
evening max el	2491 Nov 07 19:50	2°♁38'31	47°02'06		2494 May 01 02:29	0°♁	
	2491 Dec 10 18:48	0°♁		morning set	2494 May 07 04:08	7°♁28'59	
greatest brilliancy	2491 Dec 16 10:32	2°♁49'05	-4.7m		2494 May 25 11:05	0°♁	
asc. node	2491 Dec 26 06:34	5°♁22'00		asc. node	2494 Jun 12 01:51	21°♁39'41	
retrograde	2491 Dec 28 07:49	5°♁27'03					
evening set	2492 Jan 12 05:56	1°♁01'16		superior conj	2494 Jun 13 10:08	23°♁18'54	0°03'14
	2492 Jan 14 00:57	30°♁		minimum elong	2494 Jun 13 09:27	23°♁16'49	0°03'13
min. Earth dist.	2492 Jan 17 04:35	28°♁05'51	0.26626 AU	behind sun begin	2494 Jun 12 11:04	22°♁08'01	
inferior conj	2492 Jan 17 21:15	27°♁40'13	5°28'33	behind sun end	2494 Jun 14 07:51	24°♁25'38	
minimum elong	2492 Jan 17 11:05	27°♁55'51	5°25'57	max. Earth dist.	2494 Jun 13 17:35	23°♁41'50	1.73512 AU
morning rise	2492 Jan 22 16:37	24°♁48'04			2494 Jun 18 20:41	0°♁	
direct	2492 Feb 07 07:12	20°♁01'44			2494 Jul 13 06:33	0°♁	
greatest brilliancy	2492 Feb 18 07:12	22°♁17'43	-4.6m	evening rise	2494 Jul 19 14:34	7°♁47'03	
	2492 Mar 02 21:51	0°♁			2494 Aug 06 16:26	0°♁	
morning max el	2492 Mar 28 07:03	22°♁09'02	46°34'46		2494 Aug 31 03:02	0°♁	
	2492 Apr 05 01:00	0°♁			2494 Sep 24 15:32	0°♁	
desc. node	2492 Apr 15 20:03	11°♁25'01		desc. node	2494 Oct 01 15:12	8°♁31'15	
	2492 May 02 15:58	0°♁			2494 Oct 19 07:11	0°♁	
	2492 May 28 20:09	0°♁			2494 Nov 13 03:47	0°♁	
	2492 Jun 23 09:02	0°♁			2494 Dec 08 10:20	0°♁	
	2492 Jul 18 12:21	0°♁			2495 Jan 03 17:39	0°♁	
asc. node	2492 Aug 06 23:25	23°♁30'46		evening max el	2495 Jan 18 23:11	16°♁11'35	47°08'45
	2492 Aug 12 07:27	0°♁		asc. node	2495 Jan 22 18:27	20°♁01'07	
	2492 Sep 05 18:55	0°♁			2495 Feb 02 07:48	0°♁	
morning set	2492 Sep 23 02:29	21°♁25'24		greatest brilliancy	2495 Feb 25 06:33	16°♁19'30	-4.6m
	2492 Sep 30 00:06	0°♁		retrograde	2495 Mar 10 19:23	19°♁43'13	
	2492 Oct 24 01:06	0°♁		evening set	2495 Mar 28 12:45	13°♁38'21	
max. Earth dist.	2492 Oct 28 01:11	5°♁00'38	1.71725 AU	inferior conj	2495 Mar 31 21:17	11°♁33'15	8°12'38
				minimum elong	2495 Apr 01 04:15	11°♁22'19	8°11'53
superior conj	2492 Oct 30 20:02	8°♁29'52	0°58'09	min. Earth dist.	2495 Mar 31 14:30	11°♁43'55	0.28042 AU
minimum elong	2492 Oct 31 06:21	9°♁02'09	0°57'47	morning rise	2495 Apr 04 19:55	9°♁07'15	
	2492 Nov 16 23:52	0°♁		direct	2495 Apr 21 19:52	3°♁31'31	
desc. node	2492 Nov 26 13:01	11°♁58'42		greatest brilliancy	2495 May 03 06:41	5°♁54'01	-4.5m
evening rise	2492 Dec 10 00:00	28°♁51'49		desc. node	2495 May 14 07:51	11°♁46'21	
	2492 Dec 10 21:44	0°♁			2495 Jun 05 19:12	0°♁	
	2493 Jan 03 19:40	0°♁		morning max el	2495 Jun 09 21:58	3°♁53'25	45°52'44
	2493 Jan 27 19:07	0°♁			2495 Jul 05 08:03	0°♁	
	2493 Feb 20 22:39	0°♁			2495 Aug 01 06:26	0°♁	
	2493 Mar 17 10:09	0°♁			2495 Aug 27 00:44	0°♁	
asc. node	2493 Mar 19 16:07	2°♁43'38		asc. node	2495 Sep 04 11:14	10°♁02'01	
	2493 Apr 11 11:03	0°♁			2495 Sep 21 00:59	0°♁	
	2493 May 07 10:40	0°♁			2495 Oct 15 12:30	0°♁	
	2493 Jun 04 08:31	0°♁			2495 Nov 08 15:41	0°♁	
evening max el	2493 Jun 12 07:07	7°♁50'06	45°25'01		2495 Dec 02 14:17	0°♁	
desc. node	2493 Jul 09 05:40	29°♁56'35		morning set	2495 Dec 05 08:35	3°♁28'13	
	2493 Jul 09 07:51	0°♁		desc. node	2495 Dec 25 00:48	28°♁12'51	
greatest brilliancy	2493 Jul 17 19:56	4°♁33'02	-4.5m		2495 Dec 26 10:52	0°♁	
retrograde	2493 Jul 30 21:24	7°♁33'13					
evening set	2493 Aug 17 02:51	2°♁00'32		superior conj	2496 Jan 15 16:18	25°♁27'08	0°-48'-54
	2493 Aug 20 10:22	30°♁		minimum elong	2496 Jan 15 05:08	24°♁52'01	0°48'27
inferior conj	2493 Aug 21 08:37	29°♁25'22	-7°-58'-57	max. Earth dist.	2496 Jan 16 23:13	27°♁04'25	1.71109 AU
minimum elong	2493 Aug 21 01:25	29°♁36'36	7°58'10		2496 Jan 19 07:03	0°♁	
min. Earth dist.	2493 Aug 21 14:13	29°♁16'39	0.28885 AU		2496 Feb 12 04:05	0°♁	
morning rise	2493 Aug 24 23:45	27°♁11'08		evening rise	2496 Feb 25 20:34	17°♁09'00	
direct	2493 Sep 11 21:50	21°♁09'10			2496 Mar 07 03:29	0°♁	
greatest brilliancy	2493 Sep 26 08:05	24°♁48'10	-4.5m		2496 Mar 31 07:09	0°♁	
	2493 Oct 05 06:55	0°♁		asc. node	2496 Apr 16 04:08	19°♁33'01	

	2496 Apr 24 17:01	0°♁		2498 Oct 29 00:42	0°♁
	2496 May 19 11:05	0°♁		2498 Nov 22 15:45	0°♁
	2496 Jun 13 16:22	0°♁		2498 Dec 16 20:32	0°♁
	2496 Jul 09 15:20	0°♁		2499 Jan 09 20:36	0°♁
desc. node	2496 Aug 05 17:25	29°♁42'28		2499 Jan 21 12:35	14°♁37'08
	2496 Aug 06 00:05	0°♁		2499 Feb 02 19:05	0°♁
evening max el	2496 Aug 23 03:43	17°♁18'09	45°54'42	2499 Feb 20 10:36	22°♁06'59
	2496 Sep 06 06:33	0°♁		2499 Feb 26 17:45	0°♁
greatest brilliancy	2496 Sep 30 11:41	15°♁23'27	-4.6m	2499 Mar 22 18:02	0°♁
retrograde	2496 Oct 11 05:59	17°♁28'36			
evening set	2496 Oct 27 08:47	12°♁30'14		superior conj	2499 Apr 01 15:42
inferior conj	2496 Nov 01 00:53	9°♁43'33	-5°-59'-16	minimum elong	2499 Apr 01 23:11
minimum elong	2496 Nov 01 11:21	9°♁27'35	5°56'51	max. Earth dist.	2499 Apr 05 17:38
min. Earth dist.	2496 Nov 01 22:14	9°♁10'59	0.27254 AU		2499 Apr 15 21:06
morning rise	2496 Nov 06 13:24	6°♁27'39		evening rise	2499 May 10 11:25
direct	2496 Nov 21 22:03	1°♁50'17			2499 May 10 03:40
asc. node	2496 Nov 26 20:43	2°♁19'22		asc. node	2499 May 14 16:03
greatest brilliancy	2496 Dec 05 16:35	5°♁20'24	-4.7m		2499 Jun 03 13:56
	2497 Jan 06 09:12	0°♁			2499 Jun 28 04:00
morning max el	2497 Jan 11 17:01	5°♁19'22	46°57'22		2499 Jul 22 22:51
	2497 Feb 03 14:22	0°♁			2499 Aug 17 00:48
	2497 Mar 01 14:13	0°♁		desc. node	2499 Sep 03 05:15
desc. node	2497 Mar 18 10:15	19°♁58'35			2499 Sep 11 14:00
	2497 Mar 26 19:08	0°♁			2499 Oct 07 22:40
	2497 Apr 20 16:06	0°♁			2499 Nov 05 03:47
	2497 May 15 09:42	0°♁		evening max el	2499 Nov 05 08:35
	2497 Jun 09 01:36	0°♁			2499 Dec 13 04:46
	2497 Jul 03 15:40	0°♁		greatest brilliancy	2499 Dec 14 01:36
asc. node	2497 Jul 09 13:36	7°♁14'09		asc. node	2499 Dec 25 08:35
morning set	2497 Jul 14 10:19	13°♁11'30		retrograde	2499 Dec 25 19:41
	2497 Jul 28 02:58	0°♁			2500 Jan 06 21:57
max. Earth dist.	2497 Aug 17 00:00	24°♁29'31	1.73147 AU	evening set	2500 Jan 09 15:40
				inferior conj	2500 Jan 15 09:37
superior conj	2497 Aug 19 19:40	27°♁58'25	1°17'49	minimum elong	2500 Jan 14 23:45
minimum elong	2497 Aug 19 13:04	27°♁38'03	1°17'41	min. Earth dist.	2500 Jan 14 18:16
	2497 Aug 21 11:01	0°♁		morning rise	2500 Jan 20 08:07
	2497 Sep 14 16:19	0°♁		direct	2500 Feb 04 18:50
evening rise	2497 Sep 25 08:22	13°♁14'28		greatest brilliancy	2500 Feb 15 21:57
	2497 Oct 08 20:10	0°♁			2500 Mar 04 18:07
desc. node	2497 Oct 29 03:12	25°♁12'35		morning max el	2500 Mar 26 18:55
	2497 Nov 01 23:44	0°♁			2500 Apr 05 21:21
	2497 Nov 26 03:48	0°♁		desc. node	2500 Apr 15 22:14
	2497 Dec 20 09:29	0°♁			2500 May 03 07:28
	2498 Jan 13 19:45	0°♁			2500 May 29 09:34
	2498 Feb 07 17:11	0°♁			2500 Jun 23 21:19
asc. node	2498 Feb 19 06:11	13°♁33'47			2500 Jul 18 23:56
	2498 Mar 05 15:17	0°♁		asc. node	2500 Aug 07 01:24
evening max el	2498 Mar 31 12:01	27°♁28'16	46°07'08		2500 Aug 12 18:37
	2498 Apr 03 02:05	0°♁			2500 Sep 06 05:53
greatest brilliancy	2498 May 05 03:36	24°♁46'35	-4.5m	morning set	2500 Sep 21 18:55
retrograde	2498 May 19 21:23	28°♁35'46			2500 Sep 30 11:01
evening set	2498 Jun 03 23:27	24°♁09'34			2500 Oct 24 12:03
inferior conj	2498 Jun 10 07:09	20°♁20'47	0°07'28	max. Earth dist.	2500 Oct 26 15:15
minimum elong	2498 Jun 10 07:25	20°♁20'21	0°07'23		
transit middle	2498 Jun 10 07:25	20°♁20'21	0°07'23	superior conj	2500 Oct 29 10:05
transit begin	2498 Jun 10 03:48	20°♁26'02		minimum elong	2500 Oct 29 20:22
transit end	2498 Jun 10 11:02	20°♁14'41			2500 Nov 17 10:57
min. Earth dist.	2498 Jun 10 04:19	20°♁25'13	0.28823 AU	desc. node	2500 Nov 26 15:06
desc. node	2498 Jun 10 19:42	20°♁01'03		evening rise	2500 Dec 08 11:13
morning rise	2498 Jun 16 15:47	16°♁31'40			2500 Dec 11 08:57
direct	2498 Jul 01 20:34	12°♁06'18			2501 Jan 04 07:01
greatest brilliancy	2498 Jul 14 23:01	15°♁07'23	-4.5m		2501 Jan 28 06:39
	2498 Aug 06 10:38	0°♁			2501 Feb 21 10:27
morning max el	2498 Aug 19 14:37	11°♁51'14	45°46'35		2501 Mar 17 22:25
	2498 Sep 06 13:01	0°♁		asc. node	2501 Mar 19 18:14
asc. node	2498 Oct 01 23:10	28°♁08'52			2501 Apr 12 00:13
	2498 Oct 03 13:51	0°♁			2501 May 08 01:43



	2501 Jun 05 04:38	0°♋			2503 Nov 09 02:58	0°♌		
evening max el	2501 Jun 10 22:01	5°♋36'37	45°25'25		2503 Dec 03 01:28	0°♌		
desc. node	2501 Jul 09 07:39	28°♋38'26		morning set	2503 Dec 03 20:46	1°♌00'38		
	2501 Jul 11 16:23	0°♍		desc. node	2503 Dec 25 02:47	27°♌43'58		
greatest brilliancy	2501 Jul 16 07:52	2°♍17'58	-4.5m		2503 Dec 26 22:01	0°♍		
retrograde	2501 Jul 29 13:28	5°♍22'40						
	2501 Aug 15 11:14	30°♌♋		superior conj	2504 Jan 14 02:17	22°♌52'24	0°-45'-32	
evening set	2501 Aug 15 15:24	29°♌53'58		minimum elong	2504 Jan 13 15:37	22°♌18'49	0°45'06	
inferior conj	2501 Aug 20 00:30	27°♌14'04	-7°-50'-37	max. Earth dist.	2504 Jan 15 08:31	24°♌27'31	1.71100 AU	
minimum elong	2501 Aug 19 16:47	27°♌26'05	7°49'42		2504 Jan 19 18:13	0°♌		
min. Earth dist.	2501 Aug 20 05:09	27°♌06'50	0.28909 AU		2504 Feb 12 15:16	0°♌		
morning rise	2501 Aug 23 17:57	24°♌56'33		evening rise	2504 Feb 24 07:28	14°♌37'53		
direct	2501 Sep 10 13:46	18°♌57'27			2504 Mar 07 14:43	0°♍		
greatest brilliancy	2501 Sep 25 01:02	22°♌37'35	-4.5m		2504 Mar 31 18:29	0°♍		
	2501 Oct 07 02:23	0°♍		asc. node	2504 Apr 16 06:12	19°♌04'06		
asc. node	2501 Oct 30 10:58	20°♍32'51			2504 Apr 25 04:35	0°♍		
morning max el	2501 Oct 30 09:35	20°♍29'24	46°23'31		2504 May 19 23:07	0°♍		
	2501 Nov 08 15:57	0°♎			2504 Jun 14 05:16	0°♎		
	2501 Dec 05 14:07	0°♎			2504 Jul 10 05:57	0°♎		
	2501 Dec 30 20:56	0°♏		desc. node	2504 Aug 05 19:26	28°♍59'20		
	2502 Jan 24 11:38	0°♏			2504 Aug 06 18:41	0°♎		
	2502 Feb 17 19:36	0°♏		evening max el	2504 Aug 21 18:08	15°♎01'06	45°52'36	
desc. node	2502 Feb 19 00:27	1°♏29'12			2504 Sep 07 16:56	0°♎		
	2502 Mar 14 01:13	0°♏		greatest brilliancy	2504 Sep 29 00:30	13°♎01'24	-4.6m	
	2502 Apr 07 06:48	0°♏		retrograde	2504 Oct 09 18:37	15°♎05'53		
	2502 May 01 13:38	0°♏		evening set	2504 Oct 26 01:07	10°♎03'08		
morning set	2502 May 05 19:57	5°♏15'31		inferior conj	2504 Oct 30 14:08	7°♎20'24	-6°-15'-35	
	2502 May 25 22:04	0°♏		minimum elong	2504 Oct 31 00:38	7°♎04'19	6°13'16	
				min. Earth dist.	2504 Oct 31 11:49	6°♎47'14	0.27315 AU	
superior conj	2502 Jun 12 03:29	21°♏11'07	0°00'-1	morning rise	2504 Nov 04 23:41	4°♎08'10		
minimum elong	2502 Jun 12 03:28	21°♏11'04	0°00'02		2504 Nov 15 06:37	30°♌♎		
behind sun begin	2502 Jun 11 06:15	20°♏05'50		direct	2504 Nov 20 12:16	29°♎26'23		
behind sun end	2502 Jun 13 00:42	22°♏16'17			2504 Nov 25 20:19	0°♎		
asc. node	2502 Jun 12 03:49	21°♏12'07		asc. node	2504 Nov 26 22:39	0°♎14'54		
max. Earth dist.	2502 Jun 12 14:16	21°♏44'16	1.73498 AU	greatest brilliancy	2504 Dec 04 06:55	2°♎56'21	-4.6m	
	2502 Jun 19 07:37	0°♏			2505 Jan 07 09:36	0°♏		
	2502 Jul 13 17:32	0°♏		morning max el	2505 Jan 10 06:33	2°♏53'55	46°57'06	
evening rise	2502 Jul 18 09:20	5°♏43'26			2505 Feb 04 07:20	0°♏		
	2502 Aug 07 03:35	0°♏			2505 Mar 02 04:31	0°♏		
	2502 Aug 31 14:27	0°♏		desc. node	2505 Mar 18 12:27	19°♏25'21		
	2502 Sep 25 03:22	0°♏			2505 Mar 27 08:06	0°♏		
desc. node	2502 Oct 01 17:22	8°♎01'22			2505 Apr 21 04:15	0°♏		
	2502 Oct 19 19:37	0°♏			2505 May 15 21:19	0°♏		
	2502 Nov 13 17:10	0°♏			2505 Jun 09 12:52	0°♏		
	2502 Dec 09 01:21	0°♏			2505 Jul 04 02:42	0°♏		
	2503 Jan 04 12:08	0°♏		asc. node	2505 Jul 09 15:37	6°♏46'42		
evening max el	2503 Jan 17 14:14	13°♏50'50	47°09'58	morning set	2505 Jul 13 04:10	11°♏05'35		
asc. node	2503 Jan 22 20:23	19°♏06'17			2505 Jul 28 13:53	0°♏		
	2503 Feb 03 15:03	0°♏		max. Earth dist.	2505 Aug 15 17:47	22°♏22'41	1.73183 AU	
greatest brilliancy	2503 Feb 23 21:54	13°♏59'43	-4.6m					
retrograde	2503 Mar 09 11:00	17°♏23'31		superior conj	2505 Aug 18 13:33	25°♏51'51	1°16'28	
evening set	2503 Mar 27 05:43	11°♏15'11		minimum elong	2505 Aug 18 06:32	25°♏30'12	1°16'20	
inferior conj	2503 Mar 30 11:56	9°♏13'44	8°20'25		2505 Aug 21 21:54	0°♏		
minimum elong	2503 Mar 30 18:15	9°♏03'48	8°19'49		2505 Sep 15 03:19	0°♏		
min. Earth dist.	2503 Mar 30 04:01	9°♏26'07	0.28003 AU	evening rise	2505 Sep 24 00:19	11°♏00'38		
morning rise	2503 Apr 03 07:01	6°♏53'20			2505 Oct 09 07:22	0°♏		
direct	2503 Apr 20 10:19	1°♏12'43		desc. node	2505 Oct 29 05:13	24°♎43'24		
greatest brilliancy	2503 May 01 19:08	3°♏34'02	-4.5m		2505 Nov 02 11:12	0°♏		
desc. node	2503 May 14 09:53	10°♏28'05			2505 Nov 26 15:33	0°♏		
	2503 Jun 06 19:40	0°♏			2505 Dec 20 21:36	0°♏		
morning max el	2503 Jun 08 13:42	1°♏40'19	45°53'45		2506 Jan 14 08:26	0°♏		
	2503 Jul 06 00:32	0°♏			2506 Feb 08 06:56	0°♏		
	2503 Aug 01 20:12	0°♏		asc. node	2506 Feb 19 08:19	12°♏57'44		
	2503 Aug 27 13:13	0°♏			2506 Mar 06 07:23	0°♏		
asc. node	2503 Sep 04 13:19	9°♏31'45		evening max el	2506 Mar 30 02:55	25°♏12'33	46°09'14	
	2503 Sep 21 12:48	0°♏			2506 Apr 04 01:27	0°♏		
	2503 Oct 15 23:57	0°♏		greatest brilliancy	2506 May 03 21:18	22°♏37'56	-4.5m	

