superior conj minimum elong	12101 Feb 23 23:09 12101 Feb 24 02:22	11° <b>¥</b> 52'20 12° <b>¥</b> 02'17		inferior conj minimum elong	12103 Jul 22 18:03 12103 Jul 23 05:08	9° <b>Ω</b> 48'51 9° <b>Ω</b> 31'50	6°09'45 6°06'20
behind sun begin	12101 Feb 23 14:25	11° <b>¥</b> 25′21		min. Earth dist.	12103 Jul 23 02:12	9° <b>Ω</b> 36′21	0.27028 AU
behind sun end	12101 Feb 24 14:18	12° <b>)</b> 39′12		morning rise	12103 Jul 28 04:45	6° <b>Ω</b> 34'58	
desc. node	12101 Mar 01 15:25	18° <b>¥</b> 53'45		direct	12103 Aug 12 11:01	2° <b>Ω</b> 02'25	
	12101 Mar 10 14:41	0°Υ		desc. node	12103 Aug 17 14:10	2° <b>Ω</b> 32'51	
evening rise	12101 Apr 03 13:07	29° <b>Y</b> 41′21		greatest brilliancy	12103 Aug 22 11:42	3° <b>Ω</b> 54'29	-4.9m
	12101 Apr 03 19:07 12101 Apr 27 21:50	0°¤ 8°0		morning max el	12103 Sep 27 11:50 12103 Oct 01 07:53	0° Ту 3° Ту 42'58	46°25'37
	12101 Apr 27 21:30 12101 May 22 00:00	0°©		morning max ci	12103 Oct 01 07:33 12103 Oct 26 11:26	ე° <b>ი</b>	40 2337
	12101 Jun 15 03:56	0°Ω			12103 Nov 22 02:53	0° <b>™</b>	
asc. node	12101 Jun 22 08:24	8° <b>Ω</b> 52'45		asc. node	12103 Dec 08 13:06	19°ML07'20	
	12101 Jul 09 12:51	0° <b>m</b> )			12103 Dec 17 18:22	0° <b>∡</b> ¹	
	12101 Aug 03 07:16	0∘ <b>⊽</b>			12104 Jan 11 19:59	0°ರ	
	12101 Aug 28 19:33	$0^{\circ}$ M.			12104 Feb 05 12:51	0° <b>≈</b>	
	12101 Sep 24 22:36	0° <b>∡</b> ¹			12104 Mar 01 00:04	0° <b>∀</b>	
evening max el	12101 Oct 05 23:14	11° <b>∡</b> 13′23	46°09'19		12104 Mar 25 07:10	0° <b>Υ</b>	
desc. node	12101 Oct 12 07:28	17° <b>⋌</b> 17'08		morning set	12104 Mar 28 20:11	4° <b>Y</b> ′23′25	
1 . 711	12101 Oct 27 07:50	0°る	4.0	desc. node	12104 Mar 29 05:25	4° <b>Y</b> 52'04	
greatest brilliancy	12101 Nov 14 01:08	10°る11'44	-4.8m	Darth diet	12104 Apr 18 10:38	0°8	1 71755 ATT
retrograde	12101 Nov 24 08:53 12101 Dec 12 15:34	12°る07'25 5°る50'32		max. Earth dist.	12104 May 04 10:00	19° <b>8</b> 56'30	1.71755 AU
evening set inferior conj	12101 Dec 12 13:34 12101 Dec 15 20:39	3°る50'32 3°る50'27	8032113	superior conj	12104 May 07 14:54	23° <b>8</b> 56'58	101751
minimum elong	12101 Dec 15 20:39	3°る3027	8°31'03	minimum elong	12104 May 07 14:34 12104 May 07 05:20	23° <b>8</b> 27'04	
min. Earth dist.	12101 Dec 15 21:00	3° <b>ठ</b> 49'54	0.29000 AU	minimum clong	12104 May 12 10:56	0°Ⅱ	1 1010
morning rise	12101 Dec 19 11:01	1° <b>る</b> 36'34			12104 Jun 05 09:14	0°9	
	12101 Dec 22 06:02	30°R. <b>✓</b>		evening rise	12104 Jun 16 14:41	14° <b>©</b> 04'59	
direct	12102 Jan 06 07:44	25° <b>₹</b> '36'36		C	12104 Jun 29 07:23	$0^{\circ}\Omega$	
greatest brilliancy	12102 Jan 16 17:26	27° <b>∡</b> ³35′15	-4.7m	asc. node	12104 Jul 19 21:03	25° <b>Ω</b> 43'18	
	12102 Jan 22 04:54	ರ∘ರ			12104 Jul 23 07:22	0° <b>m</b>	
asc. node	12102 Feb 02 09:20	7° <b>る</b> 03'10			12104 Aug 16 11:07	0∘ <b>亚</b>	
morning max el	12102 Feb 24 12:18	26° <b>පි</b> 20'21	45°52'08		12104 Sep 09 21:03	$0^{\circ}$ M	
	12102 Feb 28 05:02	0° <b>≈</b>			12104 Oct 04 17:21	0° <b>∡</b>	
	12102 Mar 28 04:33	0° <b>)</b> €			12104 Oct 30 07:39	0°る	
	12102 Apr 23 03:15	0° <b>Υ</b>		desc. node	12104 Nov 08 17:19	10°る41'07	
desc. node	12102 May 18 03:51 12102 May 25 06:42	0° <b>と</b> 8° <b>と</b> 39'55		evening max el	12104 Nov 26 07:51 12104 Dec 15 23:03	0° <b>≈</b> 19° <b>≈</b> 58'45	15051111
desc. Hode	12102 Jun 11 16:00	0°Ⅱ		evening max ci	12104 Dec 15 23:03	0° <b>∺</b>	43 31 14
	12102 Jul 05 20:56	0°©		greatest brilliancy	12104 Dec 20 21:43 12105 Jan 24 02:27	18° <b>¥</b> 18'47	-4 8m
	12102 Jul 29 22:27	0°N		retrograde	12105 Feb 02 20:28	20° <b>)</b> €03'25	1.0111
	12102 Aug 22 23:14	0° m)		evening set	12105 Feb 17 22:44	15° <b>¥</b> 38'32	
morning set	12102 Aug 28 08:06	6° Mp 41'56		inferior conj	12105 Feb 24 01:15	11° <b>¥</b> 59'40	-1°25'37
asc. node	12102 Sep 14 22:41	28° <b>m</b> 38'51		minimum elong	12105 Feb 24 04:27	11° <b>¥</b> 54'41	1°24'17
	12102 Sep 16 00:44	0∘ <b>亚</b>		min. Earth dist.	12105 Feb 24 12:40	11° <b>)</b> 41′52	0.28206 AU
				asc. node	12105 Mar 01 19:12	8° <b>∺</b> 31′10	
superior conj	12102 Oct 06 01:11	24° <b>≏</b> 54'36		morning rise	12105 Mar 02 09:32	8° <b>∺</b> 11'15	
minimum elong	12102 Oct 05 15:44	24° <b>£</b> 25'15	0°48'15	direct	12105 Mar 17 05:39	3° <b>)</b> 49'47	4.0
max. Earth dist.	12102 Oct 08 10:19	27° <b>£</b> 52'06 0° <b>™</b>	1.72425 AU	greatest brilliancy	12105 Mar 28 03:26 12105 Apr 30 05:47	6° <b>米</b> 01′25 0° <b>Υ</b>	-4.8m
	12102 Oct 10 03:29 12102 Nov 03 08:00	0°11L 0° <b>√</b> 1		morning max el	12105 Apr 30 05:47 12105 May 06 06:08	5° <b>Υ</b> 51'21	46°34'49
evening rise	12102 Nov 03 08:00 12102 Nov 12 07:20	0 <b>x</b> . 11° <b>x</b> 05'43		morning max er	12105 May 00 00:08 12105 May 29 00:24	0° <b>8</b>	40 34 49
evening rise	12102 Nov 27 15:17	0°る		desc. node	12105 Jun 21 19:00	27° <b>8</b> 14'41	
	12102 Dec 22 02:41	0° <b>≈</b>		desc. node	12105 Jun 24 03:14	0°II	
desc. node	12103 Jan 04 14:26	16° <b>≈</b> 25'40			12105 Jul 19 05:06	0ංම	
	12103 Jan 15 19:01	0° <b>∀</b>			12105 Aug 12 19:34	$0^{\circ}\Omega$	
	12103 Feb 09 16:37	0° <b>Υ</b>			12105 Sep 06 05:14	0° <b>m</b>	
	12103 Mar 06 20:40	$9^{\circ}$ 8			12105 Sep 30 13:05	0∘ <b>⊽</b>	
	12103 Apr 01 12:16	$\Pi^{\circ}$		asc. node	12105 Oct 12 12:39	14° <b>≏</b> 47'32	
asc. node	12103 Apr 27 12:27	29° <b>Ⅱ</b> 09'12			12105 Oct 24 20:09	0°M	
	12103 Apr 28 07:18	0.@	1601	morning set	12105 Nov 07 10:39	16°M48'36	
evening max el	12103 May 12 20:51	15°©10'03	46°44'15		12105 Nov 18 02:43	0° <b>∡</b> ¹	
grantast builli	12103 May 28 18:02	0°Ω 15°Ω47'08	4.0m		12105 Dec 12 09:25	0°ප	
greatest brilliancy retrograde	12103 Jun 22 07:16 12103 Jul 02 01:38	15° <b>Ω</b> 47'08 17° <b>Ω</b> 34'39	-4.9m	superior conj	12105 Dec 14 08:47	2° <b>る</b> 26'16	1°24'23
evening set	12103 Jul 18 05:31	17 8 03439 $12^{\circ} \Omega 31'27$		minimum elong	12105 Dec 14 08.47 12105 Dec 14 12:34	2 32010 2° <b>る</b> 37'56	
5 , oming 50t	12105 Jul 10 05.51	12 06212/			12100 200 17 12.34	2 05/30	1 22 12

max. Earth dist.	12105 Dec 15 08:08	3°₹38'21	1.73147 AU	direct	12108 May 27 18:50	15° <b>8</b> 16'18	
	12106 Jan 05 17:03	0° <b>≈</b>		greatest brilliancy	12108 Jun 06 15:04	17° <b>8</b> 06'36	-4.9m
evening rise	12106 Jan 20 13:36	18° <b>≈</b> 17'40			12108 Jun 27 14:16	$\Pi^{\circ}0$	
	12106 Jan 30 02:03	0° <b>)</b>		morning max el	12108 Jul 17 07:39	18° <b>Ⅱ</b> 09'54	46°58'10
desc. node	12106 Feb 01 03:32	2° <b>)</b> 32'01		desc. node	12108 Jul 19 06:08	20° <b>Ⅱ</b> 07'34	
	12106 Feb 23 12:08	$0^{\circ}$ $\Upsilon$			12108 Jul 28 16:47	$0$ $\circ$ $\mathfrak{S}$	
	12106 Mar 19 22:45	$9^{\circ}$ 8			12108 Aug 24 13:25	$0^{\circ}\Omega$	
	12106 Apr 13 10:25	$\Pi^{\circ}0$			12108 Sep 19 04:02	0° <b>m</b> )	
	12106 May 08 01:45	$0$ $\circ$ $\odot$			12108 Oct 14 06:09	0∘ <b>⊽</b>	
asc. node	12106 May 24 22:47	20° <b>©</b> 18'26			12108 Nov 08 01:32	$0^{\circ}$ M	
	12106 Jun 02 02:27	$0$ $^{\circ}$ $\Omega$		asc. node	12108 Nov 09 02:14	1°M15'04	
	12106 Jun 27 23:55	0° <b>™</b>			12108 Dec 02 16:08	0° <b>∡</b> ¹	
evening max el	12106 Jul 24 08:11	28° <b>Tp</b> 17'22	46°43'18		12108 Dec 27 03:09	0°ಕ	
	12106 Jul 26 01:22	0∘ <b>⊽</b>		morning set	12109 Jan 15 06:21	23° <b>る</b> 33'09	
greatest brilliancy	12106 Sep 01 14:59	28° <b>≏</b> 32'50	-4.8m		12109 Jan 20 11:54	0° <b>≈</b>	
	12106 Sep 06 04:08	0° <b>M</b>			12109 Feb 13 19:19	0° <b>∀</b>	
retrograde	12106 Sep 12 15:59	0° <b>™</b> 48'51		max. Earth dist.	12109 Feb 19 23:47	7° <b>)</b> 38′33	1.72894 AU
desc. node	12106 Sep 13 23:51	0° <b>™</b> 46'43					
	12106 Sep 18 23:25	30°Ŗ <b>Ω</b>		superior conj	12109 Feb 21 14:45	9° <b>)</b> 38′56	
evening set	12106 Sep 27 20:09	26° <b>Ω</b> 17'57		minimum elong	12109 Feb 21 18:43	9° <b>米</b> 51′10	0°17'17
min. Earth dist.	12106 Oct 02 23:26	23° <b>≏</b> 15'48	0.27855 AU	desc. node	12109 Feb 28 17:14	18° <b>¥</b> 25'56	
inferior conj	12106 Oct 03 19:32	22° <b>△</b> 44'50			12109 Mar 10 01:32	0° <b>Υ</b>	
minimum elong	12106 Oct 03 10:07	22° <b>≏</b> 59'22	4°42'33	evening rise	12109 Apr 01 03:28	27° <b>Y</b> ′22'46	
morning rise	12106 Oct 09 00:41	19° <b>≏</b> 38'14			12109 Apr 03 06:06	0.8	
direct	12106 Oct 24 19:38	14° <b>≏</b> 50'43			12109 Apr 27 09:01	$\Pi$ °0	
greatest brilliancy	12106 Nov 03 09:05	16° <b>≏</b> 30'42	-4.8m		12109 May 21 11:25	0ංම	
	12106 Nov 25 22:31	0° <b>M</b>			12109 Jun 14 15:41	$0$ ° $\Omega$	
morning max el	12106 Dec 12 18:02	14°M54'28	45°46'44	asc. node	12109 Jun 21 10:24	8° <b>Ω</b> 22'18	
	12106 Dec 27 17:49	0° <b>∡</b> ¹			12109 Jul 09 01:07	0° <b>m</b> )	
asc. node	12107 Jan 05 00:50	8° <b>∡</b> ⁴49'32			12109 Aug 02 20:25	0∘ <b>ত</b>	
	12107 Jan 24 02:29	0°る			12109 Aug 28 10:25	0° <b>M</b>	
	12107 Feb 18 22:28	0° <b>≈</b>			12109 Sep 24 17:39	0° <b>∡</b> ¹	
	12107 Mar 16 00:08	0° <b>)</b> €		evening max el	12109 Oct 03 14:10	8° <b>⋌</b> '57'49	46°10'26
	12107 Apr 09 15:01	0° <b>Υ</b>		desc. node	12109 Oct 11 09:21	16° <b>₹</b> '22'55	
desc. node	12107 Apr 26 19:20	21° <b>Y</b> ′09'46			12109 Oct 28 00:31	0°る	4.0
	12107 May 03 22:36	0° <b>X</b>		greatest brilliancy	12109 Nov 11 16:59	8° <b>ろ</b> 00'36	-4.8m
	12107 May 28 00:52	0°II		retrograde	12109 Nov 22 00:16	9° <b>る</b> 56'16	
morning set	12107 Jun 12 14:50	19° <b>Ⅲ</b> 30′08		evening set	12109 Dec 10 08:46	3°る37'55	000 (100
	12107 Jun 20 23:44	0° <b>©</b>		inferior conj	12109 Dec 13 12:43	1°る39'29	
	12107 Jul 14 21:18	$0 {\circ} \Omega$		minimum elong	12109 Dec 13 16:36	1° <b>る</b> 33'23	8°35'24
	12107 1 1 22 14 25	00 0 41120	0057147	min. Earth dist.	12109 Dec 13 12:14	1°る40'16	0.28992 AU
superior conj	12107 Jul 22 14:35	9° <b>Ω</b> 41′20			12109 Dec 16 04:24	30°₹ <b>⋌</b> ¹	
minimum elong	12107 Jul 23 02:08	10°Ω17'34		morning rise	12109 Dec 17 00:29	29° 🗷 29'23	
max. Earth dist.	12107 Jul 23 23:21	11° <b>Ω</b> 24'08	1.71462 AU	direct	12110 Jan 03 23:28	23° <b>х</b> 26'06 25° <b>х</b> 23'34	-4.7m
1-	12107 Aug 07 19:27	0°M) 12°m,02!55		greatest brilliancy	12110 Jan 14 08:25	23 x·23 34 0°る	-4. /III
asc. node	12107 Aug 17 10:33 12107 Aug 31 09:34	12° Mp 02'55 29° Mp 28'55		asc. node	12110 Jan 23 18:53 12110 Feb 01 11:16	5° <b>る</b> 55'27	
evening rise	•	0° <b>⊽</b>			12110 Feb 01 11.16 12110 Feb 22 02:29	3 33327 24° <b>る</b> 04'09	45°51'07
	12107 Aug 31 19:32 12107 Sep 24 22:38	0°M		morning max el	12110 Feb 22 02.29 12110 Feb 28 01:17	24 <b>3</b> 04 09 0° <b>≈</b>	-TJ J1 U/
	12107 Sep 24 22.38 12107 Oct 19 06:12	0° <b>/</b> 7			12110 Feb 28 01.17 12110 Mar 27 19:39	0 <b>≈</b> 0° <b>∺</b>	
	12107 Oct 19 00:12 12107 Nov 12 20:37	0 ×. 0°ਤ			12110 Mai 27 19.39 12110 Apr 22 16:26	0 K 0°Υ	
desc. node	12107 Nov 12 20.37 12107 Dec 07 04:23	0 3 29° <b>る</b> 10'16			12110 Apr 22 16:26 12110 May 17 16:08	0°8	
dese. Hode	12107 Dec 07 04:29	0°≈		desc. node	12110 May 17 10:00	8° <b>8</b> 08'51	
	12107 Dec 07 21:09	0° <b>∀</b>		dese. Hode	12110 Jun 11 03:46	0°II	
	12108 Jan 29 01:42	0° <b>Υ</b>			12110 Jul 05 08:23	0°©	
evening max el	12108 Jan 29 01.42 12108 Feb 26 13:51	29° <b>Υ</b> 51'24	46°10'26		12110 Jul 29 09:40	0° <b>U</b>	
2 . J III.A CI	12108 Feb 26 17:22	0°8	.0 1020		12110 Jul 25 05:40 12110 Aug 22 10:17	0° <b>m</b> )	
asc. node	12108 Mar 29 04:46	25° <b>8</b> 33'54		morning set	12110 Aug 25 21:38	4° Mg 20'04	
greatest brilliancy	12108 Mar 25 04:40	29° <b>8</b> 18'43	-4.8m	asc. node	12110 Aug 25 21:36 12110 Sep 14 00:25	28° m) 10'12	
o. carest offinities	12108 Apr 08 11:03	0°Π			12110 Sep 14 00:23	0° <b>⊽</b>	
retrograde	12108 Apr 16 03:04	1° <b>Ⅱ</b> 06'40			-2110 Sep 13 11.40	~ <del>_</del>	
	12108 Apr 23 12:20	30°R₩		superior conj	12110 Oct 03 16:13	22° <b>ჲ</b> 38'25	0°45'25
evening set	12108 Apr 23 12:20 12108 May 02 17:24	25° <b>8</b> 45'37		minimum elong	12110 Oct 03 10:13	22° <b>⊆</b> 10'05	0°45'16
inferior conj	12108 May 02 17:24 12108 May 06 21:03	23° <b>8</b> 14'01	8°05'32	max. Earth dist.	12110 Oct 05 07:00 12110 Oct 06 00:39	25° <b>⊆</b> 33'49	1.72388 AU
minimum elong	12108 May 06 21:03	23° <b>8</b> 28'29	8°03'31	max. Durin dist.	12110 Oct 00 00:39	0°M₁	1.,2300 AU
min. Earth dist.	12108 May 06 20:59	23° <b>8</b> 14'08	0.27513 AU		12110 Nov 02 18:50	0° <b>⊼</b> ′	
morning rise	12108 May 10 06:01	21° <b>8</b> 09'59	3.2,313110	evening rise	12110 Nov 02 18:30	8° <b>×</b> 754'24	
	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.					T	

	1011037 07 00 10	^^ <b>-</b>			10110 1 00 01 00	2001 120151	
	12110 Nov 27 02:13	0°ප		desc. node	12113 Jun 20 21:02	26° <b>8</b> 39'54	
	12110 Dec 21 13:49	0° <b>≈</b>			12113 Jun 23 16:56	$\Pi$ °0	
desc. node	12111 Jan 03 16:26	15° <b>≈</b> 57′28			12113 Jul 18 17:37	$0$ $\circ$ $\odot$	
	12111 Jan 15 06:30	0° <b>∀</b>			12113 Aug 12 07:25	$0$ $^{\circ}$ $\Omega$	
	12111 Feb 09 04:41	$0$ ° $\Upsilon$			12113 Sep 05 16:38	0° <b>m</b> y	
	12111 Mar 06 09:42	$8^{\circ}$ 0			12113 Sep 30 00:10	0∘ <b>ত</b>	
	12111 Apr 01 03:05	0°II		asc. node	12113 Oct 11 14:33	14° <b>≏</b> 19'32	
asc. node	12111 Apr 26 14:22	28° <b>I</b> I24'23		use. noue	12113 Oct 24 06:58	0°M	
asc. node	12111 Apr 28 02:06	0°95		morning set	12113 Nov 05 02:33	14°MJ36'13	
	-		46042110	morning set			
evening max el	12111 May 10 08:51	12°9542'47	46°43'18		12113 Nov 17 13:24	0°×7	
	12111 May 29 04:30	$0^{\circ}\Omega$			12113 Dec 11 20:01	0°ಕ	
greatest brilliancy	12111 Jun 19 21:25	13° <b>Ω</b> 22'35	-4.9m				
retrograde	12111 Jun 29 14:02	15° <b>Ω</b> 09'07		superior conj	12113 Dec 12 01:37	0°る17'18	1°24'58
evening set	12111 Jul 15 21:46	10° <b>Ω</b> 00'41		minimum elong	12113 Dec 12 04:41	0° <b>る</b> 26'47	1°25'49
inferior conj	12111 Jul 20 06:48	7° <b>£</b> 23′23	6°27'29	max. Earth dist.	12113 Dec 13 04:35	1° <b>る</b> 40'35	1.73136 AU
minimum elong	12111 Jul 20 18:00	7° <b>Ω</b> 06′13	6°24'09		12114 Jan 05 03:40	0° <b>≈</b>	
min. Earth dist.	12111 Jul 20 15:56	7° <b>Ω</b> 09′23	0.27039 AU	evening rise	12114 Jan 18 05:41	16° <b>≈</b> 06'39	
morning rise	12111 Jul 25 14:07	4°Ω14'09		0100000	12114 Jan 29 12:48	0° <b>∀</b>	
morning rise	12111 Aug 05 13:20	30°RS		desc. node	12114 Jan 31 05:20	2° <b>∺</b> 04'31	
1:4	-	29°936'20		uese. Houe		2 γ(0431 0° <b>γ</b>	
direct	12111 Aug 09 23:14				12114 Feb 22 23:06		
	12111 Aug 14 11:30	$0$ $\circ$ $\Omega$			12114 Mar 19 10:03	0°B	
desc. node	12111 Aug 16 16:06	0° <b>Ω</b> 27'45			12114 Apr 12 22:10	$\Pi$ °0	
greatest brilliancy	12111 Aug 20 01:19	1° <b>Ω</b> 29'40	-4.9m		12114 May 07 14:12	$0$ $\circ$ $\odot$	
	12111 Sep 27 12:20	0° <b>m</b> y		asc. node	12114 May 24 00:52	19° <b>©</b> 45'25	
morning max el	12111 Sep 28 21:18	1° <b>m</b> 20'37	46°27'22		12114 Jun 01 16:06	$0^{\circ}\Omega$	
	12111 Oct 26 04:06	0∘ <b>⊽</b>			12114 Jun 27 16:02	o∘ <b>m</b> y	
	12111 Nov 21 16:42	0° <b>M</b> .		evening max el	12114 Jul 21 23:49	26° m 01'00	46°43'58
asc. node	12111 Dec 07 15:07	18°MJ35'29		v ,	12114 Jul 26 00:32	0∘ <b>⊽</b>	
use. Houe	12111 Dec 17 06:46	0° <b>⊼</b> ¹		greatest brilliancy	12114 Aug 30 05:32	ა <b>—</b> 26° <b>ჲ</b> 14'21	-4.8m
		0° <b>ਠ</b>			•	28° <b>⊆</b> 30'34	- <del>1</del> .0111
	12112 Jan 11 07:37	0°≈		retrograde	12114 Sep 10 07:14		
	12112 Feb 05 00:03			desc. node	12114 Sep 13 01:45	28° <b>Ω</b> 21'12	
	12112 Feb 29 11:02	0° <b>∀</b>		evening set	12114 Sep 25 08:35	24° <b>≏</b> 02'57	
	12112 Mar 24 18:00	$0^{\circ}$ Y		min. Earth dist.	12114 Sep 30 13:44	20° <b>≏</b> 58'07	0.27802 AU
morning set	12112 Mar 26 10:13	2° <b>Ƴ</b> 04'37		inferior conj	12114 Oct 01 09:45	20° <b>≏</b> 27'17	-4°26'18
desc. node	12112 Mar 28 07:15	4° <b>Υ</b> 24'11		minimum elong	12114 Oct 01 00:44	20° <b>₽</b> 41'10	4°23'38
	12112 Apr 17 21:25	$_{0\circ}$ 8		morning rise	12114 Oct 06 17:37	17° <b>≏</b> 17'12	
max. Earth dist.	12112 May 01 23:48	17° <b>8</b> 35'52	1.71794 AU	direct	12114 Oct 22 10:05	12° <b>₽</b> 34'02	
	•			greatest brilliancy	12114 Oct 31 22:26	14° <b>₽</b> 13'31	-4.8m
superior conj	12112 May 05 03:35	21° <b>8</b> 32'44	-1°16'02	8	12114 Nov 26 07:21	0° <b>M</b>	
minimum elong	12112 May 04 17:30	21° <b>8</b> 01'13		morning max el	12114 Dec 10 08:53	12°M40'40	45°47'23
minimum ciong	•	0° <b>Ⅱ</b>	1 10 24	morning max ci	12114 Dec 10 08:33	0° <b>√</b>	43 47 23
	12112 May 11 21:44			1			
	12112 Jun 04 20:07	0°©		asc. node	12115 Jan 04 02:46	8° <b>∡</b> 10'37	
evening rise	12112 Jun 14 02:12	11° <b>©</b> 36'22			12115 Jan 23 16:31	0°ප	
	12112 Jun 28 18:24	$0$ $^{\circ}\Omega$			12115 Feb 18 10:54	0° <b>≈</b>	
asc. node	12112 Jul 18 22:56	25° <b>Ω</b> 14′28			12115 Mar 15 11:45	0° <b>ℋ</b>	
	12112 Jul 22 18:32	0° <b>m</b> y			12115 Apr 09 02:12	$0$ ° $\Upsilon$	
	12112 Aug 15 22:31	0∘ <b>⊽</b>		desc. node	12115 Apr 25 21:13	20° <b>Ƴ</b> 41'32	
	12112 Sep 09 08:51	0° <b>M</b> .			12115 May 03 09:32	$9^{\circ}$ 8	
	12112 Oct 04 05:52	0° <b>∡</b> ¹			12115 May 27 11:40	$\Pi^{\circ}$	
	12112 Oct 29 21:37	0°ರ		morning set	12115 Jun 10 02:25	17° <b>Ⅲ</b> 02'28	
desc. node	12112 Nov 07 19:22	10° <b>ට</b> 05'26		8 2 2 2	12115 Jun 20 10:25	0ಂತಾ	
dese. Hode	12112 Nov 26 01:09	0°≈			12115 Jul 14 07:54	0° <b>Ω</b>	
avanina may al		0 ∞ 17°≈45'55	45051122		12113 Jul 14 07.34	0 86	
evening max el	12112 Dec 13 14:08		45°51'23		10115 1 1 00 00 47	70 O 1 514 5	1000127
	12112 Dec 27 03:18	0° <b>)</b>		superior conj	12115 Jul 20 02:47	7° <b>Ω</b> 15'45	
greatest brilliancy	12113 Jan 21 16:47	16° <b>)</b> 04′27	-4.8m	minimum elong	12115 Jul 20 14:28	7° <b>Ω</b> 52′23	
retrograde	12113 Jan 31 11:54	17° <b>)</b> 49′49		max. Earth dist.	12115 Jul 21 11:38		1.71441 AU
evening set	12113 Feb 15 15:27	13° <b>¥</b> 22′12			12115 Aug 07 06:01	0° <b>™</b>	
inferior conj	12113 Feb 21 16:28	9° <b>)</b> 45′20		asc. node	12115 Aug 16 12:19	11° <b>m</b> 35'20	
minimum elong	12113 Feb 21 20:26	9° <b>∺</b> 39'08	1°45'15	evening rise	12115 Aug 28 23:28	27° <b>m</b> 09'30	
min. Earth dist.	12113 Feb 22 04:06	9° <b>∺</b> 27'12	0.28241 AU		12115 Aug 31 06:09	0∘ <b>⊽</b>	
morning rise	12113 Feb 28 00:52	5° <b>)</b> 57′04			12115 Sep 24 09:21	0° <b>M</b>	
asc. node	12113 Feb 28 21:08	5° <b>)</b> 29'49			12115 Oct 18 17:08	0° <b>×</b> 7⊓	
direct	12113 Mar 14 21:30	1° <b>X</b> 35'00			12115 Nov 12 07:57	0°ਰ	
		3° <b>¥</b> 47′20	-4.8m	desc. node		28°る40'30	
greatest brilliancy	12113 Mar 25 19:28		- <del>1</del> .0111	uese. Houe	12115 Dec 06 06:20		
	12113 Apr 30 05:40	0°Υ 2° <b>0</b> 27110	46022125		12115 Dec 07 09:10	0° <b>≈</b>	
morning max el	12113 May 03 22:09	3° <b>Y</b> 37'18	46°33'25		12116 Jan 02 01:23	0° <b>)</b> €	
	12113 May 28 16:38	$9^{\circ}$ 8			12116 Jan 28 17:38	0° <b>Ƴ</b>	

evening max el	12116 Feb 24 03:59	27° <b>Ƴ</b> 33'23	46°09'14	morning set	12118 Aug 23 11:14	1° <b>m</b> 59'31	
evening man er	12116 Feb 26 16:36	0°8		asc. node	12118 Sep 13 02:20	27° m/43'24	
asc. node	12116 Mar 28 06:46	24° <b>8</b> 03'05			12118 Sep 14 22:10	0∘ <b>⊽</b>	
greatest brilliancy	12116 Apr 03 20:18	26° <b>8</b> 57'49	-4.8m		r		
retrograde	12116 Apr 13 15:57	28° <b>8</b> 45'11		superior conj	12118 Oct 01 07:26	20° <b>≏</b> 24'08	0°42'24
evening set	12116 Apr 30 02:42	23° <b>8</b> 30'36		minimum elong	12118 Sep 30 22:42	19° <b>≏</b> 56'58	0°42'13
inferior conj	12116 May 04 10:40	20° <b>8</b> 52'31	7°53'54	max. Earth dist.	12118 Oct 03 14:15	23° <b>₽</b> 14'33	1.72349 AU
minimum elong	12116 May 04 00:52	21° <b>8</b> 07'44	7°51'43		12118 Oct 09 00:44	$0^{\circ}$ M	
min. Earth dist.	12116 May 04 10:34	20° <b>8</b> 52'41	0.27524 AU		12118 Nov 02 05:13	0° <b>∡</b> ¹	
morning rise	12116 May 07 22:58	18° <b>8</b> 43'13		evening rise	12118 Nov 07 16:22	6° <b>∡¹</b> 45'28	
direct	12116 May 25 08:30	12° <b>8</b> 54'35			12118 Nov 26 12:43	ರ∘ರ	
greatest brilliancy	12116 Jun 04 05:27	14° <b>8</b> 45'03	-4.9m		12118 Dec 21 00:34	0° <b>≈</b>	
	12116 Jun 28 00:26	$\Pi$ °0		desc. node	12119 Jan 02 18:16	15° <b>≈</b> 29'52	
morning max el	12116 Jul 14 20:15	15° <b>Ⅱ</b> 44'57	46°58'25		12119 Jan 14 17:41	0° <b>∀</b>	
desc. node	12116 Jul 18 07:58	19° <b>Ⅱ</b> 17'57			12119 Feb 08 16:31	0° <b>Ƴ</b>	
	12116 Jul 28 11:18	0ංම			12119 Mar 05 22:34	0°B	
	12116 Aug 24 03:59	$0^{\circ}\Omega$			12119 Mar 31 17:50	0°П	
	12116 Sep 18 16:49	0° <b>m</b> )		asc. node	12119 Apr 25 16:28	27° <b>Ⅱ</b> 40′18	
	12116 Oct 13 17:57	0∘ <b>⊽</b>			12119 Apr 27 21:08	0°9	
	12116 Nov 07 12:43	0°M		evening max el	12119 May 07 21:15	10°©17'35	46°42'34
asc. node	12116 Nov 08 04:13	0° <b>M</b> 47'05			12119 May 29 18:00	0°N	
	12116 Dec 02 02:56	0° <b>∡</b> ¹		greatest brilliancy	12119 Jun 17 10:53	10° <b>Ω</b> 58'26	-4.9m
	12116 Dec 26 13:44	0°る		retrograde	12119 Jun 27 03:02	12° <b>Ω</b> 44'53	
morning set	12117 Jan 12 23:17	21° <b>る</b> 25'10		evening set	12119 Jul 13 14:06	7° <b>Ω</b> 30'51	6044121
	12117 Jan 19 22:22	0° <b>≈</b>		inferior conj	12119 Jul 17 19:33	4° <b>Ω</b> 58'54	
Fauth diat	12117 Feb 13 05:46	0° <b>)</b> {	1 72022 AII	minimum elong	12119 Jul 18 06:46	4° <b>Ω</b> 41'45	6°41'17
max. Earth dist.	12117 Feb 17 15:16	5° <b>∺</b> 25'49	1.72922 AU	min. Earth dist.	12119 Jul 18 05:12	4° <b>Ω</b> 44'08	0.27049 AU
aumorior aoni	12117 Feb 19 06:06	7° <b>¥</b> 25'48	0°20'30	morning rise	12119 Jul 22 23:19	1° <b>Ω</b> 54'51 30°Rூ	
superior conj minimum elong	12117 Feb 19 00:00 12117 Feb 19 10:47	7° <b>∺</b> 40'14	0°20'40	direct	12119 Jul 26 16:40 12119 Aug 07 11:51	30 k≌ 27°©11'16	
desc. node	12117 Feb 19 10.47 12117 Feb 27 19:02	17° <b>)</b> 59'04	0 20 40	desc. node	12119 Aug 07 11:31 12119 Aug 15 18:07	28°\$28'46	
desc. node	12117 Feb 27 19:02 12117 Mar 09 12:03	17 <b>γ</b> (3904		greatest brilliancy	12119 Aug 13 18:07 12119 Aug 17 14:24	28 \$28 40 29°\$05'26	-4.9m
evening rise	12117 Mar 09 12:03	25° <b>Υ</b> '04'52		greatest offinality	12119 Aug 17 14:24 12119 Aug 19 21:46	0°Ω	-4.9111
evening rise	12117 Mar 25 17:35 12117 Apr 02 16:44	0°8		morning max el	12119 Sep 26 11:44	29° <b>Ω</b> 01'51	46°29'08
	12117 Apr 02 10:44 12117 Apr 26 19:49	0°II		morning max er	12119 Sep 27 11:17	0° m)	40 27 00
	12117 May 20 22:27	0°©			12119 Oct 25 20:02	0∘ <del>⊽</del>	
	12117 Jun 14 03:04	0°N			12119 Nov 21 05:59	0° <b>M</b>	
asc. node	12117 Jun 20 12:16	7° <b>£</b> 52'39		asc. node	12119 Dec 06 17:01	18° <b>M</b> .04'36	
	12117 Jul 08 13:02	0° m)			12119 Dec 16 18:43	0° <b>∡</b> ⊓	
	12117 Aug 02 09:12	0∘ <u>⊽</u>			12120 Jan 10 18:51	ರ°0	
	12117 Aug 28 00:54	0° <b>M</b> .			12120 Feb 04 10:55	0° <b>≈</b>	
	12117 Sep 24 12:35	0° <b>∡</b> ¹			12120 Feb 28 21:42	0° <b>∀</b>	
evening max el	12117 Oct 01 04:09	6° <b>∡</b> ¹41'30	46°11'32	morning set	12120 Mar 24 00:09	29° <b>)</b> 46′11	
desc. node	12117 Oct 10 11:25	15° <b>∡</b> ¹29'37			12120 Mar 24 04:36	$0^{\circ}$ Y	
	12117 Oct 28 22:04	0°ಕ		desc. node	12120 Mar 27 09:13	3° <b>Y</b> ′57'23	
greatest brilliancy	12117 Nov 09 08:30	5° <b>る</b> 50'30	-4.8m		12120 Apr 17 08:01	$0^{\circ}$ 8	
retrograde	12117 Nov 19 15:47	7° <b>る</b> 46'44		max. Earth dist.	12120 Apr 29 13:07	15° <b>8</b> 14'18	1.71832 AU
evening set	12117 Dec 08 01:34	1° <b>る</b> 27'06					
	12117 Dec 10 09:40	30°Ŗ <b>⋌</b> 7		superior conj	12120 May 02 15:52	19° <b>8</b> 07'50	
inferior conj	12117 Dec 11 04:49	29° <b>∡</b> ¹29'53		minimum elong	12120 May 02 05:22	18° <b>8</b> 35'02	1°14'23
minimum elong	12117 Dec 11 07:55		8°38'55		12120 May 11 08:22	$\Pi$ °0	
min. Earth dist.	12117 Dec 11 03:32	29° <b>∡</b> ³31'54	0.28991 AU		12120 Jun 04 06:49	0ಂತಾ	
morning rise	12117 Dec 14 14:17	27° <b>∡</b> ¹23'14		evening rise	12120 Jun 11 13:23	9° <b>5</b> 07'24	
direct	12118 Jan 01 14:56	21° <b>х</b> 16'40			12120 Jun 28 05:11	0°N	
greatest brilliancy	12118 Jan 12 00:02	23° <b>∡</b> 13'45	-4.7m	asc. node	12120 Jul 18 00:44	24° <b>Ω</b> 46'07	
,	12118 Jan 24 20:46	0°る			12120 Jul 22 05:28	0° m)	
asc. node	12118 Jan 31 13:12	4°る50'26	15050100		12120 Aug 15 09:41	0° <b>Մ</b>	
morning max el	12118 Feb 19 16:56 12118 Feb 27 20:35	21°る49'30 0°≈	45°50'08		12120 Sep 08 20:26 12120 Oct 03 18:13	0°11∟ 0° <i>⊼</i> 1	
	12118 Feb 27 20:35 12118 Mar 27 10:14	0° <b>∺</b>			12120 Oct 03 18:13 12120 Oct 29 11:27	0°Z'	
	12118 Mar 27 10:14 12118 Apr 22 05:12	0° <b>Υ</b>		desc. node	12120 Oct 29 11:27 12120 Nov 06 21:24	0° <b>る</b> 30'15	
	12118 Apr 22 03.12 12118 May 17 03:59	0°8		dese. Houc	12120 Nov 06 21:24 12120 Nov 25 18:29	9° <b>≈</b>	
desc. node	12118 May 17 03:39 12118 May 23 10:38	7° <b>8</b> 39'14		evening max el	12120 Nov 23 18:29 12120 Dec 11 05:58	0 ∞ 15°≈35'55	45°51'33
3000. 11000	12118 Jun 10 15:06	0°П		J. J	12120 Dec 11 05:38 12120 Dec 27 10:41	0° <b>∺</b>	0100
	12118 Jul 04 19:24	0°©		greatest brilliancy	12121 Jan 19 07:08	13° <b>¥</b> 51′28	-4.8m
	12118 Jul 28 20:29	0° <b>Ω</b>		retrograde	12121 Jan 29 03:22	15° <b>)</b> 37'19	
	12118 Aug 21 20:56	0° m)		evening set	12121 Feb 13 08:27	11° <b>)</b> (07'04	
		•		<i>G</i> =			