retrograde	2506 May 18 13:21	26° $\Pi$ 25'47		superior conj	2508 Oct 27 00:03	3° $\mathbb{M}$ 48'45	1°03'11
evening set	2506 Jun 02 16:46	21° $\Pi$ 58'32		minimum elong	2508 Oct 27 10:15	4° $\mathbb{M}$ 20'38	1°02'51
inferior conj	2506 Jun 08 23:31	18° $\Pi$ 11'00	0°27'27		2508 Nov 16 21:53	0° $\mathcal{Z}$	
minimum elong	2506 Jun 09 00:31	18° $\Pi$ 09'24	0°27'10	desc. node	2508 Nov 25 17:02	11° $\mathcal{Z}$ 01'54	
min. Earth dist.	2506 Jun 08 21:12	18° $\Pi$ 14'38	0.28805 AU	evening rise	2508 Dec 05 22:25	23° $\mathcal{Z}$ 51'20	
desc. node	2506 Jun 10 21:43	16° $\Pi$ 58'36			2508 Dec 10 20:01	0° $\mathcal{Z}$	
morning rise	2506 Jun 15 08:36	14° $\Pi$ 20'50			2509 Jan 03 18:14	0° $\approx$	
direct	2506 Jun 30 12:24	9° $\Pi$ 56'49			2509 Jan 27 18:02	0° $\mathcal{H}$	
greatest brilliancy	2506 Jul 13 13:33	12° $\Pi$ 55'57	-4.5m		2509 Feb 20 22:06	0° $\mathcal{Y}$	
	2506 Aug 07 15:48	0° $\mathcal{E}$			2509 Mar 17 10:30	0° $\mathcal{B}$	
morning max el	2506 Aug 18 05:08	9° $\mathcal{E}$ 37'27	45°45'55	asc. node	2509 Mar 18 20:18	1° $\mathcal{B}$ 42'20	
	2506 Sep 07 06:16	0° $\mathcal{Q}$			2509 Apr 11 13:09	0° $\Pi$	
asc. node	2506 Oct 02 01:17	27° $\mathcal{Q}$ 34'19			2509 May 07 16:36	0° $\mathcal{E}$	
	2506 Oct 04 03:53	0° $\mathbb{N}$			2509 Jun 05 00:56	0° $\mathcal{Q}$	
	2506 Oct 29 13:22	0° $\mathcal{L}$		evening max el	2509 Jun 08 13:50	3° $\mathcal{Q}$ 26'35	45°25'51
	2506 Nov 23 03:46	0° $\mathbb{M}$		desc. node	2509 Jul 08 09:42	27° $\mathcal{Q}$ 19'13	
	2506 Dec 17 08:11	0° $\mathcal{Z}$			2509 Jul 13 15:57	0° $\mathbb{N}$	
desc. node	2507 Jan 10 08:02	0° $\mathcal{Z}$		greatest brilliancy	2509 Jul 13 19:53	0° $\mathbb{N}$ 04'20	-4.5m
	2507 Jan 21 14:38	14° $\mathcal{Z}$ 08'05		retrograde	2509 Jul 27 05:49	3° $\mathbb{N}$ 13'22	
	2507 Feb 03 06:18	0° $\approx$			2509 Aug 09 02:06	30° $\mathcal{R}$ $\mathcal{Q}$	
morning set	2507 Feb 18 21:13	19° $\approx$ 35'04		evening set	2509 Aug 13 04:05	27° $\mathcal{Q}$ 48'44	
	2507 Feb 27 04:48	0° $\mathcal{H}$		inferior conj	2509 Aug 17 16:30	25° $\mathcal{Q}$ 03'57	-7°-41'-39
	2507 Mar 23 04:57	0° $\mathcal{Y}$		minimum elong	2509 Aug 17 08:19	25° $\mathcal{Q}$ 16'42	7°40'35
				min. Earth dist.	2509 Aug 17 19:58	24° $\mathcal{Q}$ 58'34	0.28936 AU
superior conj	2507 Mar 31 05:19	9° $\mathcal{Y}$ 59'04	-1°-21'-26	morning rise	2509 Aug 21 12:23	22° $\mathcal{Q}$ 42'58	
minimum elong	2507 Mar 31 12:09	10° $\mathcal{Y}$ 20'20	1°21'21	direct	2509 Sep 08 06:20	16° $\mathcal{Q}$ 47'00	
max. Earth dist.	2507 Apr 04 08:52	15° $\mathcal{Y}$ 08'42	1.72242 AU	greatest brilliancy	2509 Sep 22 17:32	20° $\mathcal{Q}$ 27'25	-4.5m
	2507 Apr 16 07:57	0° $\mathcal{B}$			2509 Oct 07 16:31	0° $\mathbb{N}$	
evening rise	2507 May 09 03:19	28° $\mathcal{B}$ 11'28		morning max el	2509 Oct 28 01:51	18° $\mathbb{N}$ 16'34	46°21'54
	2507 May 10 14:33	0° $\Pi$		asc. node	2509 Oct 29 12:53	19° $\mathbb{N}$ 43'59	
asc. node	2507 May 14 18:00	5° $\Pi$ 06'11			2509 Nov 08 10:41	0° $\mathcal{L}$	
	2507 Jun 04 00:54	0° $\mathcal{E}$			2509 Dec 05 04:53	0° $\mathbb{M}$	
	2507 Jun 28 15:15	0° $\mathcal{Q}$			2509 Dec 30 10:04	0° $\mathcal{Z}$	
	2507 Jul 23 10:35	0° $\mathbb{N}$			2510 Jan 23 23:54	0° $\mathcal{Z}$	
	2507 Aug 17 13:23	0° $\mathcal{L}$			2510 Feb 17 07:19	0° $\approx$	
desc. node	2507 Sep 03 07:25	19° $\mathcal{L}$ 42'20		desc. node	2510 Feb 18 02:34	0° $\approx$ 59'33	
	2507 Sep 12 04:01	0° $\mathbb{M}$			2510 Mar 13 12:34	0° $\mathcal{H}$	
	2507 Oct 08 15:26	0° $\mathcal{Z}$			2510 Apr 06 17:52	0° $\mathcal{Y}$	
evening max el	2507 Nov 03 20:44	27° $\mathcal{Z}$ 44'06	46°58'16		2510 May 01 00:28	0° $\mathcal{B}$	
	2507 Nov 06 03:45	0° $\mathcal{Z}$		morning set	2510 May 03 11:57	3° $\mathcal{B}$ 03'30	
greatest brilliancy	2507 Dec 12 16:02	27° $\mathcal{Z}$ 54'56	-4.7m		2510 May 25 08:43	0° $\Pi$	
	2507 Dec 19 11:14	0° $\approx$					
retrograde	2507 Dec 24 07:51	0° $\approx$ 28'02		superior conj	2510 Jun 09 21:02	19° $\Pi$ 04'59	0°-3'-16
asc. node	2507 Dec 25 10:37	0° $\approx$ 26'31		minimum elong	2510 Jun 09 21:44	19° $\Pi$ 07'08	0°03'16
	2507 Dec 29 02:13	30° $\mathcal{R}$ $\mathcal{Z}$		behind sun begin	2510 Jun 08 23:15	17° $\Pi$ 57'58	
evening set	2508 Jan 08 01:32	26° $\mathcal{Z}$ 10'03		behind sun end	2510 Jun 10 20:14	20° $\Pi$ 16'17	
inferior conj	2508 Jan 13 21:56	22° $\mathcal{Z}$ 43'05	4°48'38	max. Earth dist.	2510 Jun 10 12:52	19° $\Pi$ 53'41	1.73478 AU
minimum elong	2508 Jan 13 12:26	22° $\mathcal{Z}$ 57'40	4°46'01	asc. node	2510 Jun 11 05:51	20° $\Pi$ 45'51	
min. Earth dist.	2508 Jan 13 07:54	23° $\mathcal{Z}$ 04'37	0.26564 AU		2510 Jun 18 18:11	0° $\mathcal{E}$	
morning rise	2508 Jan 18 23:32	19° $\mathcal{Z}$ 42'19			2510 Jul 13 04:07	0° $\mathcal{Q}$	
direct	2508 Feb 03 06:22	15° $\mathcal{Z}$ 04'52		evening rise	2510 Jul 16 04:26	3° $\mathcal{Q}$ 42'06	
greatest brilliancy	2508 Feb 14 12:59	17° $\mathcal{Z}$ 26'50	-4.7m		2510 Aug 06 14:21	0° $\mathbb{N}$	
	2508 Mar 05 09:09	0° $\approx$			2510 Aug 31 01:32	0° $\mathcal{L}$	
morning max el	2508 Mar 24 07:43	17° $\approx$ 16'35	46°38'02		2510 Sep 24 14:55	0° $\mathbb{M}$	
	2508 Apr 05 16:54	0° $\mathcal{H}$		desc. node	2510 Sep 30 19:20	7° $\mathbb{M}$ 31'44	
desc. node	2508 Apr 15 00:13	10° $\mathcal{H}$ 00'16			2510 Oct 19 07:50	0° $\mathcal{Z}$	
	2508 May 02 22:31	0° $\mathcal{Y}$			2510 Nov 13 06:24	0° $\mathcal{Z}$	
	2508 May 28 22:39	0° $\mathcal{B}$			2510 Dec 08 16:16	0° $\approx$	
	2508 Jun 23 09:20	0° $\Pi$			2511 Jan 04 06:47	0° $\mathcal{H}$	
	2508 Jul 18 11:19	0° $\mathcal{E}$		evening max el	2511 Jan 15 05:54	11° $\mathcal{H}$ 32'27	47°11'12
asc. node	2508 Aug 06 03:31	22° $\mathcal{E}$ 35'21		asc. node	2511 Jan 21 22:32	18° $\mathcal{H}$ 11'54	
	2508 Aug 12 05:39	0° $\mathcal{Q}$			2511 Feb 04 00:28	0° $\mathcal{Y}$	
	2508 Sep 05 16:44	0° $\mathbb{N}$		greatest brilliancy	2511 Feb 21 14:07	11° $\mathcal{Y}$ 42'04	-4.6m
morning set	2508 Sep 19 11:16	17° $\mathbb{N}$ 01'49		retrograde	2511 Mar 07 02:39	15° $\mathcal{Y}$ 04'34	
	2508 Sep 29 21:50	0° $\mathcal{L}$		evening set	2511 Mar 24 22:32	8° $\mathcal{Y}$ 53'21	
	2508 Oct 23 22:55	0° $\mathbb{M}$		min. Earth dist.	2511 Mar 27 17:25	7° $\mathcal{Y}$ 09'29	0.27959 AU
max. Earth dist.	2508 Oct 24 06:25	0° $\mathbb{M}$ 23'27	1.71823 AU	inferior conj	2511 Mar 28 02:34	6° $\mathcal{Y}$ 55'09	8°27'33

minimum elong	2511 Mar 28 08:13	6°Υ46'16	8°27'04		2513 Aug 21 08:26	0°η	
morning rise	2511 Mar 31 18:09	4°Υ40'07			2513 Sep 14 13:56	0°Ϸ	
	2511 Apr 10 18:06	30°Rϥ		evening rise	2513 Sep 21 16:56	8°Ϸ50'11	
direct	2511 Apr 18 00:59	28°ϥ55'06			2513 Oct 08 18:10	0°ϣ	
	2511 Apr 25 14:20	0°Υ		desc. node	2513 Oct 28 07:14	24°ϣ15'26	
greatest brilliancy	2511 Apr 29 06:38	1°Υ13'56	-4.5m		2513 Nov 01 22:17	0°ϣ	
desc. node	2511 May 13 11:52	9°Υ13'18			2513 Nov 26 03:00	0°ϣ	
morning max el	2511 Jun 06 05:14	29°Υ27'55	45°54'52		2513 Dec 20 09:30	0°≈	
	2511 Jun 06 18:33	0°ϣ			2514 Jan 13 21:00	0°ϥ	
	2511 Jul 05 16:15	0°ϣ			2514 Feb 07 20:40	0°Υ	
	2511 Aug 01 09:22	0°ϣ		asc. node	2514 Feb 18 10:21	12°Υ21'32	
	2511 Aug 27 01:11	0°Ω			2514 Mar 05 23:40	0°ϣ	
asc. node	2511 Sep 03 15:25	9°Ω03'03		evening max el	2514 Mar 27 17:07	22°ϣ55'22	46°11'34
	2511 Sep 21 00:08	0°η			2514 Apr 04 01:47	0°ϣ	
	2511 Oct 15 11:00	0°Ϸ		greatest brilliancy	2514 May 01 14:03	20°ϣ28'21	-4.5m
	2511 Nov 08 13:53	0°ϣ		retrograde	2514 May 16 05:24	24°ϣ16'21	
morning set	2511 Dec 01 08:50	28°ϣ33'37		evening set	2514 May 31 10:08	19°ϣ47'33	
	2511 Dec 02 12:21	0°ϣ		inferior conj	2514 Jun 06 15:50	16°ϣ01'41	0°47'29
desc. node	2511 Dec 24 04:55	27°ϣ16'21		minimum elong	2514 Jun 06 17:34	15°ϣ58'56	0°46'58
	2511 Dec 26 08:55	0°ϣ		min. Earth dist.	2514 Jun 06 14:08	16°ϣ04'21	0.28785 AU
				desc. node	2514 Jun 09 23:49	13°ϣ57'18	
superior conj	2512 Jan 11 11:57	20°ϣ17'30	0°-42'-4	morning rise	2514 Jun 13 01:15	12°ϣ10'49	
minimum elong	2512 Jan 11 01:51	19°ϣ45'45	0°41'38	direct	2514 Jun 28 03:47	7°ϣ47'38	
max. Earth dist.	2512 Jan 12 15:11	21°ϣ43'11	1.71089 AU	greatest brilliancy	2514 Jul 11 04:53	10°ϣ46'05	-4.5m
	2512 Jan 19 05:07	0°≈			2514 Aug 07 18:50	0°ϣ	
	2512 Feb 12 02:10	0°ϥ		morning max el	2514 Aug 15 20:11	7°ϣ25'46	45°45'30
evening rise	2512 Feb 21 17:58	12°ϥ06'22			2514 Sep 06 22:50	0°Ω	
	2512 Mar 07 01:38	0°Υ		asc. node	2514 Oct 01 03:10	27°Ω00'12	
	2512 Mar 31 05:30	0°ϣ			2514 Oct 03 17:27	0°η	
asc. node	2512 Apr 15 08:10	18°ϣ35'59			2514 Oct 29 01:39	0°Ϸ	
	2512 Apr 24 15:50	0°ϣ			2514 Nov 22 15:25	0°ϣ	
	2512 May 19 10:49	0°ϣ			2514 Dec 16 19:31	0°ϣ	
	2512 Jun 13 17:51	0°Ω			2515 Jan 09 19:11	0°ϣ	
	2512 Jul 09 20:15	0°η		desc. node	2515 Jan 20 16:46	13°ϣ40'00	
desc. node	2512 Aug 04 21:37	28°η17'41			2515 Feb 02 17:20	0°≈	
	2512 Aug 06 13:11	0°Ϸ		morning set	2515 Feb 16 07:22	17°≈02'08	
evening max el	2512 Aug 19 08:01	12°Ϸ44'27	45°50'34		2515 Feb 26 15:44	0°ϥ	
	2512 Sep 08 05:47	0°ϣ			2515 Mar 22 15:48	0°Υ	
greatest brilliancy	2512 Sep 26 13:52	10°ϣ42'10	-4.6m				
retrograde	2512 Oct 07 07:03	12°ϣ45'44		superior conj	2515 Mar 28 18:19	7°Υ36'29	-1°-22'-36
evening set	2512 Oct 23 17:42	7°ϣ38'27		minimum elong	2515 Mar 29 00:25	7°Υ55'28	1°22'31
inferior conj	2512 Oct 28 03:44	4°ϣ59'43	-6°-30'-56	max. Earth dist.	2515 Apr 01 20:02	12°Υ40'32	1.72184 AU
minimum elong	2512 Oct 28 14:11	4°ϣ43'41	6°28'45		2515 Apr 15 18:45	0°ϣ	
min. Earth dist.	2512 Oct 29 01:55	4°ϣ25'41	0.27384 AU	evening rise	2515 May 06 18:35	25°ϣ57'24	
morning rise	2512 Nov 02 10:10	1°ϣ51'16			2515 May 10 01:20	0°ϣ	
	2512 Nov 06 00:21	30°RϷ		asc. node	2515 May 13 20:04	4°ϣ39'19	
direct	2512 Nov 18 02:17	27°Ϸ04'39			2515 Jun 03 11:47	0°ϣ	
asc. node	2512 Nov 26 00:44	28°Ϸ17'13			2515 Jun 28 02:23	0°Ω	
	2512 Nov 30 15:37	0°ϣ			2515 Jul 22 22:14	0°η	
greatest brilliancy	2512 Dec 01 22:15	0°ϣ35'12	-4.6m		2515 Aug 17 01:53	0°Ϸ	
	2513 Jan 07 08:36	0°ϣ		desc. node	2515 Sep 02 09:23	19°Ϸ09'12	
morning max el	2513 Jan 07 19:43	0°ϣ28'17	46°56'35		2515 Sep 11 17:59	0°ϣ	
	2513 Feb 03 23:45	0°ϣ			2515 Oct 08 08:16	0°ϣ	
	2513 Mar 01 18:29	0°≈		evening max el	2515 Nov 01 09:46	25°ϣ19'42	46°56'33
desc. node	2513 Mar 17 14:27	18°≈52'22			2515 Nov 06 04:26	0°ϣ	
	2513 Mar 26 20:44	0°ϥ		greatest brilliancy	2515 Dec 10 05:29	25°ϣ27'48	-4.7m
	2513 Apr 20 16:04	0°Υ		retrograde	2515 Dec 21 20:40	28°ϣ00'23	
	2513 May 15 08:36	0°ϣ		asc. node	2515 Dec 24 12:41	27°ϣ51'35	
	2513 Jun 08 23:47	0°ϣ		evening set	2516 Jan 05 11:54	23°ϣ45'13	
	2513 Jul 03 13:23	0°ϣ		inferior conj	2516 Jan 11 10:28	20°ϣ15'53	4°27'48
asc. node	2513 Jul 08 17:45	6°ϣ20'38		minimum elong	2516 Jan 11 01:25	20°ϣ29'44	4°25'14
morning set	2513 Jul 10 22:14	9°ϣ01'20		min. Earth dist.	2516 Jan 10 21:26	20°ϣ35'49	0.26542 AU
	2513 Jul 28 00:27	0°Ω		morning rise	2516 Jan 16 15:07	17°ϣ11'18	
max. Earth dist.	2513 Aug 13 11:53	20°Ω17'58	1.73216 AU	direct	2516 Jan 31 18:39	12°ϣ37'37	
				greatest brilliancy	2516 Feb 12 03:47	15°ϣ02'28	-4.7m
superior conj	2513 Aug 16 07:55	23°Ω47'53	1°15'04		2516 Mar 05 20:04	0°≈	
minimum elong	2513 Aug 16 00:32	23°Ω25'05	1°14'53	morning max el	2516 Mar 21 21:45	14°≈55'00	46°39'23

	2516 Apr 05 11:51	0°♁			2518 Sep 24 02:43	0°♁		
desc. node	2516 Apr 14 02:13	9°♁18'43		desc. node	2518 Sep 29 21:20	7°♁01'27		
	2516 May 02 13:25	0°♁			2518 Oct 18 20:20	0°♁		
	2516 May 28 11:43	0°♁			2518 Nov 12 19:57	0°♁		
	2516 Jun 22 21:21	0°♁			2518 Dec 08 07:37	0°♁		
	2516 Jul 17 22:42	0°♁			2519 Jan 04 02:07	0°♁		
asc. node	2516 Aug 05 05:33	22°♁07'51		evening max el	2519 Jan 12 21:36	9°♁13'34	47°12'23	
	2516 Aug 11 16:39	0°♁		asc. node	2519 Jan 21 00:35	17°♁15'47		
	2516 Sep 05 03:34	0°♁			2519 Feb 04 13:19	0°♁		
morning set	2516 Sep 17 03:42	14°♁50'30		greatest brilliancy	2519 Feb 19 07:20	9°♁25'20	-4.6m	
	2516 Sep 29 08:38	0°♁		retrograde	2519 Mar 04 18:03	12°♁45'14		
max. Earth dist.	2516 Oct 21 20:51	28°♁04'37	1.71866 AU	evening set	2519 Mar 22 15:15	6°♁31'51		
	2516 Oct 23 09:45	0°♁		inferior conj	2519 Mar 25 17:19	4°♁36'27	8°33'48	
				minimum elong	2519 Mar 25 22:17	4°♁28'39	8°33'26	
superior conj	2516 Oct 24 14:20	1°♁29'20	1°05'31	min. Earth dist.	2519 Mar 25 07:09	4°♁52'25	0.27913 AU	
minimum elong	2516 Oct 25 00:22	2°♁00'42	1°05'12	morning rise	2519 Mar 29 05:34	2°♁26'20		
	2516 Nov 16 08:48	0°♁			2519 Apr 02 15:19	30°♁		
desc. node	2516 Nov 24 19:11	10°♁34'16		direct	2519 Apr 15 15:38	26°♁37'30		
evening rise	2516 Dec 03 10:02	21°♁22'49		greatest brilliancy	2519 Apr 26 17:58	28°♁53'18	-4.5m	
	2516 Dec 10 07:01	0°♁			2519 Apr 29 08:52	0°♁		
	2517 Jan 03 05:22	0°♁		desc. node	2519 May 12 14:01	8°♁00'46		
	2517 Jan 27 05:22	0°♁		morning max el	2519 Jun 03 19:57	27°♁12'53	45°55'48	
	2517 Feb 20 09:44	0°♁			2519 Jun 06 16:43	0°♁		
	2517 Mar 16 22:39	0°♁			2519 Jul 05 08:01	0°♁		
asc. node	2517 Mar 17 22:14	1°♁11'18			2519 Jul 31 22:47	0°♁		
	2517 Apr 11 02:18	0°♁			2519 Aug 26 13:27	0°♁		
	2517 May 07 07:54	0°♁		asc. node	2519 Sep 02 17:22	8°♁32'50		
	2517 Jun 04 22:16	0°♁			2519 Sep 20 11:49	0°♁		
evening max el	2517 Jun 06 06:22	1°♁17'33	45°26'21		2519 Oct 14 22:21	0°♁		
desc. node	2517 Jul 07 11:49	25°♁56'42			2519 Nov 08 01:05	0°♁		
greatest brilliancy	2517 Jul 11 08:55	27°♁51'09	-4.5m	morning set	2519 Nov 28 20:51	26°♁05'38		
	2517 Jul 17 08:30	0°♁			2519 Dec 01 23:30	0°♁		
retrograde	2517 Jul 24 21:56	1°♁02'58		desc. node	2519 Dec 23 06:57	26°♁47'39		
	2517 Aug 01 04:33	30°♁			2519 Dec 25 20:05	0°♁		
evening set	2517 Aug 10 16:42	25°♁42'44						
inferior conj	2517 Aug 15 08:22	22°♁52'59	-7°-32'-6	superior conj	2520 Jan 08 21:40	17°♁42'01	0°-38'-30	
minimum elong	2517 Aug 14 23:47	23°♁06'21	7°30'53	minimum elong	2520 Jan 08 12:14	17°♁12'20	0°38'05	
min. Earth dist.	2517 Aug 15 10:38	22°♁49'27	0.28956 AU	max. Earth dist.	2520 Jan 09 18:56	18°♁48'54	1.71081 AU	
morning rise	2517 Aug 19 06:44	20°♁28'18			2520 Jan 18 16:18	0°♁		
direct	2517 Sep 05 23:01	14°♁35'57			2520 Feb 11 13:20	0°♁		
greatest brilliancy	2517 Sep 20 08:30	18°♁14'49	-4.5m	evening rise	2520 Feb 19 04:29	9°♁34'00		
	2517 Oct 08 03:14	0°♁			2520 Mar 06 12:48	0°♁		
morning max el	2517 Oct 25 17:47	16°♁02'42	46°20'16		2520 Mar 30 16:46	0°♁		
asc. node	2517 Oct 28 15:02	18°♁56'09		asc. node	2520 Apr 14 10:16	18°♁07'30		
	2517 Nov 08 05:03	0°♁			2520 Apr 24 03:20	0°♁		
	2517 Dec 04 19:33	0°♁			2520 May 18 22:49	0°♁		
	2517 Dec 29 23:10	0°♁			2520 Jun 13 06:48	0°♁		
	2518 Jan 23 12:10	0°♁			2520 Jul 09 11:07	0°♁		
	2518 Feb 16 19:04	0°♁		desc. node	2520 Aug 03 23:33	27°♁33'31		
desc. node	2518 Feb 17 04:33	0°♁29'23			2520 Aug 06 08:42	0°♁		
	2518 Mar 12 23:57	0°♁		evening max el	2520 Aug 16 21:05	10°♁24'29	45°48'29	
	2518 Apr 06 04:59	0°♁			2520 Sep 08 23:55	0°♁		
	2518 Apr 30 11:23	0°♁		greatest brilliancy	2520 Sep 24 03:10	8°♁21'22	-4.5m	
morning set	2518 May 01 03:54	0°♁50'57		retrograde	2520 Oct 04 19:21	10°♁24'23		
	2518 May 24 19:32	0°♁		evening set	2520 Oct 21 10:11	5°♁12'16		
				inferior conj	2520 Oct 25 17:16	2°♁37'48	-6°-45'-34	
superior conj	2518 Jun 07 14:22	16°♁57'27	0°-6'-31	minimum elong	2520 Oct 26 03:36	2°♁21'56	6°43'31	
minimum elong	2518 Jun 07 15:45	17°♁01'42	0°06'28	min. Earth dist.	2520 Oct 26 16:12	2°♁02'36	0.27453 AU	
behind sun begin	2518 Jun 06 18:36	15°♁56'42			2520 Oct 30 01:56	30°♁		
behind sun end	2518 Jun 08 12:53	18°♁06'43		morning rise	2520 Oct 30 20:29	29°♁33'29		
max. Earth dist.	2518 Jun 08 11:20	18°♁01'58	1.73461 AU	direct	2520 Nov 15 15:55	24°♁41'28		
asc. node	2518 Jun 10 07:59	20°♁19'12		asc. node	2520 Nov 25 02:51	26°♁22'52		
	2518 Jun 18 04:58	0°♁		greatest brilliancy	2520 Nov 29 14:21	28°♁13'57	-4.6m	
	2518 Jul 12 14:58	0°♁			2520 Dec 02 23:24	0°♁		
evening rise	2518 Jul 13 23:09	1°♁38'49		morning max el	2521 Jan 05 08:45	28°♁01'12	46°56'09	
	2518 Aug 06 01:22	0°♁			2521 Jan 07 07:05	0°♁		
	2518 Aug 30 12:52	0°♁			2521 Feb 03 16:13	0°♁		

	2521 Mar 01 08:36	0°♊		evening max el	2523 Oct 29 23:38	22°♌56'15	46°54'33
desc. node	2521 Mar 16 16:25	18°♊18'29			2523 Nov 06 07:03	0°♌	
	2521 Mar 26 09:36	0°♋		greatest brilliancy	2523 Dec 07 18:14	22°♌57'57	-4.7m
	2521 Apr 20 04:09	0°♌		retrograde	2523 Dec 19 09:33	25°♌30'17	
	2521 May 14 20:09	0°♍		asc. node	2523 Dec 23 14:43	25°♌08'12	
	2521 Jun 08 10:59	0°♎		evening set	2524 Jan 02 22:10	21°♌17'50	
	2521 Jul 03 00:22	0°♏		inferior conj	2524 Jan 08 22:37	17°♌46'16	4°06'04
asc. node	2521 Jul 07 19:44	5°♏53'12		minimum elong	2524 Jan 08 14:06	17°♌59'15	4°03'36
morning set	2521 Jul 08 16:22	6°♏56'22		min. Earth dist.	2524 Jan 08 10:27	18°♌04'48	0.26520 AU
	2521 Jul 27 11:19	0°♐		morning rise	2524 Jan 14 06:15	14°♌38'02	
max. Earth dist.	2521 Aug 11 07:14	18°♐16'02	1.73256 AU	direct	2524 Jan 29 07:10	10°♌08'10	
				greatest brilliancy	2524 Feb 09 17:30	12°♌35'01	-4.7m
superior conj	2521 Aug 14 02:14	21°♐42'41	1°13'32		2524 Mar 06 04:40	0°♍	
minimum elong	2521 Aug 13 18:30	21°♐18'50	1°13'20	morning max el	2524 Mar 19 12:06	12°♍33'10	46°40'50
	2521 Aug 20 19:20	0°♎			2524 Apr 05 06:37	0°♋	
	2521 Sep 14 00:57	0°♏		desc. node	2524 Apr 13 04:25	8°♋37'29	
evening rise	2521 Sep 19 09:28	6°♏38'15			2524 May 02 04:20	0°♌	
	2521 Oct 08 05:25	0°♐			2524 May 28 00:51	0°♍	
desc. node	2521 Oct 27 09:20	23°♐46'26			2524 Jun 22 09:29	0°♎	
	2521 Nov 01 09:48	0°♑			2524 Jul 17 10:13	0°♏	
	2521 Nov 25 14:51	0°♒		asc. node	2524 Aug 04 07:33	21°♏39'47	
	2521 Dec 19 21:48	0°♓			2524 Aug 11 03:48	0°♐	
	2522 Jan 13 09:59	0°♋			2524 Sep 04 14:32	0°♑	
	2522 Feb 07 10:53	0°♌		morning set	2524 Sep 14 20:33	12°♑40'14	
asc. node	2522 Feb 17 12:19	11°♌43'50			2524 Sep 28 19:33	0°♒	
	2522 Mar 05 16:36	0°♍		max. Earth dist.	2524 Oct 19 10:21	25°♒42'32	1.71915 AU
evening max el	2522 Mar 25 07:25	20°♍37'21	46°13'59				
	2522 Apr 04 03:48	0°♎		superior conj	2524 Oct 22 04:56	29°♒10'36	1°07'43
greatest brilliancy	2522 Apr 29 05:57	18°♎16'43	-4.5m	minimum elong	2524 Oct 22 14:43	29°♒41'10	1°07'25
retrograde	2522 May 13 21:51	22°♎06'13			2524 Oct 22 20:44	0°♏	
evening set	2522 May 29 03:40	17°♎35'23			2524 Nov 15 19:54	0°♑	
inferior conj	2522 Jun 04 08:10	13°♎51'31	1°07'30	desc. node	2524 Nov 23 21:14	10°♑05'43	
minimum elong	2522 Jun 04 10:38	13°♎47'37	1°06'45	evening rise	2524 Nov 30 21:34	18°♑53'20	
min. Earth dist.	2522 Jun 04 06:54	13°♎53'29	0.28765 AU		2524 Dec 09 18:16	0°♒	
desc. node	2522 Jun 09 01:51	10°♎57'01			2525 Jan 02 16:48	0°♓	
morning rise	2522 Jun 10 17:47	10°♎00'24			2525 Jan 26 16:59	0°♋	
direct	2522 Jun 25 19:07	5°♎37'32			2525 Feb 19 21:38	0°♌	
greatest brilliancy	2522 Jul 08 20:35	8°♎36'02	-4.5m		2525 Mar 16 11:03	0°♍	
	2522 Aug 07 20:40	0°♏		asc. node	2525 Mar 17 00:23	0°♎40'18	
morning max el	2522 Aug 13 12:01	5°♏15'18	45°45'02		2525 Apr 10 15:42	0°♏	
	2522 Sep 06 15:25	0°♐			2525 May 06 23:32	0°♐	
asc. node	2522 Sep 30 05:20	26°♐26'04		evening max el	2525 Jun 03 23:10	29°♐08'55	45°26'55
	2522 Oct 03 07:16	0°♑			2525 Jun 04 20:29	0°♑	
	2522 Oct 28 14:17	0°♒		desc. node	2525 Jul 06 13:48	24°♑31'28	
	2522 Nov 22 03:29	0°♓		greatest brilliancy	2525 Jul 08 23:25	25°♑39'58	-4.5m
	2522 Dec 16 07:15	0°♋		retrograde	2525 Jul 22 13:56	28°♑53'04	
	2523 Jan 09 06:41	0°♌		evening set	2525 Aug 08 05:38	23°♑37'30	
desc. node	2523 Jan 19 18:44	13°♌10'19		inferior conj	2525 Aug 13 00:28	20°♑42'46	-7°-21'-53
	2523 Feb 02 04:40	0°♍		minimum elong	2525 Aug 12 15:32	20°♑56'41	7°20'33
morning set	2523 Feb 13 17:18	14°♍27'27		min. Earth dist.	2525 Aug 13 01:46	20°♑40'45	0.28969 AU
	2523 Feb 26 02:56	0°♎		morning rise	2525 Aug 17 01:22	18°♑14'10	
	2523 Mar 22 02:56	0°♏		direct	2525 Sep 03 15:49	12°♑25'51	
				greatest brilliancy	2525 Sep 17 22:32	16°♑01'33	-4.5m
superior conj	2523 Mar 26 07:11	5°♏12'30	-1°-23'-35		2525 Oct 08 10:57	0°♑	
minimum elong	2523 Mar 26 12:30	5°♏29'04	1°23'33	morning max el	2525 Oct 23 09:02	13°♑47'31	46°18'36
max. Earth dist.	2523 Mar 30 06:15	10°♏08'31	1.72129 AU	asc. node	2525 Oct 27 17:06	18°♑09'09	
	2523 Apr 15 05:49	0°♐			2525 Nov 07 22:55	0°♒	
evening rise	2523 May 04 09:54	23°♐42'35			2525 Dec 04 10:02	0°♓	
	2523 May 09 12:24	0°♑			2525 Dec 29 12:14	0°♋	
asc. node	2523 May 12 22:12	4°♑11'46			2526 Jan 23 00:29	0°♌	
	2523 Jun 02 22:57	0°♒		desc. node	2526 Feb 16 06:36	29°♌59'00	
	2523 Jun 27 13:48	0°♓			2526 Feb 16 06:55	0°♍	
	2523 Jul 22 10:09	0°♋			2526 Mar 12 11:28	0°♎	
	2523 Aug 16 14:42	0°♌			2526 Apr 05 16:12	0°♏	
desc. node	2523 Sep 01 11:24	18°♌35'18		morning set	2526 Apr 28 19:30	28°♏37'05	
	2523 Sep 11 08:22	0°♍			2526 Apr 29 22:22	0°♐	
	2523 Oct 08 01:49	0°♎			2526 May 24 06:21	0°♑	

superior conj	2526 Jun 05 07:31	14°♄49'29	0°-9'-46	minimum elong	2528 Oct 23 17:09	0°♁01'55	6°57'23
minimum elong	2526 Jun 05 09:36	14°♄55'52	0°09'41		2528 Oct 23 18:24	30°♁	
behind sun begin	2526 Jun 04 15:11	13°♄59'13		min. Earth dist.	2528 Oct 24 06:29	29°♁41'28	0.27522 AU
behind sun end	2526 Jun 06 04:01	15°♄52'31		morning rise	2528 Oct 28 06:56	27°♁17'45	
max. Earth dist.	2526 Jun 06 09:50	16°♄10'23	1.73436 AU	direct	2528 Nov 13 05:52	22°♁19'47	
asc. node	2526 Jun 09 09:56	19°♄52'02		asc. node	2528 Nov 24 04:47	24°♁34'09	
	2526 Jun 17 15:43	0°♁		greatest brilliancy	2528 Nov 27 07:26	25°♁55'34	-4.6m
evening rise	2526 Jul 11 17:55	29°♁35'49			2528 Dec 04 10:48	0°♁	
	2526 Jul 12 01:48	0°♁		morning max el	2529 Jan 02 22:39	25°♁37'40	46°55'48
	2526 Aug 05 12:21	0°♁			2529 Jan 07 04:16	0°♁	
	2526 Aug 30 00:08	0°♁			2529 Feb 03 07:59	0°♁	
	2526 Sep 23 14:27	0°♁			2529 Feb 28 22:11	0°♁	
desc. node	2526 Sep 28 23:30	6°♁32'01		desc. node	2529 Mar 15 18:35	17°♁46'30	
	2526 Oct 18 08:46	0°♁			2529 Mar 25 22:02	0°♁	
	2526 Nov 12 09:27	0°♁			2529 Apr 19 15:52	0°♁	
	2526 Dec 07 23:03	0°♁			2529 May 14 07:24	0°♁	
	2527 Jan 03 21:58	0°♁			2529 Jun 07 21:54	0°♁	
evening max el	2527 Jan 10 12:24	6°♁52'13	47°13'06		2529 Jul 02 11:04	0°♁	
asc. node	2527 Jan 20 02:32	16°♁18'02		morning set	2529 Jul 06 10:15	4°♁51'29	
	2527 Feb 05 06:46	0°♁		asc. node	2529 Jul 06 21:46	5°♁26'47	
greatest brilliancy	2527 Feb 17 00:49	7°♁08'00	-4.6m		2529 Jul 26 21:53	0°♁	
retrograde	2527 Mar 02 08:37	10°♁24'34		max. Earth dist.	2529 Aug 09 04:18	16°♁20'26	1.73289 AU
evening set	2527 Mar 20 07:20	4°♁09'43					
inferior conj	2527 Mar 23 07:47	2°♁16'40	8°39'09	superior conj	2529 Aug 11 20:23	19°♁38'03	1°11'53
minimum elong	2527 Mar 23 11:58	2°♁10'04	8°38'54	minimum elong	2529 Aug 11 12:21	19°♁13'16	1°11'41
min. Earth dist.	2527 Mar 22 21:02	2°♁33'35	0.27867 AU		2529 Aug 20 05:53	0°♁	
morning rise	2527 Mar 26 16:51	0°♁11'09			2529 Sep 13 11:38	0°♁	
	2527 Mar 27 00:17	30°♁		evening rise	2529 Sep 17 02:08	4°♁28'01	
direct	2527 Apr 13 05:31	24°♁18'44			2529 Oct 07 16:19	0°♁	
greatest brilliancy	2527 Apr 24 06:05	26°♁32'33	-4.6m	desc. node	2529 Oct 26 11:21	23°♁18'13	
	2527 May 01 10:29	0°♁			2529 Oct 31 20:59	0°♁	
desc. node	2527 May 11 16:01	6°♁49'36			2529 Nov 25 02:23	0°♁	
morning max el	2527 Jun 01 09:39	24°♁55'04	45°57'00		2529 Dec 19 09:45	0°♁	
	2527 Jun 06 14:04	0°♁			2530 Jan 12 22:37	0°♁	
	2527 Jul 04 23:26	0°♁			2530 Feb 07 00:47	0°♁	
	2527 Jul 31 11:56	0°♁					
	2527 Aug 26 01:29	0°♁		asc. node	2530 Feb 16 14:29	11°♁07'51	
asc. node	2527 Sep 01 19:27	8°♁03'43			2530 Mar 05 09:21	0°♁	
	2527 Sep 19 23:15	0°♁		evening max el	2530 Mar 22 22:19	18°♁22'09	46°16'19
	2527 Oct 14 09:28	0°♁			2530 Apr 04 06:48	0°♁	
	2527 Nov 07 12:02	0°♁		greatest brilliancy	2530 Apr 26 21:20	16°♁05'29	-4.5m
morning set	2527 Nov 26 09:27	23°♁40'13		retrograde	2530 May 11 14:35	19°♁56'55	
	2527 Dec 01 10:25	0°♁		evening set	2530 May 26 21:16	15°♁23'47	
desc. node	2527 Dec 22 08:56	26°♁19'34		inferior conj	2530 Jun 02 00:25	11°♁42'01	1°27'25
	2527 Dec 25 07:00	0°♁		minimum elong	2530 Jun 02 03:37	11°♁37'00	1°26'28
				min. Earth dist.	2530 Jun 01 23:21	11°♁43'42	0.28748 AU
superior conj	2528 Jan 06 07:52	15°♁08'48	0°-34'-53	morning rise	2530 Jun 08 10:09	7°♁51'03	
minimum elong	2528 Jan 05 23:09	14°♁41'25	0°34'30	desc. node	2530 Jun 08 03:50	7°♁59'45	
max. Earth dist.	2528 Jan 06 22:08	15°♁53'41	1.71079 AU	direct	2530 Jun 23 10:56	3°♁28'04	
	2528 Jan 18 03:13	0°♁		greatest brilliancy	2530 Jul 06 12:19	6°♁26'54	-4.5m
	2528 Feb 11 00:17	0°♁			2530 Aug 07 20:49	0°♁	
evening rise	2528 Feb 16 15:05	7°♁02'30		morning max el	2530 Aug 11 04:39	3°♁07'45	45°44'38
	2528 Mar 05 23:48	0°♁			2530 Sep 06 07:19	0°♁	
	2528 Mar 30 03:54	0°♁		asc. node	2530 Sep 29 07:25	25°♁53'03	
asc. node	2528 Apr 13 12:20	17°♁39'20			2530 Oct 02 20:34	0°♁	
	2528 Apr 23 14:44	0°♁			2530 Oct 28 02:25	0°♁	
	2528 May 18 10:42	0°♁			2530 Nov 21 15:04	0°♁	
	2528 Jun 12 19:38	0°♁			2530 Dec 15 18:32	0°♁	
	2528 Jul 09 01:55	0°♁		desc. node	2531 Jan 08 17:46	0°♁	
desc. node	2528 Aug 03 01:36	26°♁49'56			2531 Jan 18 20:47	12°♁42'09	
	2528 Aug 06 04:29	0°♁		morning set	2531 Feb 01 15:36	0°♁	
evening max el	2528 Aug 14 09:50	8°♁04'55	45°46'39		2531 Feb 11 03:26	11°♁54'34	
	2528 Sep 09 23:38	0°♁			2531 Feb 25 13:45	0°♁	
greatest brilliancy	2528 Sep 21 15:33	6°♁01'05	-4.5m		2531 Mar 21 13:38	0°♁	
retrograde	2528 Oct 02 08:07	8°♁04'58		superior conj	2531 Mar 23 20:07	2°♁49'55	-1°-24'-26
evening set	2528 Oct 19 02:47	2°♁47'37		minimum elong	2531 Mar 24 00:38	3°♁03'57	1°24'25
inferior conj	2528 Oct 23 06:59	0°♁17'31	-6°-59'-18	max. Earth dist.	2531 Mar 27 18:14	7°♁43'09	1.72074 AU