inferior conj	12121 Feb 19 07:47	7° <b>₩</b> 32'05	-2°07'40	max. Earth dist.	12123 Jul 18 19:45	6° <b>Ω</b> 19'40	1.71423 AU
minimum elong	12121 Feb 19 12:29	7° <b>)</b> 24'45	2°05'51		12123 Aug 06 16:51	0° <b>m</b>	
min. Earth dist.	12121 Feb 19 19:21	7° <b>)</b> 14′02	0.28281 AU	asc. node	12123 Aug 15 14:15	11° <b>m</b> 07'31	
morning rise	12121 Feb 25 16:05	3° <b>)</b> (44′08		evening rise	12123 Aug 26 12:43	24° <b>m</b> 47'14	
asc. node	12121 Feb 27 23:10	2° <b>)</b> 32′48			12123 Aug 30 17:00	0∘ <b>ত</b>	
	12121 Mar 06 23:12	30°R <b>≈</b>			12123 Sep 23 20:18	$0^{\circ}$ M	
direct	12121 Mar 12 13:48	29° <b>≈</b> 21′29			12123 Oct 18 04:16	0° <b>∡</b> ¹	
	12121 Mar 18 07:55	0° <b>∀</b>			12123 Nov 11 19:29	0°ප	
greatest brilliancy	12121 Mar 23 11:01	1° <b>)</b> 33′30	-4.8m	desc. node	12123 Dec 05 08:12	28° <b>る</b> 09'50	
	12121 Apr 30 04:24	$0^{\circ}$ Y			12123 Dec 06 21:26	0° <b>≈</b>	
morning max el	12121 May 01 14:06	1° <b>Y</b> 23'27	46°31'43		12124 Jan 01 15:00	0° <b>)</b>	
	12121 May 28 08:34	$0^{\circ}S$			12124 Jan 28 10:01	$0$ ° $\mathbf{\gamma}$	
desc. node	12121 Jun 19 22:52	26° <b>8</b> 04'43		evening max el	12124 Feb 21 17:34	25° <b>Y</b> 13′55	46°08'08
	12121 Jun 23 06:31	$\Pi$ $^{\circ}$ 0			12124 Feb 26 17:02	0°8	
	12121 Jul 18 06:02	0ංම		asc. node	12124 Mar 27 08:50	22° <b>8</b> 29'10	
	12121 Aug 11 19:09	$0$ $\circ$ $\Omega$		greatest brilliancy	12124 Apr 01 10:13	24° <b>8</b> 37'40	-4.8m
	12121 Sep 05 03:53	0° <b>m</b> )		retrograde	12124 Apr 11 05:00	26° <b>8</b> 24'33	
	12121 Sep 29 11:05	0∘ <b>⊽</b>		evening set	12124 Apr 27 12:24	21° <b>8</b> 15'55	
asc. node	12121 Oct 10 16:27	13° <b>≙</b> 52'01		inferior conj	12124 May 02 00:36	18° <b>8</b> 31'44	7°41'33
	12121 Oct 23 17:40	0° <b>M</b>		minimum elong	12124 May 01 14:25	18° <b>8</b> 47'34	7°39'11
morning set	12121 Nov 02 18:36	12°M24'39		min. Earth dist.	12124 May 02 00:39	18° <b>8</b> 31'40	0.27540 AU
	12121 Nov 16 23:57	0° <b>∡</b> ¹		morning rise	12124 May 05 16:19	16° <b>8</b> 17'10	
				direct	12124 May 22 22:04	10° <b>8</b> 33'19	
superior conj	12121 Dec 09 18:46	28° <b>₹</b> 09'36		greatest brilliancy	12124 Jun 01 20:33	12° <b>8</b> 24'39	-4.9m
minimum elong	12121 Dec 09 21:07	28° <b>∡</b> 16'53			12124 Jun 28 07:59	0°II	
max. Earth dist.	12121 Dec 11 01:09	29° <b>∡</b> ¹43'26	1.73120 AU	morning max el	12124 Jul 12 08:55	13° <b>Ⅱ</b> 19'26	46°58'22
	12121 Dec 11 06:31	0° <b>ප</b>		desc. node	12124 Jul 17 10:01	18° <b>Ⅱ</b> 29'00	
	12122 Jan 04 14:11	0°≈			12124 Jul 28 05:37	0°©	
evening rise	12122 Jan 15 22:07	13°≈57'02			12124 Aug 23 18:44	0°O	
	12122 Jan 28 23:26	0° <b>\</b>			12124 Sep 18 05:56	0° Mp	
desc. node	12122 Jan 30 07:12	1° <b>¥</b> 37'33 0° <b>Ƴ</b>			12124 Oct 13 06:06	0° <b>™</b> 17144	
	12122 Feb 22 09:58	0°8		asc. node	12124 Nov 07 06:04	0° <b>ጤ</b> 17'44 0° <b>ጤ</b>	
	12122 Mar 18 21:18	0°II			12124 Nov 07 00:14 12124 Dec 01 14:02	0° <b>∡</b> 7	
	12122 Apr 12 09:57 12122 May 07 02:47	0ಂಣ ೧ π			12124 Dec 01 14.02 12124 Dec 26 00:34	0°중	
asc. node	12122 May 07 02.47 12122 May 23 02:43	19° <b>©</b> 11'13		morning set	12124 Dec 20 00:34 12125 Jan 10 16:18	0 3 19° <b>る</b> 16'34	
asc. node	12122 Jun 01 06:00	0° <b>Ω</b>		morning set	12125 Jan 19 09:06	0°≈	
	12122 Jun 27 08:37	0° <b>m</b> )			12125 Feb 12 16:30	0° <b>∀</b>	
evening max el	12122 Jul 19 15:18	23° <b>m</b> ) 43'39	46°44'43	max. Earth dist.	12125 Feb 15 08:28		1.72949 AU
evening max or	12122 Jul 26 01:01	0ಂ <del>ರ</del>	10 11 15	max. Earth dist.	12123100 13 00.20	3 7(1732	1.72717110
greatest brilliancy	12122 Aug 27 20:46	23° <b>£</b> 56'13	-4.8m	superior conj	12125 Feb 16 21:47	5° <b>)</b> 12'47	0°23'50
retrograde	12122 Sep 07 22:05	26° <b>£</b> 11'42		minimum elong	12125 Feb 17 03:09	5° <b>)</b> 29'22	0°24'01
desc. node	12122 Sep 12 03:51	25° <b>£</b> 49'49		desc. node	12125 Feb 26 21:02	17° <b>)</b> 32′00	
evening set	12122 Sep 22 21:14	21° <b>≙</b> 47'23			12125 Mar 08 22:51	$0^{\circ}\mathbf{\Upsilon}$	
min. Earth dist.	12122 Sep 28 04:16	18° <b>≏</b> 39'43	0.27743 AU	evening rise	12125 Mar 27 08:20	22° <b>Ƴ</b> 47'46	
inferior conj	12122 Sep 28 23:57	18° <b>≏</b> 09'25	-4°06'52		12125 Apr 02 03:39	$9^{\circ}$ 8	
minimum elong	12122 Sep 28 15:25	18° <b>≏</b> 22'34	4°04'17		12125 Apr 26 06:53	$\Pi^{\circ}0$	
morning rise	12122 Oct 04 10:22	14° <b>≙</b> 55'49			12125 May 20 09:46	0ಂತಾ	
direct	12122 Oct 20 00:26	10° <b>≙</b> 17'09			12125 Jun 13 14:45	$0^{\circ}\Omega$	
greatest brilliancy	12122 Oct 29 11:50	11° <b>≏</b> 56′00	-4.8m	asc. node	12125 Jun 19 14:09	7° <b>Ω</b> 22'08	
	12122 Nov 26 13:41	0° <b>M</b>			12125 Jul 08 01:18	0° <b>m</b>	
morning max el	12122 Dec 07 22:52	10°M24'39	45°48'09		12125 Aug 01 22:28	0∘ <b>⊽</b>	
	12122 Dec 27 05:01	0° <b>∡</b> ¹			12125 Aug 27 16:05	$0^{\circ}$ M	
asc. node	12123 Jan 03 04:38	7° <b>∡</b> ³31'50			12125 Sep 24 08:44	0°⊀	
	12123 Jan 23 06:25	0°ಕ		evening max el	12125 Sep 28 18:08	4° <b>≮</b> 23'31	46°12'44
	12123 Feb 17 23:16	0° <b>≈</b>		desc. node	12125 Oct 09 13:27	14° <b>∡</b> ³33′23	
	12123 Mar 14 23:20	0° <b>∀</b>			12125 Oct 30 05:20	0°₹	
	12123 Apr 08 13:24	0° <b>Υ</b>		greatest brilliancy	12125 Nov 06 23:33	3°₹38′08	-4.8m
desc. node	12123 Apr 24 23:10	20° <b>Y</b> 13′22		retrograde	12125 Nov 17 07:39	5°る35'37	
	12123 May 02 20:32	0° <b>8</b>			12125 Dec 04 11:59	30°₽ <b>⋌</b>	
	12123 May 26 22:34	$0^{\circ}\Pi$		evening set	12125 Dec 05 17:59	29° <b>∡</b> 14'59 −	
morning set	12123 Jun 07 13:47	14° <b>Ⅱ</b> 33'40		inferior conj	12125 Dec 08 20:47	27° <b>х</b> 18′39	
	12123 Jun 19 21:17	0°©		minimum elong	12125 Dec 08 23:06	27° <b>∡</b> 15′00	8°41'43
	12123 Jul 13 18:44	$0$ $^{\circ}$ $\Omega$		min. Earth dist.	12125 Dec 08 18:33	27° <b>₹</b> 22'10	0.28983 AU
					101077	0.50	
	10100 7 1 15 110	40.040.00	1002122	morning rise	12125 Dec 12 04:16	25° ₹ 15'11	
superior conj minimum elong	12123 Jul 17 14:34 12123 Jul 18 02:17	4°Ω48'09 5°Ω24'53		morning rise direct greatest brilliancy	12125 Dec 12 04:16 12125 Dec 30 06:13 12126 Jan 09 15:28	25° ₹ 15'11 19° ₹ 05'36 21° ₹ 02'35	4.7

	12126 I 25 16:14	ე∘ჳ			12120 I1 21 17.42	00 <b>m</b>	
1-	12126 Jan 25 16:14				12128 Jul 21 16:42	0ം <b>ट</b> 0ംൂൂ	
asc. node	12126 Jan 30 15:18	3°る46'17	45040115		12128 Aug 14 21:09		
morning max el	12126 Feb 17 08:01	19° <b>る</b> 35'23	45°49'17		12128 Sep 08 08:20	0° <b>M</b> ○○ <b>T</b>	
	12126 Feb 27 15:42	0° <b>≈</b>			12128 Oct 03 06:55	0° <b>∡</b> ¹	
	12126 Mar 27 00:58	0° <b>∀</b>			12128 Oct 29 01:46	0°ಕ	
	12126 Apr 21 18:12	0° <b>Υ</b>		desc. node	12128 Nov 05 23:14	8° <b>ප</b> 53'11	
	12126 May 16 16:06	$0^{\circ}$ 8			12128 Nov 25 12:41	0° <b>≈</b>	
desc. node	12126 May 22 12:25	7° <b>8</b> 08'06		evening max el	12128 Dec 08 22:02	13° <b>≈</b> 25'14	45°51'35
	12126 Jun 10 02:42	$\Pi$ $\circ$ 0			12128 Dec 27 21:33	0° <b>ℋ</b>	
	12126 Jul 04 06:41	0ංම		greatest brilliancy	12129 Jan 16 22:09	11° <b>∺</b> 38′03	-4.8m
	12126 Jul 28 07:34	$0^{\circ}\Omega$		retrograde	12129 Jan 26 18:32	13° <b>¥</b> 23'31	
morning set	12126 Aug 21 00:53	29° <b>Ω</b> 38′04		evening set	12129 Feb 11 01:37	8° <b>升</b> 50'48	
	12126 Aug 21 07:54	0° <b>m</b> )		inferior conj	12129 Feb 16 23:07	5° <b>升</b> 17'53	-2°28'21
asc. node	12126 Sep 12 04:15	27° <b>m</b> 15'31		minimum elong	12129 Feb 17 04:31	5° <b>₩</b> 09'26	2°26'18
	12126 Sep 14 09:03	0∘ <b>ত</b>		min. Earth dist.	12129 Feb 17 10:47	4° <b>¥</b> 59'37	0.28317 AU
	•			morning rise	12129 Feb 23 07:03	1° <b>₩</b> 30'17	
superior conj	12126 Sep 28 22:26	18° <b>≏</b> 07'48	0°39'17	•	12129 Feb 26 06:07	30° <b>R</b> ≈	
minimum elong	12126 Sep 28 14:07	17° <b>≏</b> 41'57	0°39'05	asc. node	12129 Feb 27 01:10	29° <b>≈</b> 38'29	
max. Earth dist.	12126 Oct 01 03:31	20° <b>£</b> 52'54	1.72317 AU	direct	12129 Mar 10 05:56	27°≈07'11	
man. Darun dige.	12126 Oct 08 11:34	0°M	1.,201,110	greatest brilliancy	12129 Mar 21 02:23	29°≈18'29	-4.8m
	12126 Nov 01 16:03	0° <b>⊼</b> ¹		greatest offinalley	12129 Mar 22 18:59	0° <b>\</b>	1.0111
evening rise	12126 Nov 05 08:47	4° <b>∡</b> 734'21		morning max el	12129 Apr 29 05:11	29° <b>₩</b> 06'45	46°30'01
evening rise	12126 Nov 25 23:39	0°る		morning max ci	-	29 <b>γ</b> (00 43	40 3001
		0°≈			12129 Apr 30 02:31	0°8	
	12126 Dec 20 11:45			1 1	12129 May 28 00:28		
desc. node	12127 Jan 01 20:10	15°≈01'12		desc. node	12129 Jun 19 00:51	25° <b>8</b> 29'29	
	12127 Jan 14 05:16	0° <b>∀</b>			12129 Jun 22 20:12	0°II	
	12127 Feb 08 04:46	0° <b>Υ</b>			12129 Jul 17 18:37	0°9	
	12127 Mar 05 11:54	0°₽			12129 Aug 11 07:03	$0^{\circ}\Omega$	
	12127 Mar 31 09:09	$\Pi$ °0			12129 Sep 04 15:19	0° <b>m</b>	
asc. node	12127 Apr 24 18:23	26° <b>Ⅱ</b> 54'04			12129 Sep 28 22:10	0∘ <b>⊽</b>	
	12127 Apr 27 17:06	0		asc. node	12129 Oct 09 18:15	13° <b>≏</b> 23'38	
evening max el	12127 May 05 10:50	7° <b>©</b> 54'35	46°41'53		12129 Oct 23 04:31	0° <b>M</b> ₊	
	12127 May 30 12:34	$0$ $\circ$ $\Omega$		morning set	12129 Oct 31 10:51	10° <b>M</b> ₊13'09	
greatest brilliancy	12127 Jun 15 00:03	8° <b>£</b> 33′35	-4.9m		12129 Nov 16 10:41	0° <b>∡</b> ¹	
retrograde	12127 Jun 24 16:41	10° <b>Ω</b> 20′20					
evening set	12127 Jul 11 06:40	5° <b>Ω</b> 00'45		superior conj	12129 Dec 07 12:01	26° <b>₮</b> 01'38	1°25'48
inferior conj	12127 Jul 15 08:29	2° <b>₽</b> 34'04	7°00'42	minimum elong	12129 Dec 07 13:38	26° <b>х</b> ¹06'37	1°26'38
minimum elong				minimum ciong	12129 DCC 07 13.36	20 × 0037	1 20 30
: E 4 E 4	12127 Jul 15 19:38	2° <b>Ω</b> 17'01	6°57'35	max. Earth dist.	12129 Dec 07 13:38 12129 Dec 08 20:43	27° <b>х</b> 42'35	1.73107 AU
min. Earth dist.	12127 Jul 15 19:38 12127 Jul 15 18:12	2° <b>Ω</b> 17'01 2° <b>Ω</b> 19'13		_			
min. Earth dist.			6°57'35	_	12129 Dec 08 20:43	27° <b>∡</b> ¹42'35	
	12127 Jul 15 18:12	2° <b>Ω</b> 19′13	6°57'35	_	12129 Dec 08 20:43 12129 Dec 10 17:13	27° <b>メ</b> 42'35 0° <b>る</b>	
morning rise	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32	2°\$\Omega\$19'13 30°\$\$ 29°\$\S\$35'30	6°57'35	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26	27° <b>メ</b> 42'35 0° <b>ठ</b> 0°≈ 11°≈46'17	
morning rise direct	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11	2°\Omega19'13 30°\S 29°\S35'30 24°\S46'06	6°57'35	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20	27° ₹42'35 0° ₹ 0° ≈ 11° ≈ 46'17 0° ¥	
morning rise direct desc. node	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09	2° \( \Omega\) 19'13 30° rs 29° \( \Omega\) 5'30 24° \( \Omega\) 46'06 26° \( \Omega\) 34'09	6°57'35 0.27060 AU	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11	27° ₹42'35 0° ₹ 0° ≈ 11° ≈46'17 0° ¥ 1° ¥10'09	
morning rise direct	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56	2° <b>\Omega</b> 19'13 30° RS 29° \Sista 35'30 24° \Sista 46'06 26° \Sista 34'09 26° \Sista 40'12	6°57'35	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07	27° ₹42'35 0° ₹ 0° ≈ 11° ≈46'17 0° ¥ 1° ¥10'09 0° Υ	
morning rise direct desc. node greatest brilliancy	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02	2°\Pi19'13 30°\Pi 29°\Si35'30 24°\Si46'06 26°\Si34'09 26°\Si40'12 0°\Pi	6°57'35 0.27060 AU -4.9m	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48	27° ₹42'35 0° ₹ 0° ≈ 11° ≈ 46'17 0° 升 1° 升10'09 0° Υ 0° Υ	
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morning rise direct desc. node greatest brilliancy	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01	2°Ω19'13 30°RS 29°S35'30 24°S46'06 26°S34'09 26°S40'12 0°Ω 26°Ω43'34 0°M 0°Ω	6°57'35 0.27060 AU -4.9m	max. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 Apr 11 21:58 12130 May 06 15:36 12130 May 22 04:39	27° ₹42'35 0° ₹ 0° ≈ 11° ≈46'17 0° ¥ 1° ¥10'09 0° Υ 0° \$ 0° \$ 18° \$36'32	
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morning rise direct desc. node greatest brilliancy morning max el	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03	2°\$\Omega 19'13 30°\$\P\$ 29°\$\Text{\$35'30} 24°\$\Text{\$46'06} 26°\$\Text{\$34'09} 26°\$\Text{\$40'12} 0°\$\Omega\$ 26°\$\Omega 43'34 0°\$\Omega\$ 0°\$\Omega\$ 17°\$\Omega 32'23 0°\$\ne\$	6°57'35 0.27060 AU -4.9m	max. Earth dist.  evening rise  desc. node	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 11 21:58 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥10'09 0° Y 0° \$ 0° \$ 18° \$36'32 0° \$ 0° \$ 0° \$ 18° \$36'32	
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morning rise direct desc. node greatest brilliancy morning max el	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09	2°\$\Pi\13\] 30°\$\Pi\2000 29°\Pi\35'\30\] 24°\Pi\46'\06\] 26°\Pi\40'\12\] 0°\$\Pi\ 26°\Pi\43'\34\] 0°\$\Pi\ 0°\$\Pi\ 17°\$\Pi\32'\23\] 0°\$\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\ 0°\Pi\	6°57'35 0.27060 AU -4.9m	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥10'09 0° Y 0° \$ 0° II 0° \$ 18° \$36'32 0° \$ 0° \$ 21° \$\mathbb{m}\text{23'36} 0° \$ 21° \$\mathbb{\text{23}}\text{23'36} 0° \$ 21° \$\mathbb{\text{23}}\text{23'36}	1.73107 AU
morning rise direct desc. node greatest brilliancy morning max el asc. node	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43	2° Ω19'13 30° № 29° © 35'30 24° © 46'06 26° © 34'09 26° © 40'12 0° Ω 26° Ω 43'34 0° M 0° Ω 17° M 32'23 0° ✓ 0° ♂ 0° ⋈ 0° ↔	6°57'35 0.27060 AU -4.9m	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥10'09 0° Y 0° ¥ 0° II 0° \$ 18° \$36'32 0° \$ 0° \$ 21° \$\mathbb{m}\text{23'36} 0° \$ 21° \$\mathbb{\text{23}}\text{311} 23° \$\mathbb{\text{23}}\text{21'29}	1.73107 AU 46°45'18
morning rise direct desc. node greatest brilliancy morning max el	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13	2° Ω19'13 30° № 29° ℱ35'30 24° ℱ46'06 26° ℱ34'09 26° ℱ40'12 0° Ω 26° Ω43'34 0° ♍ 0° № 17° № 32'23 0° ♐ 0° ♂ 0° ❤ 0° ★ 27° ¥ 27'21	6°57'35 0.27060 AU -4.9m	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 06 15:36 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50	27° ₹42'35 0° ₹ 0° ₹ 11° ≈ 46'17 0° ₩ 1° ₩ 10'09 0° Ψ 0° ₩ 0° \$ 18° \$36'32 0° \$ 0° \$ 21° \$\mathbb{n}\text{23'36} 0° \$ 21° \$\mathbb{n}\text{23'36}	1.73107 AU 46°45'18
morning rise direct desc. node greatest brilliancy morning max el asc. node	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31	2°\$\Pi\$13 30°\$\Pi\$29°\$\Pi\$35'30 24°\$\Pi\$46'06 26°\$\Pi\$34'09 26°\$\Pi\$40'12 0°\$\Pi\$ 26°\$\Pi\$43'34 0°\$\Pi\$ 0°\$\Pi\$ 17°\$\Pi\$32'23 0°\$\Pi\$ 0°\$\Pi\$ 0°\$\Pi\$ 27°\$\Pi\$27'21 0°\$\Y	6°57'35 0.27060 AU -4.9m	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 Apr 11 21:58 12130 May 06 15:36 12130 May 22 04:39 12130 Jun 27 01:43 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02	27° ₹42'35 0° ₹ 0° ₹ 11° ≈ 46'17 0° 升 1° 升 10'09 0° ↑ 0° ¶ 0° ¶ 0° ¶ 21° № 23'36 0° Ω 21° № 23'36 0° Ω 21° Ω 38'11 23° Ω 52'09 23° Ω 12'20 19° Ω 30'57	1.73107 AU 46°45'18 -4.8m
morning rise direct desc. node greatest brilliancy morning max el asc. node	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00	2° \$\Pi19'13 30° \$\Pi = 29° \$\Pi35'30 24° \$\Pi35'30 24° \$\Pi36'09 26° \$\Pi34'09 26° \$\Pi43'34 0° \$\Pi\$ 0° \$\Pi\$ 17° \$\Pi32'23 0° \$\mathrightarrow \$\mathrighta	6°57'35 0.27060 AU -4.9m	evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist.	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 Apr 11 21:58 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 25 19:12	27° ₹42'35 0° ₹ 0° ₹ 11° ≈ 46'17 0° ¥ 1° ¥10'09 0° ¥ 0° \$ 0° \$ 18° \$36'32 0° \$ 0° \$ 21° \$\mathref{m}\$23'36 0° \$\mathref{n}\$ 21° \$\mathref{n}\$38'11 23° \$\mathref{n}\$52'09 23° \$\mathref{n}\$12'20 19° \$\mathref{n}\$30'57 16° \$\mathref{n}\$20'11	1.73107 AU 46°45'18 -4.8m 0.27685 AU
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00 12128 Apr 16 18:54	2°\$\Pi\13\] 30°\$\Pi\29°\Pi\35'\30\] 24°\Pi\46'\06\] 26°\Pi\34'\09\] 26°\Pi\43'\34\] 0°\Pi\0°\Pi\ 17°\Pi\32'\23\] 0°\Pi\27°\Pi\27'\21\] 0°\Y\ 3°\Y\29'\08\] 0°\Pi\30\Y\29'\08\] 0°\Pi\30\Y\29'\08\]	6°57'35 0.27060 AU -4.9m 46°30'39	evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 11 21:58 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Apg 25 12:38 12130 Sep 10 05:50 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 25 19:12 12130 Sep 26 14:06	27° ₹42'35 0° ₹ 0° ₹ 11° ≈46'17 0° ¥ 1° ¥10'09 0° Ŷ 0° ¥ 0° ¶ 0° \$ 18° \$36'32 0° \$ 0° ¶ 21° ¶23'36 0° \$ 21° \$23'36 0° \$ 21° \$23'36 123° \$252'09 23° \$12'20 19° \$230'57 16° \$220'11 15° \$51'03	1.73107 AU  46°45'18  -4.8m  0.27685 AU  -3°46'47
morning rise direct desc. node greatest brilliancy morning max el asc. node	12127 Jul 15 18:12 12127 Jul 19 15:18 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00	2°\$\Pi\13\] 30°\$\Pi\29°\Pi\35'\30\] 24°\Pi\46'\06\] 26°\Pi\34'\09\] 26°\Pi\43'\34\] 0°\Pi\0°\Pi\ 17°\Pi\32'\23\] 0°\Pi\27°\Pi\27'\21\] 0°\Y\ 3°\Y\29'\08\] 0°\Pi\30\Y\29'\08\] 0°\Pi\30\Y\29'\08\]	6°57'35 0.27060 AU -4.9m	evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 06 15:36 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 26 14:06 12130 Sep 26 14:06	27° ₹42'35 0° ₹ 0° ₹ 11° ≈46'17 0° ¥ 1° ¥10'09 0° Ŷ 0° ¥ 0° ¶ 0° \$ 18° \$36'32 0° \$ 0° \$ 21° \$\mathbb{Q}Q	1.73107 AU  46°45'18  -4.8m  0.27685 AU  -3°46'47
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morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node max. Earth dist. superior conj	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00 12128 Apr 16 18:54 12128 Apr 27 01:56	2°\$\Pi\$13 30°\$\Pi\$29°\$\Pi\$35'30 24°\$\Pi\$46'06 26°\$\Pi\$34'09 26°\$\Pi\$40'12 0°\$\Pi\$ 26°\$\Pi\$43'34 0°\$\Pi\$ 0°\$\Pi\$ 17°\$\Pi\$32'23 0°\$\Pi\$ 0°\$\Pi\$ 27°\$\Pi\$27'21 0°\$\Pi\$ 3°\$\Pi\$27'21 0°\$\Pi\$ 12°\$\Pi\$50'17 16°\$\Pi\$42'29 16°\$\Pi\$837	6°57'35 0.27060 AU -4.9m 46°30'39 1.71869 AU -1°11'59	evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 26 14:06 12130 Sep 26 14:06 12130 Sep 26 06:07 12130 Oct 02 02:56 12130 Oct 17 14:09 12130 Oct 27 01:39	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥ 10'09 0° Y 0° ₹ 0° Ⅱ 0° \$ 18° \$36'32 0° \$ 0° № 21° № 23'36 0° \$ 21° \$\Omega 38'11 23° \$\Omega 52'09 23° \$\Omega 12'20 19° \$\Omega 30'57 16° \$\Omega 20'11 15° \$\Omega 51'03 16° \$\Omega 20'22 12° \$\Omega 33'57 7° \$\Omega 59'45 9° \$\Omega 38'24	1.73107 AU  46°45'18  -4.8m  0.27685 AU -3°46'47 3°44'21
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node max. Earth dist. superior conj	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00 12128 Apr 16 18:54 12128 Apr 27 01:56  12128 Apr 30 04:17 12128 Apr 29 17:26 12128 May 10 19:19	2°\$\Pi\$13 30°\$\Pi\$29°\$\Pi\$35'30 24°\$\Pi\$46'06 26°\$\Pi\$34'09 26°\$\Pi\$40'12 0°\$\Pi\$ 26°\$\Pi\$43'34 0°\$\Pi\$ 0°\$\Pi\$ 17°\$\Pi\$32'23 0°\$\Pi\$ 0°\$\Pi\$ 27°\$\Pi\$27'21 0°\$\Y\$ 3°\$\Pi\$29'08 0°\$\Pi\$ 12°\$\Pi\$50'17 16°\$\Pi\$42'29 16°\$\Pi\$08'37 0°\$\Pi\$	6°57'35 0.27060 AU -4.9m 46°30'39 1.71869 AU -1°11'59	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 11 21:58 12130 May 06 15:36 12130 May 22 04:39 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 26 14:06 12130 Sep 26 14:06 12130 Oct 02 02:56 12130 Oct 07 01:39 12130 Nov 26 18:05	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥ 10'09 0° Y 0° ₹ 0° Ⅱ 0° ₹ 18° ₹36'32 0° ₹ 0° № 21° № 23'36 0° ₽ 21° № 23'36 0° ₽ 21° № 338'11 23° £ 52'09 23° £ 12'20 19° £ 30'57 16° £ 20'11 15° £ 51'03 16° £ 03'22 12° £ 33'57 7° £ 59'45 9° £ 38'24 0° №	1.73107 AU  46°45'18  -4.8m  0.27685 AU -3°46'47 3°44'21  -4.8m
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00 12128 Apr 16 18:54 12128 Apr 27 01:56  12128 Apr 30 04:17 12128 Apr 29 17:26 12128 May 10 19:19 12128 Jun 03 17:50	2°\$\Pi\$13 30°\$\Pi\$29°\$\Pi\$35'30 24°\$\Pi\$46'06 26°\$\Pi\$34'09 26°\$\Pi\$40'12 0°\$\Pi\$ 26°\$\Pi\$43'34 0°\$\Pi\$ 0°\$\Pi\$ 17°\$\Pi\$32'23 0°\$\Pi\$ 0°\$\Pi\$ 27°\$\Pi\$27'21 0°\$\Pi\$ 3°\$\Pi\$29'08 0°\$\Pi\$ 12°\$\Pi\$50'17 16°\$\Pi\$42'29 16°\$\Pi\$08'37 0°\$\Pi\$	6°57'35 0.27060 AU -4.9m 46°30'39 1.71869 AU -1°11'59	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 20 10:02 12130 Sep 26 14:06 12130 Sep 26 06:07 12130 Oct 02 02:56 12130 Oct 17 14:09 12130 Oct 27 01:39 12130 Nov 26 18:05 12130 Dec 05 12:00	27° ₹42'35 0° ₹ 0° ₹ 11° ₹46'17 0° ¥ 1° ¥ 10'09 0° Y 0° ₹ 0° Ⅱ 0° \$ 18° \$36'32 0° \$ 0° № 21° № 23'36 0° \$ 21° \$\Omega 38'11 23° \$\Omega 52'09 23° \$\Omega 12'20 19° \$\Omega 30'57 16° \$\Omega 20'11 15° \$\Omega 51'03 16° \$\Omega 33'57 7° \$\Omega 59'45 9° \$\Omega 38'24 0° € 8° €06'11	1.73107 AU  46°45'18  -4.8m  0.27685 AU -3°46'47 3°44'21  -4.8m
morning rise direct desc. node greatest brilliancy morning max el asc. node morning set desc. node max. Earth dist. superior conj minimum elong	12127 Jul 15 18:12 12127 Jul 20 08:32 12127 Aug 05 01:11 12127 Aug 14 20:09 12127 Aug 15 02:56 12127 Aug 22 08:02 12127 Sep 24 02:39 12127 Sep 27 09:34 12127 Oct 25 12:01 12127 Nov 20 19:32 12127 Dec 05 18:52 12127 Dec 16 07:03 12128 Jan 10 06:29 12128 Feb 03 22:09 12128 Feb 28 08:43 12128 Mar 21 14:13 12128 Mar 23 15:31 12128 Mar 26 11:00 12128 Apr 16 18:54 12128 Apr 27 01:56  12128 Apr 30 04:17 12128 Apr 29 17:26 12128 May 10 19:19 12128 Jun 03 17:50 12128 Jun 09 00:45	2°\$\Pi\$13 30°\$\Pi\$29°\$\Pi\$35'30 24°\$\Pi\$46'06 26°\$\Pi\$34'09 26°\$\Pi\$40'12 0°\$\Pi\$ 26°\$\Pi\$43'34 0°\$\Pi\$ 0°\$\Pi\$ 17°\$\Pi\$32'23 0°\$\Pi\$ 0°\$\Pi\$ 27°\$\Pi\$27'21 0°\$\Pi\$ 3°\$\Pi\$29'08 0°\$\Pi\$ 12°\$\Pi\$50'17 16°\$\Pi\$42'29 16°\$\Pi\$08'37 0°\$\Pi\$ 6°\$\Pi\$37'56	6°57'35 0.27060 AU -4.9m 46°30'39 1.71869 AU -1°11'59	max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde desc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12129 Dec 08 20:43 12129 Dec 10 17:13 12130 Jan 04 00:56 12130 Jan 13 14:26 12130 Jan 28 10:20 12130 Jan 29 09:11 12130 Feb 21 21:07 12130 Mar 18 08:48 12130 May 06 15:36 12130 May 22 04:39 12130 May 31 20:12 12130 Jun 27 01:43 12130 Jul 17 05:57 12130 Jul 26 03:01 12130 Aug 25 12:38 12130 Sep 05 12:29 12130 Sep 11 05:50 12130 Sep 20 10:02 12130 Sep 20 10:02 12130 Sep 26 14:06 12130 Sep 26 14:06 12130 Sep 26 06:07 12130 Oct 17 14:09 12130 Oct 27 01:39 12130 Nov 26 18:05 12130 Dec 05 12:00 12130 Dec 05 12:00 12130 Dec 05 12:00	27° ₹42'35 0° ₹ 0° ₹ 11° ≈ 46'17 0° 升 1° 升 10'09 0° ↑ 0° ↓ 0° ∏ 0° ⑤ 18° ⑤ 36'32 0° ᠓ 21° ᠓ 23'36 0° Ω 21° № 23'36 0° Ω 21° Ω 30'57 16° Ω 20'11 15° Ω 51'03 16° Ω 03'22 12° Ω 33'57 7° Ω 59'45 9° Ω 38'24 0° ∭ 8° ∭ 06'11 0° ₹	1.73107 AU  46°45'18  -4.8m  0.27685 AU -3°46'47 3°44'21  -4.8m

	12131 Feb 17 11:41	0° <b>≈</b>		desc. node	12133 Oct 08 15:21	13° <b>∡</b> ³36′12	
	12131 Mar 14 11:03	0° <b>)</b> €			12133 Nov 01 03:21	ರ°0	
	12131 Apr 08 00:43	$0^{\circ}\mathbf{\Upsilon}$		greatest brilliancy	12133 Nov 04 13:58	1° <b>る</b> 25'31	-4.8m
desc. node	12131 Apr 24 00:59	19° <b>Ƴ</b> 44'28		retrograde	12133 Nov 14 23:55	3° <b>る</b> 24'53	
	12131 May 02 07:38	$9^{\circ}$ 8			12133 Nov 28 03:58	30°R <b>✓</b>	
	12131 May 26 09:32	$\Pi$ $^{\circ}0$		evening set	12133 Dec 03 09:56	27° <b>х</b> 03′42	
morning set	12131 Jun 05 00:55	12° <b>Ⅱ</b> 04'01		inferior conj	12133 Dec 06 12:39	25° <b>∡</b> ¹07'42	-8°44'35
	12131 Jun 19 08:10	$0$ $\circ$ $\odot$		minimum elong	12133 Dec 06 14:11	25° <b>∡</b> ¹05'18	8°43'42
	12131 Jul 13 05:35	$0^{\circ}\Omega$		min. Earth dist.	12133 Dec 06 09:08	25° <b>∡</b> 13'13	0.28973 AU
				morning rise	12133 Dec 09 18:28	23° <b>҂</b> 107′00	
superior conj	12131 Jul 15 02:19	2° <b>Ω</b> 20′22	-1°05'59	direct	12133 Dec 27 21:45	16° <b>∡</b> 754'55	
minimum elong	12131 Jul 15 13:57	2° <b>Ω</b> 56'53		greatest brilliancy	12134 Jan 07 06:16	18° <b>∡</b> 751′26	-4.7m
max. Earth dist.	12131 Jul 16 01:40	3° <b>Ω</b> 33'39	1.71409 AU		12134 Jan 26 06:17	0°ಕ	
	12131 Aug 06 03:42	0° <b>m</b>		asc. node	12134 Jan 29 17:14	2° <b>る</b> 44'05	
asc. node	12131 Aug 14 16:08	10° <b>m</b> 39'29		morning max el	12134 Feb 14 23:54	17° <b>る</b> 24'15	45°48'33
evening rise	12131 Aug 24 01:54	22° Mp 24'36			12134 Feb 27 09:59	0° <b>≈</b>	
	12131 Aug 30 03:54	0∘ <b>⊽</b>			12134 Mar 26 15:14	0° <b>∀</b>	
	12131 Sep 23 07:17	0°M			12134 Apr 21 06:51	0° <b>Υ</b>	
	12131 Oct 17 15:26	0° <b>∡</b>			12134 May 16 03:56	0° <b>8</b>	
	12131 Nov 11 07:02	0°₹		desc. node	12134 May 21 14:23	6° <b>8</b> 38'16	
desc. node	12131 Dec 04 10:12	27° <b>る</b> 39'34			12134 Jun 09 14:05	$\Pi$ $\circ$ 0	
	12131 Dec 06 09:44	0° <b>≈</b>			12134 Jul 03 17:47	0ංම	
	12132 Jan 01 04:42	0° <b>∀</b>			12134 Jul 27 18:28	0° <b>Ω</b>	
	12132 Jan 28 02:44	0°Υ		morning set	12134 Aug 18 14:10	27° <b>Ω</b> 16′06	
evening max el	12132 Feb 19 06:38	22° <b>Υ</b> 53'10	46°06'56		12134 Aug 20 18:38	0° <b>m</b> )	
	12132 Feb 26 18:52	0°8		asc. node	12134 Sep 11 05:59	26° m 47'53	
asc. node	12132 Mar 26 10:45	20° <b>8</b> 50'55	4.0		12134 Sep 13 19:39	0∘ <b>ಹ</b>	
greatest brilliancy	12132 Mar 29 23:44	22° <b>8</b> 16'28	-4.8m		101046 06 10 04	150 0 51110	0026105
retrograde	12132 Apr 08 18:09	24° <b>8</b> 03'22		superior conj	12134 Sep 26 13:04	15° <b>£</b> 51'10	
evening set	12132 Apr 24 21:56	19° <b>8</b> 00'13	7020111	minimum elong	12134 Sep 26 05:16	15° <b>£</b> 26'52	
inferior conj	12132 Apr 29 14:21	16° <b>8</b> 10'15		max. Earth dist.	12134 Sep 28 18:39	18° <b>≏</b> 37'52	1.72284 AU
minimum elong	12132 Apr 29 03:51	16° <b>8</b> 26'32	0.27557 AU		12134 Oct 07 22:05	0° <b>M</b> 0° <b>∡</b> 7	
min. Earth dist.	12132 Apr 29 14:35	13° <b>8</b> 50'27	0.27337 AU	avanina riaa	12134 Nov 01 02:36	0 <b>x</b> . 2° <b>x</b> 23'57	
morning rise direct	12132 May 03 09:35 12132 May 20 11:19	8° <b>8</b> 11'12		evening rise	12134 Nov 03 01:09 12134 Nov 25 10:20	2° <b>x</b> '23'3/	
greatest brilliancy	12132 May 20 11:19 12132 May 30 11:39	10° <b>8</b> 03'55	4.0m		12134 Nov 23 10.20 12134 Dec 19 22:39	0°≈	
greatest offinality	12132 Jun 28 13:20	0° <b>I</b>	-4.5111	desc. node	12134 Dec 31 22:09	0 <b>∞</b> 14° <b>≈</b> 33'39	
morning max el	12132 Jul	10° <b>Ⅱ</b> 55'42	46°58'26	desc. node	12135 Jan 13 16:35	0° <b>∺</b>	
desc. node	12132 Jul 16 12:04	17° <b>II</b> 40'57	40 30 20		12135 Feb 07 16:43	0° <b>Υ</b>	
dese. Hode	12132 Jul 27 23:27	0°9			12135 Mar 05 00:57	0°8	
	12132 Aug 23 09:12	0°N			12135 Mar 31 00:18	0°II	
	12132 Sep 17 18:49	0° mp		asc. node	12135 Apr 23 20:20	26° <b>Ⅱ</b> 08'12	
	12132 Oct 12 18:04	0∘ <b>⊽</b>			12135 Apr 27 13:21	0ංම 	
asc. node	12132 Nov 06 07:55	29° <b>≏</b> 48'48		evening max el	12135 May 03 01:02	5°934'10	46°40'55
	12132 Nov 06 11:36	0°M		Č	12135 May 31 13:27	$0^{\circ}\Omega$	
	12132 Dec 01 00:58	0° <b>∡</b> ¹		greatest brilliancy	12135 Jun 12 12:51	6° <b>Ω</b> 08'45	-4.9m
	12132 Dec 25 11:16	0°ರ		retrograde	12135 Jun 22 06:03	7° <b>Ω</b> 55'32	
morning set	12133 Jan 08 09:29	17° <b>る</b> 08'53		evening set	12135 Jul 08 23:05	2° <b>Ω</b> 30'35	
	12133 Jan 18 19:40	0° <b>≈</b>		inferior conj	12135 Jul 12 21:09	0° <b>Ω</b> 09'04	7°16'12
	12133 Feb 12 03:05	0° <b>)</b>		minimum elong	12135 Jul 13 08:10	29° <b>9</b> 52'14	7°13'12
max. Earth dist.	12133 Feb 13 04:08	1° <b>升</b> 17′22	1.72977 AU		12135 Jul 13 03:05	30° <b>₹</b> 5	
				min. Earth dist.	12135 Jul 13 06:48	29° <b>5</b> 54'20	0.27074 AU
superior conj	12133 Feb 14 13:33	3° <b>₩</b> 00'35	0°27'07	morning rise	12135 Jul 17 17:14	27°916'10	
minimum elong	12133 Feb 14 19:34	3° <b>₩</b> 19'09	0°27'17	direct	12135 Aug 02 14:35	22°520'58	
desc. node	12133 Feb 25 22:49	17° <b>)</b> €04'48		greatest brilliancy	12135 Aug 12 14:54	24°9514'16	-4.9m
	12133 Mar 08 09:30	$0$ ° $\Upsilon$		desc. node	12135 Aug 13 22:06	24° <b>©</b> 43'55	
evening rise	12133 Mar 24 23:01	20° <b>Ƴ</b> 31'13			12135 Aug 23 21:17	$0^{\circ}\Omega$	
	12133 Apr 01 14:26	0°8		morning max el	12135 Sep 21 17:11	24° <b>Ω</b> 24'47	46°32'12
	12133 Apr 25 17:52	$\Pi^{\circ}0$			12135 Sep 27 06:46	0° <b>m</b> )	
	12133 May 19 21:00	0∘ <b>©</b>			12135 Oct 25 03:27	0∘ <b>⊽</b>	
	12133 Jun 13 02:22	$0^{\circ}\Omega$			12135 Nov 20 08:38	0° <b>M</b>	
asc. node	12133 Jun 18 16:08	6° <b>Ω</b> 52'09		asc. node	12135 Dec 04 20:54	17° <b>M</b> 01'59	
	12133 Jul 07 13:30	0° <b>m</b>			12135 Dec 15 18:56	0° <b>∡</b> ¹	
	12133 Aug 01 11:39	0∘ <b>⊽</b>			12136 Jan 09 17:43	0°る	
	•						
	12133 Aug 27 07:16	0°M			12136 Feb 03 09:00	0° <b>≈</b>	
evening max el	•		46°14'00	morning set		0° <b>≈</b> 0° <b>光</b> 25° <b>光</b> 10'50	