	2531 Apr 14 16:28	0°♄		2533 Nov 07 16:14	0°♁	
evening rise	2531 May 02 01:17	21°♄29'11		2533 Dec 04 00:12	0°♁	
	2531 May 08 23:03	0°♁		2533 Dec 29 01:02	0°♁	
asc. node	2531 May 12 00:09	3°♁44'58		2534 Jan 22 12:32	0°♁	
	2531 Jun 02 09:44	0°♁	desc. node	2534 Feb 15 08:43	29°♁29'37	
	2531 Jun 27 00:53	0°♁		2534 Feb 15 18:32	0°♁	
	2531 Jul 21 21:46	0°♁		2534 Mar 11 22:45	0°♁	
	2531 Aug 16 03:14	0°♁		2534 Apr 05 03:14	0°♁	
desc. node	2531 Aug 31 13:33	18°♁02'39	morning set	2534 Apr 26 10:55	26°♁23'00	
	2531 Sep 10 22:33	0°♁		2534 Apr 29 09:11	0°♁	
	2531 Oct 07 19:19	0°♁		2534 May 23 17:02	0°♁	
evening max el	2531 Oct 27 14:08	20°♁35'49	46°52'32			
	2531 Nov 06 10:41	0°♁		superior conj	2534 Jun 03 00:39	12°♁41'49 0°-13'00
greatest brilliancy	2531 Dec 05 07:04	20°♁29'44	-4.7m	minimum elong	2534 Jun 03 03:25	12°♁50'19 0°12'54
retrograde	2531 Dec 16 22:26	23°♁01'20		behind sun begin	2534 Jun 02 13:49	12°♁08'29
asc. node	2531 Dec 22 16:45	22°♁20'03		behind sun end	2534 Jun 03 17:01	13°♁32'10
evening set	2531 Dec 31 08:45	18°♁51'32		max. Earth dist.	2534 Jun 04 06:56	14°♁14'58 1.73406 AU
inferior conj	2532 Jan 06 10:45	15°♁17'47	3°43'53	asc. node	2534 Jun 08 12:00	19°♁25'41
minimum elong	2532 Jan 06 02:50	15°♁29'51	3°41'32		2534 Jun 17 02:21	0°♁
min. Earth dist.	2532 Jan 05 23:27	15°♁35'01	0.26501 AU	evening rise	2534 Jul 09 12:40	27°♁33'13
morning rise	2532 Jan 11 21:12	12°♁05'59			2534 Jul 11 12:29	0°♁
direct	2532 Jan 26 20:02	7°♁40'01			2534 Aug 04 23:13	0°♁
greatest brilliancy	2532 Feb 07 06:46	10°♁07'56	-4.7m		2534 Aug 29 11:20	0°♁
	2532 Mar 06 10:26	0°♁			2534 Sep 23 02:10	0°♁
morning max el	2532 Mar 17 02:05	10°♁11'25	46°42'14	desc. node	2534 Sep 28 01:27	6°♁01'56
	2532 Apr 05 00:33	0°♁			2534 Oct 17 21:15	0°♁
desc. node	2532 Apr 12 06:21	7°♁57'03			2534 Nov 11 23:06	0°♁
	2532 May 01 18:42	0°♁			2534 Dec 07 14:42	0°♁
	2532 May 27 13:31	0°♁			2535 Jan 03 18:25	0°♁
	2532 Jun 21 21:11	0°♁		evening max el	2535 Jan 08 02:06	4°♁28'03 47°13'56
	2532 Jul 16 21:22	0°♁		asc. node	2535 Jan 19 04:41	15°♁19'36
asc. node	2532 Aug 03 09:40	21°♁13'02			2535 Feb 06 06:17	0°♁
	2532 Aug 10 14:38	0°♁		greatest brilliancy	2535 Feb 14 17:57	4°♁50'08 -4.7m
	2532 Sep 04 01:14	0°♁		retrograde	2535 Feb 27 22:49	8°♁03'59
morning set	2532 Sep 12 13:15	10°♁30'24		evening set	2535 Mar 17 23:03	1°♁48'01
	2532 Sep 28 06:13	0°♁		inferior conj	2535 Mar 20 22:14	29°♁56'54 8°43'42
max. Earth dist.	2532 Oct 16 21:41	23°♁14'42	1.71962 AU	minimum elong	2535 Mar 21 01:36	29°♁51'36 8°43'32
				min. Earth dist.	2535 Mar 20 11:03	0°♁14'30 0.27821 AU
superior conj	2532 Oct 19 19:34	26°♁52'57	1°09'48		2535 Mar 20 20:16	30°♁
minimum elong	2532 Oct 20 05:02	27°♁22'29	1°09'31	morning rise	2535 Mar 24 04:22	27°♁55'41
	2532 Oct 22 07:26	0°♁		direct	2535 Apr 10 18:56	21°♁59'43
	2532 Nov 15 06:42	0°♁		greatest brilliancy	2535 Apr 21 19:16	24°♁12'50 -4.6m
desc. node	2532 Nov 22 23:11	9°♁37'49			2535 May 02 19:34	0°♁
evening rise	2532 Nov 28 09:05	16°♁24'52		desc. node	2535 May 10 18:02	5°♁40'28
	2532 Dec 09 05:13	0°♁		morning max el	2535 May 29 23:11	22°♁36'39 45°58'16
	2533 Jan 02 03:55	0°♁			2535 Jun 06 10:42	0°♁
	2533 Jan 26 04:20	0°♁			2535 Jul 04 14:39	0°♁
	2533 Feb 19 09:16	0°♁			2535 Jul 31 00:59	0°♁
	2533 Mar 15 23:13	0°♁			2535 Aug 25 13:28	0°♁
asc. node	2533 Mar 16 02:25	0°♁09'40		asc. node	2535 Aug 31 21:33	7°♁34'39
	2533 Apr 10 04:55	0°♁			2535 Sep 19 10:39	0°♁
	2533 May 06 15:06	0°♁			2535 Oct 13 20:36	0°♁
evening max el	2533 Jun 01 15:09	26°♁59'08	45°27'30		2535 Nov 06 23:05	0°♁
	2533 Jun 04 19:17	0°♁		morning set	2535 Nov 23 21:54	21°♁14'00
desc. node	2533 Jul 05 15:50	23°♁04'12			2535 Nov 30 21:27	0°♁
greatest brilliancy	2533 Jul 06 14:18	23°♁29'58	-4.5m	desc. node	2535 Dec 21 11:03	25°♁51'28
retrograde	2533 Jul 20 05:24	26°♁43'55			2535 Dec 24 18:03	0°♁
evening set	2533 Aug 05 18:33	21°♁32'58				
inferior conj	2533 Aug 10 16:34	18°♁33'21	-7°-11'-4	superior conj	2536 Jan 03 17:41	12°♁33'58 0°-31'-10
minimum elong	2533 Aug 10 07:20	18°♁47'47	7°09'36	minimum elong	2536 Jan 03 09:47	12°♁09'06 0°30'48
min. Earth dist.	2533 Aug 10 17:13	18°♁32'19	0.28984 AU	max. Earth dist.	2536 Jan 04 00:41	12°♁56'00 1.71079 AU
morning rise	2533 Aug 14 20:01	16°♁00'38			2536 Jan 17 14:16	0°♁
direct	2533 Sep 01 08:12	10°♁16'24			2536 Feb 10 11:20	0°♁
greatest brilliancy	2533 Sep 15 12:46	13°♁49'00	-4.5m	evening rise	2536 Feb 14 01:20	4°♁29'35
	2533 Oct 08 16:12	0°♁			2536 Mar 05 10:55	0°♁
morning max el	2533 Oct 20 23:20	11°♁30'25	46°16'56		2536 Mar 29 15:08	0°♁
asc. node	2533 Oct 26 19:02	17°♁22'51		asc. node	2536 Apr 12 14:17	17°♁10'27

	2536 Apr 23 02:16	0°♁		2538 Nov 21 02:56	0°♁
	2536 May 17 22:46	0°♁		2538 Dec 15 06:06	0°♁
	2536 Jun 12 08:42	0°♁		2539 Jan 08 05:09	0°♁
	2536 Jul 08 17:04	0°♁	desc. node	2539 Jan 17 22:53	12°♁13'10
desc. node	2536 Aug 02 03:46	26°♁05'40		2539 Feb 01 02:52	0°♁
	2536 Aug 06 01:02	0°♁	morning set	2539 Feb 08 13:27	9°♁20'12
evening max el	2536 Aug 11 22:58	5°♁46'09 45°44'58		2539 Feb 25 00:56	0°♁
	2536 Sep 11 08:52	0°♁			
greatest brilliancy	2536 Sep 19 02:39	3°♁39'31 -4.5m	superior conj	2539 Mar 21 08:33	0°♁24'21 -1°-25'-8
retrograde	2536 Sep 29 21:28	5°♁45'37	minimum elong	2539 Mar 21 12:10	0°♁35'38 1°25'07
evening set	2536 Oct 16 19:21	0°♁22'54		2539 Mar 21 00:45	0°♁
	2536 Oct 17 11:07	30°♁	max. Earth dist.	2539 Mar 25 07:07	5°♁19'12 1.72022 AU
inferior conj	2536 Oct 20 20:43	27°♁56'58 -7°-12'-6		2539 Apr 14 03:31	0°♁
minimum elong	2536 Oct 21 06:38	27°♁41'46 7°10'21	evening rise	2539 Apr 29 16:06	19°♁12'42
min. Earth dist.	2536 Oct 21 20:17	27°♁20'52 0.27596 AU		2539 May 08 10:07	0°♁
morning rise	2536 Oct 25 17:23	25°♁02'04	asc. node	2539 May 11 02:12	3°♁17'12
direct	2536 Nov 10 20:18	19°♁57'54		2539 Jun 01 20:55	0°♁
asc. node	2536 Nov 23 06:53	22°♁49'18		2539 Jun 26 12:23	0°♁
greatest brilliancy	2536 Nov 25 00:32	23°♁37'04 -4.6m		2539 Jul 21 09:51	0°♁
	2536 Dec 05 12:10	0°♁		2539 Aug 15 16:18	0°♁
morning max el	2536 Dec 31 13:30	23°♁15'50 46°55'13	desc. node	2539 Aug 30 15:30	17°♁28'00
	2537 Jan 07 01:03	0°♁		2539 Sep 10 13:19	0°♁
	2537 Feb 02 23:50	0°♁		2539 Oct 07 13:40	0°♁
	2537 Feb 28 11:59	0°♁	evening max el	2539 Oct 25 04:51	18°♁14'57 46°50'30
desc. node	2537 Mar 14 20:34	17°♁13'08		2539 Nov 06 16:35	0°♁
	2537 Mar 25 10:41	0°♁	greatest brilliancy	2539 Dec 02 20:44	18°♁02'01 -4.7m
	2537 Apr 19 03:48	0°♁	retrograde	2539 Dec 14 11:05	20°♁31'45
	2537 May 13 18:52	0°♁	asc. node	2539 Dec 21 18:49	19°♁25'25
	2537 Jun 07 09:03	0°♁	evening set	2539 Dec 28 19:45	16°♁24'35
	2537 Jul 01 21:59	0°♁	inferior conj	2540 Jan 03 23:01	12°♁48'55 3°21'23
morning set	2537 Jul 04 04:05	2°♁45'39	minimum elong	2540 Jan 03 15:47	12°♁59'58 3°19'10
asc. node	2537 Jul 05 23:52	4°♁59'47	min. Earth dist.	2540 Jan 03 12:46	13°♁04'34 0.26482 AU
	2537 Jul 26 08:43	0°♁	morning rise	2540 Jan 09 12:05	9°♁33'34
max. Earth dist.	2537 Aug 07 02:04	14°♁26'10 1.73319 AU	direct	2540 Jan 24 08:51	5°♁11'36
			greatest brilliancy	2540 Feb 04 20:01	7°♁40'06 -4.7m
superior conj	2537 Aug 09 14:35	17°♁32'46 1°10'09		2540 Mar 06 14:39	0°♁
minimum elong	2537 Aug 09 06:19	17°♁07'14 1°09'55	morning max el	2540 Mar 14 15:08	7°♁46'12 46°43'25
	2537 Aug 19 16:43	0°♁		2540 Apr 04 18:26	0°♁
	2537 Sep 12 22:35	0°♁	desc. node	2540 Apr 11 08:22	7°♁16'07
evening rise	2537 Sep 14 19:04	2°♁17'49		2540 May 01 09:19	0°♁
	2537 Oct 07 03:28	0°♁		2540 May 27 02:32	0°♁
desc. node	2537 Oct 25 13:22	22°♁49'17		2540 Jun 21 09:16	0°♁
	2537 Oct 31 08:25	0°♁		2540 Jul 16 08:52	0°♁
	2537 Nov 24 14:11	0°♁	asc. node	2540 Aug 02 11:40	20°♁44'50
	2537 Dec 18 22:04	0°♁		2540 Aug 10 01:49	0°♁
	2538 Jan 12 11:42	0°♁		2540 Sep 03 12:16	0°♁
asc. node	2538 Feb 06 15:14	0°♁	morning set	2540 Sep 10 05:55	8°♁19'23
	2538 Feb 15 16:28	10°♁29'47		2540 Sep 27 17:14	0°♁
	2538 Mar 05 02:57	0°♁	max. Earth dist.	2540 Oct 14 08:19	20°♁43'35 1.72011 AU
evening max el	2538 Mar 20 13:59	16°♁07'32 46°18'50			
	2538 Apr 04 12:11	0°♁	superior conj	2540 Oct 17 10:27	24°♁34'59 1°11'44
greatest brilliancy	2538 Apr 24 13:29	13°♁53'57 -4.5m	minimum elong	2540 Oct 17 19:33	25°♁03'23 1°11'30
retrograde	2538 May 09 07:31	17°♁46'00		2540 Oct 21 18:31	0°♁
evening set	2538 May 24 14:58	13°♁10'35		2540 Nov 14 17:52	0°♁
inferior conj	2538 May 30 16:33	9°♁30'52 1°47'18	desc. node	2540 Nov 22 01:20	9°♁09'27
minimum elong	2538 May 30 20:26	9°♁24'46 1°46'10	evening rise	2540 Nov 25 20:53	13°♁56'12
min. Earth dist.	2538 May 30 15:18	9°♁32'50 0.28729 AU		2540 Dec 08 16:30	0°♁
morning rise	2538 Jun 06 02:12	5°♁40'23		2541 Jan 01 15:21	0°♁
desc. node	2538 Jun 07 05:57	5°♁03'25		2541 Jan 25 15:57	0°♁
direct	2538 Jun 21 03:08	1°♁17'13		2541 Feb 18 21:12	0°♁
greatest brilliancy	2538 Jul 04 03:05	4°♁15'20 -4.5m	asc. node	2541 Mar 15 04:22	29°♁37'52
	2538 Aug 07 20:21	0°♁		2541 Mar 15 11:42	0°♁
morning max el	2538 Aug 08 21:28	0°♁59'37 45°44'12		2541 Apr 09 18:33	0°♁
	2538 Sep 05 23:20	0°♁		2541 May 06 07:19	0°♁
asc. node	2538 Sep 28 09:18	25°♁18'34	evening max el	2541 May 30 06:26	24°♁46'28 45°28'08
	2538 Oct 02 10:06	0°♁		2541 Jun 04 19:38	0°♁
	2538 Oct 27 14:51	0°♁	greatest brilliancy	2541 Jul 04 05:08	21°♁18'48 -4.5m



desc. node	2541 Jul 04 17:57	21°♁32'58		superior conj	2544 Jan 01 03:33	9°♁59'02	0°-27'-23
retrograde	2541 Jul 17 20:49	24°♁34'08		minimum elong	2543 Dec 31 20:30	9°♁36'52	0°27'03
evening set	2541 Aug 03 07:38	19°♁27'31		max. Earth dist.	2544 Jan 01 06:02	10°♁06'51	1.71086 AU
inferior conj	2541 Aug 08 08:48	16°♁23'21	-6°-59'-43		2544 Jan 17 01:24	0°≈	
minimum elong	2541 Aug 07 23:19	16°♁38'11	6°58'06		2544 Feb 09 22:28	0°✕	
min. Earth dist.	2541 Aug 08 09:06	16°♁22'52	0.28997 AU	evening rise	2544 Feb 11 11:42	1°✕56'42	
morning rise	2541 Aug 12 14:51	13°♁46'32			2544 Mar 04 22:06	0°♃	
direct	2541 Aug 30 00:13	8°♁06'15			2544 Mar 29 02:26	0°♄	
greatest brilliancy	2541 Sep 13 04:00	11°♁36'59	-4.5m	asc. node	2544 Apr 11 16:25	16°♄42'07	
	2541 Oct 08 19:59	0°♅			2544 Apr 22 13:48	0°♅	
morning max el	2541 Oct 18 13:08	9°♅11'21	46°15'19		2544 May 17 10:49	0°♆	
asc. node	2541 Oct 25 21:12	16°♅36'59			2544 Jun 11 21:48	0°♁	
	2541 Nov 07 09:31	0°♂			2544 Jul 08 08:24	0°♅	
	2541 Dec 03 14:31	0°♃		desc. node	2544 Aug 01 05:41	25°♅20'05	
	2541 Dec 28 14:02	0°♄			2544 Aug 05 22:19	0°♂	
	2542 Jan 22 00:50	0°♁		evening max el	2544 Aug 09 13:08	3°♂30'01	45°43'15
desc. node	2542 Feb 14 10:42	28°♁59'01			2544 Sep 13 10:31	0°♃	
	2542 Feb 15 06:21	0°≈		greatest brilliancy	2544 Sep 16 13:29	1°♃17'59	-4.5m
	2542 Mar 11 10:13	0°✕		retrograde	2544 Sep 27 11:25	3°♃26'33	
	2542 Apr 04 14:25	0°♃			2544 Oct 10 18:14	30°♃♂	
morning set	2542 Apr 24 02:27	24°♃08'40		evening set	2544 Oct 14 11:58	27°♂58'46	
	2542 Apr 28 20:11	0°♄		inferior conj	2544 Oct 18 10:33	25°♂36'46	-7°-24'-7
	2542 May 23 03:55	0°♅		minimum elong	2544 Oct 18 20:09	25°♂22'05	7°22'33
				min. Earth dist.	2544 Oct 19 09:47	25°♂01'13	0.27668 AU
superior conj	2542 May 31 17:53	10°♅33'45	0°-16'-13	morning rise	2544 Oct 23 03:51	22°♂46'51	
minimum elong	2542 May 31 21:19	10°♅44'20	0°16'04	direct	2544 Nov 08 11:16	17°♂36'40	
max. Earth dist.	2542 Jun 02 02:23	12°♅13'43	1.73380 AU	asc. node	2544 Nov 22 08:57	21°♂08'32	
asc. node	2542 Jun 07 14:07	18°♅58'47		greatest brilliancy	2544 Nov 22 16:56	21°♂18'07	-4.6m
	2542 Jun 16 13:14	0°♆			2544 Dec 06 06:43	0°♃	
evening rise	2542 Jul 07 07:24	25°♆29'50		morning max el	2544 Dec 29 04:50	20°♃55'39	46°54'30
	2542 Jul 10 23:25	0°♁			2545 Jan 06 21:06	0°♄	
	2542 Aug 04 10:20	0°♅			2545 Feb 02 15:21	0°♁	
	2542 Aug 28 22:47	0°♂			2545 Feb 28 01:34	0°≈	
	2542 Sep 22 14:08	0°♃		desc. node	2545 Mar 13 22:34	16°≈40'08	
desc. node	2542 Sep 27 03:29	5°♃31'26			2545 Mar 24 23:12	0°✕	
	2542 Oct 17 10:01	0°♄			2545 Apr 18 15:38	0°♃	
	2542 Nov 11 13:05	0°♁			2545 May 13 06:12	0°♄	
	2542 Dec 07 06:51	0°≈			2545 Jun 06 20:02	0°♅	
	2543 Jan 03 15:48	0°✕			2545 Jul 01 08:45	0°♆	
evening max el	2543 Jan 05 15:24	2°✕02'13	47°14'45	morning set	2545 Jul 01 22:18	0°♆41'31	
asc. node	2543 Jan 18 06:43	14°✕18'57		asc. node	2545 Jul 05 01:52	4°♆33'00	
	2543 Feb 07 15:24	0°♃			2545 Jul 25 19:22	0°♁	
greatest brilliancy	2543 Feb 12 10:33	2°♃31'02	-4.7m	max. Earth dist.	2545 Aug 05 00:35	12°♁34'43	1.73350 AU
retrograde	2543 Feb 25 13:15	5°♃43'22					
	2543 Mar 14 16:25	30°♃♂		superior conj	2545 Aug 07 09:04	15°♁28'49	1°08'20
evening set	2543 Mar 15 14:28	29°♃26'36		minimum elong	2545 Aug 07 00:35	15°♁02'40	1°08'05
min. Earth dist.	2543 Mar 18 01:10	27°♃55'19	0.27772 AU		2545 Aug 19 03:25	0°♅	
inferior conj	2543 Mar 18 12:47	27°♃37'04	8°47'22		2545 Sep 12 09:25	0°♂	
minimum elong	2543 Mar 18 15:19	27°♃33'04	8°47'16	evening rise	2545 Sep 12 12:13	0°♂08'41	
morning rise	2543 Mar 21 16:20	25°♃39'49			2545 Oct 06 14:32	0°♃	
direct	2543 Apr 08 08:15	19°♃40'31		desc. node	2545 Oct 24 15:30	22°♃21'01	
greatest brilliancy	2543 Apr 19 09:05	21°♃53'54	-4.6m		2545 Oct 30 19:46	0°♄	
	2543 May 03 19:14	0°♃			2545 Nov 24 01:54	0°♁	
desc. node	2543 May 09 20:10	4°♃33'27			2545 Dec 18 10:17	0°≈	
morning max el	2543 May 27 13:10	20°♃19'13	45°59'35		2546 Jan 12 00:43	0°✕	
	2543 Jun 06 06:41	0°♄			2546 Feb 06 05:42	0°♃	
	2543 Jul 04 05:42	0°♅		asc. node	2546 Feb 14 18:26	9°♃51'46	
	2543 Jul 30 14:03	0°♆			2546 Mar 04 20:47	0°♄	
	2543 Aug 25 01:31	0°♁		evening max el	2546 Mar 18 06:16	13°♄54'42	46°21'14
asc. node	2543 Aug 30 23:29	7°♁04'48			2546 Apr 04 19:36	0°♅	
	2543 Sep 18 22:10	0°♅		greatest brilliancy	2546 Apr 22 07:04	11°♅44'43	-4.5m
	2543 Oct 13 07:49	0°♂		retrograde	2546 May 07 00:30	15°♅35'28	
	2543 Nov 06 10:11	0°♃		evening set	2546 May 22 08:52	10°♅58'01	
morning set	2543 Nov 21 10:34	18°♃48'21		inferior conj	2546 May 28 08:42	7°♅20'21	2°07'08
	2543 Nov 30 08:33	0°♄		minimum elong	2546 May 28 13:16	7°♅13'11	2°05'48
desc. node	2543 Dec 20 13:06	25°♄23'00		min. Earth dist.	2546 May 28 07:13	7°♅22'42	0.28704 AU
	2543 Dec 24 05:10	0°♁		morning rise	2546 Jun 03 18:05	3°♅30'29	

desc. node	2546 Jun 06 07:58	2°II11'13		2548 Dec 08 03:30	0°☾	
	2546 Jun 12 04:11	30°R♄		2549 Jan 01 02:33	0°≈	
direct	2546 Jun 18 19:29	29°♄07'18		2549 Jan 25 03:22	0°♄	
	2546 Jun 25 16:15	0°II		2549 Feb 18 08:55	0°♃	
greatest brilliancy	2546 Jul 01 16:41	2°II03'10	-4.5m	asc. node	2549 Mar 14 06:31	29°♃07'18
morning max el	2546 Aug 06 13:48	28°II51'18	45°43'51		2549 Mar 15 00:01	0°♄
	2546 Aug 07 18:31	0°☾			2549 Apr 09 08:04	0°II
	2546 Sep 05 14:46	0°♁			2549 May 05 23:33	0°☾
asc. node	2546 Sep 27 11:29	24°♁45'59		evening max el	2549 May 27 20:59	22°☾32'45 45°28'55
	2546 Oct 01 23:16	0°♃			2549 Jun 04 20:54	0°♁
	2546 Oct 27 03:01	0°♃		greatest brilliancy	2549 Jul 01 19:05	19°♁07'17 -4.5m
	2546 Nov 20 14:35	0°♃		desc. node	2549 Jul 03 19:56	19°♁59'07
	2546 Dec 14 17:28	0°♃		retrograde	2549 Jul 15 12:29	22°♁25'21
	2547 Jan 07 16:20	0°☾		evening set	2549 Jul 31 20:43	17°♁22'38
desc. node	2547 Jan 17 00:53	11°☾44'28		inferior conj	2549 Aug 06 00:58	14°♁14'13 -6°-47'-41
	2547 Jan 31 13:54	0°≈		minimum elong	2549 Aug 05 15:18	14°♁29'20 6°45'57
morning set	2547 Feb 05 23:17	6°≈45'56		min. Earth dist.	2549 Aug 06 01:02	14°♁14'07 0.29006 AU
	2547 Feb 24 11:53	0°♄		morning rise	2549 Aug 10 09:43	11°♁33'23
				direct	2549 Aug 27 15:53	5°♁56'53
superior conj	2547 Mar 18 20:47	27°♄58'47	-1°-25'-41	greatest brilliancy	2549 Sep 10 20:05	9°♁27'12 -4.5m
minimum elong	2547 Mar 18 23:27	28°♄07'07	1°25'41		2549 Oct 08 21:41	0°♃
	2547 Mar 20 11:37	0°♃		morning max el	2549 Oct 16 03:26	6°♃54'52 46°13'56
max. Earth dist.	2547 Mar 22 21:55	3°♃01'49	1.71970 AU	asc. node	2549 Oct 24 23:15	15°♃52'41
	2547 Apr 13 14:21	0°♄			2549 Nov 07 01:59	0°♃
evening rise	2547 Apr 27 06:47	16°♄56'24			2549 Dec 03 04:16	0°♃
	2547 May 07 20:57	0°II			2549 Dec 28 02:36	0°♃
asc. node	2547 May 10 04:20	2°II50'23			2550 Jan 21 12:45	0°☾
	2547 Jun 01 07:53	0°☾		desc. node	2550 Feb 13 12:45	28°☾29'37
	2547 Jun 25 23:38	0°♁			2550 Feb 14 17:52	0°≈
	2547 Jul 20 21:39	0°♃			2550 Mar 10 21:25	0°♄
	2547 Aug 15 05:04	0°♃			2550 Apr 04 01:22	0°♃
desc. node	2547 Aug 29 17:34	16°♃54'34		morning set	2550 Apr 21 17:22	21°♃52'58
	2547 Sep 10 03:53	0°♃			2550 Apr 28 06:56	0°♄
	2547 Oct 07 08:05	0°♃			2550 May 22 14:33	0°II
evening max el	2547 Oct 22 18:46	15°♃53'03	46°48'09			
	2547 Nov 07 00:25	0°☾		superior conj	2550 May 29 10:42	8°II25'13 0°-19'-28
greatest brilliancy	2547 Nov 30 11:19	15°☾35'52	-4.7m	minimum elong	2550 May 29 14:48	8°II37'51 0°19'16
retrograde	2547 Dec 11 23:06	18°☾02'31		max. Earth dist.	2550 May 30 20:41	10°II09'47 1.73352 AU
asc. node	2547 Dec 20 20:50	16°☾25'15		asc. node	2550 Jun 06 16:03	18°II32'09
evening set	2547 Dec 26 06:55	13°☾57'44			2550 Jun 15 23:50	0°☾
inferior conj	2548 Jan 01 11:14	10°☾20'36	2°58'13	evening rise	2550 Jul 05 01:58	23°☾26'48
minimum elong	2548 Jan 01 04:43	10°☾30'32	2°56'12		2550 Jul 10 10:06	0°♁
min. Earth dist.	2548 Jan 01 02:28	10°☾33'59	0.26468 AU		2550 Aug 03 21:12	0°♃
morning rise	2548 Jan 07 02:45	7°☾01'40			2550 Aug 28 09:59	0°♃
direct	2548 Jan 21 21:05	2°☾43'32			2550 Sep 22 01:51	0°♃
greatest brilliancy	2548 Feb 02 10:04	5°☾13'28	-4.7m	desc. node	2550 Sep 26 05:39	5°♃02'13
	2548 Mar 06 16:58	0°≈			2550 Oct 16 22:30	0°♃
morning max el	2548 Mar 12 03:11	5°≈18'58	46°44'38		2550 Nov 11 02:47	0°☾
	2548 Apr 04 11:39	0°♄			2550 Dec 06 22:48	0°≈
desc. node	2548 Apr 10 10:35	6°♄36'56		evening max el	2551 Jan 03 04:52	29°≈37'54 47°15'21
	2548 Apr 30 23:27	0°♃			2551 Jan 03 13:32	0°♄
	2548 May 26 15:09	0°♄		asc. node	2551 Jan 17 08:41	13°♄17'32
	2548 Jun 20 21:00	0°II			2551 Feb 09 16:47	0°♃
	2548 Jul 15 20:03	0°☾		greatest brilliancy	2551 Feb 10 01:49	0°♃10'32 -4.7m
asc. node	2548 Aug 01 13:41	20°☾17'40		retrograde	2551 Feb 23 03:49	3°♃22'43
	2548 Aug 09 12:40	0°♁			2551 Mar 08 01:14	30°R♄
	2548 Sep 02 22:57	0°♃		evening set	2551 Mar 13 05:10	27°♄05'29
morning set	2548 Sep 07 22:57	6°♃10'42		min. Earth dist.	2551 Mar 15 14:45	25°♄36'09 0.27729 AU
	2548 Sep 27 03:52	0°♃		inferior conj	2551 Mar 16 03:04	25°♄16'50 8°49'59
max. Earth dist.	2548 Oct 11 21:32	18°♃21'47	1.72064 AU	minimum elong	2551 Mar 16 04:46	25°♄14'11 8°49'57
				morning rise	2551 Mar 19 04:32	23°♄23'02
superior conj	2548 Oct 15 01:47	22°♃19'44	1°13'32	direct	2551 Apr 05 21:37	17°♄20'49
minimum elong	2548 Oct 15 10:28	22°♃46'50	1°13'19	greatest brilliancy	2551 Apr 16 22:44	19°♄34'42 -4.6m
	2548 Oct 21 05:12	0°♃			2551 May 04 12:41	0°♃
	2548 Nov 14 04:41	0°♃		desc. node	2551 May 08 22:10	3°♃28'02
desc. node	2548 Nov 21 03:23	8°♃41'48		morning max el	2551 May 25 03:51	18°♃03'37 46°00'56
evening rise	2548 Nov 23 08:57	11°♃29'33			2551 Jun 06 01:57	0°♄

	2551 Jul 03 20:24	0°♁		2554 Jan 11 13:44	0°♁
	2551 Jul 30 02:50	0°♁		2554 Feb 05 20:12	0°♁
	2551 Aug 24 13:19	0°♁	asc. node	2554 Feb 13 20:38	9°♁14'29
asc. node	2551 Aug 30 01:36	6°♁36'12		2554 Mar 04 14:50	0°♁
	2551 Sep 18 09:26	0°♁	evening max el	2554 Mar 15 22:19	11°♁41'38 46°23'33
	2551 Oct 12 18:49	0°♁		2554 Apr 05 05:30	0°♁
greatest brilliancy	2551 Oct 14 14:43	2°♁15'59 -3.9m	greatest brilliancy	2554 Apr 20 01:11	9°♁36'29 -4.5m
	2551 Nov 05 21:04	0°♁	retrograde	2554 May 04 17:03	13°♁25'01
morning set	2551 Nov 18 23:43	16°♁25'02	evening set	2554 May 20 02:58	8°♁45'31
	2551 Nov 29 19:23	0°♁	inferior conj	2554 May 26 00:55	5°♁10'03 2°26'44
desc. node	2551 Dec 19 15:05	24°♁55'11	minimum elong	2554 May 26 06:08	5°♁01'51 2°25'13
	2551 Dec 23 16:00	0°♁	min. Earth dist.	2554 May 25 23:22	5°♁12'28 0.28683 AU
			morning rise	2554 Jun 01 09:47	1°♁20'44
superior conj	2551 Dec 29 13:49	7°♁26'14 0°-23'-34		2554 Jun 04 00:57	30°♁
minimum elong	2551 Dec 29 07:41	7°♁06'55 0°23'18	desc. node	2554 Jun 05 09:59	29°♁22'45
max. Earth dist.	2551 Dec 29 15:33	7°♁31'42 1.71091 AU	direct	2554 Jun 16 11:51	26°♁57'33
	2552 Jan 16 12:14	0°♁	greatest brilliancy	2554 Jun 29 06:03	29°♁50'28 -4.5m
evening rise	2552 Feb 08 22:22	29°♁25'35		2554 Jun 29 14:55	0°♁
	2552 Feb 09 09:21	0°♁	morning max el	2554 Aug 04 05:25	26°♁40'52 45°43'25
	2552 Mar 04 09:03	0°♁		2554 Aug 07 15:57	0°♁
	2552 Mar 28 13:33	0°♁		2554 Sep 05 06:06	0°♁
asc. node	2552 Apr 10 18:27	16°♁13'55	asc. node	2554 Sep 26 13:33	24°♁12'52
	2552 Apr 22 01:13	0°♁		2554 Oct 01 12:26	0°♁
	2552 May 16 22:49	0°♁		2554 Oct 26 15:12	0°♁
	2552 Jun 11 10:54	0°♁		2554 Nov 20 02:17	0°♁
	2552 Jul 07 23:53	0°♁		2554 Dec 14 04:53	0°♁
desc. node	2552 Jul 31 07:46	24°♁34'30		2555 Jan 07 03:35	0°♁
	2552 Aug 05 20:19	0°♁	desc. node	2555 Jan 16 02:56	11°♁15'43
evening max el	2552 Aug 07 03:59	1°♁15'57 45°41'38		2555 Jan 31 01:02	0°♁
greatest brilliancy	2552 Sep 14 00:36	28°♁57'20 -4.5m	morning set	2555 Feb 03 09:09	4°♁11'28
	2552 Sep 17 05:10	0°♁		2555 Feb 23 22:53	0°♁
retrograde	2552 Sep 25 01:14	1°♁07'43			
	2552 Oct 02 13:57	30°♁	superior conj	2555 Mar 16 09:12	25°♁33'42 -1°-26'-3
evening set	2552 Oct 12 04:35	25°♁35'12	minimum elong	2555 Mar 16 10:55	25°♁39'03 1°26'05
inferior conj	2552 Oct 16 00:21	23°♁16'57 -7°-35'-26		2555 Mar 19 22:31	0°♁
minimum elong	2552 Oct 16 09:34	23°♁02'50 7°34'01	max. Earth dist.	2555 Mar 20 13:01	0°♁45'12 1.71911 AU
min. Earth dist.	2552 Oct 16 23:02	22°♁42'12 0.27736 AU		2555 Apr 13 01:11	0°♁
morning rise	2552 Oct 20 14:11	20°♁31'59	evening rise	2555 Apr 24 21:37	14°♁40'25
direct	2552 Nov 06 02:24	15°♁16'00		2555 May 07 07:49	0°♁
greatest brilliancy	2552 Nov 20 08:10	18°♁58'03 -4.6m	asc. node	2555 May 09 06:17	2°♁22'58
asc. node	2552 Nov 21 10:56	19°♁31'33		2555 May 31 18:54	0°♁
	2552 Dec 06 20:23	0°♁		2555 Jun 25 11:01	0°♁
morning max el	2552 Dec 26 20:05	18°♁35'50 46°53'53		2555 Jul 20 09:39	0°♁
	2553 Jan 06 16:21	0°♁		2555 Aug 14 18:06	0°♁
	2553 Feb 02 06:26	0°♁	desc. node	2555 Aug 28 19:42	16°♁20'30
	2553 Feb 27 14:49	0°♁		2555 Sep 09 18:50	0°♁
desc. node	2553 Mar 13 00:44	16°♁08'31		2555 Oct 07 03:14	0°♁
	2553 Mar 24 11:26	0°♁	evening max el	2555 Oct 20 07:35	13°♁27'56 46°45'51
	2553 Apr 18 03:16	0°♁		2555 Nov 07 11:21	0°♁
	2553 May 12 17:25	0°♁	greatest brilliancy	2555 Nov 28 02:14	13°♁09'27 -4.7m
	2553 Jun 06 06:57	0°♁	retrograde	2555 Dec 09 10:40	15°♁32'48
morning set	2553 Jun 29 16:15	28°♁36'40	asc. node	2555 Dec 19 22:53	13°♁18'44
	2553 Jun 30 19:28	0°♁	evening set	2555 Dec 23 18:14	11°♁29'42
asc. node	2553 Jul 04 03:55	4°♁06'27	inferior conj	2555 Dec 29 23:24	7°♁51'42 2°34'41
	2553 Jul 25 06:00	0°♁	minimum elong	2555 Dec 29 17:41	8°♁00'26 2°32'54
max. Earth dist.	2553 Aug 02 21:46	10°♁39'20 1.73375 AU	min. Earth dist.	2555 Dec 29 16:29	8°♁02'17 0.26459 AU
			morning rise	2556 Jan 04 17:12	4°♁29'22
superior conj	2553 Aug 05 03:14	13°♁24'02 1°06'24	direct	2556 Jan 19 08:51	0°♁14'28
minimum elong	2553 Aug 04 18:35	12°♁57'25 1°06'08	greatest brilliancy	2556 Jan 31 01:07	2°♁47'12 -4.7m
	2553 Aug 18 14:05	0°♁		2556 Mar 06 18:11	0°♁
evening rise	2553 Sep 10 05:10	27°♁59'04	morning max el	2556 Mar 09 15:04	2°♁50'29 46°46'03
	2553 Sep 11 20:14	0°♁		2556 Apr 04 04:42	0°♁
	2553 Oct 06 01:35	0°♁	desc. node	2556 Apr 09 12:30	5°♁56'49
desc. node	2553 Oct 23 17:28	21°♁52'18		2556 Apr 30 13:35	0°♁
	2553 Oct 30 07:08	0°♁		2556 May 26 03:48	0°♁
	2553 Nov 23 13:38	0°♁		2556 Jun 20 08:47	0°♁
	2553 Dec 17 22:31	0°♁		2556 Jul 15 07:21	0°♁

asc. node	2556 Jul 31 15:49	19°♄50'19		retrograde	2559 Feb 20 18:53	1°♃00'21	
	2556 Aug 08 23:42	0°♁			2559 Feb 27 17:15	30°♃♁	
	2556 Sep 02 09:52	0°♃		evening set	2559 Mar 10 19:17	24°♁43'15	
morning set	2556 Sep 05 15:55	4°♃01'02		min. Earth dist.	2559 Mar 13 03:50	23°♁15'42	0.27682 AU
	2556 Sep 26 14:47	0°♁		inferior conj	2559 Mar 13 17:12	22°♁54'49	8°51'44
max. Earth dist.	2556 Oct 09 12:05	16°♁03'22	1.72117 AU	minimum elong	2559 Mar 13 18:01	22°♁53'32	8°51'45
				morning rise	2559 Mar 16 16:55	21°♁03'56	
superior conj	2556 Oct 12 17:01	20°♁03'21	1°15'13	direct	2559 Apr 03 11:15	14°♁59'28	
minimum elong	2556 Oct 13 01:14	20°♁28'57	1°15'01	greatest brilliancy	2559 Apr 14 11:16	17°♁12'51	-4.6m
	2556 Oct 20 16:10	0°♃			2559 May 05 02:16	0°♃	
	2556 Nov 13 15:47	0°♁		desc. node	2559 May 08 00:12	2°♃23'11	
desc. node	2556 Nov 20 05:20	8°♁13'06		morning max el	2559 May 22 19:17	15°♃48'44	46°02'23
evening rise	2556 Nov 20 20:57	9°♁01'56			2559 Jun 05 21:05	0°♃	
	2556 Dec 07 14:46	0°♁			2559 Jul 03 11:15	0°♁	
	2556 Dec 31 14:00	0°♁			2559 Jul 29 15:49	0°♁	
	2557 Jan 24 15:03	0°♁			2559 Aug 24 01:19	0°♁	
	2557 Feb 17 20:58	0°♃		asc. node	2559 Aug 29 03:41	6°♁06'45	
asc. node	2557 Mar 13 08:32	28°♃35'23			2559 Sep 17 20:55	0°♃	
	2557 Mar 14 12:40	0°♃			2559 Oct 12 06:03	0°♁	
	2557 Apr 08 21:57	0°♁		greatest brilliancy	2559 Oct 26 23:15	18°♁17'34	-3.9m
	2557 May 05 16:17	0°♁			2559 Nov 05 08:14	0°♃	
evening max el	2557 May 25 11:47	20°♁19'20	45°29'56	morning set	2559 Nov 16 12:56	14°♃01'01	
	2557 Jun 04 23:45	0°♁			2559 Nov 29 06:35	0°♁	
greatest brilliancy	2557 Jun 29 07:53	16°♁54'20	-4.5m	desc. node	2559 Dec 18 17:14	24°♁26'41	
desc. node	2557 Jul 02 22:00	18°♁21'59			2559 Dec 23 03:13	0°♁	
retrograde	2557 Jul 13 04:46	20°♁16'49					
evening set	2557 Jul 29 10:05	15°♁17'34		superior conj	2559 Dec 26 23:47	4°♁51'13	0°-19'-41
inferior conj	2557 Aug 03 17:21	12°♁05'05	-6°-35'-5	minimum elong	2559 Dec 26 18:38	4°♁34'59	0°19'28
minimum elong	2557 Aug 03 07:33	12°♁20'24	6°33'15	max. Earth dist.	2559 Dec 27 00:28	4°♁53'19	1.71100 AU
min. Earth dist.	2557 Aug 03 16:57	12°♁05'43	0.29019 AU		2560 Jan 15 23:29	0°♁	
morning rise	2557 Aug 08 04:49	9°♁20'22		evening rise	2560 Feb 06 08:30	26°♁51'30	
direct	2557 Aug 25 07:53	3°♁47'23			2560 Feb 08 20:37	0°♁	
greatest brilliancy	2557 Sep 08 13:04	7°♁18'22	-4.5m		2560 Mar 03 20:24	0°♃	
	2557 Oct 08 22:25	0°♃			2560 Mar 28 01:03	0°♃	
morning max el	2557 Oct 13 18:54	4°♃40'32	46°12'22	asc. node	2560 Apr 09 20:26	15°♁44'25	
asc. node	2557 Oct 24 01:12	15°♃07'43			2560 Apr 21 13:01	0°♁	
	2557 Nov 06 18:32	0°♁			2560 May 16 11:11	0°♁	
	2557 Dec 02 18:17	0°♃			2560 Jun 11 00:26	0°♁	
	2557 Dec 27 15:28	0°♁			2560 Jul 07 15:53	0°♃	
	2558 Jan 21 00:59	0°♁		desc. node	2560 Jul 30 09:55	23°♃47'48	
desc. node	2558 Feb 12 14:53	27°♁59'29		evening max el	2560 Aug 04 19:19	29°♃02'40	45°40'09
	2558 Feb 14 05:41	0°♁			2560 Aug 05 19:25	0°♁	
	2558 Mar 10 08:55	0°♁		greatest brilliancy	2560 Sep 11 12:44	26°♁38'16	-4.5m
	2558 Apr 03 12:38	0°♃		retrograde	2560 Sep 22 14:58	28°♁49'33	
morning set	2558 Apr 19 08:14	19°♃35'57		evening set	2560 Oct 09 21:24	23°♁12'50	
	2558 Apr 27 18:00	0°♃		inferior conj	2560 Oct 13 14:34	20°♁58'02	-7°-45'-38
	2558 May 22 01:30	0°♁		minimum elong	2560 Oct 13 23:19	20°♁44'35	7°44'24
				min. Earth dist.	2560 Oct 14 12:41	20°♁24'03	0.27805 AU
superior conj	2558 May 27 03:39	6°♁16'07	0°-22'-39	morning rise	2560 Oct 18 00:54	18°♁17'45	
minimum elong	2558 May 27 08:26	6°♁30'48	0°22'26	direct	2560 Nov 03 17:48	12°♁56'21	
max. Earth dist.	2558 May 28 15:19	8°♁05'53	1.73319 AU	greatest brilliancy	2560 Nov 17 22:40	16°♁37'15	-4.6m
asc. node	2558 Jun 05 18:10	18°♁05'10		asc. node	2560 Nov 20 13:02	17°♁58'13	
	2558 Jun 15 10:44	0°♁			2560 Dec 07 06:42	0°♃	
evening rise	2558 Jul 02 20:51	21°♁23'59		morning max el	2560 Dec 24 10:48	16°♃14'03	46°52'49
	2558 Jul 09 21:02	0°♁			2561 Jan 06 11:23	0°♁	
	2558 Aug 03 08:20	0°♃			2561 Feb 01 21:41	0°♁	
	2558 Aug 27 21:28	0°♁			2561 Feb 27 04:22	0°♁	
	2558 Sep 21 13:56	0°♃		desc. node	2561 Mar 12 02:41	15°♁35'06	
desc. node	2558 Sep 25 07:36	4°♃31'14			2561 Mar 24 00:01	0°♁	
	2558 Oct 16 11:27	0°♁			2561 Apr 17 15:12	0°♃	
	2558 Nov 10 17:04	0°♁			2561 May 12 04:54	0°♃	
	2558 Dec 06 15:32	0°♁			2561 Jun 05 18:07	0°♁	
evening max el	2558 Dec 31 19:15	27°♁14'34	47°15'59	morning set	2561 Jun 27 10:10	26°♁30'57	
	2559 Jan 03 12:44	0°♁			2561 Jun 30 06:25	0°♁	
asc. node	2559 Jan 16 10:51	12°♁13'34		asc. node	2561 Jul 03 06:02	3°♁39'23	
greatest brilliancy	2559 Feb 07 16:35	27°♁47'51	-4.7m		2561 Jul 24 16:52	0°♁	
	2559 Feb 13 15:24	0°♃		max. Earth dist.	2561 Jul 31 17:29	8°♁38'48	1.73396 AU