	12136 Mar 23 02:02	0° <b>Ƴ</b>		evening set	12138 Sep 17 22:58	17° <b>≏</b> 14'51	
desc. node	12136 Mar 25 12:51	3° <b>Υ</b> '02'12		min. Earth dist.	12138 Sep 17 22:38 12138 Sep 23 10:28	14° <b>⊆</b> 01'01	0.27633 AU
dese. node	12136 Apr 16 05:25	0°8		inferior conj	12138 Sep 24 04:15	13° <b>Ω</b> 33'35	
max. Earth dist.	12136 Apr 24 13:35	10° <b>8</b> 24'00	1.71905 AU	minimum elong	12138 Sep 23 20:51	13° <b>Ω</b> 45'00	
	r			morning rise	12138 Sep 29 19:24	10° <b>£</b> 13'06	
superior conj	12136 Apr 27 17:03	14° <b>8</b> 19'35	-1°09'46	direct	12138 Oct 15 03:21	5° <b>≏</b> 42'52	
minimum elong	12136 Apr 27 05:57	13° <b>8</b> 44'57	1°09'58	greatest brilliancy	12138 Oct 24 16:13	7° <b>₽</b> 22'09	-4.8m
_	12136 May 10 05:52	$\Pi^{\circ}$			12138 Nov 26 20:28	$0^{\circ}$ M	
	12136 Jun 03 04:29	$0$ $\circ$ $\odot$		morning max el	12138 Dec 03 01:07	5° <b>™</b> 48'14	45°50'00
evening rise	12136 Jun 06 12:17	4°9510'10			12138 Dec 26 14:34	0°∡7	
	12136 Jun 27 03:03	$0^{\circ}\Omega$		asc. node	12139 Jan 01 08:38	6° <b>∡</b> 16′24	
asc. node	12136 Jul 16 04:35	23° <b>Ω</b> 49′15			12139 Jan 22 09:41	8°0	
	12136 Jul 21 03:38	0° <b>m</b>			12139 Feb 16 23:44	0° <b>≈</b>	
	12136 Aug 14 08:21	0∘ <b>⊽</b>			12139 Mar 13 22:24	0° <b>∀</b>	
	12136 Sep 07 19:59	$0^{\circ}$ M			12139 Apr 07 11:43	$0^{\circ}$ Y	
	12136 Oct 02 19:23	0° <b>∡</b> ¹		desc. node	12139 Apr 23 02:51	19° <b>Ƴ</b> 16'40	
	12136 Oct 28 15:53	0°ප			12139 May 01 18:27	$9^{\circ}$ 8	
desc. node	12136 Nov 05 01:19	8° <b>る</b> 17'31			12139 May 25 20:14	$\Pi$ °0	
	12136 Nov 25 06:55	0° <b>≈</b>		morning set	12139 Jun 02 12:11	9° <b>Ⅱ</b> 35'35	
evening max el	12136 Dec 06 13:31	11° <b>≈</b> 14'15	45°51'42		12139 Jun 18 18:47	$0$ $\circ$ $\odot$	
	12136 Dec 28 11:29	0° <b>\</b>					
greatest brilliancy	12137 Jan 14 13:44	9° <b>∺</b> 26'35	-4.7m	superior conj	12139 Jul 12 14:23	29° <b>9</b> 54'26	
retrograde	12137 Jan 24 09:15	11° <b>)</b> 11'04		minimum elong	12139 Jul 13 01:52	0° <b>Ω</b> 30′29	1°08'52
evening set	12137 Feb 08 18:58	6° <b>)</b> (35'42			12139 Jul 12 16:09	0°N	
inferior conj	12137 Feb 14 14:31	3° <b>)</b> €05'09		max. Earth dist.	12139 Jul 13 06:56	0° <b>Ω</b> 46'23	1.71394 AU
minimum elong	12137 Feb 14 20:35	2° <b>)</b> ₹55'38			12139 Aug 05 14:16	0° m/y	
min. Earth dist.	12137 Feb 15 02:36	2° <b>)</b> (46'13	0.28352 AU	asc. node	12139 Aug 13 17:55	10° Mp 12'02	
	12137 Feb 19 15:57	30°R≈		evening rise	12139 Aug 21 15:20	20°™03'40 0°₽	
morning rise	12137 Feb 20 21:50	29°≈17'58			12139 Aug 29 14:31	0° <b>™</b>	
asc. node direct	12137 Feb 26 03:08 12137 Mar 07 21:41	26°≈49'35 24°≈54'14			12139 Sep 22 18:00 12139 Oct 17 02:23	0°11L 0° <b>√</b> 7	
greatest brilliancy	12137 Mar 17 21:41 12137 Mar 18 18:08	24 ≈34 14 27°≈05'06	-4.8m		12139 Oct 17 02:23 12139 Nov 10 18:24	0 × ਨ	
greatest offinancy	12137 Mar 16 16:08 12137 Mar 24 22:59	27 <b>≈</b> 03 00	-4.0111	desc. node	12139 Nov 10 18:24 12139 Dec 03 12:09	0 3 27° <b>る</b> 09'34	
morning max el	12137 Mai 24 22:39 12137 Apr 26 19:32	26° <b>)</b> 49′26	46°28'30	dese. Hode	12139 Dec 05 12:09	27 <b>⊙</b> 073∓	
morning max cr	12137 Apr 20 13:32 12137 Apr 29 23:20	0° <b>Υ</b>	40 20 30		12139 Dec 31 18:21	0° <b>∺</b>	
	12137 May 27 15:40	0°8			12140 Jan 27 19:35	0°Υ	
desc. node	12137 Jun 18 02:52	24° <b>8</b> 55'59		evening max el	12140 Feb 16 20:13	20° <b>Υ</b> '34'33	46°05'57
	12137 Jun 22 09:19	0°II			12140 Feb 26 21:57	0°8	
	12137 Jul 17 06:42	0°©		asc. node	12140 Mar 25 12:46	19° <b>8</b> 09'56	
	12137 Aug 10 18:32	$0^{\circ}\Omega$		greatest brilliancy	12140 Mar 27 12:49	19° <b>8</b> 55'42	-4.8m
	12137 Sep 04 02:23	0° <b>m</b> )		retrograde	12140 Apr 06 07:49	21° <b>8</b> 43'21	
	12137 Sep 28 08:57	0∘ <b>⊽</b>		evening set	12140 Apr 22 07:42	16° <b>8</b> 45'08	
asc. node	12137 Oct 08 20:09	12° <b>ჲ</b> 56'30		inferior conj	12140 Apr 27 04:11	13° <b>8</b> 49'38	7°14'02
	12137 Oct 22 15:05	$0^{\circ}$ M		minimum elong	12140 Apr 26 17:27	14° <b>8</b> 06'16	7°11'25
morning set	12137 Oct 29 02:44	8°M01'22		min. Earth dist.	12140 Apr 27 04:23	13° <b>8</b> 49'18	0.27576 AU
	12137 Nov 15 21:06	0° <b>∡</b> ¹		morning rise	12140 May 01 02:59	11° <b>8</b> 24'43	
				direct	12140 May 18 01:12	5° <b>8</b> 49'53	
superior conj	12137 Dec 05 05:03	23° <b>∡</b> °54′00	1°26'00	greatest brilliancy	12140 May 28 02:38	7° <b>8</b> 43'50	-4.9m
minimum elong	12137 Dec 05 05:54	23° <b>₹</b> 56'39	1°26'51		12140 Jun 28 16:37	$\Pi$ °0	
max. Earth dist.	12137 Dec 06 14:33	25° <b>₹</b> 37'29	1.73088 AU	morning max el	12140 Jul 07 12:50	8° <b>Ⅱ</b> 35'39	46°58'30
	12137 Dec 10 03:34	0°ಕ		desc. node	12140 Jul 15 13:54	16° <b>∏</b> 53′29	
	12138 Jan 03 11:20	0° <b>≈</b>			12140 Jul 27 16:42	0ം <b>ತಾ</b>	
evening rise	12138 Jan 11 06:38	9° <b>≈</b> 36′20			12140 Aug 22 23:20	$0^{\circ}\Omega$	
	12138 Jan 27 20:53	0° <b>∀</b>			12140 Sep 17 07:27	0° m/y	
desc. node	12138 Jan 28 10:57	0° <b>)</b> (43'11			12140 Oct 12 05:49	0∘ <b>⊽</b>	
	12138 Feb 21 07:56	0° <b>Ƴ</b>		asc. node	12140 Nov 05 09:53	29° <b>Ω</b> 20'45	
	12138 Mar 17 20:00	0°B			12140 Nov 05 22:46	0°M 0°. <b>7</b>	
	12138 Apr 11 09:42	0° <b>∏</b>			12140 Nov 30 11:47	0° <b>∡</b> 7	
asa nada	12138 May 06 04:07	0°©		morning act	12140 Dec 24 21:52	0°る 15° <b>る</b> 01'22	
asc. node	12138 May 21 06:44	18° <b>©</b> 03'17 0° <b>Ω</b>		morning set	12141 Jan 06 02:40 12141 Jan 18 06:11	15°る01'22 0°≈	
	12138 May 31 10:07 12138 Jun 26 18:41	0°my		may Forth 1:-4	12141 Jan 18 06:11 12141 Feb 11 00:36	0°≈ 29°≈19'52	1 72001 411
evening max el	12138 Jul 26 18:41 12138 Jul 14 19:38	0°100 19°10002'19	46°45'48	max. Earth dist.	12141 Feb 11 00:36 12141 Feb 11 13:36	29° <b>Ж</b> 1932	1.73001 AU
evening max ei	12138 Jul 14 19:38 12138 Jul 26 06:00	0° <b>⊽</b>	TU TJ 40		12141 1700 11 15.50	υ <b>Λ</b>	
greatest brilliancy	12138 Aug 23 04:39	0 <u>≈</u> 19° <b>≏</b> 21'12	-4.8m	superior conj	12141 Feb 12 05:16	0° <b>)</b> 48′22	0°30'22
retrograde	12138 Aug 23 04:39 12138 Sep 03 02:32	21° <b>£</b> 33'36	7.0111	minimum elong	12141 Feb 12 03:10 12141 Feb 12 11:53	1° <b>)</b> (4822	0°30'32
desc. node	12138 Sep 10 07:46	20° <b>♀</b> 30'24		desc. node	12141 Feb 25 00:38	16° <b>)</b> 37'50	3 30 32
dose. Hode	12130 Sep 10 07.40	20 - 30 24		dose. Hode	12111100 23 00.30	10 /(3/30	

	12141 M 07 20 06	0°Υ		1 1	12142 4 12 00 00	220657110	
	12141 Mar 07 20:06			desc. node	12143 Aug 13 00:06	22°957'10	
evening rise	12141 Mar 22 13:43	18° <b>Y</b> 14'56			12143 Aug 24 23:58	$0$ ° $\Omega$	
	12141 Apr 01 01:10	0°8		morning max el	12143 Sep 19 07:02	22° <b>Ω</b> 03′17	46°33'41
	12141 Apr 25 04:48	$\Pi$ °0			12143 Sep 27 03:34	0° <b>m</b> )	
	12141 May 19 08:15	$0$ $\circ$ $\infty$			12143 Oct 24 18:57	0∘ <b>ত</b>	
	12141 Jun 12 14:02	$0^{\circ}\Omega$			12143 Nov 19 21:54	0° <b>M</b> ₊	
asc. node	12141 Jun 17 18:01	6° <b>Ω</b> 21'43		asc. node	12143 Dec 03 22:45	16° <b>M</b> ₊30'18	
	12141 Jul 07 01:46	o∘ <b>m</b> p			12143 Dec 15 07:03	0° <b>∡</b> ¹	
	12141 Aug 01 00:56	0∘ <u>∿</u>			12144 Jan 09 05:10	ರ°ರ	
	12141 Aug 26 22:38	0°M₊			12144 Feb 02 20:05	0° <b>≈</b>	
avanina may al	12141 Sep 24 00:27	29°M54'52	46915121		12144 Feb 27 06:15	0° <b>∺</b>	
evening max el	•		40 13 21	. ,			
	12141 Sep 24 02:32	0° <b>⊼</b> ¹		morning set	12144 Mar 16 19:08	22° <b>)</b> 53'34	
desc. node	12141 Oct 07 17:25	12° <b>∡</b> ³38′26			12144 Mar 22 12:53	0° <b>Υ</b>	
greatest brilliancy	12141 Nov 02 04:13	29° <b>х</b> 13′14	-4.8m	desc. node	12144 Mar 24 14:48	2° <b>Y</b> 34'39	
	12141 Nov 04 12:43	0°₹			12144 Apr 15 16:17	$9^{\circ}$ 8	
retrograde	12141 Nov 12 16:35	1° <b>る</b> 14'36		max. Earth dist.	12144 Apr 21 22:29	7° <b>呂</b> 48'09	1.71946 AU
	12141 Nov 20 13:05	30°Ŗ <b>⋌</b> ¹					
evening set	12141 Dec 01 01:40	24° <b>₹</b> 53'29		superior conj	12144 Apr 25 05:48	11° <b>8</b> 55'33	-1°07'25
inferior conj	12141 Dec 04 04:38	22° <b>∡</b> 57'11	-8°45'43	minimum elong	12144 Apr 24 18:33	11° <b>8</b> 20'29	1°07'34
minimum elong	12141 Dec 04 05:23	22° <b>₹</b> 56'02		8	12144 May 09 16:47	0°II	
min. Earth dist.	12141 Dec 03 23:33	23°×705'09	0.28961 AU		12144 Jun 02 15:29	0°©	
			0.28901 AU				
morning rise	12141 Dec 07 09:09	20° <b>₹</b> 58'42		evening rise	12144 Jun 03 23:37	1°5540'44	
direct	12141 Dec 25 13:55	14° <b>∡</b> °44'48 −			12144 Jun 26 14:10	$0$ $\circ$ $\Omega$	
greatest brilliancy	12142 Jan 04 20:39	16° <b>∡</b> 740'07	-4.7m	asc. node	12144 Jul 15 06:23	23° <b>Ω</b> 19'51	
	12142 Jan 26 16:39	0°ಕ			12144 Jul 20 14:55	0° <b>m</b> )	
asc. node	12142 Jan 28 19:10	1° <b>る</b> 43'23			12144 Aug 13 19:56	0∘ <b>ত</b>	
morning max el	12142 Feb 12 16:25	15° <b>る</b> 14'38	45°47'40		12144 Sep 07 08:04	0° <b>M</b>	
-	12142 Feb 27 03:54	0° <b>≈</b>			12144 Oct 02 08:21	0° <b>∡</b> ¹	
	12142 Mar 26 05:26	0° <b>)</b> {			12144 Oct 28 06:36	ರ°ರ	
	12142 Apr 20 19:30	0° <b>Υ</b>		desc. node	12144 Nov 04 03:17	7° <b>る</b> 40'01	
	12142 May 15 15:48	0°8		desc. node	12144 Nov 25 02:05	0°≈	
1 1	-						45051155
desc. node	12142 May 20 16:20	6° <b>8</b> 08'16		evening max el	12144 Dec 04 04:16	9°≈00'22	45°51'55
	12142 Jun 09 01:31	$\Pi$ °0			12144 Dec 29 06:50	0° <b>)</b> €	
	12142 Jul 03 04:57	0		greatest brilliancy	12145 Jan 12 05:38	7° <b>∺</b> 14'43	-4.7m
	12142 Jul 27 05:29	$0 {\circ} \Omega$		retrograde	12145 Jan 21 23:47	8° <b>¥</b> 58'16	
morning set	12142 Aug 16 03:28	24° <b>Ω</b> 53'43		evening set	12145 Feb 06 12:31	4° <b>₩</b> 19'50	
	12142 Aug 20 05:31	0°mp		inferior conj	12145 Feb 12 06:04	0° <b>)</b> 52′04	-3°08'34
asc. node	12142 Sep 10 07:55	26° Mp 20'22		minimum elong	12145 Feb 12 12:46	0° <b>¥</b> 41'33	3°06'09
	12142 Sep 13 06:24	0∘ <b>⊽</b>		min. Earth dist.	12145 Feb 12 18:45		0.28388 AU
	12142 бер 15 00.24	٠ <b>–</b>		mm. Lattii dist.	12145 Feb 13 15:17	30°R≈	0.20300710
:	10140 0 24 02-42	120 0 22157	0922140				
superior conj	12142 Sep 24 03:43	13° <b>Ω</b> 33'57		morning rise	12145 Feb 18 12:34	27°≈05'30	
minimum elong	12142 Sep 23 20:29	13° <b>≏</b> 11'25		asc. node	12145 Feb 25 05:09	24° <b>≈</b> 04'41	
max. Earth dist.	12142 Sep 26 11:10		1.72246 AU	direct	12145 Mar 05 13:07	22° <b>≈</b> 40'44	
	12142 Oct 07 08:46	0° <b>M</b>		greatest brilliancy	12145 Mar 16 10:30	24° <b>≈</b> 51'49	-4.8m
evening rise	12142 Oct 31 17:38	0° <b>∡</b> 13'29			12145 Mar 26 09:22	0° <b>∀</b>	
	12142 Oct 31 13:17	0° <b>∡</b> 7		morning max el	12145 Apr 24 09:33	24° <b>)</b> 30′09	46°26'49
	12142 Nov 24 21:08	0°る			12145 Apr 29 19:54	$0^{\circ}\mathbf{\Upsilon}$	
	12142 Dec 19 09:43	0° <b>≈</b>			12145 May 27 07:09	0°B	
desc. node	12142 Dec 30 23:58	14° <b>≈</b> 05'09		desc. node	12145 Jun 17 04:40	24° <b>8</b> 20'34	
	12143 Jan 13 04:05	0° <b>∀</b>			12145 Jun 21 22:50	0°II	
	12143 Feb 07 04:56	0°Υ			12145 Jul 16 19:13	0°©	
	12143 Mar 04 14:22	8°0			12145 Aug 10 06:25	0° <b>N</b>	
_	12143 Mar 30 15:59	0°II			12145 Sep 03 13:51	0° <b>m</b>	
asc. node	12143 Apr 22 22:25	25° <b>Ⅱ</b> 21'10			12145 Sep 27 20:07	0∘ <b>⊽</b>	
	12143 Apr 27 10:38	0		asc. node	12145 Oct 07 22:03	12° <b>≏</b> 28′06	
evening max el	12143 Apr 30 15:25	3° <b>©</b> 13'23	46°39'57		12145 Oct 22 02:05	0° <b>M</b> ₊	
	12143 Jun 02 01:06	$0^{\circ}\Omega$		morning set	12145 Oct 26 18:21	5° <b>M</b> 47′22	
greatest brilliancy	12143 Jun 10 02:04	3° <b>Ω</b> 43'49	-4.9m		12145 Nov 15 07:58	0° <b>∡</b> 7	
retrograde	12143 Jun 19 19:08	5° <b>Ω</b> 29'56					
evening set	12143 Jul 06 15:32	29° <b>©</b> 59'55		superior conj	12145 Dec 02 22:02	21° <b>х</b> 44'52	1°26'06
2.06 500	12143 Jul 06 15:29	30°R95		minimum elong	12145 Dec 02 22:02 12145 Dec 02 22:09		1°26'57
infarior con:			7020145	_			
inferior conj	12143 Jul 10 09:53	27°543'29	7°30'45	max. Earth dist.	12145 Dec 04 06:35	23° <b>₹</b> 25'23	1.73069 AU
minimum elong	12143 Jul 10 20:38	27°527'00	7°27'55		12145 Dec 09 14:22	0° <b>ප</b>	
min. Earth dist.	12143 Jul 10 19:30	27° <b>©</b> 28'44	0.27086 AU		12146 Jan 02 22:10	0° <b>≈</b>	
morning rise	12143 Jul 15 01:46	24°956'17		evening rise	12146 Jan 08 22:57	7° <b>≈</b> 25'27	
direct	12143 Jul 31 03:50	19° <b>©</b> 55'17			12146 Jan 27 07:51	0° <b>ℋ</b>	
greatest brilliancy	12143 Aug 10 03:03	21° <b>5</b> 47'37	-4.9m	desc. node	12146 Jan 27 12:50	0° <b>¥</b> 15′16	

		00		_			
	12146 Feb 20 19:10	0° <b>Υ</b>		asc. node	12148 Nov 04 11:44	28° <b>≏</b> 51'23	
	12146 Mar 17 07:37	$0^{\circ}S$			12148 Nov 05 10:14	0° <b>M</b>	
	12146 Apr 10 21:52	$\Pi$ $\circ$ 0			12148 Nov 29 22:52	0° <b>✓</b>	
	12146 May 05 17:10	$0$ $\circ$ $\odot$			12148 Dec 24 08:43	8°0	
asc. node	12146 May 20 08:33	17° <b>©</b> 27'34		morning set	12149 Jan 03 19:36	12° <b>る</b> 52'26	
	12146 May 31 00:45	$0^{\circ}\Omega$			12149 Jan 17 16:58	0° <b>≈</b>	
	12146 Jun 26 12:40	o∘ mp		max. Earth dist.	12149 Feb 08 20:45	27° <b>≈</b> 20'33	1.73022 AU
evening max el	12146 Jul 12 08:50	16° Mp 38'06	46°46'22				
Č	12146 Jul 26 11:36	$0 \circ \overline{\mathbf{v}}$		superior conj	12149 Feb 09 20:54	28° <b>≈</b> 35'07	0°33'33
greatest brilliancy	12146 Aug 20 20:12	17° <b>≏</b> 01'36	-4.9m	minimum elong	12149 Feb 10 04:04	28° <b>≈</b> 57'17	0°33'45
retrograde	12146 Aug 31 16:30	19° <b>₽</b> 13'07	,		12149 Feb 11 00:23	0° <b>)</b> €	0 33 .0
desc. node	12146 Sep 09 09:50	17° <b>Ω</b> 40'59		desc. node	12149 Feb 24 02:36	16° <b>)</b> 10′32	
evening set	12146 Sep 15 11:53	14° <b>Ω</b> 56'10		dese. Hode	12149 Mar 07 06:57	0° <b>Υ</b>	
min. Earth dist.	12146 Sep 21 01:34	11° <b>⊆</b> 39'43	0.27583 AU	evening rise	12149 Mar 20 04:28	15° <b>Υ</b> 58'08	
inferior conj	12146 Sep 21 18:13	11° <b>⊆</b> 3943		evening rise	12149 Mar 31 12:07	0° <b>8</b>	
5	=	11° <b>⊆</b> 14'04 11° <b>⊆</b> 24'29				0°II	
minimum elong	12146 Sep 21 11:27		3 03 00		12149 Apr 24 15:56	0°©	
morning rise	12146 Sep 27 11:36	7° <b>£</b> 50'31			12149 May 18 19:38		
direct	12146 Oct 12 16:12	3° <b>Ω</b> 23'42			12149 Jun 12 01:49	0°N	
greatest brilliancy	12146 Oct 22 06:48	5° <b>₾</b> 04'13	-4.8m	asc. node	12149 Jun 16 19:54	5° <b>Ω</b> 51′02	
	12146 Nov 26 22:02	0° <b>™</b>			12149 Jul 06 14:11	0° <b>m</b>	
morning max el	12146 Nov 30 14:51	3° <b>M</b> 30′15	45°51'02		12149 Jul 31 14:26	0∘ <b>⊽</b>	
	12146 Dec 26 07:12	0° <b>∡</b> ¹			12149 Aug 26 14:26	0°M₊	
asc. node	12146 Dec 31 10:31	5° <b>∡</b> ³37'54		evening max el	12149 Sep 21 16:46	27° <b>M</b> 42'37	46°16'32
	12147 Jan 21 23:25	0° <b>ප</b>			12149 Sep 24 00:56	0° <b>∡</b> ¹	
	12147 Feb 16 12:09	0°≈		desc. node	12149 Oct 06 19:25	11° <b>₰</b> 38'14	
	12147 Mar 13 10:07	0° <b>)</b> €		greatest brilliancy	12149 Oct 30 18:36	26° <b>₹</b> ¹59'56	-4.8m
	12147 Apr 06 23:04	$0^{\circ}\mathbf{\Upsilon}$		retrograde	12149 Nov 10 08:56	29° <b>₹</b> 02'41	
desc. node	12147 Apr 22 04:46	18° <b>Ƴ</b> 47'59		evening set	12149 Nov 28 16:52	22° <b>х</b> 42'34	
	12147 May 01 05:36	0° <b>႘</b>		inferior conj	12149 Dec 01 20:24	20° <b>∡</b> ¹45'18	-8°46'10
	12147 May 25 07:17	0°II		minimum elong	12149 Dec 01 20:19		8°45'20
morning set	12147 May 30 23:31	7° <b>Ⅱ</b> 06'11		min. Earth dist.	12149 Dec 01 13:44	20° <b>×</b> 55'46	0.28943 AU
morning sec	12147 Jun 18 05:47	0°99		morning rise	12149 Dec 04 23:53	18° <b>∡</b> 48'27	0.20) 13 110
	1214/ 3411 10 03.4/	<b>0</b>		direct	12149 Dec 23 06:06	10 × 40 27 12° <b>₹</b> 33'37	
superior conj	12147 Jul 10 02:08	27° <b>5</b> 26'09	1010149	greatest brilliancy	12150 Jan 02 10:22	14° × 27'03	-4.7m
		27 \$2009 28°\$01'31		greatest brilliancy		14 <b>x</b> ·2/03	-4. /III
minimum elong	12147 Jul 10 13:24 12147 Jul 10 13:13			1	12150 Jan 27 00:29	0°る43'50	
max. Earth dist.		28°900'58	1.71388 AU	asc. node	12150 Jan 27 21:16		45046147
	12147 Jul 12 03:09	0° <b>N</b>		morning max el	12150 Feb 10 08:13	13° <b>る</b> 02'51	45°46'47
	12147 Aug 05 01:17	0° <b>m</b> )			12150 Feb 26 21:33	0° <b>≈</b>	
asc. node	12147 Aug 12 19:51	9° <b>m</b> 43'42			12150 Mar 25 19:35	0° <b>∀</b>	
evening rise	12147 Aug 19 04:14	17° <b>m</b> 39'44			12150 Apr 20 08:10	0° <b>Υ</b>	
	12147 Aug 29 01:34	0∘ <b>⊽</b>			12150 May 15 03:40	$9^{\circ}$ 8	
	12147 Sep 22 05:09	0° <b>M</b>		desc. node	12150 May 19 18:06	5° <b>8</b> 37'39	
	12147 Oct 16 13:45	0° <b>∡</b> ¹			12150 Jun 08 12:55	$\Pi$ $\circ 0$	
	12147 Nov 10 06:14	0° <b>ප</b>			12150 Jul 02 16:04	$0$ $\circ$ $\odot$	
desc. node	12147 Dec 02 13:59	26° <b>る</b> 37'54			12150 Jul 26 16:24	$0^{\circ}\Omega$	
	12147 Dec 05 10:35	0° <b>≈</b>		morning set	12150 Aug 13 17:03	22° <b>Ω</b> 32′29	
	12147 Dec 31 08:36	0° <b>)</b> €			12150 Aug 19 16:17	0° <b>m</b> y	
	12148 Jan 27 13:14	$0^{\circ}\mathbf{\Upsilon}$		asc. node	12150 Sep 09 09:48	25° m 52'56	
evening max el	12148 Feb 14 10:51	18° <b>Ƴ</b> 17'42	46°05'06		12150 Sep 12 17:05	0∘ <b>⊽</b>	
•	12148 Feb 27 03:15	0°B			•		
asc. node	12148 Mar 24 14:49	17° <b>8</b> 24'28		superior conj	12150 Sep 21 18:21	11° <b>≏</b> 16'51	0°29'30
greatest brilliancy	12148 Mar 25 01:27	17° <b>8</b> 34'00	-4.8m	minimum elong	12150 Sep 21 11:44	10° <b>⊆</b> 56'13	0°29'15
retrograde	12148 Apr 03 22:00	19° <b>8</b> 22'52	1.0111	max. Earth dist.	12150 Sep 24 04:33		1.72213 AU
evening set	12148 Apr 19 17:46	14° <b>8</b> 29'28		max. Earth dist.	12150 Oct 06 19:25	0°M	1.72213710
inferior conj	12148 Apr 24 18:04	11° <b>8</b> 28'33	6°59'18	evening rise	12150 Oct 00 19:25 12150 Oct 29 09:55	28°M02'16	
	-			evening rise		0°×7	
minimum elong	12148 Apr 24 07:11	11° <b>8</b> 45'25	6°56'32		12150 Oct 30 23:58		
min. Earth dist.	12148 Apr 24 17:54	11° <b>8</b> 28'50	0.27592 AU		12150 Nov 24 07:57	0° <b>ට</b>	
morning rise	12148 Apr 28 20:26	8°858'40		J 1	12150 Dec 18 20:48	0°≈	
direct	12148 May 15 15:40	3° <b>8</b> 28'28	4.0	desc. node	12150 Dec 30 01:52	13°≈36'47	
greatest brilliancy	12148 May 25 17:00	5° <b>8</b> 22'50	-4.9m		12151 Jan 12 15:36	0° <b>)</b> €	
	12148 Jun 28 18:36	0°Щ			12151 Feb 06 17:12	0° <b>Υ</b>	
morning max el	12148 Jul 05 04:00	6° <b>Ⅱ</b> 16'38	46°58'16		12151 Mar 04 03:54	0°8	
desc. node	12148 Jul 14 15:57	16° <b>Ⅱ</b> 06'44			12151 Mar 30 07:54	0° <b>I</b> I	
	12148 Jul 27 09:51	0ಂತಾ		asc. node	12151 Apr 22 00:20	24° <b>Ⅱ</b> 33'06	
	12148 Aug 22 13:39	$0^{\circ}\Omega$			12151 Apr 27 08:40	$0$ $\circ$ $\odot$	
	12148 Sep 16 20:21	0° <b>m</b> y		evening max el	12151 Apr 28 05:16	0° <b>©</b> 51'30	46°38'58
	12148 Sep 16 20:21 12148 Oct 11 17:52	0 <b>்⊽</b> 0 <b>்மி</b>		evening max el	12151 Apr 28 05:16 12151 Jun 04 07:20	0° <b>೧</b> 0° <b>೮</b>	46°38'58

greatest brilliancy	12151 Jun 07 16:01	1° <b>Ω</b> 20′24	-4.9m		12153 Nov 14 18:21	0° <b>∡</b> 7	
retrograde	12151 Jun 17 07:50	3° <b>Ω</b> 05'12					
C	12151 Jun 29 17:17	30° <b>₹</b> 5		superior conj	12153 Nov 30 15:24	19° <b>∡</b> ³38'16	1°26'04
evening set	12151 Jul 04 08:08	27°530'23		minimum elong	12153 Nov 30 14:45	19° <b>∡</b> ³36′17	1°26'54
inferior conj	12151 Jul 07 22:48	25°519'07	7°44'29	max. Earth dist.	12153 Dec 01 23:35	21° <b>х</b> 17′42	1.73055 AU
minimum elong	12151 Jul 08 09:12	25°503'08	7°41'50		12153 Dec 09 00:42	5°0	
min. Earth dist.	12151 Jul 08 08:40	25° <b>©</b> 03'57	0.27094 AU		12154 Jan 02 08:35	0° <b>≈</b>	
morning rise	12151 Jul 12 10:17	22° <b>©</b> 37'45		evening rise	12154 Jan 06 15:35	5° <b>≈</b> 16'50	
direct	12151 Jul 28 16:46	17° <b>©</b> 30'50		desc. node	12154 Jan 26 14:49	29° <b>≈</b> 48′50	
greatest brilliancy	12151 Aug 07 15:48	19° <b>5</b> 22'43	-4.9m		12154 Jan 26 18:27	0° <b>)</b>	
desc. node	12151 Aug 12 02:08	21°©15'37			12154 Feb 20 06:03	$0$ ° $\mathbf{\Upsilon}$	
	12151 Aug 25 18:59	$0^{\circ}\Omega$			12154 Mar 16 18:54	$9^{\circ}$ 8	
morning max el	12151 Sep 16 19:56	19° <b>Ω</b> 40'18	46°35'10		12154 Apr 10 09:43	$\Pi^{\circ}0$	
	12151 Sep 26 23:18	0° mp			12154 May 05 05:56	0ං <b>ම</b>	
	12151 Oct 24 09:54	0∘ <b>ত</b>		asc. node	12154 May 19 10:31	16° <b>©</b> 53'13	
	12151 Nov 19 10:50	0°M			12154 May 30 15:08	$0^{\circ}\Omega$	
asc. node	12151 Dec 03 00:37	15°M59'28			12154 Jun 26 06:39	0° <b>m</b>	
	12151 Dec 14 18:55	0° <b>∡</b> ¹		evening max el	12154 Jul 09 22:20	14° <b>m</b> 15'54	46°46'58
	12152 Jan 08 16:26	8°0			12154 Jul 26 18:53	0∘ <b>⊽</b>	
	12152 Feb 02 06:59	0° <b>≈</b>		greatest brilliancy	12154 Aug 18 11:18	14° <b>≏</b> 42'38	-4.9m
	12152 Feb 26 16:58	0° <b>∀</b>		retrograde	12154 Aug 29 06:57	16° <b>≙</b> 54'04	
morning set	12152 Mar 14 09:30	20° <b>)</b> (36′34		desc. node	12154 Sep 08 11:50	14° <b>≏</b> 48'02	
	12152 Mar 21 23:31	$0^{\circ}\mathbf{\Upsilon}$		evening set	12154 Sep 13 01:02	12° <b>≏</b> 38'21	
desc. node	12152 Mar 23 16:35	2° <b>Ƴ</b> 07'13		min. Earth dist.	12154 Sep 18 16:28	9° <b>≙</b> 19'54	0.27532 AU
	12152 Apr 15 02:56	$_{0\circ}$ 8		inferior conj	12154 Sep 19 08:10	8° <b>≏</b> 55'46	-2°43'42
max. Earth dist.	12152 Apr 19 07:58	5° <b>8</b> 14'49	1.71988 AU	minimum elong	12154 Sep 19 02:07	9° <b>£</b> 05'05	2°41'48
				morning rise	12154 Sep 25 03:43	5° <b>≏</b> 29'36	
superior conj	12152 Apr 22 18:30	9° <b>8</b> 32'12	-1°04'57	direct	12154 Oct 10 05:20	1° <b>≏</b> 05'45	
minimum elong	12152 Apr 22 07:11	8° <b>8</b> 56'54	1°05'02	greatest brilliancy	12154 Oct 19 21:09	2° <b>≏</b> 47'31	-4.8m
	12152 May 09 03:30	$\Pi^{\circ}0$			12154 Nov 26 21:36	$0^{\circ}$ M	
evening rise	12152 Jun 01 11:02	29° <b>Ⅱ</b> 12'17		morning max el	12154 Nov 28 05:29	1°ML16'11	45°52'15
	12152 Jun 02 02:16	$0$ $\circ$ $\odot$			12154 Dec 25 22:53	0° <b>∡</b> ¹	
	12152 Jun 26 01:02	$0^{\circ}\Omega$		asc. node	12154 Dec 30 12:36	5° <b>х</b> 02′04	
asc. node	12152 Jul 14 08:23	22° <b>Ω</b> 51′50			12155 Jan 21 12:28	5°0	
	12152 Jul 20 01:56	0° <b>m</b>			12155 Feb 15 24:00	0° <b>≈</b>	
	12152 Aug 13 07:12	0∘ <b>ত</b>			12155 Mar 12 21:23	0° <b>∀</b>	
	12152 Sep 06 19:48	0°M			12155 Apr 06 10:01	$0$ ° $\mathbf{\Upsilon}$	
	12152 Oct 01 20:58	0° <b>∡</b> ¹		desc. node	12155 Apr 21 06:36	18° <b>Ƴ</b> 20′09	
	12152 Oct 27 21:04	ರ°ರ			12155 Apr 30 16:22	$9^{\circ}$ 8	
desc. node	12152 Nov 03 05:09	7° <b>る</b> 03'05			12155 May 24 17:56	$\Pi$ °0	
	12152 Nov 24 21:24	0° <b>≈</b>		morning set	12155 May 28 10:42	4° <b>Ⅱ</b> 37'38	
evening max el	12152 Dec 01 18:21	6° <b>≈</b> 45'53	45°52'01		12155 Jun 17 16:23	0ංම	
	12152 Dec 30 08:44	0° <b>)</b> €					
greatest brilliancy	12153 Jan 09 21:22	5° <b>)</b> €03'30	-4.7m	superior conj	12155 Jul 07 13:41	24°958'28	-1°13'02
retrograde	12153 Jan 19 14:24	6° <b>)</b> 46′35		minimum elong	12155 Jul 08 00:38	25°532'49	1°13'32
evening set	12153 Feb 04 06:09	2° <b>)</b> €04'34		max. Earth dist.	12155 Jul 07 22:28	25°526'03	1.71383 AU
	12153 Feb 07 18:18	30° <b>R</b> ≈			12155 Jul 11 13:44	$0^{\circ}\Omega$	
inferior conj	12153 Feb 09 21:40	28° <b>≈</b> 39'54	-3°28'05		12155 Aug 04 11:54	0° <b>m</b>	
minimum elong	12153 Feb 10 04:56	28° <b>≈</b> 28'30	3°25'30	asc. node	12155 Aug 11 21:44	9° Mp 16′22	
min. Earth dist.	12153 Feb 10 11:01	28° <b>≈</b> 18'56	0.28428 AU	evening rise	12155 Aug 16 17:05	15° <b>m</b> 16'48	
morning rise	12153 Feb 16 03:11	24° <b>≈</b> 54'26			12155 Aug 28 12:14	0∘ <b>⊽</b>	
asc. node	12153 Feb 24 07:09	21° <b>≈</b> 25′27			12155 Sep 21 15:55	$0^{\circ}$ M	
direct	12153 Mar 03 04:26	20° <b>≈</b> 28′00			12155 Oct 16 00:44	0° <b>∡</b> ¹	
greatest brilliancy	12153 Mar 14 03:26	22° <b>≈</b> 40′10	-4.8m		12155 Nov 09 17:39	0°ರ	
	12153 Mar 27 09:17	0° <b>)</b> €		desc. node	12155 Dec 01 16:02	26° <b>පි</b> 08'12	
morning max el	12153 Apr 21 23:50	22° <b>升</b> 12′28	46°25'14		12155 Dec 04 22:49	0°≈	
	12153 Apr 29 15:28	$0$ ° $\mathbf{\Upsilon}$			12155 Dec 30 22:27	0° <b>∀</b>	
	12153 May 26 22:03	$9^{\circ}$ 8			12156 Jan 27 06:44	$0^{\circ}\mathbf{\Upsilon}$	
desc. node	12153 Jun 16 06:41	23° <b>8</b> 47'00		evening max el	12156 Feb 12 02:09	16° <b>Ƴ</b> 04'00	46°04'01
	12153 Jun 21 11:53	$\Pi^{\circ}0$			12156 Feb 27 10:11	$9^{\circ}$ 8	
	12153 Jul 16 07:18	0ංම		greatest brilliancy	12156 Mar 22 14:02	15° <b>8</b> 13'26	-4.8m
	12153 Aug 09 17:54	$0^{\circ}\Omega$		asc. node	12156 Mar 23 16:44	15° <b>8</b> 35'49	
	12153 Sep 03 00:54	0° <b>m</b>		retrograde	12156 Apr 01 12:11	17° <b>8</b> 03'12	
	12153 Sep 27 06:52	0∘ <b>⊽</b>		evening set	12156 Apr 17 04:01	12° <b>8</b> 14'40	
asc. node	12153 Oct 06 23:50	12° <b>≏</b> 00'46		inferior conj	12156 Apr 22 07:56	9° <b>8</b> 08'22	6°43'44
	12153 Oct 21 12:36	$0^{\circ}$ M.		minimum elong	12156 Apr 21 21:00	9° <b>8</b> 25'19	6°40'54
morning set	12153 Oct 24 10:20	3°M35'51		min. Earth dist.	12156 Apr 22 07:22	9° <b>8</b> 09'15	0.27610 AU