superior conj	2561 Aug 02 21:36	11°♈19'19	1°04'24			2564 Jan 06 10:12	30°♋♁	
minimum elong	2561 Aug 02 12:52	10°♈52'24	1°04'07	direct		2564 Jan 16 20:40	27°♋46'30	
	2561 Aug 18 00:57	0°♎				2564 Jan 27 18:11	0°♋	
evening rise	2561 Sep 07 22:31	25°♎50'15		greatest brilliancy		2564 Jan 28 16:48	0°♋22'51	-4.7m
	2561 Sep 11 07:13	0°♊				2564 Mar 06 17:58	0°♌	
	2561 Oct 05 12:46	0°♌		morning max el		2564 Mar 07 03:44	0°♌24'22	46°47'12
desc. node	2561 Oct 22 19:31	21°♌23'24				2564 Apr 03 21:19	0°♋	
	2561 Oct 29 18:37	0°♁		desc. node		2564 Apr 08 14:33	5°♋17'42	
	2561 Nov 23 01:31	0°♋				2564 Apr 30 03:33	0°♎	
	2561 Dec 17 11:00	0°♌				2564 May 25 16:24	0°♍	
	2562 Jan 11 03:06	0°♋				2564 Jun 19 20:35	0°♌	
	2562 Feb 05 11:12	0°♎				2564 Jul 14 18:37	0°♍	
asc. node	2562 Feb 12 22:36	8°♎35'03		asc. node		2564 Jul 30 17:49	19°♍22'47	
	2562 Mar 04 09:49	0°♍				2564 Aug 08 10:40	0°♈	
evening max el	2562 Mar 13 13:36	9°♍25'10	46°25'49			2564 Sep 01 20:41	0°♎	
	2562 Apr 05 19:40	0°♌		morning set		2564 Sep 03 08:42	1°♎51'13	
greatest brilliancy	2562 Apr 17 19:37	7°♌27'02	-4.6m			2564 Sep 26 01:34	0°♊	
retrograde	2562 May 02 08:58	11°♌12'55		max. Earth dist.		2564 Oct 07 04:17	13°♊50'27	1.72168 AU
evening set	2562 May 17 20:57	6°♌31'15						
inferior conj	2562 May 23 16:56	2°♌58'20	2°46'11	superior conj		2564 Oct 10 08:19	17°♊47'32	1°16'46
minimum elong	2562 May 23 22:46	2°♌49'08	2°44'32	minimum elong		2564 Oct 10 16:00	18°♊11'33	1°16'37
min. Earth dist.	2562 May 23 15:39	3°♌00'21	0.28657 AU			2564 Oct 20 03:01	0°♌	
	2562 May 28 13:21	30°♋				2564 Nov 13 02:44	0°♁	
morning rise	2562 May 30 01:02	29°♋09'41		evening rise		2564 Nov 18 09:16	6°♁35'54	
desc. node	2562 Jun 04 12:05	26°♋36'28		desc. node		2564 Nov 19 07:29	7°♁45'24	
direct	2562 Jun 14 03:30	24°♋46'23				2564 Dec 07 01:52	0°♋	
greatest brilliancy	2562 Jun 26 19:20	27°♋36'33	-4.5m			2564 Dec 31 01:15	0°♌	
	2562 Jul 01 17:36	0°♌				2565 Jan 24 02:30	0°♋	
morning max el	2562 Aug 01 20:14	24°♌27'56	45°43'12			2565 Feb 17 08:45	0°♎	
	2562 Aug 07 12:52	0°♍		asc. node		2565 Mar 12 10:30	28°♎03'55	
	2562 Sep 04 21:20	0°♈				2565 Mar 14 01:08	0°♍	
asc. node	2562 Sep 25 15:27	23°♈39'14				2565 Apr 08 11:46	0°♌	
	2562 Oct 01 01:36	0°♎				2565 May 05 09:15	0°♍	
	2562 Oct 26 03:22	0°♊		evening max el		2565 May 23 03:22	18°♍07'59	45°30'54
	2562 Nov 19 13:56	0°♌				2565 Jun 05 04:20	0°♈	
	2562 Dec 13 16:15	0°♁		greatest brilliancy		2565 Jun 26 20:31	14°♈40'58	-4.5m
	2563 Jan 06 14:48	0°♋		desc. node		2565 Jul 02 00:05	16°♈41'04	
desc. node	2563 Jan 15 05:02	10°♋47'14		retrograde		2565 Jul 10 21:15	18°♈07'49	
	2563 Jan 30 12:10	0°♌		evening set		2565 Jul 26 23:19	13°♈11'59	
morning set	2563 Jan 31 19:02	1°♌36'55		inferior conj		2565 Aug 01 09:29	9°♈55'33	-6°-21'-54
	2563 Feb 23 09:58	0°♋		minimum elong		2565 Jul 31 23:36	10°♈10'58	6°19'57
				min. Earth dist.		2565 Aug 01 08:23	9°♈57'16	0.29028 AU
superior conj	2563 Mar 13 21:15	23°♋06'59	-1°-26'-16	morning rise		2565 Aug 05 23:43	7°♈07'02	
minimum elong	2563 Mar 13 21:58	23°♋09'14	1°26'18	direct		2565 Aug 23 00:03	1°♈37'39	
max. Earth dist.	2563 Mar 18 00:29	28°♋16'49	1.71859 AU	greatest brilliancy		2565 Sep 06 05:34	5°♈09'12	-4.5m
	2563 Mar 19 09:33	0°♎				2565 Oct 08 21:49	0°♎	
	2563 Apr 12 12:10	0°♍		morning max el		2565 Oct 11 10:58	2°♎28'28	46°10'52
evening rise	2563 Apr 22 11:41	12°♍21'33		asc. node		2565 Oct 23 03:23	14°♎24'34	
	2563 May 06 18:49	0°♌				2565 Nov 06 10:32	0°♊	
asc. node	2563 May 08 08:22	1°♌55'29				2565 Dec 02 07:54	0°♌	
	2563 May 31 06:04	0°♍				2565 Dec 27 03:58	0°♁	
	2563 Jun 24 22:31	0°♈				2566 Jan 20 12:52	0°♋	
	2563 Jul 19 21:45	0°♎		desc. node		2566 Feb 11 16:49	27°♋29'51	
	2563 Aug 14 07:17	0°♊				2566 Feb 13 17:08	0°♌	
desc. node	2563 Aug 27 21:37	15°♊45'33				2566 Mar 09 20:03	0°♋	
	2563 Sep 09 09:59	0°♌				2566 Apr 02 23:30	0°♎	
	2563 Oct 06 22:51	0°♁		morning set		2566 Apr 16 23:08	17°♎20'09	
evening max el	2563 Oct 17 20:04	11°♁02'32	46°43'43			2566 Apr 27 04:43	0°♍	
	2563 Nov 08 01:35	0°♋				2566 May 21 12:08	0°♌	
greatest brilliancy	2563 Nov 25 16:45	10°♋43'30	-4.6m					
retrograde	2563 Dec 06 22:31	13°♋04'37		superior conj		2566 May 24 20:25	4°♌07'16	0°-25'-49
asc. node	2563 Dec 19 00:57	10°♋08'37		minimum elong		2566 May 25 01:50	4°♌23'56	0°25'35
evening set	2563 Dec 21 06:00	9°♋02'24		max. Earth dist.		2566 May 26 11:07	6°♌06'25	1.73293 AU
inferior conj	2563 Dec 27 11:48	5°♋24'06	2°11'04	asc. node		2566 Jun 04 20:15	17°♌38'59	
minimum elong	2563 Dec 27 06:54	5°♋31'36	2°09'30			2566 Jun 14 21:21	0°♍	
min. Earth dist.	2563 Dec 27 06:41	5°♋31'55	0.26455 AU	evening rise		2566 Jun 30 15:24	19°♍20'55	
morning rise	2564 Jan 02 07:44	1°♋58'50				2566 Jul 09 07:44	0°♈	

	2566 Aug 02 19:14	0°♍			2569 Feb 01 12:21	0°♁		
	2566 Aug 27 08:45	0°♌			2569 Feb 26 17:26	0°♁		
	2566 Sep 21 01:47	0°♍		desc. node	2569 Mar 11 04:42	15°♁03'13		
desc. node	2566 Sep 24 09:38	4°♍01'17			2569 Mar 23 12:10	0°♁		
	2566 Oct 16 00:10	0°♎			2569 Apr 17 02:44	0°♂		
	2566 Nov 10 07:10	0°♁			2569 May 11 16:00	0°♂		
	2566 Dec 06 08:13	0°♁			2569 Jun 05 04:53	0°♂		
evening max el	2566 Dec 29 10:41	24°♁54'58	47°16'33	morning set	2569 Jun 25 04:15	24°♂26'57		
	2567 Jan 03 12:31	0°♁			2569 Jun 29 16:59	0°♁		
asc. node	2567 Jan 15 12:51	11°♁08'43		asc. node	2569 Jul 02 08:00	3°♁13'05		
greatest brilliancy	2567 Feb 05 07:40	25°♁26'45	-4.7m		2569 Jul 24 03:22	0°♂		
retrograde	2567 Feb 18 10:07	28°♁38'52		max. Earth dist.	2569 Jul 29 12:40	6°♂37'48	1.73422 AU	
evening set	2567 Mar 08 08:59	22°♁22'50						
min. Earth dist.	2567 Mar 10 16:43	20°♁56'38	0.27630 AU	superior conj	2569 Jul 31 16:07	9°♂16'11	1°02'19	
inferior conj	2567 Mar 11 07:17	20°♁33'53	8°52'41	minimum elong	2569 Jul 31 07:20	8°♂49'07	1°02'01	
minimum elong	2567 Mar 11 07:14	20°♁33'58	8°52'41		2569 Aug 17 11:31	0°♍		
morning rise	2567 Mar 14 05:40	18°♁45'14		evening rise	2569 Sep 05 15:56	23°♍42'34		
direct	2567 Apr 01 01:14	12°♁39'32			2569 Sep 10 17:57	0°♌		
greatest brilliancy	2567 Apr 11 22:43	14°♁51'09	-4.6m		2569 Oct 04 23:44	0°♍		
	2567 May 05 11:43	0°♂		desc. node	2569 Oct 21 21:39	20°♍55'23		
desc. node	2567 May 07 02:20	1°♂21'37			2569 Oct 29 05:54	0°♎		
morning max el	2567 May 20 10:35	13°♂34'57	46°03'42		2569 Nov 22 13:14	0°♁		
	2567 Jun 05 15:12	0°♂			2569 Dec 16 23:17	0°♁		
	2567 Jul 03 01:29	0°♂			2570 Jan 10 16:17	0°♁		
	2567 Jul 29 04:21	0°♁			2570 Feb 05 02:04	0°♂		
asc. node	2567 Aug 23 12:58	0°♂		asc. node	2570 Feb 12 00:35	7°♂56'20		
	2567 Aug 28 05:37	5°♂37'52			2570 Mar 04 04:55	0°♂		
	2567 Sep 17 08:05	0°♍		evening max el	2570 Mar 11 04:01	7°♂07'22	46°28'09	
	2567 Oct 11 16:59	0°♌			2570 Apr 06 14:02	0°♂		
	2567 Nov 04 19:05	0°♍		greatest brilliancy	2570 Apr 15 13:31	5°♂17'48	-4.6m	
greatest brilliancy	2567 Nov 05 02:38	0°♍23'37	-3.9m	retrograde	2570 Apr 30 00:48	9°♂02'05		
morning set	2567 Nov 14 02:06	11°♍38'01		evening set	2570 May 15 15:08	4°♂17'49		
	2567 Nov 28 17:24	0°♎		inferior conj	2570 May 21 09:04	0°♂47'51	3°05'28	
desc. node	2567 Dec 17 19:14	23°♎58'55		minimum elong	2570 May 21 15:30	0°♂37'42	3°03'40	
	2567 Dec 22 14:04	0°♁		min. Earth dist.	2570 May 21 08:18	0°♂49'03	0.28631 AU	
					2570 May 22 15:28	30°♂		
superior conj	2567 Dec 24 09:49	2°♁17'36	0°-15'-47	morning rise	2570 May 27 16:14	27°♂00'07		
minimum elong	2567 Dec 24 05:39	2°♁04'32	0°15'35	desc. node	2570 Jun 03 14:07	23°♂55'52		
behind sun begin	2567 Dec 23 21:43	1°♁39'34		direct	2570 Jun 11 18:44	22°♂36'16		
behind sun end	2567 Dec 24 13:36	2°♁29'30		greatest brilliancy	2570 Jun 24 09:31	25°♂24'43	-4.5m	
max. Earth dist.	2567 Dec 24 08:00	2°♁11'54	1.71109 AU		2570 Jul 03 02:30	0°♂		
	2568 Jan 15 10:21	0°♁		morning max el	2570 Jul 30 10:58	22°♂15'46	45°43'06	
evening rise	2568 Feb 03 18:39	24°♁18'29			2570 Aug 07 08:40	0°♁		
	2568 Feb 08 07:32	0°♁			2570 Sep 04 12:02	0°♂		
	2568 Mar 03 07:23	0°♂		asc. node	2570 Sep 24 17:38	23°♂07'23		
	2568 Mar 27 12:09	0°♂			2570 Sep 30 14:24	0°♍		
asc. node	2568 Apr 08 22:33	15°♂16'36			2570 Oct 25 15:19	0°♌		
	2568 Apr 21 00:24	0°♂			2570 Nov 19 01:26	0°♍		
	2568 May 15 23:10	0°♁			2570 Dec 13 03:31	0°♎		
	2568 Jun 10 13:38	0°♂			2571 Jan 06 01:54	0°♁		
	2568 Jul 07 07:46	0°♍		desc. node	2571 Jan 14 07:01	10°♁18'42		
desc. node	2568 Jul 29 11:49	23°♍00'36		morning set	2571 Jan 29 04:36	29°♁01'42		
evening max el	2568 Aug 02 10:00	26°♍48'37	45°38'26		2571 Jan 29 23:10	0°♁		
	2568 Aug 05 19:17	0°♌			2571 Feb 22 20:52	0°♁		
greatest brilliancy	2568 Sep 09 01:38	24°♌20'28	-4.5m					
retrograde	2568 Sep 20 04:00	26°♌31'46		superior conj	2571 Mar 11 09:07	20°♁40'17	-1°-26'-20	
evening set	2568 Oct 07 13:56	20°♌51'09		minimum elong	2571 Mar 11 08:48	20°♁39'19	1°26'20	
inferior conj	2568 Oct 11 04:38	18°♌39'40	-7°-55'-5	max. Earth dist.	2571 Mar 15 09:52	25°♁42'31	1.71804 AU	
minimum elong	2568 Oct 11 12:51	18°♌27'01	7°54'02		2571 Mar 18 20:22	0°♂		
min. Earth dist.	2568 Oct 12 02:32	18°♌05'56	0.27872 AU		2571 Apr 11 22:57	0°♂		
morning rise	2568 Oct 15 11:26	16°♌04'04		evening rise	2571 Apr 20 01:44	10°♂03'10		
direct	2568 Nov 01 08:36	10°♌37'09			2571 May 06 05:39	0°♂		
greatest brilliancy	2568 Nov 15 13:16	14°♌17'07	-4.6m	asc. node	2571 May 07 10:27	1°♂28'36		
asc. node	2568 Nov 19 15:05	16°♌28'28			2571 May 30 17:04	0°♁		
	2568 Dec 07 13:56	0°♍			2571 Jun 24 09:51	0°♂		
morning max el	2568 Dec 22 00:19	13°♍50'05	46°51'53		2571 Jul 19 09:42	0°♍		
	2569 Jan 06 05:34	0°♎			2571 Aug 13 20:20	0°♌		