morning rise	12156 Apr 26 13:51	6° <b>8</b> 33'23			12158 Dec 18 07:48	0° <b>≈</b>	
direct	12156 May 13 06:26	1° <b>8</b> 08'05		desc. node	12158 Dec 29 03:52	0 ∞ 13°≈08'57	
greatest brilliancy	12156 May 23 07:07	3° <b>8</b> 02'15	-4 9m	dese. Hode	12159 Jan 12 03:03	0° <b>∺</b>	
greatest of illiancy	12156 Jun 28 18:58	0°II	4.7111		12159 Feb 06 05:22	0° <b>Υ</b>	
morning max el	12156 Jul 02 18:59	3° <b>Ⅱ</b> 58'02	46°57'57		12159 Mar 03 17:21	0°8	
desc. node	12156 Jul 13 18:00	15° <b>I</b> I21'29	.0 0,0,		12159 Mar 29 23:52	0°II	
acse. noue	12156 Jul 27 02:22	0ಂತ		asc. node	12159 Apr 21 02:19	23° <b>I</b> I44'59	
	12156 Aug 22 03:28	0°N		evening max el	12159 Apr 25 18:01	28° <b>I</b> I27'23	46°37'46
	12156 Sep 16 08:49	0°m)			12159 Apr 27 07:24	0°ಅ	
	12156 Oct 11 05:30	0∘ <del>⊽</del>		greatest brilliancy	12159 Jun 05 06:01	28° <b>9</b> 57'05	-4.9m
asc. node	12156 Nov 03 13:36	28° <b>£</b> 23'13		8	12159 Jun 08 21:57	$0^{\circ}\Omega$	
	12156 Nov 04 21:19	0° <b>M</b> .		retrograde	12159 Jun 14 19:57	0° <b>Ω</b> 40'32	
	12156 Nov 29 09:34	0° <b>∡</b> 7		C	12159 Jun 20 14:29	30° <b>ℝ</b> ∽	
	12156 Dec 23 19:12	8°0		evening set	12159 Jul 02 00:36	25°500'39	
morning set	12157 Jan 01 13:03	10° <b>පි</b> 46'11		inferior conj	12159 Jul 05 11:42	22° <b>©</b> 54'33	7°57'16
	12157 Jan 17 03:21	0° <b>≈</b>		minimum elong	12159 Jul 05 21:41	22°539'12	7°54'47
max. Earth dist.	12157 Feb 06 16:47	25° <b>≈</b> 22'13	1.73040 AU	min. Earth dist.	12159 Jul 05 22:02	22° <b>©</b> 38'40	0.27113 AU
				morning rise	12159 Jul 09 18:43	20°519'16	
superior conj	12157 Feb 07 13:06	26° <b>≈</b> 24'55	0°36'39	direct	12159 Jul 26 05:21	15° <b>©</b> 05'46	
minimum elong	12157 Feb 07 20:47	26° <b>≈</b> 48'38	0°36'51	greatest brilliancy	12159 Aug 05 05:13	16° <b>©</b> 58'01	-4.9m
	12157 Feb 10 10:47	0° <b>∀</b>		desc. node	12159 Aug 11 04:05	19° <b>©</b> 37'13	
desc. node	12157 Feb 23 04:25	15° <b>)</b> 43′56			12159 Aug 26 09:25	$0^{\circ}\Omega$	
	12157 Mar 06 17:25	$0^{\circ}\mathbf{\Upsilon}$		morning max el	12159 Sep 14 08:27	17° <b>Ω</b> 15'31	46°36'40
evening rise	12157 Mar 17 19:35	13° <b>Y</b> 43'34			12159 Sep 26 18:39	0° <b>m</b> )	
	12157 Mar 30 22:46	$9^{\circ}$ 8			12159 Oct 24 00:49	0∘ <b>⊽</b>	
	12157 Apr 24 02:49	$\Pi$ $^{\circ}0$			12159 Nov 18 23:48	$0^{\circ}$ M	
	12157 May 18 06:50	$0$ $\circ$ $\odot$		asc. node	12159 Dec 02 02:40	15°M28'59	
	12157 Jun 11 13:27	$0^{\circ}\Omega$			12159 Dec 14 06:49	0° <b>∡</b> ¹	
asc. node	12157 Jun 15 21:54	5° <b>Ω</b> 21'07			12160 Jan 08 03:43	0°ಕ	
	12157 Jul 06 02:28	0° <b>m</b>			12160 Feb 01 17:56	0° <b>≈</b>	
	12157 Jul 31 03:52	0∘ <b>⊽</b>			12160 Feb 26 03:43	0° <b>∀</b>	
	12157 Aug 26 06:18	0°M₊		morning set	12160 Mar 12 00:20	18° <b>¥</b> 20′52	
evening max el	12157 Sep 19 08:52	25°M30'20	46°17'43		12160 Mar 21 10:11	0° <b>Υ</b>	
	12157 Sep 24 00:01	0° <b>∡</b>		desc. node	12160 Mar 22 18:27	1° <b>Ƴ</b> 39'58	
desc. node	12157 Oct 05 21:20	10° <b>∡</b> ³37′09			12160 Apr 14 13:36	0° <b>8</b>	
greatest brilliancy	12157 Oct 28 09:40	24° <b>∡</b> ¹48'08	-4.8m	max. Earth dist.	12160 Apr 16 20:47	2° <b>8</b> 51'56	1.72029 AU
retrograde	12157 Nov 08 00:55	26° <b>₹</b> 51'27					
evening set	12157 Nov 26 07:49	20° 🗷 33'05	0.00010.177	superior conj	12160 Apr 20 07:44	7° <b>8</b> 10'30	
min. Earth dist.	12157 Nov 29 04:12	18° <b>₹</b> 46'55	0.28919 AU	minimum elong	12160 Apr 19 20:23	6° <b>8</b> 35'10	1°02'26
inferior conj	12157 Nov 29 12:13	18° <b>₹</b> 34'21			12160 May 08 14:13	0°II	
minimum elong	12157 Nov 29 11:21	18° 🖈 35'43	8°45'05	evening rise	12160 May 29 22:57	26° <b>Ⅱ</b> 45'24	
morning rise	12157 Dec 02 15:00	16° <b>₹</b> 38′28			12160 Jun 01 13:04	$0$ ಂ $\Omega$	
direct	12157 Dec 20 22:11	10° <b>х</b> 23′27 12° <b>х</b> 14′52	-4.7m	asc. node	12160 Jun 25 11:59 12160 Jul 13 10:14	22° <b>Ω</b> 22'57	
greatest brilliancy asc. node	12157 Dec 31 00:09 12158 Jan 26 23:11	12 <b>x</b> ·14 32 29° <b>x</b> 46′10	-4./111	asc. node	12160 Jul 13 10:14 12160 Jul 19 13:06	0° <b>m</b>	
asc. node	12158 Jan 27 05:34	29 X 40 10			12160 Aug 12 18:42	0∘ <b>⊽</b>	
morning max el	12158 Feb 07 23:16	10°る50'10	45°46'06		12100 Aug 12 16.42	0 ==	
morning max ci	12130100 0/ 23.10	10 00010			12160 Sep. 06, 07:51	o∘m.	
	12158 Feb. 26, 14:27	0°&	13 10 00		12160 Sep 06 07:51	0°M 0° <b>∡</b> 7	
	12158 Feb 26 14:27 12158 Mar 25 09:16	0° <b>≈</b> 0° <b>∀</b>	15 10 00		12160 Oct 01 09:57	0° <b>∡</b> ¹	
	12158 Mar 25 09:16	0° <b>₩</b>	15 16 00	desc node	12160 Oct 01 09:57 12160 Oct 27 12:02	0° <b>♂</b> 0° <b>♂</b>	
	12158 Mar 25 09:16 12158 Apr 19 20:28	0° <b>ℋ</b> 0° <b>Ƴ</b>	15 10 00	desc. node	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15	0° <b>メ</b> 0° <b>る</b> 6° <b>る</b> 25'33	
desc node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17	0° <b>∀</b> 0° <b>∀</b>	15 10 00		12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40	0°♂ 0°♂ 6°♂25'33 0°≈	45°52'22
desc. node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06	0°光 0°Y 0°8 5°808'25	15 1000	desc. node evening max el	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11	0° <b>メ</b> 0° <b>る</b> 6° <b>る</b> 25'33	45°52'22
desc. node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10	0°光 0°Y 0°8 5°808'25 0°耳	15 1000	evening max el	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19	0°♂ 0°♂ 6°♂25'33 0°≈ 4°≈30'02 0°∺	
desc. node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07	0°₩ 0°Υ 0°℧ 5°℧08'25 0°Ⅲ 0°©	15 1000	evening max el greatest brilliancy	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29	0°♂ 0°♂ 6°♂25'33 0°≈ 4°≈30'02	
desc. node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10	0°₩ 0°Υ 0°႘ 5°႘08'25 0°Щ	15 1000	evening max el	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19	0°♂ 0°♂ 6°♂25'33 0°≈ 4°≈30'02 0°升 2°升50'54	
	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17	0°₩ 0°Ψ 0°₩ 5°₩08'25 0°Ш 0°ॐ	15 1000	evening max el greatest brilliancy retrograde	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27	0°ダ 0°る 6°る25'33 0°≈ 4°≈30'02 0°升 2°升50'54 4°升34'19	
	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08	0°¥ 0°Y 0°8 5°808'25 0°II 0°© 0°Ω 20°Ω09'45		evening max el greatest brilliancy retrograde	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50	0°♂ 0°♂ 6°♂25'33 0°≈ 4°≈30'02 0°ℋ 2°ℋ50'54 4°ℋ34'19 29°≈48'17	-4.7m
morning set	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01	0° H 0° Y 0° B 5° B08'25 0° II 0° S 0° A 20° A09'45 0° III		evening max el greatest brilliancy retrograde evening set	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 01 15:26	0°♂ 0°♂ 6°♂25'33 0°≈ 4°≈30'02 0°ℋ 2°ℋ50'54 4°ℋ34'19 29°≈48'17 30°R≈	-4.7m -3°47'22
morning set	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34	0°¥ 0°Y 0°8 5°808'25 0°II 0°© 0°Ω 20°Ω09'45 0°II 25°ID25'17		evening max el greatest brilliancy retrograde evening set inferior conj	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₹ 2° ₹ 50'54 4° ₹ 34'19 29° ≈ 48'17 30° ₹ ≈ 26' ≈ 26'55	-4.7m -3°47'22
morning set	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34	0°¥ 0°Y 0°8 5°808'25 0°II 0°© 0°Ω 20°Ω09'45 0°II 25°ID25'17		evening max el greatest brilliancy retrograde evening set inferior conj minimum elong	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 07 20:59	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₹ 2° ₹ 50'54 4° ₹ 34'19 29° ≈ 48'17 30° ₹ ≈ 26° ≈ 26'55 26° ≈ 14'40	-4.7m -3°47'22 3°44'38
morning set asc. node	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42	0°¥ 0°Y 0°B 5°B08'25 0°II 0°S 0°A 20°A09'45 0°M 25°M25'17 0°•		evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 07 20:59 12161 Feb 08 02:57	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₹ 2° ₹ 50'54 4° ₹ 34'19 29° ₹ 48'17 30° ₹ 26° ₹ 26'55 26° ₹ 14'40 26° ₹ 05'19	-4.7m -3°47'22 3°44'38
morning set asc. node superior conj	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42	0° ₩ 0° ♥ 0° ♥ 5° ♥08'25 0° Ⅲ 0° Φ 20° Ω09'45 0° ₥ 25° ₥25'17 0° Φ 8° Φ58'43	0°26'04	evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 07 20:59 12161 Feb 08 02:57 12161 Feb 13 17:35	0°ズ 0°る 6°る25'33 0°≈ 4°≈30'02 0°光 2°光50'54 4°光34'19 29°≈48'17 30°R≈ 26°≈26'55 26°≈14'40 26°≈05'19 22°≈43'05	-4.7m -3°47'22 3°44'38
morning set asc. node superior conj minimum elong	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42 12158 Sep 19 08:36 12158 Sep 19 02:39	0°\ 0°\ 0°\ 0°\ 5°\ 5°\ 0°\ 0°\ 0°\ 20°\ 00'\ 20°\ 00'\ 25°\ 0°\ 25°\ 0°\ 25°\ 0°\ 25'\ 0°\ 25'\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 25'\ 17\ 0°\ 17\ 0°\ 17\ 17\ 0°\ 0°\ 17\ 17\ 17\ 17\ 17\ 17\ 17\ 17\ 17\ 17	0°26'04 0°25'50	evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node	12160 Oct 01 09:57 12160 Oct 27 12:02 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 07 20:59 12161 Feb 08 02:57 12161 Feb 13 17:35 12161 Feb 23 09:07	0°ズ 0°る 6°る25'33 0°≈ 4°≈30'02 0°光 2°光50'54 4°光34'19 29°≈48'17 30°R≈ 26°≈26'55 26°≈14'40 26°≈05'19 22°≈43'05 18°≈50'22 18°≈14'22 20°≈27'50	-4.7m -3°47'22 3°44'38
morning set asc. node superior conj minimum elong	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42  12158 Sep 19 02:39 12158 Sep 21 20:59 12158 Oct 06 05:59 12158 Oct 06 05:59	0°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 5°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 20°\(\cdot\) 0°\(\cdot\) 25°\(\cdot\) 25°\(\cdot\) 25°\(\cdot\) 25°\(\cdot\) 8°\(\cdot\) 8°\(\cdot\) 8°\(\cdot\) 8°\(\cdot\) 43 8°\(\cdot\) 40'11 12°\(\cdot\) 06'46	0°26'04 0°25'50	evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	12160 Oct 01 09:57 12160 Nov 02 07:15 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 08 02:57 12161 Feb 13 17:35 12161 Feb 23 09:07 12161 Feb 28 19:48 12161 Mar 11 20:13 12161 Mar 28 03:08	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₩ 2° ₩ 50'54 4° ₩ 34'19 29° ₹ 48'17 30° ₹ 26° ₹ 26' \$ 26' \$ 26' \$ 26' \$ 20' \$ 43'05 18° ₹ 50'22 18° ₹ 14'22 20° ₹ 27'50 0° ₩	-4.7m -3°47'22 3°44'38 0.28466 AU -4.8m
morning set asc. node superior conj minimum elong max. Earth dist.	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42 12158 Sep 19 02:39 12158 Sep 21 20:59 12158 Oct 06 05:59	0° \( \) 0° \( \) 0° \( \) 0° \( \) 5° \( \) 08'25 0° \( \) 1 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 17 0° \( \) 8° \( \) 25° \( \) 17 0° \( \) 25° \( \) 25' \( \) 25' \( \) 25' \( \) 25' \( \) 25' \( \) 11 12° \( \) 206'46 0° \( \) 11 25° \( \) 150'41 0° \( \) 7	0°26'04 0°25'50	evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct	12160 Oct 01 09:57 12160 Nov 02 07:15 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Jan 17 05:27 12161 Feb 01 23:50 12161 Feb 07 13:10 12161 Feb 07 20:59 12161 Feb 08 02:57 12161 Feb 13 17:35 12161 Feb 23 09:07 12161 Feb 28 19:48 12161 Mar 11 20:13 12161 Mar 28 03:08 12161 Apr 19 14:59	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₹ 2° ₹ 50'54 4° ₹ 34'19 29° ₹ 48'17 30° ₹ 26° ₹ 26' 55 26° ₹ 14'40 26° ₹ 50'22 18° ₹ 19° ₹ 56'33	-4.7m -3°47'22 3°44'38 0.28466 AU
morning set asc. node superior conj minimum elong max. Earth dist.	12158 Mar 25 09:16 12158 Apr 19 20:28 12158 May 14 15:17 12158 May 18 20:06 12158 Jun 08 00:10 12158 Jul 02 03:07 12158 Jul 26 03:17 12158 Aug 11 06:08 12158 Aug 19 03:01 12158 Sep 08 11:34 12158 Sep 12 03:42  12158 Sep 19 02:39 12158 Sep 21 20:59 12158 Oct 06 05:59 12158 Oct 06 05:59	0°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 5°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 0°\(\cdot\) 20°\(\cdot\) 0°\(\cdot\) 25°\(\cdot\) 25°\(\cdot\) 25°\(\cdot\) 8°\(\overline{\Delta}\) 8°\(\overline{\Delta}\) 8°\(\overline{\Delta}\) 12°\(\overline{\Delta}\) 0°\(\overline{\Delta}\) 25°\(\overline{\Delta}\) 25°\(\overline{\Delta}\) 25°\(\overline{\Delta}\)	0°26'04 0°25'50	evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise asc. node direct greatest brilliancy	12160 Oct 01 09:57 12160 Nov 02 07:15 12160 Nov 02 07:15 12160 Nov 24 17:40 12160 Nov 29 08:11 12160 Dec 31 22:19 12161 Jan 07 12:29 12161 Feb 01 23:50 12161 Feb 01 15:26 12161 Feb 07 13:10 12161 Feb 08 02:57 12161 Feb 13 17:35 12161 Feb 23 09:07 12161 Feb 28 19:48 12161 Mar 11 20:13 12161 Mar 28 03:08	0° ₹ 0° ₹ 25'33 0° ₹ 4° ₹ 30'02 0° ₩ 2° ₩ 50'54 4° ₩ 34'19 29° ₹ 48'17 30° ₹ 26° ₹ 26' \$ 26' \$ 26' \$ 26' \$ 20' \$ 43'05 18° ₹ 50'22 18° ₹ 14'22 20° ₹ 27'50 0° ₩	-4.7m -3°47'22 3°44'38 0.28466 AU -4.8m

	12161 May 26 12:52	0° <b>႘</b>			12163 Dec 04 11:36	0° <b>≈</b>	
1 1	-					0° <b>∺</b>	
desc. node	12161 Jun 15 08:41	23° <b>8</b> 13'23			12163 Dec 30 13:00		
	12161 Jun 21 00:56	0°II			12164 Jan 27 01:14	0° <b>Υ</b>	46000100
	12161 Jul 15 19:26	0°©		evening max el	12164 Feb 09 17:34	13° <b>Y</b> 49'11	46°03'03
	12161 Aug 09 05:29	$0$ $^{\circ}\Omega$			12164 Feb 27 20:30	0°8	
	12161 Sep 02 12:10	0° <b>m</b> )		greatest brilliancy	12164 Mar 20 03:09	12° <b>8</b> 52'22	-4.8m
	12161 Sep 26 17:53	0∘ <b>⊽</b>		asc. node	12164 Mar 22 18:46	13° <b>8</b> 41'44	
asc. node	12161 Oct 06 01:45	11° <b>≏</b> 32'54		retrograde	12164 Mar 30 02:03	14° <b>8</b> 42'12	
	12161 Oct 20 23:26	$0^{\circ}$ M		evening set	12164 Apr 14 14:32	9° <b>8</b> 58'36	
morning set	12161 Oct 22 01:48	1°M21'38		inferior conj	12164 Apr 19 21:49	6° <b>႘</b> 47'09	
	12161 Nov 14 05:04	0° <b>∡</b> ¹		minimum elong	12164 Apr 19 10:54	7° <b>と</b> 04'05	6°24'37
				min. Earth dist.	12164 Apr 19 21:03	6° <b>8</b> 48'20	0.27625 AU
superior conj	12161 Nov 28 08:14	17° <b>∡</b> ¹28'57	1°25'54	morning rise	12164 Apr 24 07:10	4° <b>8</b> 06'58	
minimum elong	12161 Nov 28 06:49	17° <b>∡</b> °24'35	1°26'43		12164 May 03 03:58	30° <b>₹Ƴ</b>	
max. Earth dist.	12161 Nov 29 16:48	19° <b>₮</b> 09'34	1.73039 AU	direct	12164 May 10 21:09	28° <b>Ƴ</b> 46'48	
	12161 Dec 08 11:23	8°0			12164 May 18 20:10	$_{0\circ}$ 8	
	12162 Jan 01 19:19	0° <b>≈</b>		greatest brilliancy	12164 May 20 21:16	0° <b>8</b> 40'32	-4.9m
evening rise	12162 Jan 04 07:52	3° <b>≈</b> 06'14			12164 Jun 28 18:38	$\Pi^{\circ}$ 0	
desc. node	12162 Jan 25 16:35	29° <b>≈</b> 20'46		morning max el	12164 Jun 30 09:07	1° <b>Ⅲ</b> 36′15	46°57'37
	12162 Jan 26 05:23	0° <b>∀</b>		desc. node	12164 Jul 12 19:50	14° <b>Ⅱ</b> 35′20	
	12162 Feb 19 17:16	$0^{\circ}\mathbf{\Upsilon}$			12164 Jul 26 18:56	0°ಲ	
	12162 Mar 16 06:31	0° <b>႘</b>			12164 Aug 21 17:28	$0^{\circ}\Omega$	
	12162 Apr 09 21:55	0°II			12164 Sep 15 21:30	0° <b>m</b> )	
	12162 May 04 19:02	0°©			12164 Oct 10 17:23	0∘ <del>⊽</del>	
asc. node	12162 May 18 12:35	16°9518'16		asc. node	12164 Nov 02 15:34	ა — 27° <b>ჲ</b> 54'31	
use. Hous	12162 May 30 05:55	0° <b>Ω</b>		use. Houe	12164 Nov 04 08:40	0°M	
	12162 Jun 26 01:17	0° m)			12164 Nov 28 20:36	0° <b>⊼</b> ″	
evening max el	12162 Jul 07 12:33	11° Mp 55'07	46°47'32		12164 Dec 23 06:04	% ਨ∘ਹ	
evening max er	12162 Jul 27 05:10	0∘ <b>⊽</b>	40 47 32	morning set	12164 Dec 30 06:16	8° <b>る</b> 37'59	
greatest brilliancy	12162 Aug 16 01:41	0 <b>—</b> 12° <b>Ω</b> 22'09	-4.9m	morning set	12165 Jan 16 14:10	0°≈	
retrograde	12162 Aug 16 01:41 12162 Aug 26 21:44	12 <b>=</b> 22 09 14° <b>£</b> 34'02	-4.9111	max. Earth dist.	12165 Feb 04 10:09		1.73058 AU
desc. node	-	14 <b>⊆</b> 34 02 11° <b>⊆</b> 49'34		max. Earth dist.	12103 160 04 10.09	23 214 19	1.73038 AU
	12162 Sep 07 13:46				12165 E-1 05 05:02	24912120	0920144
evening set	12162 Sep 10 14:21	10° <b>£</b> 19'13	2021142	superior conj	12165 Feb 05 05:03	24°≈12'39	0°39'44
inferior conj	12162 Sep 16 22:03	6° <b>2</b> 36'11		minimum elong	12165 Feb 05 13:11	24° <b>≈</b> 37'45	0°39'55
minimum elong	12162 Sep 16 16:44	6° <b>£</b> 44'21	2°20'04	1 1	12165 Feb 09 21:36	0° <b>)</b> {	
min. Earth dist.	12162 Sep 16 06:58	6° <b>₽</b> 59'18	0.27489 AU	desc. node	12165 Feb 22 06:15	15° <b>)</b> € 16'05	
morning rise	12162 Sep 22 19:40	3° <b>₾</b> 07'42			12165 Mar 06 04:19	0°Υ	
	12162 Sep 29 23:32	30°R, Mp		evening rise	12165 Mar 15 10:18	11° <b>Y</b> ′26′37	
direct	12162 Oct 07 19:02	28° <b>m</b> 46'31			12165 Mar 30 09:48	0° <b>8</b>	
	12162 Oct 15 22:12	0∘ <b>⊽</b>			12165 Apr 23 14:05	0°П	
greatest brilliancy	12162 Oct 17 11:06	0° <b>ჲ</b> 29'01	-4.8m		12165 May 17 18:26	0°®	
morning max el	12162 Nov 25 20:40	29° <b>≏</b> 01'59	45°53'16		12165 Jun 11 01:29	$0$ ° $\Omega$	
	12162 Nov 26 20:43	0°M₊		asc. node	12165 Jun 14 23:45	4° <b>Ω</b> 49'34	
	12162 Dec 25 14:50	0° <b>∡</b>			12165 Jul 05 15:10	0° <b>m</b> )	
asc. node	12162 Dec 29 14:30	4° <b>∡</b> ¹24'32			12165 Jul 30 17:46	0∘ <b>⊽</b>	
	12163 Jan 21 01:54	8°0			12165 Aug 25 22:45	0° <b>M</b>	
	12163 Feb 15 12:15	0° <b>≈</b>		evening max el	12165 Sep 17 00:07	23°M15'00	46°18'56
	12163 Mar 12 09:01	0° <b>)</b>			12165 Sep 24 00:31	0° <b>∡</b> ¹	
	12163 Apr 05 21:19	$0^{\circ}$ Y		desc. node	12165 Oct 04 23:26	9° <b>∡</b> ³34'19	
desc. node	12163 Apr 20 08:30	17° <b>Ƴ</b> 51'33		greatest brilliancy	12165 Oct 26 01:16	22° <b>∡</b> ³36′14	-4.8m
	12163 Apr 30 03:29	0°B		retrograde	12165 Nov 05 16:30	24° <b>₹</b> 39'39	
	12163 May 24 04:56	$\Pi^{\circ}0$		evening set	12165 Nov 23 22:25	18° <b>∡</b> ′23'45	
morning set	12163 May 25 22:02	2° <b>Ⅲ</b> 08'30		inferior conj	12165 Nov 27 04:07	16° <b>∡</b> ¹22'55	-8°44'48
	12163 Jun 17 03:19	$0$ $\circ$ $\odot$		minimum elong	12165 Nov 27 02:26	16° <b>∡</b> ¹25'33	8°43'57
				min. Earth dist.	12165 Nov 26 19:03	16° <b>∡</b> ³37'10	0.28895 AU
superior conj	12163 Jul 05 01:28	22° <b>5</b> 30'29	-1°15'06	morning rise	12165 Nov 30 06:35	14° <b>∡</b> ¹27'22	
minimum elong	12163 Jul 05 11:59	23° <b>5</b> 03'29	1°15'39	direct	12165 Dec 18 13:58	8° <b>∡</b> 12'43	
max. Earth dist.	12163 Jul 05 09:15	22° <b>©</b> 54'53	1.71374 AU	greatest brilliancy	12165 Dec 28 14:32	10° <b>∡</b> °02'32	-4.7m
	12163 Jul 11 00:39	$0^{\circ}\Omega$		asc. node	12166 Jan 26 01:08	28° <b>∡</b> ¹48'57	
	12163 Aug 03 22:48	0° m)			12166 Jan 27 09:14	0°ਰ	
asc. node	12163 Aug 10 23:30	8° mp 47'50		morning max el	12166 Feb 05 13:28	8° <b>ರ</b> 34'16	45°45'18
evening rise	12163 Aug 14 06:10	12° m 53'40		<i>5</i> v.	12166 Feb 26 07:26	0° <b>≈</b>	- *
	12163 Aug 27 23:10	ე° <b>ჲ</b>			12166 Mar 24 23:14	0° <b>∀</b>	
	12163 Sep 21 02:59	0°M			12166 Apr 19 09:06	0° <b>Υ</b>	
	12163 Oct 15 12:05	0° <b>×</b> 7			12166 May 14 03:13	0°8	
	12163 Nov 09 05:31	0°ਰ		desc. node	12166 May 17 22:03	4° <b>8</b> 38'05	
desc. node	12163 Nov 30 17:57	25° <b>පි</b> 36'37		acoc. noue	12166 Jun 07 11:42	4 <b>O</b> 38 03	
acse. mode	12105 1107 50 17.57	20 00001			.2100 Jun 0/ 11.72	ν д	

morning set	12166 Jul 01 14:24 12166 Jul 25 14:23 12166 Aug 08 19:06 12166 Aug 18 13:59	0°© 0°Ω 17°Ω45'46 0°M		evening set inferior conj minimum elong	12169 Jan 25 20:08 12169 Jan 30 17:48 12169 Feb 05 04:51 12169 Feb 05 13:09	30°R≈ 27°≈32'48 24°≈14'45 24°≈01'44	
asc. node	12166 Sep 07 13:30 12166 Sep 11 14:34	24° Mp 57′20 0° <u>Ω</u>		min. Earth dist. morning rise asc. node	12169 Feb 05 18:36 12169 Feb 11 08:01 12169 Feb 22 11:08	23°≈53'13 20°≈32'57 16°≈21'24	0.28506 AU
superior conj	12166 Sep 16 22:56	6° <b>£</b> 40'00	0°22'37	direct	12169 Feb 26 11:44	16°≈01'43	
minimum elong	12166 Sep 16 17:42	6° <b>£</b> 23'43		greatest brilliancy	12169 Mar 09 12:32	18°≈15'48	-4.8m
max. Earth dist.	12166 Sep 19 11:13 12166 Oct 05 16:49	9° <b>亞</b> 47'47 0° <b>ጤ</b>	1.72133 AU	morning max el	12169 Mar 28 16:10 12169 Apr 17 07:02	0° <b>∺</b> 17° <b>∺</b> 43'13	46°22'12
evening rise	12166 Oct 24 18:15	23°MJ38'51		morning max er	12169 Apr 29 05:16	0° <b>Υ</b>	40 22 12
<i>5</i> 11	12166 Oct 29 21:26	0° <b>∡</b> 7			12169 May 26 03:34	0°8	
	12166 Nov 23 05:39	ರ°0		desc. node	12169 Jun 14 10:29	22° <b>8</b> 39'05	
	12166 Dec 17 19:02	0° <b>≈</b>			12169 Jun 20 13:59	$\Pi$ °0	
desc. node	12166 Dec 28 05:42	12°≈39'56			12169 Jul 15 07:35	0°©	
	12167 Jan 11 14:46	0° <b>∀</b> 0° <b>Υ</b>			12169 Aug 08 17:06	0° <b>N</b>	
	12167 Feb 05 17:55 12167 Mar 03 07:17	0.8 0.1			12169 Sep 01 23:23 12169 Sep 26 04:50	0 <b>்⊽</b> 0 <b>்மி</b>	
	12167 Mar 29 16:32	0°II		asc. node	12169 Oct 05 03:38	0 <b>−</b> 11° <b>≏</b> 05'09	
asc. node	12167 Apr 20 04:24	22° <b>Ⅲ</b> 55'16		morning set	12169 Oct 19 17:17	29° <b>≙</b> 07'41	
evening max el	12167 Apr 23 05:56	26° <b>Ⅱ</b> 00′08	46°36'42		12169 Oct 20 10:11	0° <b>M</b>	
	12167 Apr 27 07:39	0ංම			12169 Nov 13 15:41	0° <b>∡</b> ¹	
greatest brilliancy	12167 Jun 02 19:52	26°532'36	-4.9m				
retrograde	12167 Jun 12 08:15	28°515'12		superior conj	12169 Nov 26 01:11	15° <b>x</b> 20'15	
evening set inferior conj	12167 Jun 29 16:55 12167 Jul 03 00:33	22° <b>©</b> 30'01 20° <b>©</b> 29'09	8°09'03	minimum elong max. Earth dist.	12169 Nov 25 23:02 12169 Nov 27 11:34	15° <b>₹</b> 13'34 17° <b>₹</b> 06'32	1°26'25 1.73020 AU
minimum elong	12167 Jul 03 10:02	20° <b>©</b> 14'34	8°06'46	max. Earth dist.	12169 Dec 07 21:57	17 × 00 32 0°る	1.75020 AU
min. Earth dist.	12167 Jul 03 11:17	20°512'38	0.27130 AU		12170 Jan 01 05:57	0° <b>≈</b>	
morning rise	12167 Jul 07 03:05	18° <b>©</b> 00'16		evening rise	12170 Jan 02 00:28	0° <b>≈</b> 56'57	
direct	12167 Jul 23 17:38	12° <b>5</b> 39'44		desc. node	12170 Jan 24 18:29	28° <b>≈</b> 53'34	
greatest brilliancy	12167 Aug 02 18:42	14°532'50	-4.9m		12170 Jan 25 16:10	0° <b>∺</b>	
desc. node	12167 Aug 10 06:07	18° <b>©</b> 01'57			12170 Feb 19 04:19	0° <b>Υ</b>	
morning max el	12167 Aug 26 20:26 12167 Sep 11 21:25	0° <b>Ω</b> 14° <b>Ω</b> 51'16	46°38'14		12170 Mar 15 17:58 12170 Apr 09 09:59	$\mathfrak{g}_{\circ 0}$	
morning max cr	12167 Sep 26 13:38	0° <b>m</b> )	40 30 14		12170 May 04 08:07	0°©	
	12167 Oct 23 15:41	0∘ <b>⊽</b>		asc. node	12170 May 17 14:25	15° <b>©</b> 42'39	
	12167 Nov 18 12:47	0° <b>M</b>			12170 May 29 20:52	$0^{\circ}\Omega$	
asc. node	12167 Dec 01 04:29	14°M57'39			12170 Jun 25 20:29	0° <b>m</b>	
	12167 Dec 13 18:46	0° <b>∡</b>		evening max el	12170 Jul 05 03:34	9° <b>m</b> 36'11	46°48'00
	12168 Jan 07 15:04	0° <b>云</b> 0°≈		greatest brilliancy	12170 Jul 27 19:10	0∘ <b>⊽</b>	4.0
	12168 Feb 01 04:55 12168 Feb 25 14:33	0° <b>∺</b>		retrograde	12170 Aug 13 15:58 12170 Aug 24 12:33	10° <b>Ω</b> 01'11 12° <b>Ω</b> 13'11	-4.9m
morning set	12168 Mar 09 15:11	16° <b>∺</b> 04'53		desc. node	12170 Aug 24 12:53 12170 Sep 06 15:51	8° <b>≏</b> 45'58	
8	12168 Mar 20 21:00	$0^{\circ}\mathbf{\Upsilon}$		evening set	12170 Sep 08 03:43	7° <b>₽</b> 59'23	
desc. node	12168 Mar 21 20:24	1° <b>Ƴ</b> 12'30		inferior conj	12170 Sep 14 11:40	4° <b>≙</b> 16′00	-1°59'22
	12168 Apr 14 00:27	0°8		minimum elong	12170 Sep 14 07:08	4° <b>≙</b> 22'57	
max. Earth dist.	12168 Apr 14 11:00	0° <b>8</b> 32'53	1.72075 AU	min. Earth dist.	12170 Sep 13 21:04	4° <b>£</b> 38′20	0.27441 AU
superior conj	12168 Apr 17 20:38	4° <b>8</b> 47'16	0°50'42	morning rise	12170 Sep 20 11:13 12170 Sep 21 22:04	0° <b>♀</b> 45'24 30°Ŗ <b>₥</b>	
minimum elong	12168 Apr 17 20:38 12168 Apr 17 09:23	4° <b>8</b> 12'11		direct	12170 Scp 21 22:04 12170 Oct 05 08:50	26° Mp 27'01	
g	12168 May 08 01:08	0°II	0 0 0 12	greatest brilliancy	12170 Oct 15 00:11	28° <b>m</b> ) 09'28	-4.8m
evening rise	12168 May 27 10:31	24° <b>Ⅱ</b> 16'57			12170 Oct 19 13:32	0∘ <b>⊽</b>	
	12168 Jun 01 00:03	0ං <b>ව</b>		morning max el	12170 Nov 23 11:36	26° <b>≏</b> 47'45	45°54'23
	12168 Jun 24 23:05	0°Ω			12170 Nov 26 18:38	0° <b>M</b> ₊	
asc. node	12168 Jul 12 12:04	21° <b>Ω</b> 53'37 0° <b>m</b>		asc. node	12170 Dec 25 06:15	0°⊀¹ 3°⊀¹48'08	
	12168 Jul 19 00:24 12168 Aug 12 06:20	0∘ <b>⊽</b>		asc. node	12170 Dec 28 16:23 12171 Jan 20 14:55	0°る。	
	12168 Sep 05 20:00	0° <b>m</b>			12171 Jan 20 14:33	0°≈	
	12168 Sep 30 23:05	0° <b>∡</b> 7			12171 Mar 11 20:18	0° <b>∀</b>	
	12168 Oct 27 03:13	8°0			12171 Apr 05 08:16	0° <b>Ƴ</b>	
desc. node	12168 Nov 01 09:13	5° <b>る</b> 47'22		desc. node	12171 Apr 19 10:23	17° <b>Y</b> 23′54	
	12168 Nov 24 14:34	0°≈	45050155		12171 Apr 29 14:15	0°8	
evening max el	12168 Nov 26 22:49 12169 Jan 03 09:03	2°≈16'26 0° <b>)</b> €	45°52'55	morning set	12171 May 23 09:33	29° <b>8</b> 41′00 0° <b>Ⅱ</b>	
greatest brilliancy	12169 Jan 03 09:03 12169 Jan 05 03:11	0° <del>X</del> 0° <del>X</del> 38'39	-4 7m		12171 May 23 15:38 12171 Jun 16 14:00	0ംഉ <sub>0.</sub> П	
retrograde	12169 Jan 14 21:16	2° <b>∺</b> 22′59	7./111		121/13uii 10 14.00	v <b>-&gt;</b>	

superior conj	12171 Jul 02 13:06	20°502'38	101701	morning rise	12173 Nov 27 22:21	12° <b>∡</b> 16'19	
	12171 Jul 02 13:06 12171 Jul 02 23:05		1°17'38	direct		6° <b>x</b> 10 19	
minimum elong		20°534'00			12173 Dec 16 05:06	7° <b>x</b> <sup>7</sup> 51'24	4.7
max. Earth dist.	12171 Jul 02 18:56		1.71372 AU	greatest brilliancy	12173 Dec 26 05:20		-4./m
	12171 Jul 10 11:21	0° <b>N</b>		asc. node	12174 Jan 25 03:14	27° <b>₹</b> '54'22	
,	12171 Aug 03 09:32	0° Mp			12174 Jan 27 10:50	0°る	45044144
asc. node	12171 Aug 10 01:28	8° m/20'24		morning max el	12174 Feb 03 03:13	6° <b>る</b> 18'24	45°44'44
evening rise	12171 Aug 11 18:39	10° <b>m</b> 29'09			12174 Feb 25 23:37	0° <b>≈</b>	
	12171 Aug 27 09:57	0∘ <b>⊽</b>			12174 Mar 24 12:35	0° <b>)</b> €	
	12171 Sep 20 13:51	0° <b>M</b> ₊			12174 Apr 18 21:12	0° <b>Υ</b>	
	12171 Oct 14 23:13	0° <b>∡</b> ″			12174 May 13 14:39	0° <b>8</b>	
	12171 Nov 08 17:09	0°ಕ		desc. node	12174 May 16 23:48	4° <b>8</b> 08'36	
desc. node	12171 Nov 29 19:49	25° <b>る</b> 05'44			12174 Jun 06 22:46	0°Щ	
	12171 Dec 04 00:10	0° <b>≈</b>			12174 Jul 01 01:13	0∘ <b>ௐ</b>	
	12171 Dec 30 03:20	0° <b>∀</b>			12174 Jul 25 01:02	$0$ $\circ$ $\Omega$	
	12172 Jan 26 19:47	0° <b>Υ</b>		morning set	12174 Aug 06 08:20	15° <b>Ω</b> 24'00	
evening max el	12172 Feb 07 08:46	11° <b>Y</b> ′35'08	46°02'08		12174 Aug 18 00:30	0° <b>m</b> p	
	12172 Feb 28 09:31	$0^{\circ}S$		asc. node	12174 Sep 06 15:23	24° Mp 30'32	
greatest brilliancy	12172 Mar 17 17:11	10° <b>8</b> 34'14	-4.8m		12174 Sep 11 01:01	0∘ <b>ಹ</b>	
asc. node	12172 Mar 21 20:49	11° <b>8</b> 45'10					
retrograde	12172 Mar 27 15:43	12° <b>8</b> 23'28		superior conj	12174 Sep 14 13:21	4° <b>≙</b> 22'50	0°19'08
evening set	12172 Apr 12 01:33	7° <b>8</b> 44'36		minimum elong	12174 Sep 14 08:52	4° <b>≙</b> 08'54	0°18'53
inferior conj	12172 Apr 17 12:00	4° <b>8</b> 28'22	6°10'48	max. Earth dist.	12174 Sep 16 23:33	7° <b>≏</b> 24'10	1.72099 AU
minimum elong	12172 Apr 17 01:11	4° <b>8</b> 45'12	6°07'51		12174 Oct 05 03:15	0° <b>M</b>	
min. Earth dist.	12172 Apr 17 11:21	4° <b>8</b> 29'22	0.27639 AU	evening rise	12174 Oct 22 10:22	21° <b>M</b> 27'41	
morning rise	12172 Apr 22 00:40	1° <b>8</b> 43'03			12174 Oct 29 07:56	0° <b>∡</b> ¹	
	12172 Apr 25 04:08	30° <b>ŖƳ</b>			12174 Nov 22 16:18	0°₹	
direct	12172 May 08 11:38	26° <b>Y</b> 27'56			12174 Dec 17 05:56	0° <b>≈</b>	
greatest brilliancy	12172 May 18 12:03	28° <b>Y</b> ′21'33	-4.9m	desc. node	12174 Dec 27 07:36	12° <b>≈</b> 12′07	
	12172 May 22 09:39	0°8			12175 Jan 11 02:10	0° <b>∀</b>	
morning max el	12172 Jun 27 22:24	29° <b>8</b> 13'45	46°57'03		12175 Feb 05 06:09	$0$ ° $\mathbf{\Upsilon}$	
-	12172 Jun 28 16:44	$\Pi^{\circ}0$			12175 Mar 02 20:57	0°B	
desc. node	12172 Jul 11 21:54	13° <b>Ⅱ</b> 51'48			12175 Mar 29 09:06	$\Pi^{\circ}$ 0	
	12172 Jul 26 10:47	$0$ $\circ$ $\odot$		asc. node	12175 Apr 19 06:17	22° <b>Ⅱ</b> 05′28	
	12172 Aug 21 07:01	$0^{\circ}\Omega$		evening max el	12175 Apr 20 18:10	23° <b>Ⅲ</b> 35′10	46°35'42
	12172 Sep 15 09:51	0° <b>m</b> )			12175 Apr 27 08:36	0°99	
	12172 Oct 10 04:57	0∘ <del>⊽</del>		greatest brilliancy	12175 May 31 09:20	24°509'08	-4.9m
asc. node	12172 Nov 01 17:22	27° <b>≏</b> 26′13		retrograde	12175 Jun 09 21:10	25° <b>©</b> 51'38	
	12172 Nov 03 19:43	0°M₊		evening set	12175 Jun 27 09:11	20° <b>©</b> 01'05	
	12172 Nov 28 07:18	0° <b>∡</b> ¹		inferior conj	12175 Jun 30 13:31	18° <b>©</b> 05'17	8°19'50
	12172 Dec 22 16:34	ರ°0		minimum elong	12175 Jun 30 22:25	17° <b>©</b> 51'36	8°17'46
morning set	12172 Dec 27 23:19	6° <b>ට</b> 30'26		min. Earth dist.	12175 Jul 01 00:22	17° <b>©</b> 48'36	0.27147 AU
C	12173 Jan 16 00:35	0° <b>≈</b>		morning rise	12175 Jul 04 11:33	15° <b>©</b> 43'03	
max. Earth dist.	12173 Feb 02 02:46	21° <b>≈</b> 05'25	1.73075 AU	direct	12175 Jul 21 06:15	10° <b>©</b> 15'12	
				greatest brilliancy	12175 Jul 31 07:56	12° <b>©</b> 09'00	-4.9m
superior conj	12173 Feb 02 21:09	22° <b>≈</b> 02'08	0°42'42	desc. node	12175 Aug 09 08:07	16° <b>©</b> 31'37	
minimum elong	12173 Feb 03 05:41	22° <b>≈</b> 28'28	0°42'56		12175 Aug 27 03:54	$0^{\circ}\Omega$	
Č	12173 Feb 09 08:01	0° <b>)</b>		morning max el	12175 Sep 09 11:19	12° <b>Ω</b> 30'42	46°39'47
desc. node	12173 Feb 21 08:12	14° <b>)</b> 49'48		C	12175 Sep 26 07:37	0° m/	
	12173 Mar 05 14:49	$0^{\circ}\mathbf{Y}$			12175 Oct 23 05:56	0∘ <b>⊽</b>	
evening rise	12173 Mar 13 01:19	9° <b>Υ</b> 11'53			12175 Nov 18 01:19	0° <b>M</b> .	
Č	12173 Mar 29 20:27	0° <b>႘</b>		asc. node	12175 Nov 30 06:23	14° <b>M</b> 27'38	
	12173 Apr 23 00:56	0°II			12175 Dec 13 06:22	0° <b>∡</b> ¹	
	12173 May 17 05:35	0° <b>©</b>			12176 Jan 07 02:07	0°₹	
	12173 Jun 10 13:05	$0^{\circ}\Omega$			12176 Jan 31 15:39	0° <b>≈</b>	
asc. node	12173 Jun 14 01:41	4° <b>Ω</b> 19'38			12176 Feb 25 01:06	0° <b>)</b> €	
	12173 Jul 05 03:28	0° <b>m</b> )		morning set	12176 Mar 07 06:05	13° <b>¥</b> 50′05	
	12173 Jul 30 07:22	0∘ <u>⊽</u>		C	12176 Mar 20 07:30	$0^{\circ}$ Y	
	12173 Aug 25 15:08	0°M		desc. node	12176 Mar 20 22:09	0° <b>Ƴ</b> 45'24	
evening max el	12173 Sep 14 14:31	20°M58'16	46°20'00	max. Earth dist.	12176 Apr 12 03:27	28° <b>Y</b> 21'51	1.72118 AU
2	12173 Sep 24 01:59	0° <b>∡</b> 7			12176 Apr 13 10:58	0°8	-
desc. node	12173 Oct 04 01:24	8° <b>∡</b> ³30'15			1	-	
greatest brilliancy	12173 Oct 23 17:03	20° <b>х</b> 24′48	-4.8m	superior conj	12176 Apr 15 09:36	2° <b>8</b> 25'15	-0°56'54
retrograde	12173 Nov 03 07:50	22° <b>∡</b> ′28′15		minimum elong	12176 Apr 14 22:31	1° <b>8</b> 50'42	
evening set	12173 Nov 21 12:30	16° <b>∡</b> 15′20		<i>G</i>	12176 May 07 11:43	0°II	
inferior conj	12173 Nov 24 19:53	14° <b>∡</b> 11'57	-8°42'55	evening rise	12176 May 24 22:24	21° <b>II</b> 50'26	
minimum elong	12173 Nov 24 17:22	14° <b>∡</b> 15'54		<b>U</b> .	12176 May 31 10:45	0°ಅ	
min. Earth dist.	12173 Nov 24 10:02		0.28867 AU		12176 Jun 24 09:55	$0^{\circ}\Omega$	