desc. node	2571 Aug 26 23:43	15°♁11'28		desc. node	2574 Feb 10 18:55	27°♁00'07	
	2571 Sep 09 01:09	0°♁			2574 Feb 13 04:47	0°♁	
	2571 Oct 06 18:57	0°♁			2574 Mar 09 07:24	0°♁	
evening max el	2571 Oct 15 08:24	8°♁37'11	46°41'20		2574 Apr 02 10:38	0°♁	
	2571 Nov 08 20:43	0°♁		morning set	2574 Apr 14 13:34	15°♁01'58	
greatest brilliancy	2571 Nov 23 06:00	8°♁15'36	-4.6m		2574 Apr 26 15:41	0°♁	
retrograde	2571 Dec 04 10:25	10°♁35'37			2574 May 20 22:59	0°♁	
asc. node	2571 Dec 18 02:57	6°♁52'42		superior conj	2574 May 22 12:50	1°♁56'35	0°-29'00
evening set	2571 Dec 18 17:39	6°♁33'36		minimum elong	2574 May 22 18:51	2°♁15'09	0°28'44
inferior conj	2571 Dec 24 23:52	2°♁55'21	1°46'50	max. Earth dist.	2574 May 24 08:32	4°♁11'11	1.73260 AU
minimum elong	2571 Dec 24 19:49	3°♁01'31	1°45'32	asc. node	2574 Jun 03 22:11	17°♁11'44	
min. Earth dist.	2571 Dec 24 20:28	3°♁00'32	0.26458 AU		2574 Jun 14 08:10	0°♁	
	2571 Dec 29 22:12	30°♁		evening rise	2574 Jun 28 09:53	17°♁17'05	
morning rise	2571 Dec 30 21:50	29°♁27'33			2574 Jul 08 18:38	0°♁	
direct	2572 Jan 14 08:36	25°♁17'09			2574 Aug 02 06:21	0°♁	
greatest brilliancy	2572 Jan 26 08:26	27°♁57'37	-4.7m		2574 Aug 26 20:15	0°♁	
	2572 Jan 30 14:09	0°♁			2574 Sep 20 13:53	0°♁	
morning max el	2572 Mar 04 17:12	27°♁59'55	46°48'30	desc. node	2574 Sep 23 11:47	3°♁31'01	
	2572 Mar 06 16:52	0°♁			2574 Oct 15 13:08	0°♁	
	2572 Apr 03 13:39	0°♁			2574 Nov 09 21:32	0°♁	
desc. node	2572 Apr 07 16:44	4°♁39'19			2574 Dec 06 01:22	0°♁	
	2572 Apr 29 17:19	0°♁		evening max el	2574 Dec 27 02:24	22°♁35'31	47°16'45
	2572 May 25 04:50	0°♁			2575 Jan 03 13:41	0°♁	
	2572 Jun 19 08:14	0°♁		asc. node	2575 Jan 14 14:49	10°♁01'23	
	2572 Jul 14 05:47	0°♁		greatest brilliancy	2575 Feb 02 23:18	23°♁05'17	-4.7m
asc. node	2572 Jul 29 19:50	18°♁55'32		retrograde	2575 Feb 16 00:53	26°♁15'48	
	2572 Aug 07 21:33	0°♁		evening set	2575 Mar 05 22:08	20°♁01'49	
morning set	2572 Sep 01 01:58	29°♁43'10		min. Earth dist.	2575 Mar 08 05:41	18°♁35'51	0.27580 AU
	2572 Sep 01 07:25	0°♁		inferior conj	2575 Mar 08 21:16	18°♁11'30	8°52'38
	2572 Sep 25 12:17	0°♁		minimum elong	2575 Mar 08 20:21	18°♁12'56	8°52'37
max. Earth dist.	2572 Oct 04 21:53	11°♁42'10	1.72219 AU	morning rise	2575 Mar 11 18:46	16°♁24'12	
				direct	2575 Mar 29 15:20	10°♁18'13	
superior conj	2572 Oct 08 00:04	15°♁33'25	1°18'10	greatest brilliancy	2575 Apr 09 10:08	12°♁27'42	-4.6m
minimum elong	2572 Oct 08 07:13	15°♁55'42	1°18'02		2575 May 05 19:10	0°♁	
	2572 Oct 19 13:49	0°♁		desc. node	2575 May 06 04:20	0°♁19'55	
	2572 Nov 12 13:42	0°♁		morning max el	2575 May 18 01:14	11°♁18'09	46°05'03
evening rise	2572 Nov 15 21:54	4°♁10'53			2575 Jun 05 09:19	0°♁	
desc. node	2572 Nov 18 09:31	7°♁17'22			2575 Jul 02 15:55	0°♁	
	2572 Dec 06 13:02	0°♁			2575 Jul 28 17:06	0°♁	
	2572 Dec 30 12:37	0°♁			2575 Aug 23 00:51	0°♁	
	2573 Jan 23 14:07	0°♁		asc. node	2575 Aug 27 07:45	5°♁08'54	
	2573 Feb 16 20:45	0°♁			2575 Sep 16 19:29	0°♁	
asc. node	2573 Mar 11 12:39	27°♁32'28			2575 Oct 11 04:11	0°♁	
	2573 Mar 13 13:49	0°♁			2575 Nov 04 06:12	0°♁	
	2573 Apr 08 01:49	0°♁		greatest brilliancy	2575 Nov 10 02:02	7°♁17'36	-3.9m
	2573 May 05 02:38	0°♁		morning set	2575 Nov 11 15:46	9°♁15'46	
evening max el	2573 May 20 19:44	15°♁58'29	45°32'04		2575 Nov 28 04:30	0°♁	
	2573 Jun 05 11:01	0°♁		desc. node	2575 Dec 16 21:15	23°♁30'25	
greatest brilliancy	2573 Jun 24 10:15	12°♁29'16	-4.5m	superior conj	2575 Dec 21 20:29	29°♁45'20	0°-11'-53
desc. node	2573 Jul 01 02:04	14°♁56'40		minimum elong	2575 Dec 21 17:21	29°♁35'28	0°11'45
retrograde	2573 Jul 08 14:01	15°♁59'06		behind sun begin	2575 Dec 20 22:54	28°♁37'28	
evening set	2573 Jul 24 12:56	11°♁06'42		behind sun end	2575 Dec 22 11:47	0°♁33'28	
inferior conj	2573 Jul 30 01:46	7°♁46'18	-6°-8'-14	max. Earth dist.	2575 Dec 21 13:35	29°♁23'39	1.71117 AU
minimum elong	2573 Jul 29 15:53	8°♁01'43	6°06'12		2575 Dec 22 01:09	0°♁	
min. Earth dist.	2573 Jul 29 23:47	7°♁49'24	0.29032 AU		2576 Jan 14 21:28	0°♁	
morning rise	2573 Aug 03 18:45	4°♁53'58		evening rise	2576 Feb 01 05:09	21°♁45'45	
	2573 Aug 15 13:23	30°♁			2576 Feb 07 18:43	0°♁	
direct	2573 Aug 20 16:51	29°♁28'25			2576 Mar 02 18:40	0°♁	
	2573 Aug 25 23:41	0°♁			2576 Mar 26 23:37	0°♁	
greatest brilliancy	2573 Sep 03 21:12	2°♁59'11	-4.5m	asc. node	2576 Apr 08 00:35	14°♁47'17	
	2573 Oct 08 20:13	0°♁			2576 Apr 20 12:12	0°♁	
morning max el	2573 Oct 09 03:27	0°♁17'42	46°09'25		2576 May 15 11:37	0°♁	
asc. node	2573 Oct 22 05:22	13°♁41'28			2576 Jun 10 03:22	0°♁	
	2573 Nov 06 02:18	0°♁			2576 Jun 10 03:22	0°♁	
	2573 Dec 01 21:27	0°♁			2576 Jul 07 00:21	0°♁	
	2573 Dec 26 16:32	0°♁		desc. node	2576 Jul 28 13:57	22°♁12'10	
	2574 Jan 20 00:52	0°♁					

evening max el	2576 Jul 30 23:53	24°♎31'42	45°36'57		2579 Jan 29 10:26	0°♁	
	2576 Aug 05 20:45	0°♌			2579 Feb 22 08:02	0°♋	
greatest brilliancy	2576 Sep 06 14:45	22°♌02'28	-4.5m				
retrograde	2576 Sep 17 17:03	24°♌14'02		superior conj	2579 Mar 08 20:59	18°♋12'41	-1°-26'-12
evening set	2576 Oct 05 06:32	18°♌29'30		minimum elong	2579 Mar 08 19:38	18°♋08'27	1°26'13
inferior conj	2576 Oct 08 18:58	16°♌21'15	-8°-3'-43	max. Earth dist.	2579 Mar 12 17:29	23°♋01'46	1.71749 AU
minimum elong	2576 Oct 09 02:35	16°♌09'28	8°02'48		2579 Mar 18 07:26	0°♍	
min. Earth dist.	2576 Oct 09 16:49	15°♌47'31	0.27938 AU		2579 Apr 11 09:58	0°♎	
morning rise	2576 Oct 12 22:19	13°♌50'19		evening rise	2579 Apr 17 15:52	7°♎44'16	
direct	2576 Oct 29 23:10	8°♌17'40			2579 May 05 16:43	0°♏	
greatest brilliancy	2576 Nov 13 05:05	11°♌58'06	-4.6m	asc. node	2579 May 06 12:25	1°♏00'34	
asc. node	2576 Nov 18 17:04	15°♌01'00			2579 May 30 04:19	0°♐	
	2576 Dec 07 19:21	0°♍			2579 Jun 23 21:29	0°♑	
morning max el	2576 Dec 19 13:38	11°♍24'43	46°51'04		2579 Jul 18 22:00	0°♒	
	2577 Jan 05 23:38	0°♎			2579 Aug 13 09:47	0°♓	
	2577 Feb 01 03:08	0°♏		desc. node	2579 Aug 26 01:50	14°♓36'16	
	2577 Feb 26 06:41	0°♁			2579 Sep 08 16:52	0°♌	
desc. node	2577 Mar 10 06:53	14°♁31'08			2579 Oct 06 16:01	0°♍	
	2577 Mar 23 00:32	0°♋		evening max el	2579 Oct 12 21:36	6°♍13'36	46°39'09
	2577 Apr 16 14:32	0°♌			2579 Nov 09 22:53	0°♎	
	2577 May 11 03:24	0°♍		greatest brilliancy	2579 Nov 20 18:25	5°♎46'41	-4.6m
	2577 Jun 04 16:00	0°♎		retrograde	2579 Dec 01 22:54	8°♎06'39	
morning set	2577 Jun 22 22:08	22°♎21'04		evening set	2579 Dec 16 05:43	4°♎04'28	
	2577 Jun 29 03:56	0°♏		asc. node	2579 Dec 17 05:01	3°♎33'05	
asc. node	2577 Jul 01 10:04	2°♏45'56		inferior conj	2579 Dec 22 12:02	0°♏26'24	1°22'26
	2577 Jul 23 14:14	0°♑		minimum elong	2579 Dec 22 08:54	0°♏31'11	1°21'26
max. Earth dist.	2577 Jul 27 07:30	4°♑34'36	1.73444 AU	min. Earth dist.	2579 Dec 22 09:59	0°♏29'32	0.26465 AU
					2579 Dec 23 05:26	30°♑♎	
superior conj	2577 Jul 29 10:30	7°♑11'35	1°00'08	morning rise	2579 Dec 28 11:54	26°♑56'30	
minimum elong	2577 Jul 29 01:41	6°♑44'27	0°59'49	direct	2580 Jan 11 21:21	22°♑47'46	
	2577 Aug 16 22:26	0°♒		greatest brilliancy	2580 Jan 23 23:36	25°♑31'35	-4.7m
evening rise	2577 Sep 03 09:25	21°♒34'13			2580 Feb 01 07:56	0°♓	
	2577 Sep 10 05:00	0°♓		morning max el	2580 Mar 02 07:33	25°♓37'08	46°49'39
	2577 Oct 04 11:02	0°♌			2580 Mar 06 15:02	0°♁	
desc. node	2577 Oct 20 23:36	20°♌25'51			2580 Apr 03 05:52	0°♋	
	2577 Oct 28 17:32	0°♍		desc. node	2580 Apr 06 18:38	4°♋00'03	
	2577 Nov 22 01:18	0°♎			2580 Apr 29 07:07	0°♌	
	2577 Dec 16 11:56	0°♏			2580 May 24 17:22	0°♍	
	2578 Jan 10 05:51	0°♋			2580 Jun 18 20:00	0°♎	
	2578 Feb 04 17:24	0°♌		asc. node	2580 Jul 13 17:06	0°♏	
asc. node	2578 Feb 11 02:46	7°♌17'00			2580 Jul 28 21:58	18°♏28'11	
	2578 Mar 04 00:51	0°♍			2580 Aug 07 08:36	0°♑	
evening max el	2578 Mar 08 17:55	4°♍47'30	46°30'30	morning set	2580 Aug 29 19:14	27°♑34'35	
	2578 Apr 07 15:37	0°♎			2580 Aug 31 18:22	0°♒	
greatest brilliancy	2578 Apr 13 06:11	3°♎06'08	-4.6m		2580 Sep 24 23:12	0°♓	
retrograde	2578 Apr 27 16:45	6°♎50'37		max. Earth dist.	2580 Oct 02 13:47	9°♓28'06	1.72267 AU
evening set	2578 May 13 09:25	2°♏03'11					
	2578 May 16 19:58	30°♑♎		superior conj	2580 Oct 05 15:48	13°♓18'38	1°19'27
inferior conj	2578 May 19 01:14	28°♑36'30	3°24'27	minimum elong	2580 Oct 05 22:20	13°♓39'01	1°19'20
minimum elong	2578 May 19 08:14	28°♑25'28	3°22'30		2580 Oct 19 00:49	0°♌	
min. Earth dist.	2578 May 19 00:58	28°♑36'56	0.28611 AU		2580 Nov 12 00:50	0°♍	
morning rise	2578 May 25 07:19	24°♑50'04		evening rise	2580 Nov 13 10:25	1°♍45'02	
desc. node	2578 Jun 02 16:08	21°♑19'03		desc. node	2580 Nov 17 11:30	6°♍48'40	
direct	2578 Jun 09 09:53	20°♑25'01			2580 Dec 06 00:19	0°♎	
greatest brilliancy	2578 Jun 22 00:56	23°♑13'18	-4.5m		2580 Dec 30 00:06	0°♏	
	2578 Jul 04 02:34	0°♐			2581 Jan 23 01:51	0°♋	
morning max el	2578 Jul 28 02:21	20°♐03'57	45°43'02		2581 Feb 16 08:54	0°♌	
	2578 Aug 07 04:20	0°♑		asc. node	2581 Mar 10 14:38	26°♌59'59	
	2578 Sep 04 02:57	0°♒			2581 Mar 13 02:42	0°♍	
asc. node	2578 Sep 23 19:40	22°♒34'16			2581 Apr 07 16:10	0°♎	
	2578 Sep 30 03:28	0°♓			2581 May 04 20:32	0°♏	
	2578 Oct 25 03:30	0°♌		evening max el	2581 May 18 12:31	13°♏49'40	45°33'16
	2578 Nov 18 13:10	0°♍			2581 Jun 05 20:21	0°♑	
	2578 Dec 12 15:00	0°♎		greatest brilliancy	2581 Jun 22 01:06	10°♑18'52	-4.5m
	2579 Jan 05 13:16	0°♏		desc. node	2581 Jun 30 04:09	13°♑08'28	
desc. node	2579 Jan 13 09:05	9°♏49'41		retrograde	2581 Jul 06 06:37	13°♑50'09	
morning set	2579 Jan 26 14:11	26°♏25'37		evening set	2581 Jul 22 02:44	9°♑01'21	



inferior conj	2581 Jul 27 18:04	5°♁37'01	-5°-54'-1	behind sun begin	2583 Dec 18 05:37	25°♁753'08	
minimum elong	2581 Jul 27 08:14	5°♁52'22	5°51'56	behind sun end	2583 Dec 20 03:59	28°♁18'56	
min. Earth dist.	2581 Jul 27 15:15	5°♁41'25	0.29035 AU		2583 Dec 21 12:08	0°♁	
morning rise	2581 Aug 01 13:43	2°♁40'48			2584 Jan 14 08:29	0°♁	
	2581 Aug 06 17:37	30°♁♁		evening rise	2584 Jan 29 15:06	19°♁11'36	
direct	2581 Aug 18 09:53	27°♁19'20			2584 Feb 07 05:47	0°♁	
	2581 Aug 30 16:03	0°♁			2584 Mar 02 05:48	0°♁	
greatest brilliancy	2581 Sep 01 11:45	0°♁47'46	-4.5m		2584 Mar 26 10:55	0°♁	
morning max el	2581 Oct 06 19:17	28°♁05'07	46°07'48	asc. node	2584 Apr 07 02:34	14°♁18'22	
	2581 Oct 08 17:54	0°♁			2584 Apr 19 23:50	0°♁	
asc. node	2581 Oct 21 07:22	12°♁58'33			2584 May 14 23:55	0°♁	
	2581 Nov 05 17:58	0°♁			2584 Jun 09 17:01	0°♁	
	2581 Dec 01 11:02	0°♁			2584 Jul 06 17:00	0°♁	
	2581 Dec 26 05:07	0°♁		desc. node	2584 Jul 27 16:04	21°♁23'42	
desc. node	2582 Jan 19 12:52	0°♁		evening max el	2584 Jul 28 13:04	22°♁14'00	45°35'36
	2582 Feb 09 21:02	26°♁30'33			2584 Aug 05 23:18	0°♁	
	2582 Feb 12 16:23	0°♁		greatest brilliancy	2584 Sep 04 03:18	19°♁45'01	-4.5m
	2582 Mar 08 18:43	0°♁		retrograde	2584 Sep 15 06:26	21°♁57'55	
	2582 Apr 01 21:45	0°♁		evening set	2584 Oct 02 22:57	16°♁09'31	
morning set	2582 Apr 12 03:52	12°♁43'24		inferior conj	2584 Oct 06 09:24	14°♁04'17	-8°-11'-17
	2582 Apr 26 02:38	0°♁		minimum elong	2584 Oct 06 16:24	13°♁53'28	8°10'33
				min. Earth dist.	2584 Oct 07 07:10	13°♁30'41	0.28006 AU
superior conj	2582 May 20 05:13	29°♁45'48	0°-32'-8	morning rise	2584 Oct 10 09:30	11°♁38'01	
minimum elong	2582 May 20 11:50	0°♁06'11	0°31'51	direct	2584 Oct 27 13:39	5°♁59'33	
	2582 May 20 09:50	0°♁		greatest brilliancy	2584 Nov 10 21:47	9°♁41'42	-4.6m
max. Earth dist.	2582 May 22 06:25	2°♁17'24	1.73223 AU	asc. node	2584 Nov 17 19:11	13°♁37'46	
asc. node	2582 Jun 03 00:19	16°♁45'04			2584 Dec 07 22:32	0°♁	
	2582 Jun 13 18:58	0°♁		morning max el	2584 Dec 17 03:15	9°♁01'05	46°50'04
evening rise	2582 Jun 26 04:24	15°♁13'22			2585 Jan 05 17:02	0°♁	
	2582 Jul 08 05:29	0°♁			2585 Jan 31 17:33	0°♁	
	2582 Aug 01 17:25	0°♁			2585 Feb 25 19:40	0°♁	
	2582 Aug 26 07:44	0°♁		desc. node	2585 Mar 09 08:48	13°♁58'58	
desc. node	2582 Sep 20 01:59	0°♁			2585 Mar 22 12:40	0°♁	
	2582 Sep 22 13:44	3°♁00'08			2585 Apr 16 02:05	0°♁	
	2582 Oct 15 02:10	0°♁			2585 May 10 14:31	0°♁	
	2582 Nov 09 12:06	0°♁			2585 Jun 04 02:49	0°♁	
	2582 Dec 05 18:55	0°♁		morning set	2585 Jun 20 15:50	20°♁15'29	
evening max el	2582 Dec 24 17:28	20°♁14'10	47°16'56		2585 Jun 28 14:35	0°♁	
	2583 Jan 03 16:16	0°♁		asc. node	2585 Jun 30 12:10	2°♁19'43	
asc. node	2583 Jan 13 17:00	8°♁52'36			2585 Jul 23 00:50	0°♁	
greatest brilliancy	2583 Jan 31 15:51	20°♁44'48	-4.7m	max. Earth dist.	2585 Jul 25 03:16	2°♁35'09	1.73466 AU
retrograde	2583 Feb 13 15:12	23°♁52'27					
evening set	2583 Mar 03 10:44	17°♁41'33		superior conj	2585 Jul 27 04:54	5°♁07'51	0°57'52
inferior conj	2583 Mar 06 11:11	15°♁49'06	8°51'37	minimum elong	2585 Jul 26 20:06	4°♁40'48	0°57'33
minimum elong	2583 Mar 06 09:22	15°♁51'56	8°51'34		2585 Aug 16 09:04	0°♁	
min. Earth dist.	2583 Mar 05 18:51	16°♁14'39	0.27526 AU	evening rise	2585 Sep 01 03:09	19°♁27'37	
morning rise	2583 Mar 09 08:14	14°♁02'24			2585 Sep 09 15:46	0°♁	
direct	2583 Mar 27 04:59	7°♁57'00			2585 Oct 03 22:01	0°♁	
greatest brilliancy	2583 Apr 06 21:56	10°♁04'40	-4.6m	desc. node	2585 Oct 20 01:40	19°♁57'39	
desc. node	2583 May 05 06:23	29°♁20'11			2585 Oct 28 04:50	0°♁	
	2583 May 06 00:16	0°♁			2585 Nov 21 13:02	0°♁	
morning max el	2583 May 15 14:50	8°♁58'59	46°06'22		2585 Dec 16 00:19	0°♁	
	2583 Jun 05 02:52	0°♁			2586 Jan 09 19:14	0°♁	
	2583 Jul 02 06:02	0°♁			2586 Feb 04 08:42	0°♁	
	2583 Jul 28 05:38	0°♁		asc. node	2586 Feb 10 04:44	6°♁37'16	
	2583 Aug 22 12:31	0°♁			2586 Mar 03 21:14	0°♁	
asc. node	2583 Aug 26 09:47	4°♁40'11		evening max el	2586 Mar 06 08:04	2°♁28'40	46°32'54
	2583 Sep 16 06:42	0°♁			2586 Apr 09 03:48	0°♁	
	2583 Oct 10 15:11	0°♁		greatest brilliancy	2586 Apr 10 22:16	0°♁53'56	-4.6m
	2583 Nov 03 17:08	0°♁		retrograde	2586 Apr 25 08:58	4°♁39'20	
morning set	2583 Nov 09 05:24	6°♁53'53			2586 May 10 19:22	30°♁♁	
	2583 Nov 27 15:27	0°♁		evening set	2586 May 11 03:37	29°♁48'22	
desc. node	2583 Dec 15 23:24	23°♁02'39		inferior conj	2586 May 16 17:13	26°♁25'09	3°43'09
max. Earth dist.	2583 Dec 18 15:52	26°♁25'19	1.71133 AU	minimum elong	2586 May 17 00:44	26°♁13'19	3°41'07
				min. Earth dist.	2586 May 16 17:06	26°♁25'20	0.28589 AU
superior conj	2583 Dec 19 06:54	27°♁12'39	0°-7'-57	morning rise	2586 May 22 22:05	22°♁40'34	
minimum elong	2583 Dec 19 04:48	27°♁06'02	0°07'52	desc. node	2586 Jun 01 18:14	18°♁47'07	