asc. node	12176 Jul 11 14:02	21° <b>Ω</b> 25'36			12178 Dec 24 21:25	0° <b>≯</b> ¹	
	12176 Jul 18 11:26	0° <b>m</b> )		asc. node	12178 Dec 27 18:28	3° <b>∡</b> 12'35	
	12176 Aug 11 17:40	0∘ <b>ত</b>			12179 Jan 20 03:53	o°ප	
	12176 Sep 05 07:52	0° <b>M</b> .			12179 Feb 14 12:04	0° <b>≈</b>	
	12176 Sep 30 11:58	0° <b>∡</b> ¹			12179 Mar 11 07:43	0° <b>)</b> €	
	12176 Oct 26 18:20	0°ਤ			12179 Apr 04 19:23	0° <b>Υ</b>	
desc. node	12176 Oct 20 18:20 12176 Oct 31 11:04	5° <b>る</b> 09'21		desc. node	-	16° <b>Y</b> 55′28	
			45052117	desc. Hode	12179 Apr 18 12:12		
evening max el	12176 Nov 24 14:17	0°≈05'28	45°53'16		12179 Apr 29 01:12	0°8	
	12176 Nov 24 12:01	0° <b>≈</b>		morning set	12179 May 20 20:52	27° <b>8</b> 12'22	
greatest brilliancy	12177 Jan 02 17:38	28° <b>≈</b> 26′23	-4.7m		12179 May 23 02:29	$\Pi$ °0	
	12177 Jan 09 09:12	0° <b>∀</b>			12179 Jun 16 00:49	$0$ $\circ$ $\odot$	
retrograde	12177 Jan 12 13:05	0° <b>)</b> 11′32					
	12177 Jan 15 15:40	30° <b>₹</b> ≈		superior conj	12179 Jun 30 00:38	17° <b>©</b> 34'14	-1°18'48
evening set	12177 Jan 28 11:47	25° <b>≈</b> 17'19		minimum elong	12179 Jun 30 10:01	18° <b>©</b> 03'41	1°19'27
inferior conj	12177 Feb 02 20:23	22° <b>≈</b> 02'33	-4°24'18	max. Earth dist.	12179 Jun 30 02:59	17° <b>©</b> 41'36	1.71367 AU
minimum elong	12177 Feb 03 05:09	21° <b>≈</b> 48'51	4°21'23		12179 Jul 09 22:10	$0^{\circ}\Omega$	
min. Earth dist.	12177 Feb 03 09:53	21° <b>≈</b> 41'27	0.28544 AU		12179 Aug 02 20:23	0° m	
morning rise	12177 Feb 08 22:07	18° <b>≈</b> 23'03		evening rise	12179 Aug 09 07:01	8° <b>m</b> 03'47	
asc. node	12177 Feb 21 13:08	13° <b>≈</b> 57'32		asc. node	12179 Aug 09 03:18	7° m/ 52'09	
direct	12177 Feb 24 04:00	13°≈49'12		use. Houe	12179 Aug 26 20:52	0∘ <b>ರ</b>	
greatest brilliancy	12177 Mar 07 04:08	16°≈03'08	-4.8m		12179 Rag 20 20:52 12179 Sep 20 00:55	0° <b>™</b>	
greatest offinality		0° <b>₩</b>	-4.0111			0° <b>∡</b> 7	
	12177 Mar 29 01:40		4.602.012.5		12179 Oct 14 10:33		
morning max el	12177 Apr 14 23:16	15° <b>)</b> 30′54	46°20'35		12179 Nov 08 05:00	0°る	
	12177 Apr 28 23:15	0° <b>Υ</b>		desc. node	12179 Nov 28 21:51	24° <b>る</b> 34'42	
	12177 May 25 17:52	0° <b>8</b>			12179 Dec 03 12:59	0° <b>≈</b>	
desc. node	12177 Jun 13 12:30	22° <b>8</b> 06'17			12179 Dec 29 18:04	0° <b>∀</b>	
	12177 Jun 20 02:44	$\Pi$ $^{\circ}$ 0			12180 Jan 26 15:07	0° <b>Υ</b>	
	12177 Jul 14 19:30	$0$ $\circ$		evening max el	12180 Feb 04 22:53	9° <b>Ƴ</b> 17'47	46°01'02
	12177 Aug 08 04:30	$0$ $^{\circ}$ $\Omega$			12180 Feb 29 03:39	$_{0\circ}$ 8	
	12177 Sep 01 10:26	0° <b>m</b> y		greatest brilliancy	12180 Mar 15 07:28	8° <b>8</b> 15'07	-4.8m
	12177 Sep 25 15:37	0° <b>⊽</b>		asc. node	12180 Mar 20 22:43	9° <b>8</b> 42'29	
asc. node	12177 Oct 04 05:25	10° <b>≏</b> 37'34		retrograde	12180 Mar 25 04:51	10° <b>8</b> 03'24	
morning set	12177 Oct 17 08:56	26° <b>≙</b> 54'41		evening set	12180 Apr 09 12:32	5° <b>8</b> 28'46	
	12177 Oct 19 20:46	0° <b>M</b> .		inferior conj	12180 Apr 15 02:02	2° <b>8</b> 08'13	5°53'24
	12177 Nov 13 02:08	0° <b>∡</b> ¹		minimum elong	12180 Apr 14 15:22	2° <b>8</b> 24'50	5°50'24
				min. Earth dist.	12180 Apr 15 01:58	2° <b>8</b> 08'19	0.27657 AU
superior conj	12177 Nov 23 18:12	13° <b>҂</b> 12'03	1°25'12		12180 Apr 18 13:21	30° <b>₹</b> Υ	
minimum elong	12177 Nov 23 15:18	13° <b>∡</b> '03'07		morning rise	12180 Apr 19 18:00	29° <b>Ƴ</b> 17'46	
max. Earth dist.	12177 Nov 25 08:00		1.73002 AU	direct	12180 May 06 01:26	24° <b>Υ</b> 07'22	
	12177 Dec 07 08:24	0°ප		greatest brilliancy	12180 May 16 03:28	26° <b>Y</b> 01'48	-4.9m
evening rise	12177 Dec 30 17:00	28° <b>ප්</b> 47'42		greatest similarey	12180 May 24 09:55	0°8	1.7111
evening rise	12177 Dec 30 17:00 12177 Dec 31 16:30	0°≈		morning max el	12180 Jun 25 11:09	26° <b>8</b> 48'38	46°56'38
desc. node	12177 Bec 31 10:30 12178 Jan 23 20:26	0 <b>~</b> 28° <b>≈</b> 26'34		morning max ci	12180 Jun 28 14:29	0°Ⅱ	40 30 30
desc. node		28 <b>≈</b> 20 34 0° <b>H</b>		desc. node		13° <b>Ⅱ</b> 07'37	
	12178 Jan 25 02:56	0° <b>Υ</b>		desc. node	12180 Jul 10 23:54	0ಂಣ 12 π೧/2/	
	12178 Feb 18 15:23				12180 Jul 26 02:44		
	12178 Mar 15 05:27	0° <b>B</b>			12180 Aug 20 20:44	$0^{\circ}\Omega$	
	12178 Apr 08 22:07	0°II			12180 Sep 14 22:22	0° <b>m</b> )	
	12178 May 03 21:18	0°©		_	12180 Oct 09 16:45	0∘ <b>⊽</b>	
asc. node	12178 May 16 16:23	15° <b>©</b> 07'18		asc. node	12180 Oct 31 19:16	26° <b>≙</b> 57'19	
	12178 May 29 12:00	$0 {\circ} \Omega$			12180 Nov 03 07:02	0° <b>M</b> ₊	
	12178 Jun 25 16:13	0° <b>m</b> )			12180 Nov 27 18:18	0° <b>∡</b> ¹	
evening max el	12178 Jul 02 18:45	7° <b>m</b> 17'43	46°48'20		12180 Dec 22 03:23	0°₹	
	12178 Jul 28 13:57	0∘ <b>ত</b>		morning set	12180 Dec 25 16:29	4° <b>る</b> 22'16	
greatest brilliancy	12178 Aug 11 06:49	7° <b>£</b> 40'50	-4.9m		12181 Jan 15 11:18	0° <b>≈</b>	
retrograde	12178 Aug 22 03:05	9° <b>£</b> 51'58		max. Earth dist.	12181 Jan 30 20:01	18° <b>≈</b> 57'30	1.73092 AU
evening set	12178 Sep 05 17:19	5° <b>≏</b> 39'13					
desc. node	12178 Sep 05 17:50	5° <b>≏</b> 38'32		superior conj	12181 Jan 31 13:31	19° <b>≈</b> 51'28	0°45'36
min. Earth dist.	12178 Sep 11 11:21	2° <b>≙</b> 16'53	0.27394 AU	minimum elong	12181 Jan 31 22:24	20° <b>≈</b> 18'54	0°45'51
inferior conj	12178 Sep 12 01:14	1° <b>£</b> 55'37			12181 Feb 08 18:45	0° <b>)</b> €	
minimum elong	12178 Sep 12 01:11 12178 Sep 11 21:32	2° <b>⊆</b> 01'17		desc. node	12181 Feb 20 09:59	14° <b>¥</b> 22′00	
	12178 Sep 15 05:45	30°R, Mp	<b>.</b>		12181 Mar 05 01:39	0°Υ	
morning rise	12178 Sep 18 02:30	28° M) 22'53		evening rise	12181 Mar 10 16:31	6° <b>Y</b> 56'49	
direct	12178 Sep 18 02.30 12178 Oct 02 22:40	28 11/22 33 24° My 07'26		Cvening 1150	12181 Mar 29 07:28	0° <b>8</b>	
greatest brilliancy	12178 Oct 02 22.40 12178 Oct 12 13:08	24 11/07/26 25° Mp 49'26	1.8m			0°II	
greatest Diffilalicy		ე° <b>ഹ</b>	- <del>1</del> .0111		12181 Apr 22 12:14	0ംऌ ೧.π	
	12178 Oct 21 13:52		15055122		12181 May 16 17:12		
morning max el	12178 Nov 21 01:48	24° <b>£</b> 31'41	45~55′55	1	12181 Jun 10 01:09	0°Ω	
	12178 Nov 26 15:43	0° <b>M</b>		asc. node	12181 Jun 13 03:40	3° <b>Ω</b> 48'24	

	12181 Jul 04 16:17	0° m/2			12184 Jan 31 02:44	0° <b>≈</b>	
	12181 Jul 29 21:32	0∘ <b>⊽</b>			12184 Feb 24 12:03	0° <b>₩</b>	
	12181 Aug 25 08:18	0° <b>m</b>		morning set	12184 Mar 04 21:19	11° <b>¥</b> 35'06	
evening max el	12181 Sep 12 04:20	18°M38'52	46°21'15		12184 Mar 19 18:24	0° <b>Υ</b>	
S	12181 Sep 24 05:30	0° <b>∡</b> ¹		desc. node	12184 Mar 20 00:02	0° <b>Y</b> 17'27	
desc. node	12181 Oct 03 03:19	7° <b>∡</b> ¹23'19		max. Earth dist.	12184 Apr 09 19:15	26° <b>Ƴ</b> 07'41	1.72155 AU
greatest brilliancy	12181 Oct 21 08:27	18° <b>∡</b> 11'39	-4.8m		1		
retrograde	12181 Oct 31 23:22	20° <b>∡</b> 15'48		superior conj	12184 Apr 12 22:53	0° <b>8</b> 03'09	-0°54'02
evening set	12181 Nov 19 02:14	14° <b>∡</b> °05'59		minimum elong	12184 Apr 12 12:03	29° <b>Y</b> ′29'23	0°53'57
inferior conj	12181 Nov 22 11:38	11° <b>√</b> 59'44	-8°40'16		12184 Apr 12 21:53	$0^{\circ}$ 8	
minimum elong	12181 Nov 22 08:19	12° <b>∡</b> °04'56	8°39'19		12184 May 06 22:40	$\Pi$ $^{\circ}$ 0	
min. Earth dist.	12181 Nov 22 01:02	12° <b>∡</b> 16′22	0.28840 AU	evening rise	12184 May 22 10:36	19° <b>Ⅲ</b> 23'55	
morning rise	12181 Nov 25 14:30	10° <b>х</b> ³03'32			12184 May 30 21:47	$0$ $\circ$ $\odot$	
direct	12181 Dec 13 19:53	3° <b>х</b> 50'34			12184 Jun 23 21:06	$0^{\circ}\Omega$	
greatest brilliancy	12181 Dec 23 20:24	5° <b>х</b> 39′23	-4.7m	asc. node	12184 Jul 10 15:54	20° <b>Ω</b> 56′02	
asc. node	12182 Jan 24 05:07	26° <b>₹</b> ¹59'22			12184 Jul 17 22:51	0° <b>m</b> )	
	12182 Jan 27 11:36	0°ಕ			12184 Aug 11 05:27	0∘ <b>⊽</b>	
morning max el	12182 Jan 31 17:42	4° <b>る</b> 03'12	45°44'20		12184 Sep 04 20:13	$0^{\circ}$ M	
	12182 Feb 25 15:54	0° <b>≈</b>			12184 Sep 30 01:25	0° <b>∡</b> ¹	
	12182 Mar 24 02:13	0° <b>)</b>			12184 Oct 26 10:07	0°ප	
	12182 Apr 18 09:38	$0^{\circ}$ Y		desc. node	12184 Oct 30 13:11	4° <b>る</b> 30'28	
	12182 May 13 02:29	$0$ $\circ$ 8		evening max el	12184 Nov 22 06:24	27° <b>る</b> 54'58	45°53'48
desc. node	12182 May 16 01:48	3° <b>8</b> 38'39			12184 Nov 24 10:48	0° <b>≈</b>	
	12182 Jun 06 10:16	$\Pi$ °0		greatest brilliancy	12184 Dec 31 08:22	26° <b>≈</b> 13'49	-4.7m
	12182 Jun 30 12:31	$0$ $\circ$ $\odot$		retrograde	12185 Jan 10 04:47	27° <b>≈</b> 59'19	
	12182 Jul 24 12:09	$0^{\circ}\Omega$		evening set	12185 Jan 26 05:59	23° <b>≈</b> 01'15	
morning set	12182 Aug 03 21:04	12° <b>Ω</b> 59'00		inferior conj	12185 Jan 31 12:02	19° <b>≈</b> 49'44	
	12182 Aug 17 11:30	0° <b>m</b> )		minimum elong	12185 Jan 31 21:10	19° <b>≈</b> 35′25	4°39'13
asc. node	12182 Sep 05 17:09	24° <b>m</b> 01'56		min. Earth dist.	12185 Feb 01 01:09	19° <b>≈</b> 29'11	0.28580 AU
	12182 Sep 10 11:56	0∘ <b>⊽</b>		morning rise	12185 Feb 06 12:04	16° <b>≈</b> 12'37	
				asc. node	12185 Feb 20 15:05	11° <b>≈</b> 38′04	
superior conj	12182 Sep 12 03:17	2° <b>≏</b> 02'44	0°15'34	direct	12185 Feb 21 20:31	11° <b>≈</b> 36′15	
minimum elong	12182 Sep 11 23:37	1° <b>≏</b> 51'16	0°15'20	greatest brilliancy	12185 Mar 04 19:21	13° <b>≈</b> 49'13	-4.8m
behind sun begin	12182 Sep 11 16:01	1° <b>≏</b> 27'34			12185 Mar 29 08:54	0° <b>∀</b>	
behind sun end	12182 Sep 12 07:13	2° <b>≙</b> 14'59		morning max el	12185 Apr 12 15:18	13° <b>)</b> 17′18	46°18'59
max. Earth dist.	12182 Sep 14 10:53	4° <b>≙</b> 56'01	1.72061 AU		12185 Apr 28 17:06	0° <b>Υ</b>	
	12182 Oct 04 14:08	0°M,			12185 May 25 08:17	0°8	
evening rise	12182 Oct 20 02:19	19° <b>™</b> 14'42		desc. node	12185 Jun 12 14:27	21° <b>8</b> 32'43	
	12182 Oct 28 18:51	0° <b>∡</b> ¹			12185 Jun 19 15:38	0° <b>I</b> I	
	12182 Nov 22 03:22	0°る			12185 Jul 14 07:35	0°©	
1 1	12182 Dec 16 17:19	0° <b>≈</b>			12185 Aug 07 16:06	0° <b>N</b>	
desc. node	12182 Dec 26 09:35 12183 Jan 10 14:04	11° <b>≈</b> 43'07 0° <b>)</b> €			12185 Aug 31 21:43	0° <b>െ</b> 0°ആ	
		0° <b>Υ</b>		asc. node	12185 Sep 25 02:40 12185 Oct 03 07:21	ე° <b>ჲ</b> 09'33	
	12183 Feb 04 18:54 12183 Mar 02 11:12	0°8		morning set	12185 Oct 05 07:21 12185 Oct 15 00:23	10 <b>⊆</b> 09 33 24° <b>Ω</b> 40'13	
	12183 Mar 29 02:25	0°II		morning set	12185 Oct 19 07:37	0°M	
asc. node	12183 Apr 18 08:18	21° <b>Ⅱ</b> 13'54			12185 Nov 12 12:53	0° <b>⊼</b> ¹	
evening max el	12183 Apr 18 07:14	21° <b>I</b> I1'15	46°34'37		12103 100 12 12.33	· ^	
U. James mun Ci	12183 Apr 18 07:14 12183 Apr 27 11:30	0°95	.0 5.57	superior conj	12185 Nov 21 11:00	11° <b>∡</b> '02'23	1°24'39
greatest brilliancy	12183 May 28 21:53	21° <b>5</b> 643'15	-4.9m	minimum elong	12185 Nov 21 07:22	10°×751'10	1°25'24
retrograde	12183 Jun 07 10:21	23°526'19		max. Earth dist.	12185 Nov 23 03:46		1.72979 AU
evening set	12183 Jun 25 01:10	17° <b>©</b> 30'24			12185 Dec 06 19:07	0°ප	
inferior conj	12183 Jun 28 02:18	15° <b>©</b> 39'27	8°29'47	evening rise	12185 Dec 28 09:23	26° <b>පි</b> 37'17	
minimum elong	12183 Jun 28 10:35	15° <b>5</b> 26'46	8°27'52	S	12185 Dec 31 03:17	0° <b>≈</b>	
min. Earth dist.	12183 Jun 28 12:54	15° <b>©</b> 23'12	0.27170 AU	desc. node	12186 Jan 22 22:13	27° <b>≈</b> 58'26	
morning rise	12183 Jul 01 19:54	13° <b>©</b> 23'55			12186 Jan 24 13:54	0° <b>)</b> €	
direct	12183 Jul 18 19:20	7° <b>©</b> 48'45			12186 Feb 18 02:40	0° <b>Υ</b>	
greatest brilliancy	12183 Jul 28 20:34	9° <b>5</b> 42'40	-4.9m		12186 Mar 14 17:11	0° <b>႘</b>	
desc. node	12183 Aug 08 10:04	15°902'40			12186 Apr 08 10:30	0°II	
	12183 Aug 27 09:53	$0^{\circ}\Omega$			12186 May 03 10:45	0ಂಣ	
morning max el	12183 Sep 07 02:07	10° <b>Ω</b> 10'33	46°41'17	asc. node	12186 May 15 18:28	14° <b>©</b> 31'37	
	12183 Sep 26 01:47	0° <b>m</b> )			12186 May 29 03:28	$0^{\circ}\Omega$	
	12183 Oct 22 20:32	0∘ <b>⊽</b>			12186 Jun 25 12:39	0° <b>m</b> )	
	12183 Nov 17 14:14	$0^{\circ}$ M		evening max el	12186 Jun 30 09:39	4° <b>m</b> 58'23	46°48'39
asc. node	12183 Nov 29 08:24	13°M56'50			12186 Jul 29 15:28	0∘ <b>⊽</b>	
	12183 Dec 12 18:20	0° <b>∡</b> 7		greatest brilliancy	12186 Aug 08 22:21	5° <b>ഫ</b> 21'28	-4.9m
	12184 Jan 06 13:31	5°0		retrograde	12186 Aug 19 17:18	7° <b>≏</b> 30'58	

evening set	12186 Sep 03 07:19	3° <b>≏</b> 19'08		superior conj	12189 Jan 29 05:55	17° <b>≈</b> 41'34	0°48'26
desc. node	12186 Sep 04 19:46	2° <b>ي</b> 28'32		minimum elong	12189 Jan 29 15:06	18° <b>≈</b> 09'55	0°48'41
	12186 Sep 08 23:08	30°R, M)			12189 Feb 08 05:17	0° <b>)</b> €	
min. Earth dist.	12186 Sep 09 02:11		0.27350 AU	desc. node	12189 Feb 19 11:52	13° <b>¥</b> 55′08	
inferior conj	12186 Sep 09 15:01	29° m) 35'38			12189 Mar 04 12:16	$0^{\circ}$ Y	
minimum elong	12186 Sep 09 12:10	29° m 40'00	1°12'59	evening rise	12189 Mar 08 07:45	4° <b>Ƴ</b> 42'39	
morning rise	12186 Sep 15 17:46	26° Mp 00'46		C	12189 Mar 28 18:16	0°8	
direct	12186 Sep 30 12:21	21° <b>m</b> 48'11			12189 Apr 21 23:16	$\Pi^{\circ}0$	
greatest brilliancy	12186 Oct 10 02:48	23° m/30'01	-4.8m		12189 May 16 04:36	0ಂತಾ	
	12186 Oct 22 22:15	0∘ <b>⊽</b>			12189 Jun 09 13:02	$0^{\circ}\Omega$	
morning max el	12186 Nov 18 15:25	22° <b>≏</b> 13'39	45°56'38	asc. node	12189 Jun 12 05:31	3° <b>Ω</b> 17′27	
	12186 Nov 26 12:11	$0^{\circ}$ M			12189 Jul 04 04:57	0° <b>m</b>	
	12186 Dec 24 12:30	0° <b>∡</b> ¹			12189 Jul 29 11:36	0∘ <b>⊽</b>	
asc. node	12186 Dec 26 20:20	2° <b>∡</b> ³36′19			12189 Aug 25 01:32	$0^{\circ}$ M	
	12187 Jan 19 16:52	ರ∘ರ		evening max el	12189 Sep 09 18:42	16°M21'46	46°22'40
	12187 Feb 14 00:01	0°≈			12189 Sep 24 10:21	0°⊀	
	12187 Mar 10 19:07	0° <b>∀</b>		desc. node	12189 Oct 02 05:27	6° <b>∤</b> 716′08	
	12187 Apr 04 06:29	$0^{\circ}\Upsilon$		greatest brilliancy	12189 Oct 18 23:22	15° <b>₹</b> 59'09	-4.8m
desc. node	12187 Apr 17 14:08	16° <b>Y</b> ′27′20		retrograde	12189 Oct 29 15:27	18° <b>∡</b> °04'52	
	12187 Apr 28 12:09	$0^{\circ}$ 8		evening set	12189 Nov 16 15:44	11° <b>∡</b> 58′25	
morning set	12187 May 18 08:15	24° <b>8</b> 43'55		min. Earth dist.	12189 Nov 19 15:54	10° <b>∡</b> °07′05	0.28810 AU
	12187 May 22 13:21	$\Pi$ $\circ$ 0		inferior conj	12189 Nov 20 03:28	9° <b>∡</b> ¹48'56	-8°36'46
	12187 Jun 15 11:39	$0$ $\circ$ $\odot$		minimum elong	12189 Nov 19 23:24	9° <b>∡</b> 55′20	8°35'45
				morning rise	12189 Nov 23 07:10	7° <b>∡</b> 751'44	
superior conj	12187 Jun 27 12:26	15° <b>©</b> 06'37	-1°20'25	direct	12189 Dec 11 10:56	1° <b>∡</b> ¹40'09	
minimum elong	12187 Jun 27 21:07	15° <b>©</b> 33'53	1°21'06	greatest brilliancy	12189 Dec 21 11:23	3° <b>х</b> 28′50	-4.7m
max. Earth dist.	12187 Jun 27 08:00	14° <b>©</b> 52'41	1.71362 AU	asc. node	12190 Jan 23 07:06	26° <b>₹</b> 06'52	
	12187 Jul 09 08:59	$0^{\circ}\Omega$			12190 Jan 27 10:42	8°0	
	12187 Aug 02 07:11	0° <b>™</b>		morning max el	12190 Jan 29 09:12	1° <b>る</b> 51'42	45°43'52
evening rise	12187 Aug 06 19:32	5° <b>m</b> 39'00			12190 Feb 25 07:32	0° <b>≈</b>	
asc. node	12187 Aug 08 05:07	7° <b>m</b> 24'01			12190 Mar 23 15:24	0° <b>∀</b>	
	12187 Aug 26 07:42	0∘ <b>⊽</b>			12190 Apr 17 21:42	0° <b>Υ</b>	
	12187 Sep 19 11:54	0°M₊			12190 May 12 13:58	0°8	
	12187 Oct 13 21:51	0° <b>∡</b>		desc. node	12190 May 15 03:45	3° <b>8</b> 09'32	
	12187 Nov 07 16:51	0°ಕ			12190 Jun 05 21:24	$\Pi$ °0	
desc. node	12187 Nov 27 23:46	24° <b>る</b> 03'24			12190 Jun 29 23:26	0₀ <b>ௐ</b>	
	12187 Dec 03 01:50	0° <b>≈</b>			12190 Jul 23 22:55	$0$ $^{\circ}\Omega$	
	12187 Dec 29 08:55	0° <b>∀</b>		morning set	12190 Aug 01 09:40	10° <b>Ω</b> 34'36	
	12188 Jan 26 10:57	0° <b>Υ</b>		_	12190 Aug 16 22:10	0° <b>m</b>	
evening max el	12188 Feb 02 12:33	6° <b>Y</b> 59'42	46°00'08	asc. node	12190 Sep 04 19:05	23° TQ 34'53	
	12188 Mar 01 03:59	0° <b>8</b>					
greatest brilliancy	12188 Mar 12 21:48	5° <b>8</b> 56'45	-4.8m	superior conj	12190 Sep 09 17:08	29° m 43'12	0°11'58
asc. node	12188 Mar 20 00:46	7° <b>8</b> 35'52		minimum elong	12190 Sep 09 14:17	29° m/34'19	0°11'44
retrograde	12188 Mar 22 18:13	7° <b>8</b> 44'33		behind sun begin	12190 Sep 08 21:18	28° Mp 41'18	
evening set	12188 Apr 06 23:53	3° <b>8</b> 13'23		behind sun end	12190 Sep 10 07:17	0° <b>Ω</b> 27'20	
	12188 Apr 12 09:18	30°₹ <b>Υ</b>	5025125	D d F	12190 Sep 09 22:31	0∘ <b>⊽</b>	1.72026.444
inferior conj	12188 Apr 12 16:16		5°35'25	max. Earth dist.	12190 Sep 11 22:56		1.72026 AU
minimum elong	12188 Apr 12 05:50	0° <b>8</b> 05'24 29° <b>Υ</b> 48'11	5°32'26 0.27677 AU	ovenina rica	12190 Oct 04 00:41	0° <b>ጤ</b> 17° <b>ጤ</b> 03'07	
min. Earth dist.	12188 Apr 12 16:53		0.2/6// AU	evening rise	12190 Oct 17 18:22		
morning rise direct	12188 Apr 17 11:27 12188 May 03 15:16	26° <b>Y</b> 53'51 21° <b>Y</b> 47'38			12190 Oct 28 05:25 12190 Nov 21 14:03	0°る	
greatest brilliancy	12188 May 13 19:31	21 14/38 23° <b>Y</b> 43'40	-4.9m		12190 Nov 21 14.03 12190 Dec 16 04:18	0°≈	
greatest offinancy	-	0° <b>8</b>	-4.9111	desc. node	12190 Dec 16 04.18 12190 Dec 25 11:26	0 ≈ 11°≈15'01	
morning max el	12188 May 25 17:51 12188 Jun 23 00:30	24° <b>8</b> 25'31	46°56'10	desc. flode	12190 Dec 23 11:20 12191 Jan 10 01:35	0° <b>∺</b>	
morning max er	12188 Jun 28 11:16	0° <b>Ⅱ</b>	40 30 10		12191 Jan 10 01:33 12191 Feb 04 07:20	0°Υ	
desc. node	12188 Jul 10 01:45	12° <b>Ⅱ</b> 24'03			12191 Mar 02 01:13	%8 0°B	
desc. node	12188 Jul 25 18:17	0°95			12191 Mar 28 19:45	0°U	
	12188 Aug 20 10:09	0° <b>U</b>		evening max el	12191 Mai 28 19:43 12191 Apr 15 21:26	18° <b>∏</b> 51′20	46°33'33
	12188 Sep 14 10:38	0°mp		asc. node	12191 Apr 13 21:20 12191 Apr 17 10:22	20° <b>I</b> I22'33	TO 33 33
	12188 Oct 09 04:15	0∘ <del>ت</del> الأال		asc. nouc	12191 Apr 17 10.22 12191 Apr 27 15:36	0°95	
asc. node	12188 Oct 30 21:13	0 <u>=</u> 26° <b>⊆</b> 29'26		greatest brilliancy	12191 May 26 10:13	19° <b>©</b> 18'33	-4.9m
200. 11000	12188 Nov 02 18:03	0°M		retrograde	12191 Jun 04 23:51	21° <b>©</b> 02'17	
	12188 Nov 27 05:02	0° <b>∡</b> 7		evening set	12191 Jun 22 17:07	15°501'28	
	12188 Dec 21 13:57	0°ਰ		inferior conj	12191 Jun 25 15:12	13° <b>©</b> 14'59	8°38'40
morning set	12188 Dec 23 09:44	2°る14'56		minimum elong	12191 Jun 25 22:47	13°503'20	8°36'56
0 ~	12189 Jan 14 21:49	0° <b>≈</b>		min. Earth dist.	12191 Jun 26 01:12	12°959'39	0.27190 AU
max. Earth dist.	12189 Jan 28 14:05	16° <b>≈</b> 52'42	1.73110 AU	morning rise	12191 Jun 29 04:25	11°505'58	
	0 100					_ 55 50	

direct	12191 Jul 16 08:56	5° <b>©</b> 23'58			12194 Feb 17 13:38	$0^{\circ}$ Y	
greatest brilliancy	12191 Jul 26 08:46	7° <b>©</b> 17'11	-4.9m		12194 Mar 14 04:35	0°8	
desc. node	12191 Aug 07 12:07	13°938'16	4.7111		12194 Apr 07 22:37	0°II	
dese. Hode	12191 Aug 27 13:24	0° <b>Ω</b>			12194 May 03 00:02	0°©	
morning max el	12191 Sep 04 17:03	7° <b>Ω</b> 52'04	46°42'33	asc. node	12194 May 14 20:17	13° <b>9</b> 55'45	
morning mun er	12191 Sep 25 19:05	0° m)	.0 .233	use. noue	12194 May 28 18:57	0° <b>Ω</b>	
	12191 Oct 22 10:35	0∘ <u>⊽</u>			12194 Jun 25 09:39	0° m)	
	12191 Nov 17 02:41	0°M		evening max el	12194 Jun 27 23:34	2° m/36'46	46°48'45
asc. node	12191 Nov 28 10:12	13°M26'36		0.00000	12194 Jul 31 03:44	0∘ <b>⊽</b>	
	12191 Dec 12 05:51	0° <b>∡</b> ¹		greatest brilliancy	12194 Aug 06 14:04	3° <b>ഫ</b> 01'55	-4.9m
	12192 Jan 06 00:28	0°ెవ		retrograde	12194 Aug 17 06:45	5° <b>ഫ</b> 09'22	
	12192 Jan 30 13:23	0° <b>≈</b>		evening set	12194 Aug 31 21:12	0° <b>£</b> 58′00	
	12192 Feb 23 22:34	0° <b>)</b> €		Z .	12194 Sep 02 14:53	30°R, <b>™</b> )	
morning set	12192 Mar 02 12:50	9° <b>)</b> 22'24		desc. node	12194 Sep 03 21:52	29° m) 14'43	
desc. node	12192 Mar 19 01:59	29° <b>¥</b> 50'58		min. Earth dist.	12194 Sep 06 17:06	27° m) 32'41	0.27308 AU
	12192 Mar 19 04:54	$0^{\circ}\mathbf{Y}$		inferior conj	12194 Sep 07 04:31	27° m 15'09	-0°50'33
max. Earth dist.	12192 Apr 07 09:02	23° <b>Y</b> ′48'26	1.72197 AU	minimum elong	12194 Sep 07 02:33	27° m/18'10	0°50'03
	•			morning rise	12194 Sep 13 08:32	23° m/38'16	
superior conj	12192 Apr 10 12:14	27° <b>Ƴ</b> 42'27	-0°51'04	direct	12194 Sep 28 01:10	19° <b>m</b> 28'13	
minimum elong	12192 Apr 10 01:43	27° <b>Y</b> ′09'43	0°50'57	greatest brilliancy	12194 Oct 07 16:46	21° m 10'36	-4.8m
-	12192 Apr 12 08:25	0°B			12194 Oct 23 21:28	0∘ <b>ত</b>	
	12192 May 06 09:16	$\Pi^{\circ}0$		morning max el	12194 Nov 16 04:14	19° <b>≏</b> 53'58	45°57'51
evening rise	12192 May 19 22:35	16° <b>Ⅲ</b> 57'45		C	12194 Nov 26 07:50	0° <b>M</b> .	
C	12192 May 30 08:29	$0$ $\circ$ $\odot$			12194 Dec 24 03:11	0° <b>∡</b> ¹	
	12192 Jun 23 07:58	$0^{\circ}\Omega$		asc. node	12194 Dec 25 22:16	2° <b>∡</b> °01′04	
asc. node	12192 Jul 09 17:44	20° <b>Ω</b> 27'28			12195 Jan 19 05:35	0°ರ	
	12192 Jul 17 09:57	0° <b>m</b>			12195 Feb 13 11:45	0° <b>≈</b>	
	12192 Aug 10 16:55	0∘ <u>⊽</u>			12195 Mar 10 06:18	0° <b>₩</b>	
	12192 Sep 04 08:18	$0^{\circ}$ M			12195 Apr 03 17:22	$0^{\circ}$ Y	
	12192 Sep 29 14:38	0° <b>∡</b> ¹		desc. node	12195 Apr 16 16:00	15° <b>Ƴ</b> 59'45	
	12192 Oct 26 01:50	8°0			12195 Apr 27 22:51	0°B	
desc. node	12192 Oct 29 15:08	3° <b>る</b> 51'42		morning set	12195 May 15 19:50	22° <b>8</b> 16'51	
evening max el	12192 Nov 19 22:29	25° <b>පි</b> 45'17	45°54'19		12195 May 21 24:00	$\Pi^{\circ}$	
_	12192 Nov 24 10:11	0° <b>≈</b>			12195 Jun 14 22:18	0° <b>©</b>	
					121/3 Juli 17 22.10		
greatest brilliancy	12192 Dec 28 23:43	24° <b>≈</b> 03'18	-4.7m	max. Earth dist.	12195 Jun 24 12:28		1.71368 AU
greatest brilliancy retrograde	12192 Dec 28 23:43 12193 Jan 07 20:11	24°≈03'18 25°≈48'28	-4.7m	max. Earth dist.			1.71368 AU
-			-4.7m	max. Earth dist.			
retrograde	12193 Jan 07 20:11	25° <b>≈</b> 48′28			12195 Jun 24 12:28	12° <b>©</b> 02'37	-1°21'52
retrograde evening set	12193 Jan 07 20:11 12193 Jan 24 00:21	25°≈48'28 20°≈46'43	-4°59'34	superior conj	12195 Jun 24 12:28 12195 Jun 25 00:13	12°502'37 12°539'29	-1°21'52
retrograde evening set inferior conj	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46	25°≈48'28 20°≈46'43 17°≈38'34	-4°59'34	superior conj	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08	12°502'37 12°539'29 13°504'22	-1°21'52
retrograde evening set inferior conj minimum elong	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43	-4°59'34 4°56'31	superior conj	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39	12°\$02'37  12°\$39'29  13°\$04'22  0°\$\Omega\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist.	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21	-4°59'34 4°56'31	superior conj minimum elong	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54	12°©02'37  12°©39'29 13°©04'22 0°\$\lambda\$ 0°\$\mathbf{n}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53	-4°59'34 4°56'31	superior conj minimum elong evening rise	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\Omega\$ 0°\$\text{m}\$ 3°\$\text{m}\$13'10	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07	-4°59'34 4°56'31	superior conj minimum elong evening rise	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\Omega\$ 0°\$\text{m}\$ 3°\$\text{m}\$13'10 6°\$\text{m}\$56'33	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08	25°≈48'28 20°≈46'43 17°≈38'34 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09	-4°59'34 4°56'31 0.28612 AU	superior conj minimum elong evening rise	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\Omega\$ 0°\$\mathbf{m}\$ 3°\$\mathbf{m}\$13'10 6°\$\mathbf{m}\$56'33 0°\$\mathbf{n}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51	-4°59'34 4°56'31 0.28612 AU	superior conj minimum elong evening rise	12195 Jun 24 12:28 12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29 12195 Sep 18 22:51	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\Omega\$ 0°\$\mathbf{m}\$ 3°\$\mathbf{m}\$13'10 6°\$\mathbf{m}\$56'33 0°\$\omega\$ 0°\$\mathbf{m}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ₩ 11° ₩02'47 0° Ψ	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise	12195 Jun 24 12:28  12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29 12195 Sep 18 22:51 12195 Oct 13 09:06	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\Omega}\$0°\$\mathbf{m}\$\$30'10 6°\$\mathbf{m}\$\$56'33 0°\$\mathbf{L}\$0°\$\mathbf{m}\$\$00'\$\mathbf{m}\$\$\$00'\$\mathbf{m}\$\$\$00'\$\mathbf{m}\$\$\$00'\$\mathbf{m}\$\$\$00'\$\mathbf{m}\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$00'\$\mathbf{m}\$\$\$\$\$00'\$\mathbf{m}\$\$\$\$\$00'\$\mathbf{m}\$\$\$\$\$00'\$\mathbf{m}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°¥ 11°¥02'47	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node	12195 Jun 24 12:28  12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29 12195 Sep 18 22:51 12195 Oct 13 09:06 12195 Nov 07 04:41	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\Omega}\$ 0°\$\hat{\Omega}\$ 3°\$\hat{\Omega}\$13'10 6°\$\hat{\Omega}\$56'33 0°\$\hat{\Omega}\$ 0°\$\hat{\Omega}\$ 0°\$\hat{\Omega}\$ 23°\$\forall 32'01 0°\$\infty\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ₩ 11° ₩02'47 0° Ψ	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node	12195 Jun 24 12:28  12195 Jun 25 00:13 12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29 12195 Sep 18 22:51 12195 Oct 13 09:06 12195 Nov 07 04:41 12195 Nov 27 01:39	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\O}\$ 0°\$\hat{\O}\$ 3°\$\hat{\O}\$13'10 6°\$\hat{\O}\$56'33 0°\$\hat{\O}\$ 0°\$\hat{\O}\$ 23°\$\hat{\O}\$32'01 0°\$\inc\$ 0°\$\hat{\O}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ₩ 11° ₩ 02'47 0° Ψ 0° ₩	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\O}\$00\text{"m}\$13'10 6°\$\hat{\O}\$56'33 0°\$\hat{\O}\$0"\$\text{"m}\$ 0°\$\text{"m}\$ 23°\$\text{\S}32'01 0°\$\text{\O}\$ 0°\$\text{\O}\$ 0°\$\text{\O}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Mar 02 10:35 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 May 24 22:11 12193 Jun 11 16:17	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ★ 11° ★02'47 0° ♥ 0° ♥ 20° ♥59'51	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\O}\$ 0°\$\hat{\O}\$ 3°\$\hat{\O}\$13'10 6°\$\hat{\O}\$56'33 0°\$\hat{\O}\$ 0°\$\hat{\O}\$ 23°\$\hat{\O}\$32'01 0°\$\inc\$ 0°\$\hat{\O}\$	-1°21'52
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ¥ 11° ¥02'47 0° ¥ 20° ₺59'51 0° Ⅱ	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\hat{\O}\$00\text{"m}\$13'10 6°\$\hat{\O}\$56'33 0°\$\hat{\O}\$0"\$\text{"m}\$ 0°\$\text{"m}\$ 23°\$\text{\S}32'01 0°\$\text{\O}\$ 0°\$\text{\O}\$ 0°\$\text{\O}\$	-1°21'52 1°22'36
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°¥ 11°¥02'47 0°Y 0°℧ 20°℧59'51 0°Ⅲ 0°郖	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Jan 31 02:15	12°©02'37  12°©39'29 13°©04'22 0°Ω 0°™ 3°™13'10 6°™56'33 0°Ω 0°™ 0°ズ 0°™ 0°ズ 0°™ 0°✓ 4°Y42'03 0°∀ 3°♥38'16	-1°21'52 1°22'36
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24	25°≈48'28 20°≈46'43 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°¥ 11°¥02'47 0°Y 0°¥ 20°♥59'51 0°Ⅲ 0°© 0°Ω	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 02 13:58	12°\$02'37  12°\$39'29 13°\$04'22 0°\$\mathcal{O}\$0 mp 3°\$\mathcal{D}\$13'10 6°\$\mathcal{D}\$56'33 0°\$\mathcal{D}\$0 mp 0°\$\mathcal{E}\$0 oo mp	-1°21'52 1°22'36 45°59'22
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°¥ 11°¥02'47 0°Υ 0°℧ 20°℧59'51 0°Ⅲ 0°© 0°Ω 0°П	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Mar 02 13:58  12196 Mar 10 11:42	12°\$02'37  12°\$39'29  13°\$04'22  0°\$\alpha\$ 0°\$\mu\$ 3°\$\mu\$13'10 6°\$\mu\$56'33 0°\$\alpha\$ 0°\$\mu\$ 0°\$\mu\$ 23°\$\mu\$32'01 0°\$\alpha\$ 0°\$\mu\$ 0°\$\mu\$ 4°\$\mu\$42'03 0°\$\mu\$ 3°\$\mu\$38'16 5°\$\mu\$24'39 5°\$\mu\$26'24	-1°21'52 1°22'36 45°59'22
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41 12193 Sep 24 13:23	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'09 11°≈36'51 0° ₩ 11° ₩02'47 0° Ψ 0° ₩ 20° ₩59'51 0° Ⅲ 0°  0° № 0° № 9° № 9° № 22° № 25'54	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy asc. node	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 02 13:58  12196 Mar 10 11:42  12196 Mar 19 02:49	12°©02'37  12°©39'29 13°©04'22 0° \mathref{\Omega} 23° \mathref{\Omega}32'01 0° \times 0° \mathref{\Omega} 0° \mathref{\Omega} 4° \mathref{\Omega}42'03 0° \mathref{\Omega} 3° \mathref{\Omega}38'16 5° \mathref{\Omega}24'39 5° \mathref{\Omega}26'24 0° \mathref{\Omega}58'06	-1°21'52 1°22'36 45°59'22
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41 12193 Sep 24 13:23 12193 Oct 02 09:13	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'09 11°≈36'51 0° ¥ 11°¥02'47 0° Y 0° B 20° B59'51 0° ¶ 0° Ω 0° ¶ 0° Ω 9° Ω42'19 22° Ω25'54 0° ¶	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong evening rise asc. node desc. node evening max el greatest brilliancy asc. node retrograde	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Mar 02 13:58  12196 Mar 10 11:42  12196 Mar 19 02:49  12196 Mar 20 08:00	12°©02'37  12°©39'29 13°©04'22 0° \mathref{\Omega} 23° \mathref{\Sigma}32'01 0° \mathref{\Omega} 0° \mathref{\Omega} 0° \mathref{\Omega} 0° \mathref{\Omega} 0° \mathref{\Omega} 0° \mathref{\Omega} 3° \mathref{\Sigma}38'16 5° \mathref{\Sigma}24'39 5° \mathref{\Sigma}26'24 0° \mathref{\Sigma}58'06 30° \mathref{\Omega}	-1°21'52 1°22'36 45°59'22 -4.8m
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Mar 02 10:35 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41 12193 Sep 24 13:23 12193 Oct 02 09:13 12193 Oct 12 15:36	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'09 11°≈36'51 0° ₩ 11° ₩02'47 0° Ψ 0° ₩ 20° ₩59'51 0° Ⅲ 0°  0° № 0° № 9° № 9° № 22° № 25'54	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong  evening rise asc. node  desc. node  evening max el greatest brilliancy asc. node retrograde evening set inferior conj	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 10 11:42  12196 Mar 10 11:42  12196 Mar 20 08:00  12196 Apr 04 11:28  12196 Apr 06 04:21  12196 Apr 10 66:31	12°©02'37  12°©39'29 13°©04'22 0° \mathbb{\text{0}} 0° \mathbb{\text{m}} 3° \mathbb{m}13'10 6° \mathbb{m}56'33 0° \mathbb{\text{0}} 0° \mathbb{\text{m}} 0° \mathbb{\text{d}} 0°	-1°21'52 1°22'36 45°59'22 -4.8m
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node  asc. node	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41 12193 Sep 24 13:23 12193 Oct 02 09:13 12193 Oct 12 15:36 12193 Oct 18 18:10	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'09 11°≈36'51 0° ¥ 11°¥02'47 0° Y 0° B 20° B59'51 0° ¶ 0° Ω 0° ¶ 0° Ω 9° Ω42'19 22° Ω25'54 0° ¶	-4°59'34 4°56'31 0.28612 AU -4.8m	superior conj minimum elong  evening rise asc. node  desc. node  evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong	12195 Jun 24 12:28  12195 Jun 25 00:13  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Nov 07 04:41  12195 Nov 27 01:39  12195 Dec 02 14:44  12195 Dec 28 23:57  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 10 11:42  12196 Mar 10 11:42  12196 Mar 20 08:00  12196 Apr 04 11:28  12196 Apr 06 04:21  12196 Apr 10 06:31  12196 Apr 09 20:22	12°©02'37  12°©39'29 13°©04'22 0°\$\hat{\alpha}\$ 0°\$\hat{\beta}\$ 0°\$\beta	-1°21'52 1°22'36 45°59'22 -4.8m 5°16'52 5°13'55
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node  asc. node superior conj minimum elong max. Earth dist.	12193 Jan 07 20:11 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 Jan 11 16:17 12193 Jan 19 04:09 12193 Jan 19 03:43 12193 Nov 10 03:43 12193 Nov 11 23:19  12193 Nov 19 03:43 12193 Nov 19 03:43 12193 Nov 19 03:43 12193 Nov 10 05:33 12193 Dec 06 05:33 12193 Dec 26 01:48 12193 Dec 26 01:48 12193 Dec 30 13:49	25°≈48'28 20°≈46'43 17°≈23'43 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°₩ 11°₩02'47 0°❤ 0°₺ 20°₺59'51 0°Ⅲ 0°ጭ 0°Ω 0°™ 0°Ω 9°Ω42'19 22°Ω25'54 0°™ 0°¾ 8°¾39'56 11°¾04'43 0°♂ 24°♂27'43	-4°59'34 4°56'31 0.28612 AU -4.8m 46°17'16 1°23'58 1°24'42	superior conj minimum elong  evening rise asc. node  desc. node  evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12195 Jun 24 12:28  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 02 14:44  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 02 13:58  12196 Mar 10 11:42  12196 Mar 20 08:00  12196 Apr 04 11:28  12196 Apr 06 04:21  12196 Apr 10 06:31  12196 Apr 10 06:31  12196 Apr 10 07:35  12196 May 01 05:21  12196 May 11 11:20  12196 May 26 16:25  12196 Jun 20 14:39	12°©02'37  12°©39'29 13°©04'22 0°Ω 0°™ 3°™13'10 6°™56'33 0°Ω 0°™ 0°¾ 0°™ 0°¾ 0°∀ 4°Y42'03 0°¥ 3°∀38'16 5°∀24'39 5°∀26'24 0°∀58'06 30°RY 27°Y30'32 27°Y46'19 27°Y28'52 24°Y30'48 19°Y28'25 21°Y26'05 0°♥ 22°♥05'07	-1°21'52 1°22'36 45°59'22 -4.8m 5°16'52 5°13'55 0.27695 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node  asc. node superior conj minimum elong max. Earth dist.	12193 Jan 07 20:11 12193 Jan 24 00:21 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 May 24 22:11 12193 Jun 11 16:17 12193 Jun 19 04:09 12193 Jul 13 19:21 12193 Aug 07 03:24 12193 Aug 31 08:41 12193 Sep 24 13:23 12193 Oct 12 15:36 12193 Oct 12 15:36 12193 Oct 18 18:10 12193 Nov 19 03:43 12193 Nov 10 05:33 12193 Dec 06 05:33 12193 Dec 06 05:33	25°≈48'28 20°≈46'43 17°≈38'34 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0° ₩ 11° ₩02'47 0° ♥ 20° ੴ59'51 0° Ⅲ 0° № 0° Ω 0° № 0° № 0° № 0° № 0° № 0° № 0° № 0° №	-4°59'34 4°56'31 0.28612 AU -4.8m 46°17'16 1°23'58 1°24'42	superior conj minimum elong  evening rise asc. node  desc. node  evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12195 Jun 24 12:28  12195 Jun 25 08:08 12195 Jul 08 19:39 12195 Aug 01 17:54 12195 Aug 04 07:38 12195 Aug 07 07:04 12195 Aug 25 18:29 12195 Sep 18 22:51 12195 Oct 13 09:06 12195 Nov 07 04:41 12195 Dec 02 14:44 12195 Dec 02 14:44 12195 Dec 02 14:44 12195 Dec 02 13:58 12196 Jan 31 02:15 12196 Mar 02 13:58 12196 Mar 10 11:42 12196 Mar 10 11:42 12196 Mar 20 08:00 12196 Apr 04 11:28 12196 Apr 06 04:21 12196 Apr 07 06:31 12196 Apr 10 06:31 12196 Apr 10 06:31 12196 Apr 10 07:35 12196 May 01 05:21 12196 May 11 11:20 12196 May 26 16:25 12196 Jun 20 14:39 12196 Jun 28 07:10	12°©02'37  12°©39'29 13°©04'22 0°Ω 0°™ 3°™13'10 6°™56'33 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™ 0°™	-1°21'52 1°22'36 45°59'22 -4.8m 5°16'52 5°13'55 0.27695 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy morning max el  desc. node  asc. node superior conj minimum elong max. Earth dist. evening rise	12193 Jan 07 20:11 12193 Jan 29 03:46 12193 Jan 29 13:14 12193 Jan 29 13:14 12193 Jan 29 16:40 12193 Feb 04 01:53 12193 Feb 19 12:51 12193 Feb 19 17:08 12193 Mar 02 10:35 12193 Mar 29 13:19 12193 Apr 10 06:25 12193 Apr 28 10:07 12193 Jan 11 16:17 12193 Jan 19 04:09 12193 Jan 19 03:43 12193 Nov 10 03:43 12193 Nov 11 23:19  12193 Nov 19 03:43 12193 Nov 19 03:43 12193 Nov 19 03:43 12193 Nov 10 05:33 12193 Dec 06 05:33 12193 Dec 26 01:48 12193 Dec 26 01:48 12193 Dec 30 13:49	25°≈48'28 20°≈46'43 17°≈23'43 17°≈23'43 17°≈18'21 14°≈03'53 9°≈25'07 9°≈25'09 11°≈36'51 0°₩ 11°₩02'47 0°❤ 0°₺ 20°₺59'51 0°Ⅲ 0°ጭ 0°Ω 0°™ 0°Ω 9°Ω42'19 22°Ω25'54 0°™ 0°¾ 8°¾39'56 11°¾04'43 0°♂ 24°♂27'43	-4°59'34 4°56'31 0.28612 AU -4.8m 46°17'16	superior conj minimum elong  evening rise asc. node  desc. node  evening max el greatest brilliancy asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12195 Jun 24 12:28  12195 Jun 25 08:08  12195 Jul 08 19:39  12195 Aug 01 17:54  12195 Aug 04 07:38  12195 Aug 07 07:04  12195 Aug 25 18:29  12195 Sep 18 22:51  12195 Oct 13 09:06  12195 Nov 07 04:41  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 02 14:44  12195 Dec 02 14:44  12196 Jan 26 07:25  12196 Jan 31 02:15  12196 Mar 02 13:58  12196 Mar 10 11:42  12196 Mar 20 08:00  12196 Apr 04 11:28  12196 Apr 06 04:21  12196 Apr 10 06:31  12196 Apr 10 06:31  12196 Apr 10 07:35  12196 May 01 05:21  12196 May 11 11:20  12196 May 26 16:25  12196 Jun 20 14:39	12°©02'37  12°©39'29 13°©04'22 0°Ω 0°™ 3°™13'10 6°™56'33 0°Ω 0°™ 0°¾ 0°™ 0°¾ 0°∀ 4°Y42'03 0°¥ 3°∀38'16 5°∀24'39 5°∀26'24 0°∀58'06 30°RY 27°Y30'32 27°Y46'19 27°Y28'52 24°Y30'48 19°Y28'25 21°Y26'05 0°♥ 22°♥05'07	-1°21'52 1°22'36 45°59'22 -4.8m 5°16'52 5°13'55 0.27695 AU

	12196 Jul 25 09:27	$0$ $\circ$			12199 Jan 09 13:26	0° <b>∀</b>	
	12196 Aug 19 23:24	$0^{\circ}\Omega$			12199 Feb 03 20:08	0° <b>Ƴ</b>	
	12196 Sep 13 22:50	0° <b>™</b>			12199 Mar 01 15:43	0°8	
	12196 Oct 08 15:48	0∘ <b>⊽</b>			12199 Mar 28 13:49	$\Pi$ °0	
asc. node	12196 Oct 29 23:01	26° <b>Ω</b> 00'51		evening max el	12199 Apr 13 12:02	16° <b>Ⅲ</b> 31'34	46°32'25
	12196 Nov 02 05:09	0° <b>™</b>		asc. node	12199 Apr 16 12:15	19° <b>Ⅲ</b> 28'49	
	12196 Nov 26 15:50	0° <b>∡</b>			12199 Apr 27 22:08	0ა <b>ௐ</b>	
morning set	12196 Dec 21 02:38	0° <b>ろ</b> 06'20		greatest brilliancy	12199 May 23 22:47	16° <b>©</b> 53'19	-4.9m
	12196 Dec 21 00:35	0°ප		retrograde	12199 Jun 02 13:08	18°937'12	
	12197 Jan 14 08:22	0° <b>≈</b>		evening set	12199 Jun 20 08:51	12°532'10	0046125
	10107 1 06 00 05	150 - 20145	0051112	inferior conj	12199 Jun 23 04:05	10°5549'44	8°46'37
superior conj	12197 Jan 26 22:05	15°≈30'45		minimum elong	12199 Jun 23 10:54	10°539'14	
minimum elong	12197 Jan 27 07:31	15°≈59'51	0°51'29	min. Earth dist.	12199 Jun 23 13:28	10°535'18	0.27205 AU
max. Earth dist.	12197 Jan 26 09:46	14°≈52'44	1.73127 AU	morning rise	12199 Jun 26 12:56	8°547'01	
11-	12197 Feb 07 15:52	0° <b>)</b> (		direct	12199 Jul 13 22:34	2°558'38	4.0
desc. node	12197 Feb 18 13:47	13° <b>¥</b> 28′13 0° <b>Ƴ</b>		greatest brilliancy	12199 Jul 23 20:49	4°950'42	-4.9m
	12197 Mar 03 22:59	0° γ 2° <b>Υ</b> 28'13		desc. node	12199 Aug 06 14:06 12199 Aug 27 15:34	12° <b>©</b> 15'58 0° <b>Ω</b>	
evening rise	12197 Mar 05 22:58 12197 Mar 28 05:09	0° <b>8</b>		marning may al	0	5° <b>Ω</b> 30'56	16912155
	12197 Mai 28 03:09 12197 Apr 21 10:23	0°II		morning max el	12199 Sep 02 07:10 12199 Sep 25 12:11	0°m)	40 43 33
	12197 Apr 21 10:23	0°©			12199 Sep 23 12.11 12199 Oct 22 00:39	0∘ <del>ت</del> الأال	
	12197 Way 13 10:01 12197 Jun 09 00:56	0°Ω			12199 Oct 22 00:39 12199 Nov 16 15:15	0 <b>==</b> 0°M₊	
asc. node	12197 Jun 11 07:28	2° <b>Ω</b> 46'49		asc. node	12199 Nov 10 13:13 12199 Nov 27 12:08	12°M56'08	
asc. Houe	12197 Jul	0°M)		asc. Houe	12199 Nov 27 12:08 12199 Dec 11 17:35	0° <b>√</b>	
	12197 Jul 29 01:51	0∘ <del>ت</del> س			12199 Dec 11 17:33 12200 Jan 05 11:43	0°ਤ	
	12197 Aug 24 19:16	0° <b>m</b> .			12200 Jan 30 00:22	0° <b>≈</b>	
evening max el	12197 Sep 07 09:54	14°ML06'16	46°23'51		12200 Feb 23 09:25	0° <b>∺</b>	
evening max er	12197 Sep 07 05:54 12197 Sep 24 17:44	0° <b>∡</b> 7	40 23 31	morning set	12200 Mar 01 04:11	7° <b>∺</b> 08'11	
desc. node	12197 Oct 01 07:24	5° <b>∡</b> ¹05'52		desc. node	12200 Mar 19 03:44	29°\(\frac{11}{22'53}	
greatest brilliancy	12197 Oct 16 13:32	13° <b>×</b> <sup>7</sup> 44'38	-4.8m	dese. Hode	12200 Mar 19 15:43	0° <b>Υ</b>	
retrograde	12197 Oct 10 13:32 12197 Oct 27 07:38	15° <b>₹</b> 52'22	4.0111	max. Earth dist.	12200 Apr 05 21:18		1.72239 AU
evening set	12197 Nov 14 04:39	9°×749'42		max. Earth dist.	12200 Apr 03 21.10	21   23 40	1.72237710
inferior conj	12197 Nov 17 19:02	7° <b>∡</b> 736'31	-8°32'22	superior conj	12200 Apr 09 01:28	25° <b>Y</b> 20'30	-0°48'00
minimum elong	12197 Nov 17 14:11	7° <b>,⊼</b> ′44'04		minimum elong	12200 Apr 08 15:21	24° <b>Y</b> '49'03	
min. Earth dist.	12197 Nov 17 06:12	7° <b>∡</b> 756'33	0.28780 AU	g	12200 Apr 12 19:16	0°8	0 1,02
morning rise	12197 Nov 20 23:52	5° <b>∡</b> "37'52	0.20,00110		12200 May 06 20:12	0°II	
3	12197 Dec 03 22:36	30°RM		evening rise	12200 May 18 10:31	14° <b>Ⅱ</b> 30'24	
direct	12197 Dec 09 02:18	29°M28'13		<i>8</i> 11	12200 May 30 19:33	0°©	
	12197 Dec 14 09:34	0° <b>∡</b> ¹			12200 Jun 23 19:12	$0^{\circ}\Omega$	
greatest brilliancy	12197 Dec 19 01:42	1° <b>∡</b> 16′23	-4.7m	asc. node	12200 Jul 09 19:43	19° <b>Ω</b> 58'19	
asc. node	12198 Jan 22 09:11	25° <b>∡</b> 14'54			12200 Jul 17 21:24	0° <b>™</b>	
morning max el	12198 Jan 27 01:05	29° <b>х</b> 40′30	45°43'27		12200 Aug 11 04:42	0∘ <b>⊽</b>	
	12198 Jan 27 09:08	8°0			12200 Sep 04 20:40	$0^{\circ}$ M	
	12198 Feb 24 23:07	0° <b>≈</b>			12200 Sep 30 04:10	0° <b>∡</b> ¹	
	12198 Mar 23 04:41	0° <b>∀</b>			12200 Oct 26 18:03	8°0	
	12198 Apr 17 09:54	$0^{\circ}$ Y		desc. node	12200 Oct 29 17:02	3° <b>る</b> 11'44	
	12198 May 12 01:36	0°8		evening max el	12200 Nov 18 13:44	23° <b>る</b> 32'49	45°54'42
desc. node	12198 May 14 05:30	2° <b>8</b> 39'21			12200 Nov 25 11:04	0° <b>≈</b>	
	12198 Jun 05 08:41	$\Pi$ °0		greatest brilliancy	12200 Dec 27 15:32	21° <b>≈</b> 52'21	-4.7m
	12198 Jun 29 10:28	0ം <b>ௐ</b>		retrograde	12201 Jan 06 11:06	23° <b>≈</b> 36'49	
	12198 Jul 23 09:47	$0$ ° $\Omega$		evening set	12201 Jan 22 18:50	18° <b>≈</b> 31'11	
morning set	12198 Jul 29 22:42	8° <b>Ω</b> 11'12		inferior conj	12201 Jan 27 19:36	15° <b>≈</b> 26′38	
	12198 Aug 16 08:55	0° m)		minimum elong	12201 Jan 28 05:20	15° <b>≈</b> 11'20	
asc. node	12198 Sep 03 20:57	23° Mp 07'14		min. Earth dist.	12201 Jan 28 08:32	15° <b>≈</b> 06′18	0.28646 AU
				morning rise	12201 Feb 02 15:34	11° <b>≈</b> 54'29	
superior conj	12198 Sep 07 07:10	27° m 23'52		direct	12201 Feb 18 04:51	7°≈13'00	
minimum elong	12198 Sep 07 05:11	27° m 17'39	0°08'08	asc. node	12201 Feb 19 19:06	7°≈15'59	4.0
behind sun begin	12198 Sep 06 07:45	26° Mp 10'47		greatest brilliancy	12201 Mar 01 02:31	9° <b>≈</b> 24'09	-4.8m
behind sun end	12198 Sep 08 02:36	28° Mp 24'31			12201 Mar 30 16:31	0° <b>)</b> (	46015125
may Forth 3:-4	12198 Sep 09 09:13	0° <b>Ω</b> 15'12	1 71005 ATT	morning max el	12201 Apr 08 20:41	8° <b>)</b> (44'54 0° <b>Υ</b>	46°15'35
max. Earth dist.	12198 Sep 09 14:05		1.71995 AU		12201 Apr 29 03:13	0.8 0.4.	
avaning rise	12198 Oct 03 11:24	0°ጤ 14°ጤ51'08		desc nodo	12201 May 25 12:20 12201 Jun 11 18:19	20° <b>8</b> 26'39	
evening rise	12198 Oct 15 10:30 12198 Oct 27 16:11	14°11∟51′08 0° <b>√</b> 7		desc. node	12201 Jun 11 18:19 12201 Jun 19 16:57	20° <b>O</b> 26′39	
	12198 Oct 27 16:11 12198 Nov 21 01:00	0° <b>ਨ</b> ਰਾ			12201 Jul 19 16:37 12201 Jul 14 07:26	0ംമ 0∘π	
	12198 Nov 21 01:00 12198 Dec 15 15:34	0° <b>≈</b>			12201 Jul 14 07:26 12201 Aug 07 15:02	0°€	
desc. node	12198 Dec 13 13.34 12198 Dec 24 13:22	0 ≈ 10°≈46'17			12201 Aug 07 13:02 12201 Aug 31 20:00	0°mp	
dese. Houc	12170 DCC 24 13.22	10 ~~401/			12201 Aug 31 20.00	עוויי	

	12201 Can 25 00:25	0∘ <b>⊽</b>		ratra ara da	12204 Mar 18 22:20	3° <b>8</b> 07'56	
1-	12201 Sep 25 00:25	0° <b>22</b> 9° <b>2</b> 13'51		retrograde		3° <b>8</b> 07'50	
asc. node	12201 Oct 02 11:01	9 <b>≗</b> 13 31 20° <b>≗</b> 11'22		asc. node	12204 Mar 19 04:42 12204 Mar 31 11:01	30°RY	
morning set	12201 Oct 11 07:04					28° <b>Y</b> 42'05	
	12201 Oct 19 04:59	0°M		evening set	12204 Apr 02 23:22		4057151
	12201 Nov 12 10:02	0° <b>∡</b> 7		inferior conj	12204 Apr 08 20:49	25° <b>Y</b> 11′20	4°57'51
	1000131 17 00 40	60 <b>7</b> 4 412 0	1000111	minimum elong	12204 Apr 08 11:01	25° <b>Y</b> 26'32	4°54'56
superior conj	12201 Nov 17 20:48	6° <b>∡</b> 744'38		min. Earth dist.	12204 Apr 08 22:02	25° <b>Y</b> ′09'25	0.27720 AU
minimum elong	12201 Nov 17 15:48	6° 🗷 29'10	1°23'53	morning rise	12204 Apr 13 22:19	22° <b>Y</b> 07'24	
max. Earth dist.	12201 Nov 19 15:55	8° <b>₹</b> 58'01	1.72928 AU	direct	12204 Apr 29 20:03	17° <b>Y</b> ′08'37	
	12201 Dec 06 16:16	0°る		greatest brilliancy	12204 May 10 02:54	19° <b>℃</b> 07'31	-4.9m
evening rise	12201 Dec 24 18:33	22°る18'21			12204 May 28 09:32	0°8	
	12201 Dec 31 00:38	0° <b>≈</b>		morning max el	12204 Jun 19 05:46	19° <b>8</b> 46'11	46°54'59
desc. node	12202 Jan 22 02:06	27°≈03'56			12204 Jun 29 02:52	0°Щ	
	12202 Jan 24 11:38	0° <b>)</b> €		desc. node	12204 Jul 09 05:48	10° <b>Ⅱ</b> 59'30	
	12202 Feb 18 01:00	0° <b>Υ</b>			12204 Jul 26 00:45	0°99	
	12202 Mar 14 16:26	0° <b>8</b>			12204 Aug 20 12:49	$0^{\circ}\Omega$	
	12202 Apr 08 11:12	0°Щ			12204 Sep 14 11:12	0° <b>m</b> )	
	12202 May 03 13:50	0ა <b>ௐ</b>			12204 Oct 09 03:30	0∘ <b>ত</b>	
asc. node	12202 May 14 22:17	13° <b>©</b> 18'59		asc. node	12204 Oct 30 00:55	25° <b>≏</b> 31'59	
	12202 May 29 11:06	$0$ $\circ$ $\Omega$			12204 Nov 02 16:25	0° <b>M</b>	
	12202 Jun 26 07:55	0° <b>™</b>			12204 Nov 27 02:48	0° <b>∡</b> 7	
evening max el	12202 Jun 26 12:26	0° Mp 11'21	46°48'50	morning set	12204 Dec 19 19:48	27° <b>∡</b> °58′02	
	12202 Aug 03 13:15	0∘ <b>⊽</b>			12204 Dec 21 11:22	0°ಕ	
greatest brilliancy	12202 Aug 05 05:43	0° <b>ჲ</b> 40'55	-4.9m		12205 Jan 14 19:03	0° <b>≈</b>	
retrograde	12202 Aug 15 20:01	2° <b>≏</b> 46'39					
	12202 Aug 27 15:02	30°R, Mp		superior conj	12205 Jan 25 14:38	13° <b>≈</b> 20'46	0°53'51
evening set	12202 Aug 30 11:13	28° M 35'05		minimum elong	12205 Jan 26 00:16	13° <b>≈</b> 50′28	0°54'10
desc. node	12202 Sep 03 23:49	25° <b>m</b> 57'57		max. Earth dist.	12205 Jan 25 06:57		1.73137 AU
inferior conj	12202 Sep 05 17:58	24° TQ 53'26	-0°27'10		12205 Feb 08 02:33	0° <b>∀</b>	
minimum elong	12202 Sep 05 16:54	24° <b>m</b> 55'04	0°26'58	desc. node	12205 Feb 18 15:34	13° <b>米</b> 00′33	
min. Earth dist.	12202 Sep 05 08:10	25°Mp08'29	0.27269 AU		12205 Mar 04 09:47	$0^{\circ}$ Y	
morning rise	12202 Sep 11 23:05	21°Mp 14'50		evening rise	12205 Mar 04 14:34	0° <b>Ƴ</b> 14'47	
direct	12202 Sep 26 13:38	17° <b>m</b> 06'42			12205 Mar 28 16:09	$0^{\circ}S$	
greatest brilliancy	12202 Oct 06 07:12	18° <b>m</b> 50'28	-4.8m		12205 Apr 21 21:40	$\Pi$ °0	
	12202 Oct 25 15:07	0∘ <b>⊽</b>			12205 May 16 03:39	0ಂತಿ	
morning max el	12202 Nov 14 17:23	17° <b>≏</b> 33'59	45°59'23		12205 Jun 09 13:06	$0^{\circ}\Omega$	
	12202 Nov 27 03:12	0°M₊		asc. node	12205 Jun 11 09:26	2° <b>Ω</b> 15′29	
	12202 Dec 24 17:57	0° <b>∡</b>			12205 Jul 04 06:42	0° <b>m</b>	
asc. node	12202 Dec 26 00:19	1° <b>∡</b> ²25'41			12205 Jul 29 16:30	0∘ <b>⊽</b>	
	12203 Jan 19 18:27	0°る			12205 Aug 25 13:40	0° <b>M</b>	
	12203 Feb 13 23:41	0° <b>≈</b>		evening max el	12205 Sep 06 01:41	11°M51'38	46°25'09
	12203 Mar 10 17:45	0° <b>∀</b>			12205 Sep 26 04:09	0° <b>∡</b> ⊓	
	12203 Apr 04 04:34	0° <b>Υ</b>		desc. node	12205 Oct 01 09:19	3° <b>∡</b> ′53′00	
desc. node	12203 Apr 16 17:50	15° <b>Ƴ</b> 30'58		greatest brilliancy	12205 Oct 15 03:38	11° <b>∡</b> ¹29'35	-4.8m
	12203 Apr 28 09:55	0°8		retrograde	12205 Oct 25 23:57	13° <b>∡</b> ³39′07	
morning set	12203 May 14 07:13	19° <b>8</b> 48'01		evening set	12205 Nov 12 17:20	7° <b>∡</b> ¹40'45	
	12203 May 22 11:00	0°П		inferior conj	12205 Nov 16 10:29	5° <b>∡</b> °23′27	
	12203 Jun 15 09:17	$0$ $\circ$ $\infty$		minimum elong	12205 Nov 16 04:56	5° <b>⋌</b> ³32'07	
				min. Earth dist.	12205 Nov 15 20:13	5° <b>⋌</b> ¹45'43	0.28743 AU
superior conj	12203 Jun 23 11:46	10° <b>©</b> 10'36		morning rise	12205 Nov 19 16:42	3° <b>⋌</b> ¹22'57	
minimum elong	12203 Jun 23 18:52	10° <b>©</b> 32'57			12205 Nov 25 23:52	30°RM₊	
max. Earth dist.	12203 Jun 22 18:06		1.71375 AU	direct	12205 Dec 07 17:58	27°M15'56	
	12203 Jul 09 06:38	$0$ $\circ$ $\Omega$		greatest brilliancy	12205 Dec 17 15:21	29°M02'50	-4.7m
	12203 Aug 02 04:55	0° <b>m</b> )			12205 Dec 20 03:24	0° <b>∡</b> ¹	
evening rise	12203 Aug 02 19:38	0° m/46'02		asc. node	12206 Jan 22 11:04	24° <b>∡</b> ¹23'21	
asc. node	12203 Aug 07 08:54	6° TQ 27'46		morning max el	12206 Jan 25 17:02	27° <b>∡</b> °29'28	45°43'10
	12203 Aug 26 05:35	0∘ <b>⊽</b>			12206 Jan 28 06:42	0°ප	
	12203 Sep 19 10:08	0° <b>M</b>			12206 Feb 25 14:26	0° <b>≈</b>	
	12203 Oct 13 20:42	0° <b>∡</b> 7			12206 Mar 23 17:46	0° <b>\</b>	
	12203 Nov 07 16:49	0°る			12206 Apr 17 21:59	0° <b>Ƴ</b>	
desc. node	12203 Nov 27 03:42	23° <b>පි</b> 00'21			12206 May 12 13:08	0°8	
	12203 Dec 03 03:55	0° <b>≈</b>		desc. node	12206 May 14 07:31	2° <b>8</b> 10'10	
	12203 Dec 29 15:21	0° <b>){</b>			12206 Jun 05 19:56	0°II	
	12204 Jan 27 04:45	0°Υ 2° <b>Ω</b> 25124	45050120		12206 Jun 29 21:31	0° <b>©</b>	
evening max el	12204 Jan 29 16:31	2°Υ25'34	45°58'38	•	12206 Jul 23 20:43	0°N	
	12204 Mar 05 17:58	0°8	4.0	morning set	12206 Jul 28 11:16	5° <b>Ω</b> 46'06	
greatest brilliancy	12204 Mar 09 01:02	1° <b>8</b> 18'54	-4.0III		12206 Aug 16 19:45	0° <b>m</b> )	

asc. node	12206 Sep 03 22:43	22° m/39'07		min. Earth dist.	12209 Jan 26 00:27 12209 Jan 31 05:01	12°≈54'39 9°≈46'01	0.28679 AU
superior conj	12206 Sep 05 20:36	25° m 02'20	0°04'41	direct	12209 Feb 15 20:22	5°≈01'18	
minimum elong	12206 Sep 05 20:30 12206 Sep 05 19:30	24° m 58'54	0°04'28	asc. node	12209 Feb 18 21:05	5°≈11'59	
behind sun begin	12206 Sep 03 19:30 12206 Sep 04 19:43	23° m/44'38	0 0120	greatest brilliancy	12209 Feb 26 18:47	7°≈12'36	-4 8m
behind sun end	12206 Sep 04 19:43 12206 Sep 06 19:18	26° m) 13'11		greatest orimaney	12209 Mar 30 17:52	0° <b>₩</b>	4.0111
max. Earth dist.	12206 Sep 08 05:54	28° mp 01'11	1.71959 AU	morning max el	12209 Apr 06 10:50	6° <b>¥</b> 27'35	46°14'07
max. Earth dist.	12206 Sep 09 19:59	0° <u>ت</u>	1.71757710	morning max er	12209 Apr 28 19:36	0° <b>Υ</b>	40 14 07
	12206 Oct 03 22:08	0° <b>m</b>			12209 May 25 01:56	0°8	
evening rise	12206 Oct 14 02:09	12°M37'33		desc. node	12209 Jun 10 20:13	19° <b>8</b> 54'25	
evening rise	12206 Oct 28 02:58	0° <b>√</b>		dese. Hode	12209 Jun 10 20:15	0°П	
	12206 Nov 21 11:56	0°ਰ			12209 Jul 13 19:02	0° <b>©</b>	
	12206 Dec 16 02:51	0°≈			12209 Aug 07 02:13	0°N	
desc. node	12206 Dec 24 15:18	0 ∞ 10°≈17'40			12209 Aug 07 02:13 12209 Aug 31 06:53	0°m)	
desc. Hode	12200 Dec 24 13:18 12207 Jan 10 01:16	10 <b>≈</b> 1740 0° <b>H</b>			12209 Aug 31 00:33 12209 Sep 24 11:06	0∘ <b>ت</b> رابا	
	12207 Feb 04 08:55	0° <b>Υ</b>		asc. node	12209 Scp 24 11:00 12209 Oct 01 12:56	0 <b>=</b> 8° <b>£</b> 46'49	
	12207 Mar 02 06:11	0°8		morning set	12209 Oct 01 12:30 12209 Oct 08 22:10	17° <b>£</b> 56'33	
		0°II		morning set			
	12207 Mar 29 08:04		46021111		12209 Oct 18 15:31	0°M	
evening max el	12207 Apr 12 02:10	14° <b>Ⅱ</b> 11'23	46°31'11		12209 Nov 11 20:29	0° <b>∡</b> ¹	
asc. node	12207 Apr 16 14:17	18° <b>Ⅱ</b> 35'11			1000031 15 12 26	40.705116	1000115
	12207 Apr 29 06:47	0°®		superior conj	12209 Nov 15 13:26	4° <b>₹</b> 35'16	
greatest brilliancy	12207 May 22 11:41	14° <b>©</b> 29'28	-4.9m	minimum elong	12209 Nov 15 07:46	4° <b>⋌</b> 17'45	1°22'54
retrograde	12207 Jun 01 01:56	16° <b>©</b> 12'54		max. Earth dist.	12209 Nov 17 07:02	6° <b>∡</b> ¹44'00	1.72904 AU
evening set	12207 Jun 19 00:21	10° <b>©</b> 04'19			12209 Dec 06 02:43	0°ಕ	
inferior conj	12207 Jun 21 17:04	8° <b>5</b> 25'21		evening rise	12209 Dec 22 10:50	20° <b>る</b> 08'29	
minimum elong	12207 Jun 21 23:04	8°916'07	8°52'09		12209 Dec 30 11:11	0° <b>≈</b>	
min. Earth dist.	12207 Jun 22 02:00	8° <b>©</b> 11'36	0.27226 AU	desc. node	12210 Jan 21 03:51	26° <b>≈</b> 36'31	
morning rise	12207 Jun 24 21:46	6° <b>5</b> 28'32			12210 Jan 23 22:22	0° <b>∀</b>	
direct	12207 Jul 12 11:59	0° <b>5</b> 34'04			12210 Feb 17 12:03	$0$ ° $\Upsilon$	
greatest brilliancy	12207 Jul 22 09:26	2° <b>©</b> 25'13	-4.9m		12210 Mar 14 03:59	0°B	
desc. node	12207 Aug 06 16:03	10°956'28			12210 Apr 07 23:30	$\Pi^{\circ}0$	
	12207 Aug 28 16:23	$0^{\circ}\Omega$			12210 May 03 03:22	$0$ $\circ$ $\odot$	
morning max el	12207 Aug 31 20:23	3° <b>Ω</b> 07'25	46°45'03	asc. node	12210 May 14 00:20	12° <b>©</b> 43'18	
	12207 Sep 26 04:58	0° <b>m</b> )			12210 May 29 03:03	$0^{\circ}\Omega$	
	12207 Oct 22 14:34	0∘ <b>⊽</b>		evening max el	12210 Jun 24 01:12	27° <b>Ω</b> 47'21	46°49'06
	12207 Nov 17 03:42	0° <b>M</b> .			12210 Jun 26 06:26	0° <b>m</b> y	
asc. node	12207 Nov 27 14:08	12°M26'13		greatest brilliancy	12210 Aug 02 20:51	28° <b>m</b> 21'11	-4.9m
	12207 Dec 12 05:10	0° <b>∡</b> ″			12210 Aug 08 16:23	0∘ <b>ত</b>	
	12208 Jan 05 22:47	0°⋜		retrograde	12210 Aug 13 09:39	0° <b>ჲ</b> 26'11	
	12208 Jan 30 11:09	0° <b>≈</b>			12210 Aug 18 00:57	30°R,™)	
	12208 Feb 23 20:05	0° <b>∀</b>		evening set	12210 Aug 28 01:32	26° m 13'41	
morning set	12208 Feb 27 19:41	4° <b>)</b> 55′03		inferior conj	12210 Sep 03 07:33	22° m) 33'35	-0°03'44
desc. node	12208 Mar 18 05:37	28° <b>¥</b> 55'48		minimum elong	12210 Sep 03 07:24	22°m 33'49	
	12208 Mar 19 02:20	0° <b>Υ</b>		transit middle	12210 Sep 03 07:24	22° m 33'49	0°03'52
max. Earth dist.	12208 Apr 03 09:12	18° <b>Y</b> 58'33	1.72276 AU	transit begin	12210 Sep 03 03:26	22° m) 39'53	
				transit end	12210 Sep 03 11:21	22° m) 27'45	
superior conj	12208 Apr 06 15:09	23° <b>Y</b> ′00'51	-0°44'54	min. Earth dist.	12210 Sep 02 23:05	22° m) 46'32	0.27237 AU
minimum elong	12208 Apr 06 05:30	22° <b>Y</b> '30'52		desc. node	12210 Sep 03 01:46	22° m/42'26	,,
8	12208 Apr 12 05:52	0°8		morning rise	12210 Sep 09 13:39	18° <b>m</b> ) 53'48	
	12208 May 06 06:51	0°II		direct	12210 Sep 24 02:26	14° m) 46'52	
evening rise	12208 May 15 23:00	12° <b>Ⅱ</b> 05'49		greatest brilliancy	12210 Oct 03 21:40	16° mp 32'11	-4.8m
evening rise	12208 May 30 06:18	0°99		greatest orimaney	12210 Oct 26 03:33	0∘ <del>ت</del>	1.011
	12208 Jun 23 06:07	0° <b>U</b>		morning max el	12210 Nov 12 07:25	ა <b>—</b> 15° <b>ჲ</b> 17'21	46°00'42
asc. node	12208 Jul 08 21:33	19° <b>Ω</b> 29'34		morning max cr	12210 Nov 26 21:36	0°M	40 00 42
asc. node	12208 Jul 17 08:36	0° m)			12210 Dec 24 08:10	0° <b>⊼</b>	
	12208 Aug 10 16:17	0∘ <del>ত</del> الم		asc. node	12210 Dec 25 02:09	0° <b>₹</b> 50'55	
	12208 Aug 10 10:17 12208 Sep 04 08:56	0° <b>™</b>		asc. Houc	12210 Dec 23 02:09 12211 Jan 19 06:55	0×3033	
	12208 Sep 04 08:30 12208 Sep 29 17:42	0° <b>⊼</b> ¹			12211 Jah 19 00:35	0°≈	
	12208 Sep 29 17:42 12208 Oct 26 10:27	0° <b>ਨ</b>			12211 Feb 13 11:13 12211 Mar 10 04:49	0° <b>∺</b>	
desc. node		0°る 2° <b>る</b> 32'15				0° <b>ℋ</b> 0° <b>Ƴ</b>	
	12208 Oct 28 19:08		15055111	daga rada	12211 Apr 03 15:21		
evening max el	12208 Nov 16 03:56	21°る18'04	43 33 14	desc. node	12211 Apr 15 19:43	15° <b>Y</b> 03'35	
areatest built	12208 Nov 25 13:10	0°≈ 10°a a 41'48	4.7m-	momist	12211 Apr 27 20:34	0° <b>8</b>	
greatest brilliancy	12208 Dec 25 07:21	19°≈41'48	-4.7m	morning set	12211 May 11 18:37	17° <b>႘</b> 20'33	
retrograde	12209 Jan 04 01:52	21°≈25'47			12211 May 21 21:36	0° <b>∏</b>	
evening set	12209 Jan 20 13:14	16°≈15'55	5020127	F. (1. F.)	12211 Jun 14 19:52	0°©	1 71200 444
inferior conj	12209 Jan 25 11:21	13°≈15'15		max. Earth dist.	12211 Jun 20 01:56	6° <b>©</b> 35'52	1.71380 AU
minimum elong	12209 Jan 25 21:17	12° <b>≈</b> 59'38	5~29.35				