direct	2586 Jun 07 01:02	18°♄13'49		2588 Dec 05 11:21	0°♁	
greatest brilliancy	2586 Jun 19 16:19	21°♄02'27	-4.5m	2588 Dec 29 11:18	0°♁	
	2586 Jul 04 19:58	0°♁		2589 Jan 22 13:17	0°♁	
morning max el	2586 Jul 25 18:22	17°♁54'37	45°43'03	2589 Feb 15 20:45	0°♁	
	2586 Aug 06 23:06	0°♁		2589 Mar 09 16:39	26°♁28'32	
	2586 Sep 03 17:20	0°♁		2589 Mar 12 15:18	0°♁	
asc. node	2586 Sep 22 21:35	22°♁01'59		2589 Apr 07 06:19	0°♁	
	2586 Sep 29 16:07	0°♁		2589 May 04 14:33	0°♁	
	2586 Oct 24 15:17	0°♁		2589 May 16 05:11	11°♁41'12	45°34'21
	2586 Nov 18 00:30	0°♁		2589 Jun 06 08:36	0°♁	
	2586 Dec 12 02:06	0°♁		2589 Jun 19 17:10	8°♁10'30	-4.5m
	2587 Jan 05 00:14	0°♁		2589 Jun 29 06:14	11°♁16'59	
desc. node	2587 Jan 12 11:11	9°♁21'56		2589 Jul 03 22:53	11°♁41'49	
morning set	2587 Jan 24 00:01	23°♁51'26		2589 Jul 19 16:44	6°♁56'39	
	2587 Jan 28 21:19	0°♁		2589 Jul 25 10:26	3°♁28'36	-5°-39'-21
	2587 Feb 21 18:52	0°♁		2589 Jul 25 00:42	3°♁43'49	5°37'13
				2589 Jul 25 07:05	3°♁33'50	0.29034 AU
superior conj	2587 Mar 06 08:37	15°♁45'08	-1°-25'-54	2589 Jul 30 08:42	0°♁28'23	
minimum elong	2587 Mar 06 06:14	15°♁37'42	1°25'55	2589 Jul 31 04:38	30°♁R♁	
max. Earth dist.	2587 Mar 10 01:11	20°♁22'10	1.71703 AU	2589 Aug 16 02:41	25°♁11'13	
	2587 Mar 17 18:12	0°♁		2589 Aug 30 01:51	28°♁36'28	-4.5m
	2587 Apr 10 20:43	0°♁		2589 Sep 01 21:28	0°♁	
evening rise	2587 Apr 15 05:36	5°♁24'54		2589 Oct 04 10:08	25°♁50'59	46°06'12
	2587 May 05 03:31	0°♁		2589 Oct 08 14:31	0°♁	
asc. node	2587 May 05 14:32	0°♁23'51		2589 Oct 20 09:33	12°♁17'27	
	2587 May 29 15:18	0°♁		2589 Nov 05 09:08	0°♁	
	2587 Jun 23 08:49	0°♁		2589 Dec 01 00:16	0°♁	
	2587 Jul 18 10:01	0°♁		2589 Dec 25 17:25	0°♁	
	2587 Aug 12 23:02	0°♁		2590 Jan 19 00:38	0°♁	
desc. node	2587 Aug 25 03:46	14°♁01'19		2590 Feb 08 22:58	26°♁01'03	
	2587 Sep 08 08:29	0°♁		2590 Feb 12 03:45	0°♁	
	2587 Oct 06 13:27	0°♁		2590 Mar 08 05:48	0°♁	
evening max el	2587 Oct 10 11:49	3°♁53'45	46°36'57	2590 Apr 01 08:36	0°♁	
	2587 Nov 11 10:45	0°♁		2590 Apr 09 18:22	10°♁26'08	
greatest brilliancy	2587 Nov 18 06:47	3°♁19'19	-4.6m	2590 Apr 25 13:21	0°♁	
retrograde	2587 Nov 29 11:44	5°♁39'08				
evening set	2587 Dec 13 18:12	1°♁36'49		2590 May 17 21:46	27°♁36'09	0°-35'-12
asc. node	2587 Dec 16 07:06	0°♁12'11		2590 May 18 04:56	27°♁58'14	0°34'54
	2587 Dec 16 15:29	30°♁R♁		2590 May 19 20:26	0°♁	
inferior conj	2587 Dec 20 00:17	27°♁58'56	0°58'02	2590 May 20 04:12	0°♁23'55	1.73187 AU
minimum elong	2587 Dec 19 22:03	28°♁02'19	0°57'18	2590 Jun 02 02:24	16°♁18'55	
min. Earth dist.	2587 Dec 19 23:17	28°♁00'27	0.26471 AU	2590 Jun 13 05:34	0°♁	
morning rise	2587 Dec 26 01:49	24°♁27'13		2590 Jun 23 22:52	13°♁10'02	
direct	2588 Jan 09 10:29	20°♁20'13		2590 Jul 07 16:12	0°♁	
greatest brilliancy	2588 Jan 21 13:41	23°♁05'50	-4.7m	2590 Aug 01 04:22	0°♁	
	2588 Feb 02 12:06	0°♁		2590 Aug 25 19:06	0°♁	
morning max el	2588 Feb 28 21:52	23°♁15'41	46°50'36	2590 Sep 19 14:00	0°♁	
	2588 Mar 06 11:53	0°♁		2590 Sep 21 15:47	2°♁29'56	
	2588 Apr 02 21:24	0°♁		2590 Oct 14 15:10	0°♁	
desc. node	2588 Apr 05 20:43	3°♁22'46		2590 Nov 09 02:42	0°♁	
	2588 Apr 28 20:28	0°♁		2590 Dec 05 12:44	0°♁	
	2588 May 24 05:32	0°♁		2590 Dec 22 07:32	17°♁50'24	47°16'55
	2588 Jun 18 07:28	0°♁		2591 Jan 03 20:24	0°♁	
	2588 Jul 13 04:07	0°♁		2591 Jan 12 18:59	7°♁41'41	
asc. node	2588 Jul 27 23:57	18°♁01'21		2591 Jan 29 08:53	18°♁24'46	-4.7m
	2588 Aug 06 19:20	0°♁		2591 Feb 11 05:01	21°♁29'03	
morning set	2588 Aug 27 12:28	25°♁26'58		2591 Feb 28 22:50	15°♁22'01	
	2588 Aug 31 04:58	0°♁		2591 Mar 03 08:22	13°♁52'59	0.27469 AU
	2588 Sep 24 09:49	0°♁		2591 Mar 04 01:04	13°♁26'50	8°49'42
max. Earth dist.	2588 Sep 30 04:20	7°♁10'50	1.72317 AU	2591 Mar 03 22:21	13°♁31'05	8°49'36
				2591 Mar 06 22:05	11°♁40'06	
superior conj	2588 Oct 03 07:38	11°♁05'15	1°20'36	2591 Mar 24 18:02	5°♁35'45	
minimum elong	2588 Oct 03 13:32	11°♁23'37	1°20'31	2591 Apr 04 10:42	7°♁42'45	-4.6m
	2588 Oct 18 11:32	0°♁		2591 May 04 08:30	28°♁22'21	
evening rise	2588 Nov 10 23:05	29°♁20'32		2591 May 06 03:23	0°♁	
	2588 Nov 11 11:43	0°♁		2591 May 13 03:36	6°♁37'58	46°07'55
desc. node	2588 Nov 16 13:39	6°♁21'19		2591 Jun 04 19:53	0°♁	

	2591 Jul 01 19:53	0°♁			2594 Feb 04 00:32	0°♁	
	2591 Jul 27 18:01	0°♁		asc. node	2594 Feb 09 06:45	5°♁56'27	
	2591 Aug 22 00:07	0°♁			2594 Mar 03 18:41	0°♁	
asc. node	2591 Aug 25 11:46	4°♁11'26		evening max el	2594 Mar 03 22:52	0°♁10'30	46°35'17
	2591 Sep 15 17:54	0°♁		greatest brilliancy	2594 Apr 08 14:19	28°♁40'32	-4.6m
	2591 Oct 10 02:11	0°♁			2594 Apr 11 13:45	0°♁	
	2591 Nov 03 04:04	0°♁		retrograde	2594 Apr 23 01:35	2°♁26'38	
morning set	2591 Nov 06 19:07	4°♁32'21			2594 May 04 01:15	30°♁	
	2591 Nov 27 02:23	0°♁		evening set	2594 May 08 21:50	27°♁32'02	
desc. node	2591 Dec 15 01:24	22°♁34'28		inferior conj	2594 May 14 09:03	24°♁12'19	4°01'43
max. Earth dist.	2591 Dec 15 20:30	23°♁34'30	1.71154 AU	minimum elong	2594 May 14 17:03	23°♁59'44	3°59'35
				min. Earth dist.	2594 May 14 08:48	24°♁12'43	0.28565 AU
superior conj	2591 Dec 16 17:26	24°♁40'20	0°-4'-1	morning rise	2594 May 20 12:33	20°♁30'02	
minimum elong	2591 Dec 16 16:22	24°♁36'58	0°03'59	desc. node	2594 May 31 20:16	16°♁18'54	
behind sun begin	2591 Dec 15 14:53	23°♁16'52		direct	2594 Jun 04 16:31	16°♁01'15	
behind sun end	2591 Dec 17 17:50	25°♁57'05		greatest brilliancy	2594 Jun 17 06:58	18°♁49'40	-4.5m
	2591 Dec 20 23:06	0°♁			2594 Jul 05 09:23	0°♁	
	2592 Jan 13 19:32	0°♁		morning max el	2594 Jul 23 10:56	15°♁45'52	45°43'14
evening rise	2592 Jan 27 01:09	16°♁37'39			2594 Aug 06 17:39	0°♁	
	2592 Feb 06 16:54	0°♁			2594 Sep 03 07:48	0°♁	
	2592 Mar 01 17:01	0°♁		asc. node	2594 Sep 21 23:48	21°♁30'03	
	2592 Mar 25 22:17	0°♁			2594 Sep 29 04:56	0°♁	
asc. node	2592 Apr 06 04:42	13°♁49'45			2594 Oct 24 03:19	0°♁	
	2592 Apr 19 11:31	0°♁			2594 Nov 17 12:09	0°♁	
	2592 May 14 12:17	0°♁			2594 Dec 11 13:33	0°♁	
	2592 Jun 09 06:48	0°♁			2595 Jan 04 11:35	0°♁	
	2592 Jul 06 10:01	0°♁		desc. node	2595 Jan 11 13:10	8°♁52'38	
evening max el	2592 Jul 26 02:27	19°♁56'47	45°34'17	morning set	2595 Jan 21 09:39	21°♁15'32	
desc. node	2592 Jul 26 17:58	20°♁33'45			2595 Jan 28 08:35	0°♁	
	2592 Aug 06 03:35	0°♁			2595 Feb 21 06:02	0°♁	
greatest brilliancy	2592 Sep 01 14:52	17°♁26'29	-4.5m				
retrograde	2592 Sep 12 20:25	19°♁41'58		superior conj	2595 Mar 03 19:51	13°♁15'12	-1°-25'-26
evening set	2592 Sep 30 15:14	13°♁49'45		minimum elong	2595 Mar 03 16:26	13°♁04'32	1°25'26
inferior conj	2592 Oct 03 23:57	11°♁47'13	-8°-17'-57	max. Earth dist.	2595 Mar 07 11:23	17°♁49'08	1.71658 AU
minimum elong	2592 Oct 04 06:17	11°♁37'28	8°17'23		2595 Mar 17 05:18	0°♁	
min. Earth dist.	2592 Oct 04 21:22	11°♁14'11	0.28075 AU		2595 Apr 10 07:49	0°♁	
morning rise	2592 Oct 07 20:59	9°♁25'35		evening rise	2595 Apr 12 19:05	3°♁03'39	
direct	2592 Oct 25 04:31	3°♁41'17		asc. node	2595 May 04 16:35	0°♁05'45	
greatest brilliancy	2592 Nov 08 15:14	7°♁26'15	-4.6m		2595 May 04 14:43	0°♁	
asc. node	2592 Nov 16 21:14	12°♁16'47			2595 May 29 02:41	0°♁	
	2592 Dec 08 00:22	0°♁			2595 Jun 22 20:34	0°♁	
morning max el	2592 Dec 14 17:48	6°♁39'32	46°49'04		2595 Jul 17 22:25	0°♁	
	2593 Jan 05 10:12	0°♁			2595 Aug 12 12:42	0°♁	
	2593 Jan 31 07:56	0°♁		desc. node	2595 Aug 24 05:53	13°♁25'45	
	2593 Feb 25 08:43	0°♁			2595 Sep 08 00:40	0°♁	
desc. node	2593 Mar 08 10:53	13°♁26'55			2595 Oct 06 12:06	0°♁	
	2593 Mar 22 00:55	0°♁		evening max el	2595 Oct 08 02:11	1°♁33'31	46°34'32
	2593 Apr 15 13:48	0°♁			2595 Nov 13 18:49	0°♁	
	2593 May 10 01:49	0°♁		greatest brilliancy	2595 Nov 15 19:37	0°♁51'19	-4.6m
	2593 Jun 03 13:49	0°♁		retrograde	2595 Nov 27 00:14	3°♁09'50	
morning set	2593 Jun 18 09:45	18°♁10'00			2595 Dec 09 13:20	30°♁	
	2593 Jun 28 01:23	0°♁		evening set	2595 Dec 11 06:48	29°♁07'23	
asc. node	2593 Jun 29 14:09	1°♁52'42		asc. node	2595 Dec 15 09:05	26°♁47'23	
	2593 Jul 22 11:35	0°♁		inferior conj	2595 Dec 17 12:24	25°♁29'49	0°33'24
max. Earth dist.	2593 Jul 23 01:32	0°♁42'56	1.73486 AU	minimum elong	2595 Dec 17 11:06	25°♁31'46	0°32'58
				min. Earth dist.	2595 Dec 17 12:37	25°♁29'28	0.26484 AU
superior conj	2593 Jul 24 23:29	3°♁04'18	0°55'32	morning rise	2595 Dec 23 15:21	21°♁56'14	
minimum elong	2593 Jul 24 14:46	2°♁37'29	0°55'13	direct	2596 Jan 06 23:30	17°♁51'00	
	2593 Aug 15 19:52	0°♁		greatest brilliancy	2596 Jan 19 03:23	20°♁37'38	-4.7m
evening rise	2593 Aug 29 21:10	17°♁21'23			2596 Feb 03 09:31	0°♁	
	2593 Sep 09 02:44	0°♁		morning max el	2596 Feb 26 11:25	20°♁50'28	46°51'29
	2593 Oct 03 09:15	0°♁			2596 Mar 06 08:39	0°♁	
desc. node	2593 Oct 19 03:47	19°♁28'44			2596 Apr 02 13:13	0°♁	
	2593 Oct 27 16:26	0°♁		desc. node	2596 Apr 04 22:53	2°♁44'35	
	2593 Nov 21 01:07	0°♁			2596 Apr 28 10:10	0°♁	
	2593 Dec 15 13:04	0°♁			2596 May 23 18:05	0°♁	
	2594 Jan 09 09:01	0°♁			2596 Jun 17 19:19	0°♁	

	2596 Jul 12 15:31	0°☿		asc. node	2599 Jan 11 20:58	6°♁28'20	
asc. node	2596 Jul 27 01:58	17°♁33'21		greatest brilliancy	2599 Jan 27 01:07	16°♁03'02	-4.7m
	2596 Aug 06 06:28	0°♁		retrograde	2599 Feb 08 18:35	19°♁05'00	
morning set	2596 Aug 25 05:52	23°♁18'49		evening set	2599 Feb 26 10:24	13°♁02'11	
	2596 Aug 30 15:56	0°♁		min. Earth dist.	2599 Feb 28 21:58	11°♁30'13	0.27420 AU
	2596 Sep 23 20:46	0°♁		inferior conj	2599 Mar 01 14:53	11°♁03'44	8°46'46
max. Earth dist.	2596 Sep 27 18:20	4°♁50'56	1.72364 AU	minimum elong	2599 Mar 01 11:19	11°♁09'20	8°46'34
				morning rise	2599 Mar 04 12:24	9°♁16'15	
superior conj	2596 Sep 30 23:54	8°♁52'18	1°21'36	direct	2599 Mar 22 06:44	3°♁13'19	
minimum elong	2596 Oct 01 05:09	9°♁08'37	1°21'32	greatest brilliancy	2599 Apr 02 00:26	5°♁20'53	-4.6m
	2596 Oct 17 22:34	0°♁		desc. node	2599 May 03 10:29	27°♁24'36	
evening rise	2596 Nov 08 12:07	26°♁56'16			2599 May 06 05:26	0°♁	
	2596 Nov 10 22:54	0°♁		morning max el	2599 May 10 16:38	4°♁16'25	46°09'24
desc. node	2596 Nov 15 15:38	5°♁52'25			2599 Jun 04 12:54	0°♁	
	2596 Dec 04 22:44	0°♁			2599 Jul 01 09:54	0°♁	
	2596 Dec 28 22:55	0°♁			2599 Jul 27 06:34	0°♁	
	2597 Jan 22 01:12	0°♁			2599 Aug 21 11:54	0°♁	
	2597 Feb 15 09:06	0°♁		asc. node	2599 Aug 24 13:54	3°♁42'38	
asc. node	2597 Mar 08 18:47	25°♁55'53			2599 Sep 15 05:16	0°♁	
	2597 Mar 12 04:28	0°♁			2599 Oct 09 13:21	0°♁	
	2597 Apr 06 21:07	0°♁			2599 Nov 02 15:09	0°♁	
	2597 May 04 09:34	0°♁		morning set	2599 Nov 04 09:01	2°♁10'59	
evening max el	2597 May 13 20:49	9°♁28'43	45°35'33		2599 Nov 26 13:26	0°♁	
	2597 Jun 07 01:59	0°♁		max. Earth dist.	2599 Dec 13 04:30	20°♁54'00	1.71171 AU
greatest brilliancy	2597 Jun 17 09:12	6°♁00'31	-4.5m				
desc. node	2597 Jun 28 08:12	9°♁19'49		superior conj	2599 Dec 14 04:19	22°♁08'54	0°00'-5
retrograde	2597 Jul 01 14:39	9°♁31'57		minimum elong	2599 Dec 14 04:16	22°♁08'45	0°00'05
evening set	2597 Jul 17 06:46	4°♁50'10		behind sun begin	2599 Dec 13 02:55	20°♁49'00	
inferior conj	2597 Jul 23 02:42	1°♁18'45	-5°-24'-13	behind sun end	2599 Dec 15 05:38	23°♁28'30	
minimum elong	2597 Jul 22 17:08	1°♁33'45	5°22'02	desc. node	2599 Dec 14 03:25	22°♁06'04	
min. Earth dist.	2597 Jul 22 23:14	1°♁24'10	0.29030 AU		2599 Dec 20 10:10	0°♁	
	2597 Jul 25 05:11	30°♁		evening rise	2600 Jan 13 06:37	0°♁	
morning rise	2597 Jul 28 03:30	28°♁14'30			2600 Jan 24 11:39	14°♁05'06	
direct	2597 Aug 13 18:48	23°♁01'31			2600 Feb 06 04:02	0°♁	
greatest brilliancy	2597 Aug 27 16:07	26°♁23'58	-4.5m		2600 Mar 02 04:15	0°♁	
	2597 Sep 03 09:01	0°♁			2600 Mar 26 09:42	0°♁	
morning max el	2597 Oct 02 00:20	23°♁34'14	46°04'53	asc. node	2600 Apr 06 06:42	13°♁20'23	
	2597 Oct 08 10:52	0°♁			2600 Apr 19 23:20	0°♁	
asc. node	2597 Oct 19 11:31	11°♁35'22			2600 May 15 00:52	0°♁	
	2597 Nov 05 00:24	0°♁			2600 Jun 09 20:53	0°♁	
	2597 Nov 30 13:40	0°♁			2600 Jul 07 03:36	0°♁	
	2597 Dec 25 05:55	0°♁		evening max el	2600 Jul 24 16:31	17°♁40'56	45°33'10
	2598 Jan 18 12:37	0°♁		desc. node	2600 Jul 26 20:07	19°♁43'02	
desc. node	2598 Feb 08 01:04	25°♁31'11			2600 Aug 07 10:07	0°♁	
	2598 Feb 11 15:24	0°♁		greatest brilliancy	2600 Aug 31 01:25	15°♁06'36	-4.5m
	2598 Mar 07 17:13	0°♁		retrograde	2600 Sep 11 10:48	17°♁25'34	
	2598 Mar 31 19:51	0°♁		evening set	2600 Sep 29 07:11	11°♁29'50	
morning set	2598 Apr 07 08:13	8°♁05'32		inferior conj	2600 Oct 02 14:21	9°♁29'37	-8°-23'-56
	2598 Apr 25 00:26	0°♁		minimum elong	2600 Oct 02 19:58	9°♁20'58	8°23'28
				min. Earth dist.	2600 Oct 03 11:01	8°♁57'46	0.28142 AU
superior conj	2598 May 15 13:45	25°♁23'38	0°-38'-17	morning rise	2600 Oct 06 08:27	7°♁12'28	
minimum elong	2598 May 15 21:26	25°♁47'20	0°37'57	direct	2600 Oct 23 19:41	1°♁22'38	
max. Earth dist.	2598 May 17 23:54	28°♁22'52	1.73145 AU	greatest brilliancy	2600 Nov 07 08:07	5°♁09'58	-4.6m
	2598 May 19 07:25	0°♁		asc. node	2600 Nov 16 23:13	10°♁57'58	
asc. node	2598 Jun 01 04:20	15°♁51'08			2600 Dec 09 00:59	0°♁	
	2598 Jun 12 16:31	0°♁		morning max el	2600 Dec 13 09:18	4°♁20'33	46°48'09
evening rise	2598 Jun 21 16:54	11°♁04'16					
	2598 Jul 07 03:15	0°♁					
	2598 Jul 31 15:42	0°♁					
	2598 Aug 25 06:50	0°♁					
	2598 Sep 19 02:21	0°♁					
desc. node	2598 Sep 20 17:54	1°♁58'57					
	2598 Oct 14 04:29	0°♁					
	2598 Nov 08 17:39	0°♁					
	2598 Dec 05 07:08	0°♁					
evening max el	2598 Dec 19 20:37	15°♁23'49	47°16'49				
	2599 Jan 04 02:37	0°♁					