superior conj	12211 Jun 20 23:24	7° <b>©</b> 43'15	-1°24'18		12213 Nov 19 09:13	30°RM	
minimum elong	12211 Jun 21 05:38	8° <b>©</b> 02'51	1°25'05	direct	12213 Dec 05 09:52	25°M05'20	
	12211 Jul 08 17:12	$0$ $^{\circ}$ $\Omega$		greatest brilliancy	12213 Dec 15 04:51	26°M50'23	-4.7m
evening rise	12211 Jul 31 07:49	28° <b>Ω</b> 20'59			12213 Dec 22 08:43	0° <b>∡</b> ¹	
	12211 Aug 01 15:28	0° <b>m</b> )		asc. node	12214 Jan 21 13:03	23° <b>∡</b> ³33'55	
asc. node	12211 Aug 06 10:43	6° Mp 00′20		morning max el	12214 Jan 23 08:14	25° <b>∡</b> 17'34	45°42'40
	12211 Aug 25 16:13	0∘ <b>⊽</b>			12214 Jan 28 03:08	8°0	
	12211 Sep 18 20:56	$0^{\circ}$ M			12214 Feb 25 05:19	0° <b>≈</b>	
	12211 Oct 13 07:50	0° <b>∡</b> ¹			12214 Mar 23 06:40	0° <b>)</b>	
	12211 Nov 07 04:36	0°ප			12214 Apr 17 09:55	0° <b>Ƴ</b>	
desc. node	12211 Nov 26 05:34	22° <b>ろ</b> 29'09			12214 May 12 00:33	0°8	
	12211 Dec 02 16:51	0° <b>≈</b>		desc. node	12214 May 13 09:25	1° <b>8</b> 40'58	
	12211 Dec 29 06:41	0° <b>∀</b>			12214 Jun 05 07:02	$\Pi$ °0	
	12212 Jan 27 02:37	0° <b>Υ</b>			12214 Jun 29 08:25	0ಂ <b>ತಾ</b>	
evening max el	12212 Jan 27 07:35	0° <b>Υ</b> 11'59	45°57'57		12214 Jul 23 07:28	$0$ ° $\Omega$	
greatest brilliancy	12212 Mar 06 14:07	29° <b>Y</b> ′00′06	-4.8m	morning set	12214 Jul 25 23:44	3° <b>Ω</b> 21'14	
	12212 Mar 09 22:12	0°8			12214 Aug 16 06:25	0° <b>m</b>	
retrograde	12212 Mar 16 12:50	0° <b>8</b> 49'57					
asc. node	12212 Mar 18 06:47	0° <b>8</b> 46'16		superior conj	12214 Sep 03 10:03	22° m/41'19	0°00'58
	12212 Mar 22 22:21	30°₹ <b>Υ</b>		minimum elong	12214 Sep 03 09:53	22° m/40'46	0°00'46
evening set	12212 Mar 31 11:25	26° <b>Y</b> 26'34	4020110	behind sun begin	12214 Sep 02 09:21	21° Th 24'09	
inferior conj	12212 Apr 06 10:57	22° <b>Y</b> 52'44		behind sun end	12214 Sep 04 10:25	23° m 57'23	
minimum elong	12212 Apr 06 01:36	23° <b>Y</b> 07'15	4°35′28 0.27742 AU	asc. node	12214 Sep 03 00:41	22° m) 12'00	1 71022 411
min. Earth dist.	12212 Apr 06 12:09	22° <b>Y</b> 50'53 19° <b>Y</b> 44'43	0.27742 AU	max. Earth dist.	12214 Sep 05 21:19	25°1 <b>1</b> 0/46′19	1.71922 AU
morning rise	12212 Apr 11 15:30	19° <b>Y</b> 44°43			12214 Sep 09 06:37	0° <b>™</b>	
direct	12212 Apr 27 10:59	14° <b>Y</b> 49'42 16° <b>Y</b> 48'55	-4.9m	evening rise	12214 Oct 03 08:43	10°M24'38	
greatest brilliancy	12212 May 07 17:41	0° <b>8</b>	-4.9m	evening rise	12214 Oct 11 17:54	10°11L24'38	
morning max el	12212 May 28 21:51 12212 Jun 16 21:01	17° <b>8</b> 28'51	16051111		12214 Oct 27 13:36 12214 Nov 20 22:43	0°る	
morning max er	12212 Jun 28 21:36	0°Ⅱ	40 34 14		12214 Nov 20 22.43 12214 Dec 15 13:59	0°≈	
desc. node	12212 Jul	0 Ⅱ 10°Ⅱ18'06		desc. node	12214 Dec 13 13:39 12214 Dec 23 17:09	0 ≈ 9°≈49'13	
desc. node	12212 Jul 08 07:40 12212 Jul 25 15:26	0°50		desc. node	12214 Dec 23 17:09 12215 Jan 09 13:01	0° <b>)</b>	
	12212 Jul 23 13:20 12212 Aug 20 01:42	0° <b>U</b>			12215 Feb 03 21:42	0° <b>Υ</b>	
	12212 Nug 20 01:42 12212 Sep 13 23:05	0° m)			12215 Mar 01 20:51	%8 0°8	
	12212 Oct 08 14:45	0∘ <del>ত</del> الأ			12215 Mar 29 02:55	0°II	
asc. node	12212 Oct 29 02:51	ა <b>_</b> 25° <b>ჲ</b> 04'33		evening max el	12215 Apr 09 15:21	11° <b>Ⅱ</b> 48'28	46°29'50
	12212 Nov 02 03:15	0°M		asc. node	12215 Apr 15 16:20	17° <b>Ⅲ</b> 39'57	,
	12212 Nov 26 13:22	0° <b>⊼</b>			12215 Apr 29 18:47	0°©	
morning set	12212 Dec 17 12:58	25° <b>х</b> 50'56		greatest brilliancy	12215 May 20 01:09	12° <b>©</b> 05'37	-4.9m
S	12212 Dec 20 21:47	ರ°0		retrograde	12215 May 29 14:14	13° <b>5</b> 548'04	
	12213 Jan 14 05:26	0° <b>≈</b>		evening set	12215 Jun 16 15:27	7° <b>9</b> 36'26	
				inferior conj	12215 Jun 19 06:00	6° <b>©</b> 00'37	8°59'30
superior conj	12213 Jan 23 07:04	11° <b>≈</b> 11'13	0°56'26	minimum elong	12215 Jun 19 11:07	5° <b>9</b> 52'43	8°58'15
minimum elong	12213 Jan 23 16:49	11° <b>≈</b> 41'19	0°56'47	min. Earth dist.	12215 Jun 19 14:48	5° <b>5</b> 47'01	0.27242 AU
max. Earth dist.	12213 Jan 23 03:22	10° <b>≈</b> 59'49	1.73150 AU	morning rise	12215 Jun 22 06:45	4° <b>©</b> 09'23	
	12213 Feb 07 13:00	0° <b>∀</b>			12215 Jun 30 11:32	30°RⅡ	
desc. node	12213 Feb 17 17:27	12° <b>)</b> 33′59		direct	12215 Jul 10 00:45	28° <b>Ⅱ</b> 08'59	
evening rise	12213 Mar 02 05:49	28° <b>米</b> 01′02			12215 Jul 19 22:33	$0$ $\circ$ $\mathfrak{s}$	
	12213 Mar 03 20:21	0° <b>Ƴ</b>		greatest brilliancy	12215 Jul 19 22:28	29° <b>∏</b> 59'56	-4.9m
	12213 Mar 28 02:55	$0^{\circ}S$		desc. node	12215 Aug 05 18:06	9° <b>©</b> 39'28	
	12213 Apr 21 08:41	$\Pi$ °0			12215 Aug 28 16:02	$0$ $^{\circ}$ $\Omega$	
	12213 May 15 15:03	0ം <b>ತಾ</b>		morning max el	12215 Aug 29 08:41	0° <b>Ω</b> 41'26	46°46'18
	12213 Jun 09 01:03	$0^{\circ}\Omega$			12215 Sep 25 21:23	0° <b>™</b>	
asc. node	12213 Jun 10 11:17	1° <b>Ω</b> 44'30			12215 Oct 22 04:17	0∘ <b>ত</b>	
	12213 Jul 03 19:33	0° m)			12215 Nov 16 16:02	0°M	
	12213 Jul 29 07:02	0∘ <b>⊽</b>		asc. node	12215 Nov 26 15:55	11°M55'46	
	12213 Aug 25 08:11	0°M,	4 600 6100		12215 Dec 11 16:40	0° <b>∡</b> ¹	
evening max el	12213 Sep 03 17:53	9°M38'59	46°26'29		12216 Jan 05 09:48	0°30	
dogo rJ-	12213 Sep 26 17:30	0° ⊀¹ 2° ⋅₹20/22			12216 Jan 29 21:55	0° <b>≈</b>	
desc. node	12213 Sep 30 11:27	2° <b>×</b> <sup>7</sup> 39'32	1 9m	morning set	12216 Feb 23 06:45	0° <b>∺</b> 2° <b>∺</b> 42'45	
greatest brilliancy	12213 Oct 12 18:27	9° <b>х</b> 16'40 11° <b>х</b> 27'09	-4.8m	morning set desc. node	12216 Feb 25 11:29	28° <del>)(</del> 28'48	
retrograde evening set	12213 Oct 23 16:14 12213 Nov 10 06:02	5° <b>x</b> <sup>7</sup> 33'40		uese. Houe	12216 Mar 17 07:33 12216 Mar 18 12:59	28°π28'48 0°Υ	
min. Earth dist.	12213 Nov 10 06:02 12213 Nov 13 10:28		0.28702 AU	max. Earth dist.	12216 Mar 18 12:39 12216 Mar 31 22:43	0° γ 16° <b>Υ</b> 38'13	1.72324 AU
inferior conj	12213 Nov 13 10:28 12213 Nov 14 02:05	3° <b>x</b> '36'14'30'14'3° <b>x</b> '11'52		max. Darui Uist.	12210 IVIAI 31 22.43	10 1 36 13	1.74344 AU
minimum elong	12213 Nov 14 02.03 12213 Nov 13 19:52	3° <b>₹</b> 11 32 3° <b>₹</b> 21'34		superior conj	12216 Apr 04 04:52	20° <b>Ƴ</b> 41'02	-0°41'43
morning rise	12213 Nov 13 19.32 12213 Nov 17 09:57	1°×7'08'58	3 20 10	minimum elong	12216 Apr 04 04.32 12216 Apr 03 19:44	20° <b>Υ</b> 12'39	
	12213 1101 17 07.37			minimum ciong	.221071pi 03 17.44	20 1 12 JJ	5 11 51

	12216 Apr. 11 16:26	0° <b>႘</b>			12219 Nov. 26, 15.50	0°M	
	12216 Apr 11 16:36 12216 May 05 17:41	0°II			12218 Nov 26 15:59	0 IIL 0° <b>∡</b> 7	
evening rise	12216 May 03 17.41 12216 May 13 11:16	0 <u>П</u> 9° <b>П</b> 40'01		asc. node	12218 Dec 23 22:36 12218 Dec 24 04:08	0° <b>х</b> ¹ 15'42	
evening rise	12216 May 13 11:16 12216 May 29 17:16	9 <b>п</b> 4001		asc. node	12218 Dec 24 04.08 12219 Jan 18 19:38	0 x・1342 0°る	
	12216 May 29 17.16 12216 Jun 22 17:16	0°Ω			12219 Jan 18 19.38 12219 Feb 12 23:06	0°≈	
aga mada	12216 Jul	19° <b>Ω</b> 00'20			12219 Feb 12 25:06 12219 Mar 09 16:10	0 <b>≈</b> 0° <b>∺</b>	
asc. node		0° M)				0 <del>Υ</del> 0° <b>Υ</b>	
	12216 Jul 16 19:59	0ം <b>⊽</b>		desc. node	12219 Apr 03 02:26	0° γ 14° <b>Υ</b> 35'16	
	12216 Aug 10 04:03	0°M		desc. node	12219 Apr 14 21:37	0° <b>8</b>	
	12216 Sep 03 21:23			. ,	12219 Apr 27 07:32		
	12216 Sep 29 07:29	0° <b>∡</b> 7		morning set	12219 May 09 06:37	14° <b>႘</b> 54'06 0° <b>Ⅱ</b>	
	12216 Oct 26 03:18	0°る			12219 May 21 08:32		
desc. node	12216 Oct 27 21:03	1°る51'28	45055156	D. d. U.	12219 Jun 14 06:48	0°50	1 71204 411
evening max el	12216 Nov 13 17:49	19° <b>ろ</b> 02'18	45°55'56	max. Earth dist.	12219 Jun 17 12:32	4° <b>©</b> 04'04	1.71394 AU
4 41 711	12216 Nov 25 16:56	0°≈ 17021120	4.7		12210 1 10 11 11	50615110	1005117
greatest brilliancy	12216 Dec 22 23:04	17°≈31'20	-4.7m	superior conj	12219 Jun 18 11:11	5°915'10	
retrograde	12217 Jan 01 17:16	19°≈15'28		minimum elong	12219 Jun 18 16:29	5° <b>©</b> 31'47	1°26'05
evening set	12217 Jan 18 07:54	14°≈00'59	50 40H 6		12219 Jul 08 04:10	0°Ω	
inferior conj	12217 Jan 23 03:21	11° <b>≈</b> 04'23		evening rise	12219 Jul 28 19:46	25° <b>Ω</b> 53'39	
minimum elong	12217 Jan 23 13:25				12219 Aug 01 02:30	0° <b>m</b> )	
min. Earth dist.	12217 Jan 23 16:30	10° <b>≈</b> 43'42	0.28711 AU	asc. node	12219 Aug 05 12:42	5° m/32'00	
morning rise	12217 Jan 28 18:37	7° <b>≈</b> 38'30			12219 Aug 25 03:22	0∘ <b>⊽</b>	
direct	12217 Feb 13 11:57	2° <b>≈</b> 50'02			12219 Sep 18 08:16	$0^{\circ}$ M	
asc. node	12217 Feb 17 23:07	3° <b>≈</b> 12'57			12219 Oct 12 19:30	0° <b>∡</b> ¹	
greatest brilliancy	12217 Feb 24 11:22	5° <b>≈</b> 01'52	-4.8m		12219 Nov 06 16:52	0°ಕ	
	12217 Mar 30 18:00	0° <b>ℋ</b>		desc. node	12219 Nov 25 07:29	21° <b>る</b> 56'35	
morning max el	12217 Apr 04 01:38	4° <b>升</b> 11'47	46°12'33		12219 Dec 02 06:20	0° <b>≈</b>	
	12217 Apr 28 11:51	$0^{\circ}$ Y			12219 Dec 28 22:43	0° <b>ℋ</b>	
	12217 May 24 15:39	$0^{\circ}$ 8		evening max el	12220 Jan 24 23:28	27° <b>¥</b> 59′27	45°57'19
desc. node	12217 Jun 09 22:04	19° <b>8</b> 21'11			12220 Jan 27 01:51	$0$ ° $\Upsilon$	
	12217 Jun 18 17:50	$\Pi$ $^{\circ}0$		greatest brilliancy	12220 Mar 04 03:52	26° <b>Ƴ</b> 41'43	-4.8m
	12217 Jul 13 06:59	$0$ $\circ$ $\odot$		retrograde	12220 Mar 14 03:30	28° <b>Ƴ</b> 31'44	
	12217 Aug 06 13:44	$0^{\circ}\Omega$		asc. node	12220 Mar 17 08:48	28° <b>Ƴ</b> 19'11	
	12217 Aug 30 18:05	0° <b>™</b>		evening set	12220 Mar 29 00:04	24° <b>Ƴ</b> 10′53	
	12217 Sep 23 22:03	0∘ <b>⊽</b>		inferior conj	12220 Apr 04 01:24	20° <b>Ƴ</b> 34'09	4°18'24
asc. node	12217 Sep 30 14:48	8° <b>≙</b> 18'47		minimum elong	12220 Apr 03 16:32	20° <b>Ƴ</b> 47'55	4°15'42
morning set	12217 Oct 06 13:04	15° <b>≏</b> 40'13		min. Earth dist.	12220 Apr 04 02:36	20° <b>Ƴ</b> 32'16	0.27760 AU
	12217 Oct 18 02:18	0° <b>M</b> ₊		morning rise	12220 Apr 09 08:48	17° <b>Ƴ</b> 22'04	
	12217 Nov 11 07:11	0° <b>∡</b> ¹		direct	12220 Apr 25 02:16	12° <b>Y</b> 31'03	
				greatest brilliancy	12220 May 05 08:21	14° <b>Ƴ</b> 29'53	-4.9m
superior conj	12217 Nov 13 06:05	2° <b>₹</b> 25'10	1°21'12		12220 May 29 07:09	0° <b>႘</b>	
minimum elong	12217 Nov 12 23:47	2° <b>₹</b> 05'40	1°21'49	morning max el	12220 Jun 14 12:00	15° <b>8</b> 10'14	46°53'21
max. Earth dist.	12217 Nov 14 22:34	4° <b>∡</b> ³30′29	1.72879 AU	C	12220 Jun 28 16:07	$\Pi^{\circ}0$	
	12217 Dec 05 13:26	ರ°0		desc. node	12220 Jul 07 09:46	9° <b>Ⅱ</b> 37'00	
evening rise	12217 Dec 20 03:27	17° <b>る</b> 58'50			12220 Jul 25 06:15	0° <b>©</b>	
8 21	12217 Dec 29 21:59	0° <b>≈</b>			12220 Aug 19 14:54	0°N	
desc. node	12218 Jan 20 05:48	26°≈08'59			12220 Sep 13 11:22	0° m/y	
***************************************	12218 Jan 23 09:22	0° <b>)</b> €			12220 Oct 08 02:28	0∘ <del>⊽</del>	
	12218 Feb 16 23:22	0° <b>Υ</b>		asc. node	12220 Oct 28 04:40	24° <b>£</b> 35'18	
	12218 Mar 13 15:48	0°8			12220 Nov 01 14:33	0° <b>M</b>	
	12218 Apr 07 12:07	0°П			12220 Nov 26 00:22	0° <b>∡</b> 7	
	12218 May 02 17:21	0°©		morning set	12220 Dec 15 06:01	23° <b>х</b> 42'05	
asc. node	12218 May 13 02:10	12° <b>©</b> 05'39		morning sec	12220 Dec 20 08:36	0°る	
ase. Hode	12218 May 28 19:43	0°Ω			12221 Jan 13 16:12	0° <b>≈</b>	
evening max el	12218 Jun 21 14:30	25° <b>Ω</b> 23'16	46°49'09		12221 Juli 13 10.12	∘ ~	
evening max er	12218 Jun 26 06:39	0° m)	40 49 09	superior conj	12221 Jan 20 23:35	9° <b>≈</b> 00'53	0°58'56
greatest brilliancy	12218 Jul 20 00.39	25° m 58'30	-4.9m	minimum elong	12221 Jan 20 23:33 12221 Jan 21 09:23	9° <b>≈</b> 31'08	0°59'18
			-4.9111	•			1.73157 AU
retrograde	12218 Aug 10 23:39	28° Mp 03'15		max. Earth dist.	12221 Jan 20 23:12	8°≈59'43 0° <b>∺</b>	1./313/ AU
evening set	12218 Aug 25 15:48	23° Mp 49'29	0°20'03	desc. node	12221 Feb 06 23:48	12° <b>∺</b> 06'30	
inferior conj	12218 Aug 31 20:49	20° Mp 11'07			12221 Feb 16 19:23		
minimum elong	12218 Aug 31 21:35	20° Mp 09'56	0°19'33	evening rise	12221 Feb 27 21:17	25° <b>)</b> 46′54 0° <b>°</b>	
min. Earth dist.	12218 Aug 31 13:28	20° Mp 22'21	0.27205 AU		12221 Mar 03 07:18		
desc. node	12218 Sep 02 03:52	19° Mp 23'46			12221 Mar 27 14:03	0° <b>Β</b>	
morning rise	12218 Sep 07 03:45	16° Tp 30'40			12221 Apr 20 20:04	0°II	
direct	12218 Sep 21 15:18	12° Tp 24'31	4.0		12221 May 15 02:46	0°©	
greatest brilliancy	12218 Oct 01 11:22	14° Mp 10'57	-4.8m	_	12221 Jun 08 13:19	0°N	
	12218 Oct 26 13:27	0∘ <b>ʊ</b>	4.0000::0	asc. node	12221 Jun 09 13:15	1° <b>Ω</b> 12'59	
morning max el	12218 Nov 09 22:06	13° <b>≏</b> 00'54	46~02'10		12221 Jul 03 08:46	0° <b>m</b> )	

	12221 Jul 28 22:04	0∘ <b>ऌ</b>		asc. node	12223 Nov 25 17:52	11°M25'36	
	12221 Aug 25 03:39	0° <b>M</b> ₊			12223 Dec 11 04:16	0° <b>⊼</b>	
evening max el	12221 Sep 01 09:38	7° <b>M</b> 23'47	46°27'28		12224 Jan 04 20:58	0°₹	
	12221 Sep 27 12:28	0° <b>⊼</b> ¹			12224 Jan 29 08:50	0° <b>≈</b>	
desc. node	12221 Sep 29 13:22	1° <b>≯</b> ′21'46			12224 Feb 22 17:32	0° <b>₩</b>	
greatest brilliancy	12221 Oct 10 09:52	7° <b>∡</b> ¹02'33	-4.8m	morning set	12224 Feb 23 03:12	0° <b>)</b> 29'48	
retrograde	12221 Oct 21 07:52	9°×713'02		desc. node	12224 Mar 16 09:19	28° <b>\</b> 00'57	
evening set	12221 Nov 07 18:22	3° <b>₹</b> ¹25'02		dese. Hode	12224 Mar 17 23:45	0° <b>Υ</b>	
min. Earth dist.	12221 Nov 07 18:22 12221 Nov 11 01:00		0.28659 AU	max. Earth dist.	12224 Mar 29 14:43	14° <b>Υ</b> 25'24	1.72367 AU
				max. Earm dist.	12224 Wiai 29 14.43	14 1 23 24	1.72307 AU
inferior conj	12221 Nov 11 17:32	0° ₹ 58′26			12224 4 01 10 22	1000000155	0020126
minimum elong	12221 Nov 11 10:40	1° <b>∡</b> 709'09	8°13′28	superior conj	12224 Apr 01 18:32	18° <b>Y</b> 20'55	
	12221 Nov 13 07:04	30°RM₁		minimum elong	12224 Apr 01 09:58	17° <b>Y</b> ′54'17	0°38'15
morning rise	12221 Nov 15 03:14	28°M52'40			12224 Apr 11 03:22	0°B	
direct	12221 Dec 03 01:20	22°M52'54			12224 May 05 04:32	$\Pi$ °0	
greatest brilliancy	12221 Dec 12 18:35	24°M36'20	-4.7m	evening rise	12224 May 10 23:44	7° <b>Ⅱ</b> 14'55	
	12221 Dec 23 20:16	0° <b>∡</b> ¹			12224 May 29 04:16	$0$ $\circ$ $\odot$	
asc. node	12222 Jan 20 15:08	22° <b>҂</b> ¹44'16			12224 Jun 22 04:28	$0^{\circ}\Omega$	
morning max el	12222 Jan 20 22:29	23° <b>∡</b> 02′00	45°42'24	asc. node	12224 Jul 07 01:24	18° <b>Ω</b> 31′20	
	12222 Jan 27 23:23	0°ರ			12224 Jul 16 07:26	o∘ <b>m</b> y	
	12222 Feb 24 20:21	0° <b>≈</b>			12224 Aug 09 15:53	0∘ <b>⊽</b>	
	12222 Mar 22 19:44	0° <b>)</b> €			12224 Sep 03 09:54	0° <b>M</b> .	
	12222 Apr 16 22:04	0°Υ			12224 Sep 28 21:23	0° <b>∡</b> 7	
	12222 May 11 12:11	0°8			12224 Oct 25 20:29	0°ਰ	
desc. node	12222 May 12 11:11	1° <b>8</b> 10'44		desc. node	12224 Oct 26 23:00	1°る10'20	
desc. node	12222 Jun 04 18:20	0°II		evening max el	12224 Nov 11 07:57	16° <b>පි</b> 47'15	15056131
		0°©		evening max er			45 50 54
	12222 Jun 28 19:31			4 41 111	12224 Nov 25 22:42	0°≈ 150××10142	4.7
	12222 Jul 22 18:26	0°N		greatest brilliancy	12224 Dec 20 14:01	15°≈19'42	-4.7m
morning set	12222 Jul 23 12:30	0° <b>Ω</b> 56'36		retrograde	12224 Dec 30 08:57	17°≈04'42	
	12222 Aug 15 17:17	0° <b>m</b> )		evening set	12225 Jan 16 02:26	11° <b>≈</b> 45'22	
				inferior conj	12225 Jan 20 19:10	8° <b>≈</b> 52'55	
superior conj	12222 Aug 31 23:46	20° <b>m</b> 20'31		minimum elong	12225 Jan 21 05:21	8° <b>≈</b> 36'56	
minimum elong	12222 Sep 01 00:30	20° <b>m</b> 22'47	0°02'56	min. Earth dist.	12225 Jan 21 08:09	8° <b>≈</b> 32'33	0.28747 AU
behind sun begin	12222 Aug 31 00:09	19° <b>m</b> 06'43		morning rise	12225 Jan 26 07:57	5° <b>≈</b> 30'47	
behind sun end	12222 Sep 02 00:51	21° <b>m</b> 38'49		direct	12225 Feb 11 03:38	0° <b>≈</b> 38′06	
asc. node	12222 Sep 02 02:30	21° <b>M</b> 43'59		asc. node	12225 Feb 17 01:05	1° <b>≈</b> 17'42	
max. Earth dist.	12222 Sep 03 11:32	23° <b>m</b> 27'05	1.71886 AU	greatest brilliancy	12225 Feb 22 03:42	2° <b>≈</b> 50'33	-4.8m
	12222 Sep 08 17:25	0∘ <b>亚</b>			12225 Mar 30 17:07	0° <b>∀</b>	
	12222 Oct 02 19:32	0° <b>M</b> .		morning max el	12225 Apr 01 17:22	1° <b>¥</b> 58′09	46°11'07
evening rise	12222 Oct 09 09:39	8°M10'58		•	12225 Apr 28 03:49	$0^{\circ}$ Y	
•	12222 Oct 27 00:29	0° <b>≯</b> ¹			12225 May 24 05:12	0° <b>႘</b>	
	12222 Nov 20 09:49	0°ರ		desc. node	12225 Jun 09 00:08	18° <b>8</b> 49'03	
	12222 Dec 15 01:26	0° <b>≈</b>			12225 Jun 18 06:14	0°II	
desc. node	12222 Dec 12 01:20 12222 Dec 22 19:07	9° <b>≈</b> 20'09			12225 Jul 12 18:44	0°9	
dese. Hode	12223 Jan 09 01:06	0° <b>\</b>			12225 Aug 06 01:06	0° <b>Ω</b>	
	12223 Feb 03 10:50	0° <b>Υ</b>			12225 Aug 30 05:09	0° m/y	
	12223 Mar 01 11:55	0.8 0 1			12225 Aug 30 03:07 12225 Sep 23 08:52	0∘ <del>ত</del> مالہ	
	12223 Mar 01 11:33 12223 Mar 28 22:29	0°II		asc. node	-	0 <b>=</b> 7° <b>ჲ</b> 50'53	
			46920125		12225 Sep 29 16:35		
evening max el	12223 Apr 07 03:51	9° <b>Ⅱ</b> 23'35	46°28'35	morning set	12225 Oct 04 04:07	13° <b>£</b> 24'36	
asc. node	12223 Apr 14 18:13	16° <b>Ⅱ</b> 42'48			12225 Oct 17 12:56	0° <b>M</b> ₊	
	12223 Apr 30 11:00	0°€					
greatest brilliancy	12223 May 17 14:55	9°5542'04	-4.9m	superior conj	12225 Nov 10 22:51	0° <b>√</b> 15'49	
retrograde	12223 May 27 02:39	11° <b>©</b> 23'43		minimum elong	12225 Nov 10 15:58	29°M54'30	1°20'37
evening set	12223 Jun 14 06:17	5° <b>©</b> 09'27			12225 Nov 10 17:44	0° <b>∡</b> ¹	
inferior conj	12223 Jun 16 19:08	3° <b>©</b> 36'11	9°04'20	max. Earth dist.	12225 Nov 12 15:55	2° <b>∡</b> ¹22'58	1.72855 AU
minimum elong	12223 Jun 16 23:20	3° <b>5</b> 29'41	9°03'13		12225 Dec 04 23:59	0°₹	
min. Earth dist.	12223 Jun 17 03:58	3° <b>5</b> 22'32	0.27260 AU	evening rise	12225 Dec 17 20:16	15° <b>る</b> 50'15	
morning rise	12223 Jun 19 16:22	1° <b>©</b> 50'08			12225 Dec 29 08:39	0° <b>≈</b>	
	12223 Jun 22 20:51	30° <b>Ŗ</b> Ⅱ		desc. node	12226 Jan 19 07:46	25° <b>≈</b> 41'48	
direct	12223 Jul 07 13:21	25° <b>Ⅱ</b> 43'59			12226 Jan 22 20:15	0° <b>)</b>	
greatest brilliancy	12223 Jul 17 12:07	27° <b>II</b> 35'28	-4.9m		12226 Feb 16 10:37	$0^{\circ}$ Y	
•	12223 Jul 22 23:44	0ංම			12226 Mar 13 03:35	0°B	
desc. node	12223 Aug 04 20:05	8° <b>5</b> 24'37			12226 Apr 07 00:43	0°II	
morning max el	12223 Aug 26 21:21	28°9516'09	46°47'38		12226 May 02 07:20	0°©	
<i>5 c</i> -	12223 Aug 28 14:43	0° <b>Ω</b>		asc. node	12226 May 12 04:12	11° <b>5</b> 28'48	
	12223 Nag 26 11:13 12223 Sep 25 13:33	0° m)			12226 May 28 12:30	0° <b>Ω</b>	
	12223 Oct 21 17:56	0∘ <b>⊽</b>		evening max el	12226 Jun 19 04:37	23° <b>Ω</b> 01'59	46°49'17
	12223 Nov 16 04:22	0° <b>™</b>		J. J	12226 Jun 26 07:47	0° m)	.0 .7 17
	12223 110V 10 UT.22	∪ IIU			12220 Juli 20 07.47	עיייי	

greatest brilliancy	12226 Jul 29 01:31	23° m/36'11	-4.9m	minimum elong	12229 Jan 19 02:07	7° <b>≈</b> 22'35	1°01'43
retrograde	12226 Aug 08 14:00	25° m/40'49	,	max. Earth dist.	12229 Jan 18 17:24	6°≈55'44	1.73161 AU
evening set	12226 Aug 23 06:17	21° m/25'38			12229 Feb 06 10:14	0° <b>)</b> €	
inferior conj	12226 Aug 29 10:02	17° <b>m</b> ) 49'02	0°43'50	desc. node	12229 Feb 15 21:10	11° <b>)</b> 39'41	
minimum elong	12226 Aug 29 11:44	17° <b>m</b> ) 46'27	0°43'00	evening rise	12229 Feb 25 12:53	23° <b>)</b> 34'22	
min. Earth dist.	12226 Aug 29 03:32	17° <b>m</b> 58'57	0.27176 AU	C	12229 Mar 02 17:51	$0^{\circ}$ Y	
desc. node	12226 Sep 01 05:50	16° Mp 06'34			12229 Mar 27 00:49	0°8	
morning rise	12226 Sep 04 17:36	14° Mp 08'12			12229 Apr 20 07:07	$\Pi$ $^{\circ}0$	
direct	12226 Sep 19 04:37	10° <b>m</b> 02'40			12229 May 14 14:13	$0$ $\circ$ $\odot$	
greatest brilliancy	12226 Sep 29 00:30	11° <b>m</b> )49'31	-4.8m		12229 Jun 08 01:23	$0^{\circ}\Omega$	
	12226 Oct 26 20:22	0∘ <b>⊽</b>		asc. node	12229 Jun 08 15:13	0° <b>Ω</b> 42′08	
morning max el	12226 Nov 07 13:10	10° <b>≏</b> 46′04	46°03'40		12229 Jul 02 21:50	0° <b>™</b>	
	12226 Nov 26 09:38	$0^{\circ}$ M			12229 Jul 28 13:01	0∘ <b>⊽</b>	
asc. node	12226 Dec 23 06:09	29°M41'38			12229 Aug 24 23:21	$0^{\circ}$ M	
	12226 Dec 23 12:35	0° <b>∡</b> ¹		evening max el	12229 Aug 30 00:22	5°M06'47	46°28'37
	12227 Jan 18 08:00	8°0		desc. node	12229 Sep 28 15:20	0° <b>∡</b> °02'33	
	12227 Feb 12 10:38	0° <b>≈</b>			12229 Sep 28 13:42	0° <b>∡</b>	
	12227 Mar 09 03:16	0° <b>∀</b>		greatest brilliancy	12229 Oct 08 01:40	4° <b>∡</b> °49'42	-4.8m
	12227 Apr 02 13:19	$0^{\circ}$ Y		retrograde	12229 Oct 18 23:03	6° <b>₹</b> 59'49	
desc. node	12227 Apr 13 23:27	14° <b>Ƴ</b> 07'25		evening set	12229 Nov 05 06:31	1° <b>∡</b> 17′26	
	12227 Apr 26 18:19	$9^{\circ}$ 8			12229 Nov 07 09:25	30°RM₊	
morning set	12227 May 06 18:21	12° <b>8</b> 27'28		min. Earth dist.	12229 Nov 08 15:50	29°M12'38	0.28614 AU
	12227 May 20 19:16	$\Pi$ °0		inferior conj	12229 Nov 09 08:55	28°M45'55	-8°07'32
	12227 Jun 13 17:30	$0$ $\circ$		minimum elong	12229 Nov 09 01:26	28°M57'37	8°05'58
max. Earth dist.	12227 Jun 14 22:38	1° <b>©</b> 31'29	1.71403 AU	morning rise	12229 Nov 12 20:38	26°M37'01	
				direct	12229 Nov 30 16:11	20°M41'14	
superior conj	12227 Jun 15 22:40	2° <b>©</b> 46'55	-1°26'03	greatest brilliancy	12229 Dec 10 08:49	22°M23'40	-4.7m
minimum elong	12227 Jun 16 02:59	3° <b>©</b> 00'27	1°26'54		12229 Dec 24 20:48	0° <b>∡</b>	
	12227 Jul 07 14:51	$0$ $^{\circ}$ $\Omega$		morning max el	12230 Jan 18 12:13	20° <b>х</b> 46′12	45°42'16
evening rise	12227 Jul 26 07:28	23° <b>Ω</b> 26′24		asc. node	12230 Jan 19 17:00	21° <b>₹</b> 56′02	
	12227 Jul 31 13:14	0° <b>m</b> )			12230 Jan 27 18:34	8°0	
asc. node	12227 Aug 04 14:29	5° Mp 04'01			12230 Feb 24 10:47	0° <b>≈</b>	
	12227 Aug 24 14:13	0∘ <b>⊽</b>			12230 Mar 22 08:20	0° <b>∀</b>	
	12227 Sep 17 19:19	0°M₊			12230 Apr 16 09:46	0° <b>Υ</b>	
	12227 Oct 12 06:54	0° <b>∡</b>			12230 May 10 23:25	0°8	
	12227 Nov 06 04:54	0°ಕ		desc. node	12230 May 11 13:13	0° <b>8</b> 42'26	
desc. node	12227 Nov 24 09:33	21° <b>る</b> 25'15			12230 Jun 04 05:18	0°Щ	
	12227 Dec 01 19:35	0° <b>≈</b>			12230 Jun 28 06:19	0ა <b>ௐ</b>	
	12227 Dec 28 14:38	0° <b>\</b>		morning set	12230 Jul 21 00:45	28°531'06	
evening max el	12228 Jan 22 15:03	25° <b>)</b> €47'18	45°56'35		12230 Jul 22 05:07	0° <b>N</b>	
	12228 Jan 27 01:44	0°Υ ••••••••			12230 Aug 15 03:54	0° <b>m</b>	
greatest brilliancy	12228 Mar 01 18:01	24° <b>Y</b> °24'46	-4.8m		10000 1 00 10 00	150 W 50150	0006107
retrograde	12228 Mar 11 17:30	26° <b>℃</b> 14'11		superior conj	12230 Aug 29 13:00	17° <b>m</b> 58'59	
asc. node	12228 Mar 16 10:42	25° <b>Y</b> 47'20 21° <b>Y</b> 55'44		minimum elong	12230 Aug 29 14:39	18° Mp 04'07	0°06'39
evening set	12228 Mar 26 12:50		2050105	behind sun begin	12230 Aug 28 15:53	16° Mp 53'00	
inferior conj	12228 Apr 01 15:46		3°58'05	behind sun end	12230 Aug 30 13:25	19° Mp 15'14	1 71040 411
minimum elong min. Earth dist.	12228 Apr 01 07:27	18° <b>Y</b> 29'20 18° <b>Y</b> 13'56	3°55'31	max. Earth dist. asc. node	12230 Aug 31 22:27	20° Mp 58'23	1.71848 AU
	12228 Apr 01 17:21	15° <b>Υ</b> 00'12	0.27782 AU	asc. node	12230 Sep 01 04:18	21°Mp16'39 0°₽	
morning rise	12228 Apr 07 01:51	13 <b>γ</b> 00 12 10° <b>γ</b> 13'08			12230 Sep 08 03:58	0°M	
direct	12228 Apr 22 17:17		4 9	avanina rias	12230 Oct 02 06:03		
greatest brilliancy	12228 May 02 23:26	12° <b>Y</b> 11'51 0° <b>と</b>	-4.8M	evening rise	12230 Oct 07 01:02	5° <b>M</b> 57'01 0° <b>√</b>	
morning max el	12228 May 29 13:38 12228 Jun 12 02:05	12° <b>8</b> 49'57	46052122		12230 Oct 26 11:04 12230 Nov 19 20:37	0 <b>ਨ</b> ਰਾ	
morning max er	12228 Jun 28 09:57	0°Ⅱ	40 32 23		12230 Nov 19 20:37 12230 Dec 14 12:37	0°≈	
desc. node	12228 Jul 28 09.37 12228 Jul 06 11:42	8° <b>П</b> 56'32		desc. node	12230 Dec 14 12.37 12230 Dec 21 21:03	0 ∞ 8°≈51'55	
desc. node	12228 Jul 00 11:42 12228 Jul 24 20:37	0°95		desc. Hode	12230 Dec 21 21:05 12231 Jan 08 12:55	0° <b>∺</b>	
	12228 Aug 19 03:40	0° <b>U</b>			12231 Feb 02 23:43	0°Υ	
	12228 Aug 19 03:40 12228 Sep 12 23:14	0° mp			12231 Mar 01 02:49	%8 0°8	
	12228 Scp 12 23:14 12228 Oct 07 13:45	0∘ <del>ت</del> الأس			12231 Mar 28 18:12	0°U	
asc. node	12228 Oct 07 15:45 12228 Oct 27 06:34	ა <u>—</u> 24° <b>ჲ</b> 07'31		evening max el	12231 Apr 04 16:11	6° <b>П</b> 59'40	46°27'26
200. 11000	12228 Oct 27 00:34 12228 Nov 01 01:27	0°M		asc. node	12231 Apr 13 20:18	15° <b>∏</b> 45'59	.0 2/20
	12228 Nov 25 11:00	0° <b>⊼</b> ¹			12231 May 01 08:07	0°95	
morning set	12228 Nov 25 11:00 12228 Dec 12 23:03	21° <b>х</b> 34'18		greatest brilliancy	12231 May 15 04:09	7° <b>©</b> 19'10	-4.9m
	12228 Dec 12 23:03 12228 Dec 19 19:04	0°る		retrograde	12231 May 13 04:09 12231 May 24 15:23	9° <b>5</b> 00'47	.,,111
	12229 Jan 13 02:36	0° <b>≈</b>		evening set	12231 Jun 11 20:34	2° <b>5</b> 44'19	
	. , 15 02.50			inferior conj	12231 Jun 14 08:18	1°512'52	9°08'05
superior conj	12229 Jan 18 16:18	6° <b>≈</b> 52'20	1°01'19	minimum elong	12231 Jun 14 11:33	1° <b>©</b> 07'51	9°07'04
	10 10.10					_ 3, 31	

min. Earth dist.	12231 Jun 14 16:58	0° <b>©</b> 59'29	0.27283 AU	max. Earth dist.	12233 Nov 10 10:08	0° <b>∡</b> 18'15	1.72830 AU
	12231 Jun 16 07:39	30°RⅡ			12233 Dec 04 10:30	0°ರ	
morning rise	12231 Jun 17 02:28	29° <b>Ⅱ</b> 31'27		evening rise	12233 Dec 15 12:48	13° <b>る</b> 40'57	
direct	12231 Jul 05 02:03	23° <b>Ⅱ</b> 19'52			12233 Dec 28 19:16	0° <b>≈</b>	
greatest brilliancy	12231 Jul 15 01:50	25° <b>Ⅱ</b> 12'08	-4.9m	desc. node	12234 Jan 18 09:30	25° <b>≈</b> 14'10	
	12231 Jul 24 18:43	$0$ $\circ$			12234 Jan 22 07:05	0° <b>∀</b>	
desc. node	12231 Aug 03 22:03	7° <b>©</b> 12'39			12234 Feb 15 21:49	0° <b>Ƴ</b>	
morning max el	12231 Aug 24 11:03	25° <b>©</b> 54'01	46°48'48		12234 Mar 12 15:22	0°B	
	12231 Aug 28 12:16	$0^{\circ}\Omega$			12234 Apr 06 13:22	$\Pi$ $^{\circ}$ 0	
	12231 Sep 25 05:15	0° <b>m</b>		_	12234 May 01 21:26	0°€	
	12231 Oct 21 07:16	0∘ <b>⊽</b>		asc. node	12234 May 11 06:13	10°951'37	
	12231 Nov 15 16:26	0°M√			12234 May 28 05:35	0°Ω	
asc. node	12231 Nov 24 19:52	10°M56'22		evening max el	12234 Jun 16 19:42	20° <b>Ω</b> 43'23	46°49'22
	12231 Dec 10 15:34	0° <b>∡</b>			12234 Jun 26 10:12	0° <b>m</b> )	
	12232 Jan 04 07:50	ರ್∘ಕ		greatest brilliancy	12234 Jul 26 15:53	21° m 14'39	-4.9m
	12232 Jan 28 19:28	0° <b>≈</b>		retrograde	12234 Aug 06 04:17	23° m 18'43	
morning set	12232 Feb 20 19:03	28°≈18'03		evening set	12234 Aug 20 21:06	19° <b>m</b> 02'13	
	12232 Feb 22 04:05	0° <b>∀</b>		inferior conj	12234 Aug 26 23:20	15° <b>m</b> ) 27'27	1°07'26
desc. node	12232 Mar 15 11:13	27° <b>)</b> €34'17		minimum elong	12234 Aug 27 01:57	15° m 23'28	1°06'18
F 4 F	12232 Mar 17 10:15	0°Υ 12° <b>00</b> 15100	1.70.40 ( 1.77	min. Earth dist.	12234 Aug 26 17:37	15° Mp 36'11	0.27147 AU
max. Earth dist.	12232 Mar 27 07:56	12°° <b>y</b> ′17'08	1.72406 AU	desc. node	12234 Aug 31 07:47	12° m 51'43	
	10000 11 00 00 01	1 (00000000	000 5100	morning rise	12234 Sep 02 07:17	11° Mp 46'22	
superior conj	12232 Mar 30 08:24	16° <b>Y</b> ′02'08		direct	12234 Sep 16 18:19	7° Mp 41'31	4.0
minimum elong	12232 Mar 30 00:27	15° <b>Ƴ</b> 37'28	0°34'55	greatest brilliancy	12234 Sep 26 13:21	9° m/28'05	-4.8m
	12232 Apr 10 13:54	0° <b>8</b>			12234 Oct 27 01:03	0∘ <b>⊽</b>	4.600.4150
	12232 May 04 15:09	0° <b>П</b>		morning max el	12234 Nov 05 03:56	8° <b>₾</b> 30'32	46°04'58
evening rise	12232 May 08 12:36	4° <b>Ⅱ</b> 51'53		1	12234 Nov 26 02:54	0°M	
	12232 May 28 15:01	0°©		asc. node	12234 Dec 22 07:59	29°M07'04	
1	12232 Jun 21 15:24	0°Ω			12234 Dec 23 02:30	0°♂ 0°♂	
asc. node	12232 Jul 06 03:14	18° <b>Ω</b> 02'37			12235 Jan 17 20:23	იატ 0°≈	
	12232 Jul 15 18:39	0° <b>െ</b> 0°™			12235 Feb 11 22:13	0° <b>∺</b>	
	12232 Aug 09 03:32	0° <b>™</b>			12235 Mar 08 14:24	0° <b>Υ</b>	
	12232 Sep 02 22:20	0 IIL 0° <b>√</b> 1		daga mada	12235 Apr 02 00:13	0 <b>γ</b> 13° <b>Υ</b> 39'41	
	12232 Sep 28 11:19 12232 Oct 25 13:56	0° <b>ਨ</b> 0°ਰ		desc. node	12235 Apr 13 01:22 12235 Apr 26 05:08	0° <b>8</b>	
desc. node	12232 Oct 25 13:56 12232 Oct 26 01:06	0°る29'24		morning set	12235 Apr 26 05:08 12235 May 04 06:07	10° <b>8</b> 00'53	
	12232 Oct 20 01:00 12232 Nov 08 23:06	0 02924 14° <b>る</b> 35'02	45°57'25	morning set	12235 May 04 00:07 12235 May 20 06:04	0° <b>I</b>	
evening max el	12232 Nov 08 25:00 12232 Nov 26 06:38	0°≈	45 57 25	max. Earth dist.	12235 Jun 12 06:18	28°II50'58	1.71413 AU
greatest brilliancy	12232 Nov 20 00.38 12232 Dec 18 04:30	0 ∞ 13°≈08'15	-4.7m	max. Earth dist.	12233 Juli 12 00.16	20 113030	1./1413 AU
retrograde	12232 Dec 28 01:04	13 <b>≈</b> 00 13 14° <b>≈</b> 54'33	- <del></del>	superior conj	12235 Jun 13 10:17	0°ഇ18'48	-1°26'41
evening set	12233 Jan 13 21:03	9° <b>≈</b> 30'23		minimum elong	12235 Jun 13 13:35	0°929'10	
inferior conj	12233 Jan 18 11:03	6° <b>≈</b> 42'01	-6°17'53	minimum ciong	12235 Jun 13 04:18	0°9	1 2/32
minimum elong	12233 Jan 18 21:15	6°≈26'01			12235 Jul 07 01:40	0°N	
min. Earth dist.	12233 Jan 18 23:25	6°≈22'38		evening rise	12235 Jul 23 19:12	20° <b>Ω</b> 58'53	
morning rise	12233 Jan 23 21:12	3°≈23'57	0.20777110	evening rise	12235 Jul 31 00:05	0°m)	
	12233 Jan 31 01:53	30°Ŗる		asc. node	12235 Aug 03 16:20	4° mp 35'53	
direct	12233 Feb 08 19:50	28° <b>ろ</b> 26'56		use. noue	12235 Aug 24 01:09	0∘ <b>⊽</b>	
asc. node	12233 Feb 16 03:04	29° <b>る</b> 27'16			12235 Sep 17 06:27	0° <b>M</b>	
	12233 Feb 17 23:08	0° <b>≈</b>			12235 Oct 11 18:23	0° <b>∡</b> ¹	
greatest brilliancy	12233 Feb 19 19:25	0° <b>≈</b> 39'16	-4.8m		12235 Nov 05 17:05	0°ರ	
morning max el	12233 Mar 30 09:57	29° <b>≈</b> 47'21	46°09'37	desc. node	12235 Nov 23 11:25	20° <b>ප</b> 52'46	
	12233 Mar 30 15:04	0° <b>∀</b>			12235 Dec 01 09:06	0° <b>≈</b>	
	12233 Apr 27 19:20	$0^{\circ}\Upsilon$			12235 Dec 28 07:03	0° <b>)</b> €	
	12233 May 23 18:27	0°B		evening max el	12236 Jan 20 06:12	23° <b>)</b> €33'32	45°55'52
desc. node	12233 Jun 08 02:00	18° <b>8</b> 16'58		<b>3</b>	12236 Jan 27 03:06	$0^{\circ}\mathbf{\Upsilon}$	
	12233 Jun 17 18:24	0°II		greatest brilliancy	12236 Feb 28 08:51	22° <b>Y</b> 08'18	-4.8m
	12233 Jul 12 06:18	0° <b>©</b>		retrograde	12236 Mar 09 07:12	23° <b>Y</b> 56'39	
	12233 Aug 05 12:15	0°N		asc. node	12236 Mar 15 12:47	23° <b>Υ</b> 09'56	
	12233 Aug 29 16:02	0° <b>m</b> )		evening set	12236 Mar 24 01:59	19° <b>Ƴ</b> 40'11	
	12233 Sep 22 19:33	0∘ <b>⊽</b>		inferior conj	12236 Mar 30 06:20	15° <b>Y</b> 58'47	3°37'34
asc. node	12233 Sep 28 18:31	ა <b>—</b> 7° <b>ჲ</b> 23'49		minimum elong	12236 Mar 29 22:37	16° <b>Y</b> 10'49	3°35'09
morning set	12233 Oct 01 19:07	11° <b>⊆</b> 09'10		min. Earth dist.	12236 Mar 30 08:37	15°Υ55'13	0.27804 AU
<i>5</i>	12233 Oct 16 23:30	0°M		morning rise	12236 Apr 04 18:57	12° <b>Υ</b> 38'35	
				direct	12236 Apr 20 07:58	7° <b>Υ</b> 55'13	
superior conj					•		
	12233 Nov 08 15:21	28°M05'43	1°18'43	greatest brilliancy	12236 Apr 30 15:15	9° <b>Ƴ</b> 54'27	-4.8m
minimum elong	12233 Nov 08 15:21 12233 Nov 08 07:55	28°M05'43 27°M42'41		greatest brilliancy	12236 Apr 30 15:15 12236 May 29 18:14	9° <b>'Y'</b> 54'27 0° <b>と</b>	-4.8m
minimum elong				greatest brilliancy morning max el	-		

	12236 Jun 28 03:33	$\Pi^{\circ}0$			12238 Dec 14 00:10	0° <b>≈</b>	
desc. node	12236 Jul 28 03:35	0 П 8°П15'45		desc. node	12238 Dec 14 00:10 12238 Dec 20 22:54	0 ≈ 8°≈22'19	
desc. Hode	12236 Jul 24 11:02	о <b>п</b> 1545		desc. Hode	12239 Jan 08 01:08	0° <b>∺</b>	
	12236 Aug 18 16:36	0° <b>U</b>			12239 Feb 02 13:05	0° <b>Υ</b>	
	12236 Aug 18 10:30 12236 Sep 12 11:18	0° <b>m</b> )				0°8	
		0∘ <del>ত</del> اللا			12239 Feb 28 18:22	0°II	
	12236 Oct 07 01:14				12239 Mar 28 15:08	0°Щ 4° <b>Щ</b> 36′10	46926114
asc. node	12236 Oct 26 08:30	23° <b>△</b> 39'15		evening max el	12239 Apr 02 05:12	14° <b>II</b> 46'07	46°26'14
	12236 Oct 31 12:32	0°M 0°. <b>₹</b>		asc. node	12239 Apr 12 22:18		
	12236 Nov 24 21:49	0° <b>⊼</b> ¹		4 41 211	12239 May 02 14:26	0°95	4.0
morning set	12236 Dec 10 16:13	19° <b>∡</b> 26′13		greatest brilliancy	12239 May 12 16:42	4°953'54	-4.9m
	12236 Dec 19 05:45	0°る		retrograde	12239 May 22 04:30	6°936'13	
	12237 Jan 12 13:15	0° <b>≈</b>		evening set	12239 Jun 09 10:13	0°518'10	
	12227 1 16 00 00	40 - 42124	1002126		12239 Jun 09 22:13	30°RII	0010150
superior conj	12237 Jan 16 09:09	4°≈43'24	1°03'36	inferior conj	12239 Jun 11 21:20	28°II47'46	9°10'50
minimum elong	12237 Jan 16 18:55	5°≈13'30	1°04'03	minimum elong	12239 Jun 11 23:37	28° <b>I</b> I44'15	9°09'53
max. Earth dist.	12237 Jan 16 10:21	4°≈47'05	1.73169 AU	min. Earth dist.	12239 Jun 12 05:32	28°II35'08	0.27305 AU
1 1	12237 Feb 05 20:58	0° <b>)</b> {		morning rise	12239 Jun 14 12:58	27° <b>I</b> 10'18	
desc. node	12237 Feb 14 23:04	11° <b>)</b> 12′23		direct	12239 Jul 02 15:12	20° <b>Ⅱ</b> 54'05	4.0
evening rise	12237 Feb 23 04:26	21° <b>)</b> € 20'53		greatest brilliancy	12239 Jul 12 15:01	22° <b>Ⅱ</b> 46'49	-4.9m
	12237 Mar 02 04:44	0° <b>Υ</b>			12239 Jul 26 01:00	0°95	
	12237 Mar 26 11:54	0°B		desc. node	12239 Aug 03 00:05	6°501'34	
	12237 Apr 19 18:28	0°Щ		morning max el	12239 Aug 22 01:25	23°932'20	46°49'54
	12237 May 14 02:00	0°©			12239 Aug 28 09:31	$0^{\circ}\Omega$	
asc. node	12237 Jun 07 17:04	0° <b>Ω</b> 09'51			12239 Sep 24 21:07	0° <b>m</b> )	
	12237 Jun 07 13:50	$0^{\circ}\Omega$			12239 Oct 20 20:54	0∘ <b>⊽</b>	
	12237 Jul 02 11:21	0° m/y		_	12239 Nov 15 04:50	0°M	
	12237 Jul 28 04:34	0∘ <b>⊽</b>		asc. node	12239 Nov 23 21:38	10°M25'16	
	12237 Aug 24 20:07	0°M,			12239 Dec 10 03:15	0° <b>∡</b> ¹	
evening max el	12237 Aug 27 14:33	2°M47'18	46°29'48		12240 Jan 03 19:04	0° <b>ප</b>	
desc. node	12237 Sep 27 17:28	28°M40'03		. ,	12240 Jan 28 06:27	0°≈	
arrantant brillianas	12237 Sep 30 02:18	0° द्र <sup>7</sup> 2° द्र <sup>7</sup> 35'50	-4.8m	morning set	12240 Feb 18 11:11	26°≈06'18 0°¥	
greatest brilliancy	12237 Oct 05 17:31 12237 Oct 16 14:18	2 <b>x</b> · 33 30 4° <b>₹</b> 45'57	-4.6111	desc. node	12240 Feb 21 14:56 12240 Mar 14 13:08	0 <del>X</del> 27° <b>¥</b> 06'39	
retrograde	12237 Oct 10 14:18 12237 Nov 01 07:21	30°RM		desc. flode	12240 Mar 16 21:06	27 <b>γ</b> (0039	
evening set	12237 Nov 01 07:21 12237 Nov 02 18:37	29°M09'04		max. Earth dist.	12240 Mar 25 01:59	10° <b>Υ</b> 10'26	1.72448 AU
min. Earth dist.	12237 Nov 06 06:59	27°M00'00	0.28567 AU	max. Larm dist.	12240 Wai 25 01.57	10   1020	1.72440 AU
inferior conj	12237 Nov 07 00:23	26°M32'48		superior conj	12240 Mar 27 22:20	13° <b>Ƴ</b> 42'35	-0°31'46
minimum elong							
	12237 Nov 06 16:20						
morning rise	12237 Nov 06 16:20 12237 Nov 10 14:17	26°M45'23	7°57'43	minimum elong	12240 Mar 27 15:04	13° <b>Ƴ</b> 20′01	0°31'32
morning rise	12237 Nov 10 14:17	26°M45'23 24°M20'34			12240 Mar 27 15:04 12240 Apr 10 00:49	13° <b>Ƴ</b> 20'01 0° <b>႘</b>	
direct	12237 Nov 10 14:17 12237 Nov 28 06:38	26°M45'23 24°M20'34 18°M28'49	7°57'43	minimum elong	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10	13° <b>Y</b> 20'01 0° <b>と</b> 0°耳	
C	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37	26°M45'23 24°M20'34 18°M28'49 20°M11'02	7°57'43		12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23	13° <b>Y</b> 20'01 0° <b>В</b> 0° <b>П</b> 2° <b>П</b> 27'26	
direct greatest brilliancy	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05	26°M45'23 24°M20'34 18°M28'49 20°M11'02 0°\$\sqrt{1}	7°57'43 -4.7m	minimum elong	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°ℱ	
direct greatest brilliancy morning max el	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05	26° M 45'23 24° M 20'34 18° M 28'49 20° M 11'02 0° ズ 18° ズ 29'57	7°57'43 -4.7m	minimum elong evening rise	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°Ք 0°Ω	
direct greatest brilliancy	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01	26°M45'23 24°M20'34 18°M28'49 20°M11'02 0° ₹ 18° ₹29'57 21° ₹08'11	7°57'43 -4.7m	minimum elong	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°ℱ 0°Ω 17°Ω32'41	
direct greatest brilliancy morning max el	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30	26°M.45'23 24°M.20'34 18°M.28'49 20°M.11'02 0° ₹ 18° ₹ 29'57 21° ₹ 08'11 0° ₹	7°57'43 -4.7m	minimum elong evening rise	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°℘ 0°ℳ 17°ℳ32'41	
direct greatest brilliancy morning max el	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22	26°M45'23 24°M20'34 18°M28'49 20°M11'02 0° ₹ 18° ₹29'57 21° ₹08'11 0° ₹ 0° ≈	7°57'43 -4.7m	minimum elong evening rise	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°९ 0°Ω 17°Ω32'41 0°ႃႃၯ 0°Ω	
direct greatest brilliancy morning max el	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14	26°M.45'23 24°M.20'34 18°M.28'49 20°M.11'02 0° ₹ 18° ₹ 29'57 21° ₹ 08'11 0° ₹ 0° ≈ 0° ¥	7°57'43 -4.7m	minimum elong evening rise	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°Დ 0°Ω 17°Ω32'41 0°™ 0°Ω 0°™	
direct greatest brilliancy morning max el	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Apr 15 21:50	26°M.45'23 24°M.20'34 18°M.28'49 20°M.11'02 0°  18°  29'57 21°  308'11 0°  0°  0°  0°  0°  0°  0°  0°  0°  0	7°57'43 -4.7m	minimum elong evening rise asc. node	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49	13°Y20'01 0°႘ 0°Ⅲ 2°Ⅲ27'26 0°९ 0°Ω 17°Ω32'41 0°ႃႃၯ 0°Ω	
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direct greatest brilliancy morning max el asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Apr 15 21:50 12238 May 10 11:00 12238 May 10 15:05 12238 Jun 03 16:35 12238 Jun 27 17:26 12238 Jul 18 12:51 12238 Jul 18 12:51 12238 Jul 21 16:09 12238 Aug 14 14:53  12238 Aug 27 02:10 12238 Aug 27 04:44 12238 Aug 28 00:01 12238 Aug 28 00:01 12238 Aug 29 07:35	26°M.45'23 24°M.20'34 18°M.28'49 20°M.11'02 0°   18°   29'57 21°  308'11 0°  0°  0°  0°  0°  0°  0°  0°  0°  0°	7°57'43  -4.7m  45°42'12  -0°10'10 0°10'20	minimum elong  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49 12240 Oct 25 02:59 12240 Oct 25 08:16 12240 Nov 06 15:01 12240 Nov 26 18:09 12240 Dec 15 18:57 12240 Dec 25 17:11 12241 Jan 11 15:42 12241 Jan 16 02:51 12241 Jan 16 13:02 12241 Jan 16 14:23 12241 Jan 21 10:12 12241 Jan 21 10:12 12241 Jan 23 17:58 12241 Feb 06 12:20	13°Y20'01 0°℧ 0°Ⅱ 2°Ⅲ27'26 0°₷ 0°Л 17°Л32'41 0°№ 0°№ 29°¾46'11 0°℧ 12°℧23'30 0°≈ 10°≈55'44 12°≈43'08 7°≈14'25 4°≈30'03 4°≈14'05 4°≈11'59 1°≈16'11 30°₨ 26°℧14'58	0°31'32 45°58'14 -4.7m -6°31'55 6°29'06
direct greatest brilliancy morning max el asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Mar 21 21:14 12238 May 10 11:00 12238 May 10 15:05 12238 Jun 03 16:35 12238 Jun 27 17:26 12238 Jul 18 12:51 12238 Jul 18 12:51 12238 Jul 21 16:09 12238 Aug 14 14:53  12238 Aug 27 04:44 12238 Aug 27 04:44 12238 Aug 28 00:01 12238 Aug 29 07:35 12238 Aug 31 06:15	26° M.45'23 24° M.20'34 18° M.28'49 20° M.11'02 0°   18°   29'57 21°   0°   0°  0°  0°  0°  0°  0°  0°  0°	7°57'43  -4.7m  45°42'12  -0°10'10 0°10'20	minimum elong  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct asc. node	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49 12240 Oct 25 02:59 12240 Oct 25 08:16 12240 Nov 06 15:01 12240 Nov 26 18:09 12240 Dec 15 18:57 12240 Dec 25 17:11 12241 Jan 11 15:42 12241 Jan 16 02:51 12241 Jan 16 13:02 12241 Jan 21 10:12 12241 Jan 21 10:12 12241 Jan 21 17:58 12241 Jan 23 17:58 12241 Feb 06 12:20 12241 Feb 15 05:06	13°Y20'01 0°と 0°川 2°川27'26 0°の 0°凡 17°凡32'41 0°順 0°ふ 29°¾46'11 0°云 12°云23'30 0°≈ 10°≈55'44 12°≈43'08 7°≈14'25 4°≈30'03 4°≈14'05 4°≈16'11 30°R云 26°云14'58 27°云39'57 28°云26'19 0°≈	45°58'14 -4.7m -6°31'55 6°29'06 0.28806 AU
direct greatest brilliancy morning max el asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Apr 15 21:50 12238 May 10 11:00 12238 May 10 15:05 12238 Jun 03 16:35 12238 Jun 27 17:26 12238 Jun 27 17:26 12238 Jul 18 12:51 12238 Jul 21 16:09 12238 Aug 14 14:53 12238 Aug 27 04:44 12238 Aug 27 04:44 12238 Aug 28 00:01 12238 Aug 29 07:35 12238 Aug 31 06:15 12238 Sep 07 14:55 12238 Oct 01 16:59 12238 Oct 04 16:24	26° M.45'23 24° M.20'34 18° M.28'49 20° M.11'02 0°   18°   29'57 21°   0°   0°  0°  0°  0°  0°  0°  0°  0°	7°57'43  -4.7m  45°42'12  -0°10'10 0°10'20	minimum elong  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct asc. node	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49 12240 Oct 25 02:59 12240 Oct 25 02:59 12240 Nov 06 15:01 12240 Nov 26 18:09 12240 Dec 15 18:57 12240 Dec 25 17:11 12241 Jan 11 15:42 12241 Jan 16 02:51 12241 Jan 16 13:02 12241 Jan 21 10:12 12241 Jan 23 17:58 12241 Feb 06 12:20 12241 Feb 15 05:06 12241 Feb 17 10:25	13°Y20'01 0°℧ 0°Ⅱ 2°Ⅲ27'26 0°孚 0°Л 17°Л32'41 0°№ 0°№ 0°№ 12°♂23'30 0°≈ 10°≈55'44 12°≈43'08 7°≈14'25 4°≈30'03 4°≈14'05 4°≈11'59 1°≈16'11 30°₨ 26°♂14'58 27°♂39'57 28°♂26'19 0°≈ 27°≈35'24	45°58'14 -4.7m -6°31'55 6°29'06 0.28806 AU
direct greatest brilliancy morning max el asc. node  desc. node  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Apr 15 21:50 12238 May 10 11:00 12238 May 10 15:05 12238 Jun 03 16:35 12238 Jun 27 17:26 12238 Jun 27 17:26 12238 Jul 18 12:51 12238 Jul 21 16:09 12238 Aug 14 14:53 12238 Aug 27 02:10 12238 Aug 27 04:44 12238 Aug 27 04:44 12238 Aug 28 00:01 12238 Aug 29 07:35 12238 Aug 31 06:15 12238 Sep 07 14:55 12238 Oct 04 16:24 12238 Oct 05 15:50	26° M.45'23 24° M.20'34 18° M.28'49 20° M.11'02 0°   18°   29'57 21°   0°   0°  0°  0°  0°  0°  0°  0°  0°	7°57'43  -4.7m  45°42'12  -0°10'10 0°10'20	minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49 12240 Oct 25 02:59 12240 Nov 06 15:01 12240 Nov 26 18:09 12240 Nov 26 18:09 12240 Dec 15 18:57 12240 Dec 25 17:11 12241 Jan 11 15:42 12241 Jan 16 02:51 12241 Jan 16 13:02 12241 Jan 16 14:23 12241 Jan 21 10:12 12241 Jan 21 10:12 12241 Jan 23 17:58 12241 Feb 16 12:20 12241 Feb 17 10:25 12241 Feb 17 10:25 12241 Feb 21 01:07 12241 Mar 28 02:18 12241 Mar 30 12:28	13°Y20'01 0°℧ 0°Ⅱ 2°Ⅲ27'26 0°孚 0°Л 17°Л32'41 0°№ 0°№ 10°♂ 12°♂23'30 0°≈ 10°≈55'44 12°≈43'08 7°≈14'25 4°≈30'03 4°≈14'05 4°≈11'59 1°≈16'11 30°₨ 26°♂14'58 27°♂39'57 28°♂26'19 0°≈ 27°≈35'24 0°ℋ	0°31'32 45°58'14 -4.7m -6°31'55 6°29'06 0.28806 AU
direct greatest brilliancy morning max el asc. node  desc. node  desc. node  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12237 Nov 10 14:17 12237 Nov 28 06:38 12237 Dec 07 23:37 12237 Dec 25 15:05 12238 Jan 16 02:05 12238 Jan 18 19:01 12238 Jan 27 13:30 12238 Feb 24 01:22 12238 Mar 21 21:14 12238 Apr 15 21:50 12238 May 10 11:00 12238 May 10 15:05 12238 Jun 03 16:35 12238 Jun 27 17:26 12238 Jun 27 17:26 12238 Jul 18 12:51 12238 Jul 21 16:09 12238 Aug 14 14:53 12238 Aug 27 04:44 12238 Aug 27 04:44 12238 Aug 28 00:01 12238 Aug 29 07:35 12238 Aug 31 06:15 12238 Sep 07 14:55 12238 Oct 01 16:59 12238 Oct 04 16:24	26° M.45'23 24° M.20'34 18° M.28'49 20° M.11'02 0°   18°   29'57 21°   0°   0°  0°  0°  0°  0°  0°  0°  0°	7°57'43  -4.7m  45°42'12  -0°10'10 0°10'20	minimum elong evening rise asc. node desc. node evening max el greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct asc. node greatest brilliancy	12240 Mar 27 15:04 12240 Apr 10 00:49 12240 May 04 02:10 12240 May 06 01:23 12240 May 28 02:12 12240 Jun 21 02:46 12240 Jul 05 05:07 12240 Jul 15 06:17 12240 Aug 08 15:38 12240 Sep 02 11:14 12240 Sep 28 01:49 12240 Oct 25 02:59 12240 Nov 06 15:01 12240 Nov 26 18:09 12240 Nov 26 18:09 12240 Dec 15 18:57 12240 Dec 25 17:11 12241 Jan 11 15:42 12241 Jan 16 02:51 12241 Jan 16 13:02 12241 Jan 16 14:23 12241 Jan 21 10:12 12241 Jan 21 10:12 12241 Jan 23 17:58 12241 Feb 06 12:20 12241 Feb 15 05:06 12241 Feb 17 10:25 12241 Feb 21 01:07 12241 Mar 28 02:18	13°Y20'01 0°℧ 0°Ⅱ 2°Ⅲ27'26 0°孚 0°Л 17°Л32'41 0°№ 0°№ 0°№ 12°♂23'30 0°≈ 10°≈55'44 12°≈43'08 7°≈14'25 4°≈30'03 4°≈14'05 4°≈11'59 1°≈16'11 30°₨ 26°♂14'58 27°♂39'57 28°♂26'19 0°≈ 27°≈35'24	0°31'32 45°58'14 -4.7m -6°31'55 6°29'06 0.28806 AU

	12241 May 23 07:54	0°B		evening max el	12244 Jan 17 20:19	21° <b>∺</b> 17'11	45°55'12
desc. node	12241 Jun 07 03:50	17° <b>8</b> 43'58		C	12244 Jan 27 06:01	$0^{\circ}$ Y	
	12241 Jun 17 06:51	$\Pi^{\circ}0$		greatest brilliancy	12244 Feb 25 23:49	19° <b>Ƴ</b> 51'51	-4.8m
	12241 Jul 11 18:11	$0$ $\circ$ $\odot$		retrograde	12244 Mar 06 20:46	21° <b>Y</b> 39'17	
	12241 Aug 04 23:45	$0$ $\circ$ $\Omega$		asc. node	12244 Mar 14 14:48	20° <b>Y</b> ′27′09	
	12241 Aug 29 03:14	0° <b>m</b> )		evening set	12244 Mar 21 15:16	17° <b>Y</b> °24'12	201.612.6
	12241 Sep 22 06:32	0° <b>ჲ</b> 6° <b>ჲ</b> 55'32		inferior conj	12244 Mar 27 20:52	13° <b>Y</b> 41'17 13° <b>Y</b> 52'19	3°16'36 3°14'23
asc. node morning set	12241 Sep 27 20:22 12241 Sep 29 09:48	8° <b>£</b> 53'32		minimum elong min. Earth dist.	12244 Mar 27 13:48 12244 Mar 28 00:06	13 <b>γ</b> 32 19 13° <b>γ</b> 36'14	0.27825 AU
morning set	12241 Oct 16 10:21	0°ML		morning rise	12244 Apr 02 11:53	10° <b>Υ</b> 17'22	0.27623 AO
	122.11 000 10 10.21	0 110		direct	12244 Apr 17 22:10	5° <b>Υ</b> 37'15	
superior conj	12241 Nov 06 07:34	25°M53'51	1°17'17	greatest brilliancy	12244 Apr 28 07:31	7° <b>Ƴ</b> 37'51	-4.8m
minimum elong	12241 Nov 05 23:37	25°M29'12	1°17'47		12244 May 29 20:56	$0^{\circ}S$	
max. Earth dist.	12241 Nov 08 05:40	28°M16'38	1.72805 AU	morning max el	12244 Jun 07 04:35	8° <b>8</b> 04'35	46°50'28
	12241 Nov 09 15:02	0° <b>∡</b> 7			12244 Jun 27 20:35	$\Pi$ °0	
	12241 Dec 03 21:19	0°₹		desc. node	12244 Jul 04 15:39	7° <b>Ⅱ</b> 36'29	
evening rise	12241 Dec 13 05:15	11° <b>る</b> 30'24			12244 Jul 24 01:05	0°©	
daga mada	12241 Dec 28 06:10	0° <b>≈</b> 24° <b>≈</b> 46'17			12244 Aug 18 05:16	0° <b>N</b>	
desc. node	12242 Jan 17 11:28 12242 Jan 21 18:12	24°≈46°17 0° <b>\</b>			12244 Sep 11 23:11 12244 Oct 06 12:36	0° <b>ⴀ</b> 0° <b>™</b>	
	12242 Feb 15 09:18	0° <b>Υ</b>		asc. node	12244 Oct 00 12:30 12244 Oct 25 10:17	0 <del>=</del> 23° <b>£</b> 10'48	
	12242 Mar 12 03:24	0°8		use. Hode	12244 Oct 30 23:31	0°ML	
	12242 Apr 06 02:16	0°II			12244 Nov 24 08:32	0° <b>∡</b> ¹	
	12242 May 01 11:52	0ಂತಾ		morning set	12244 Dec 08 08:57	17° <b>∡</b> 17'04	
asc. node	12242 May 10 08:04	10°ട്ട13'00			12244 Dec 18 16:18	8°0	
	12242 May 27 23:17	$0^{\circ}\Omega$			12245 Jan 11 23:47	0° <b>≈</b>	
evening max el	12242 Jun 14 10:31	18° <b>£</b> 23′09	46°49'08				
1 '71'	12242 Jun 26 14:43	0° Mp	4.0	superior conj	12245 Jan 14 01:44	2°≈34'05	1°05'49
greatest brilliancy	12242 Jul 24 06:34	18° Mp 52'00 20° Mp 54'36	-4.9m	minimum elong max. Earth dist.	12245 Jan 14 11:23 12245 Jan 14 03:31	3°≈03'51 2°≈39'36	1°06'17 1.73176 AU
retrograde evening set	12242 Aug 03 17:55 12242 Aug 18 11:54	16° Mp 36'50		max. Earth dist.	12245 Jan 14 03:31 12245 Feb 05 07:34	2°≈39'36 0° <b>∺</b>	1./31/6 AU
inferior conj	12242 Aug 24 12:23	13° M) 04'07	1°31'17	desc. node	12245 Feb 14 00:58	10° <b>¥</b> 45'29	
minimum elong	12242 Aug 24 15:54	12° <b>m</b> 58'45	1°29'48	evening rise	12245 Feb 20 19:55	19° <b>)</b> 07'44	
min. Earth dist.	12242 Aug 24 07:44	13° <b>m</b> )11'14	0.27119 AU	S	12245 Mar 01 15:28	0° <b>Υ</b>	
desc. node	12242 Aug 30 09:52	9° Mp 36'54			12245 Mar 25 22:50	$9^{\circ}$ 8	
morning rise	12242 Aug 30 20:25	9° <b>™</b> 22'50			12245 Apr 19 05:41	$\Pi$ °0	
direct	12242 Sep 14 07:36	5° Mp 18'42			12245 May 13 13:37	$0$ $\circ$ $\odot$	
greatest brilliancy	12242 Sep 24 02:16	7° <b>m</b> 05'02	-4.8m	asc. node	12245 Jun 06 19:03	29° <b>©</b> 38'44	
	12242 Oct 27 04:23	0° <b>亞</b>	46006121		12245 Jun 07 02:03	0° <b>N</b>	
morning max el	12242 Nov 02 17:34 12242 Nov 25 20:02	6° <b>≙</b> 11'17 0° <b>ጤ</b>	46°06'21		12245 Jul 02 00:37 12245 Jul 27 19:57	0° <b>ट</b> 0°ആ	
asc. node	12242 Nov 23 20.02 12242 Dec 21 09:58	28°M32'40			12245 Jul 27 19.57 12245 Aug 24 17:13	0°M	
asc. node	12242 Dec 21 05:36 12242 Dec 22 16:26	20 11 <b>0</b> 32 40		evening max el	12245 Aug 25 04:29	0°M28'10	46°30'53
	12243 Jan 17 08:50	0°ਰ		desc. node	12245 Sep 26 19:21	27°ML15'10	.0 3003
	12243 Feb 11 09:52	0° <b>≈</b>			12245 Oct 02 10:53	0° <b>∡</b> ¹	
	12243 Mar 08 01:38	0° <b>)</b>		greatest brilliancy	12245 Oct 03 08:37	0° <b>∡</b> ¹21'33	-4.8m
	12243 Apr 01 11:13	$0^{\circ}$ Y		retrograde	12245 Oct 14 05:38	2° <b>∡</b> ³32'35	
desc. node	12243 Apr 12 03:11	13° <b>Y</b> 11'30			12245 Oct 25 12:54	30°RM₊	
	12243 Apr 25 16:01	0°8		evening set	12245 Oct 31 06:28	27°M00'57	0.00504.444
morning set	12243 May 01 18:16	7° <b>8</b> 35′22 0° <b>Ⅱ</b>		min. Earth dist.	12245 Nov 03 21:54	24°M47'44	0.28524 AU
max. Earth dist.	12243 May 19 16:53 12243 Jun 09 12:21		1.71427 AU	inferior conj minimum elong	12245 Nov 04 15:43 12245 Nov 04 07:09	24°M19'56 24°M33'18	
max. Earth dist.	12243 Juli 09 12.21	20 110327	1./142/AU	morning rise	12245 Nov 04 07:09 12245 Nov 08 08:05	22°M04'13	7 48 30
superior conj	12243 Jun 10 22:13	27° <b>∏</b> 51'42	-1°27'08	direct	12245 Nov 25 20:58	16°M16'26	
minimum elong	12243 Jun 11 00:27	27° <b>Ⅱ</b> 58'45		greatest brilliancy	12245 Dec 05 14:36	17° <b>M</b> 59'00	-4.7m
-	12243 Jun 12 15:06	0ಂತಾ			12245 Dec 26 04:25	0° <b>∡</b> ¹	
	12243 Jul 06 12:30	$0$ $^{\circ}$ $\Omega$		morning max el	12246 Jan 13 16:39	16° <b>∡</b> 16′02	45°42'12
evening rise	12243 Jul 21 06:49	18° <b>Ω</b> 30'48		asc. node	12246 Jan 17 21:03	20° <b>∡</b> ′21'45	
	12243 Jul 30 11:00	0° <b>m</b> )			12246 Jan 27 07:42	0° <b>ප</b>	
asc. node	12243 Aug 02 18:19	4° Mp 07'55			12246 Feb 23 15:32	0° <b>≈</b>	
	12243 Aug 23 12:12	0° <b>ሆ</b> 0° <b>亚</b>			12246 Mar 21 09:45	0° <b>∀</b> 0° <b>Υ</b>	
	12243 Sep 16 17:41 12243 Oct 11 06:00	0° <b>⊼</b> 1		desc. node	12246 Apr 15 09:32 12246 May 09 16:51	0° γ 29° <b>Υ</b> 43'23	
	12243 Nov 05 05:24	0° <b>ਠ</b>		acse. Houc	12246 May 09 10.31 12246 May 09 22:15	0° <b>8</b>	
desc. node	12243 Nov 22 13:20	20°る20'05			12246 Jun 03 03:34	0°II	
	12243 Nov 30 22:49	0° <b>≈</b>			12246 Jun 27 04:13	0ංම	
	12243 Dec 27 23:52	0° <b>∀</b>		morning set	12246 Jul 16 01:13	23°538'51	

	12246 Jul 21 02:48	0°N		ratra ara da	12249 Dag 22 00:00	10° <b>≈</b> 33'42	
	12246 Jul 21 02.48 12246 Aug 14 01:26	0° <b>m</b> p		retrograde evening set	12248 Dec 23 09:09 12249 Jan 09 10:34	10 ≈33 42 5°≈00'40	
	12240 Aug 14 01.20	עוו ט		inferior conj	12249 Jan 13 18:53	2°≈20'08	6°45'14
superior conj	12246 Aug 24 15:34	13° <b>m</b> ) 15'03	-0°13'50	minimum elong	12249 Jan 14 04:59	2°≈04'18	
minimum elong	12246 Aug 24 19:03	13° m <sub>0</sub> 15' 05		min. Earth dist.	12249 Jan 14 05:33	2°≈03'24	0.28834 AU
behind sun begin	12246 Aug 24 06:25	12° Mp 46'26	0 1337	iiiii. Lartii dist.	12249 Jan 17 13:33	2 7003 24 30°Rる	0.20054710
behind sun end	12246 Aug 25 07:40	14° Mp 05'23		morning rise	12249 Jan 18 23:18	29° <b>ප</b> 10'27	
max. Earth dist.	12246 Aug 26 18:41	15° <b>m</b> ) 54'49	1.71784 AU	direct	12249 Feb 04 05:11	24° <b>පි</b> 05'10	
asc. node	12246 Aug 30 08:04	20° m/21'33		asc. node	12249 Feb 14 07:04	25° <b>පි</b> 58'03	
	12246 Sep 07 01:23	0∘ <del>⊽</del>		greatest brilliancy	12249 Feb 15 01:28	26° <b>ප</b> 15'00	-4.8m
	12246 Oct 01 03:28	0° <b>M</b> .		8	12249 Feb 22 19:21	0° <b>≈</b>	
evening rise	12246 Oct 02 08:03	1° <b>M</b> L28'47		morning max el	12249 Mar 25 18:05	25° <b>≈</b> 23'15	46°06'27
Č	12246 Oct 25 08:39	0° <b>∡</b> ¹		C	12249 Mar 30 08:40	0° <b>∀</b>	
	12246 Nov 18 18:36	ರ°0			12249 Apr 27 01:49	$0^{\circ}$ $\Upsilon$	
	12246 Dec 13 11:24	0° <b>≈</b>			12249 May 22 20:52	0°B	
desc. node	12246 Dec 20 00:51	7° <b>≈</b> 54'02		desc. node	12249 Jun 06 05:55	17° <b>8</b> 13'00	
	12247 Jan 07 13:03	0° <b>∀</b>			12249 Jun 16 18:52	$\Pi^{\circ}0$	
	12247 Feb 02 02:11	$0^{\circ}\mathbf{\Upsilon}$			12249 Jul 11 05:39	0ං <b>ම</b>	
	12247 Feb 28 09:47	0°8			12249 Aug 04 10:51	$0^{\circ}\Omega$	
	12247 Mar 28 12:25	$\Pi^{\circ}0$			12249 Aug 28 14:03	0° <b>m</b> )	
evening max el	12247 Mar 30 19:02	2° <b>Ⅱ</b> 15'57	46°25'03		12249 Sep 21 17:09	0∘ <b>⊽</b>	
asc. node	12247 Apr 12 00:12	13° <b>Ⅱ</b> 45'40		asc. node	12249 Sep 26 22:10	6° <b>≏</b> 28'20	
	12247 May 04 09:54	0ංම		morning set	12249 Sep 27 00:40	6° <b>≙</b> 36'06	
greatest brilliancy	12247 May 10 04:37	2°529'06	-4.9m		12249 Oct 15 20:48	$0^{\circ}$ M	
retrograde	12247 May 19 17:53	4°छ12'36					
	12247 Jun 03 07:27	30° <b>Ŗ</b> Ⅱ		superior conj	12249 Nov 04 00:07	23°M44'16	1°15'44
evening set	12247 Jun 06 23:15	27° <b>Ⅱ</b> 53'47		minimum elong	12249 Nov 03 15:42	23°M18'12	1°16'12
inferior conj	12247 Jun 09 10:18	26° <b>Ⅱ</b> 23'33	9°12'35	max. Earth dist.	12249 Nov 06 01:24	26°M16'56	1.72771 AU
minimum elong	12247 Jun 09 11:38	26° <b>Ⅱ</b> 21'30	9°11'42		12249 Nov 09 01:24	0° <b>∡</b> ¹	
min. Earth dist.	12247 Jun 09 17:41	26° <b>Ⅱ</b> 12'11	0.27325 AU		12249 Dec 03 07:41	0°₹	
morning rise	12247 Jun 11 23:57	24° <b>Ⅱ</b> 49'13		evening rise	12249 Dec 10 22:05	9° <b>ට</b> 22'22	
direct	12247 Jun 30 04:51	18° <b>Ⅱ</b> 29'28			12249 Dec 27 16:39	0° <b>≈</b>	
greatest brilliancy	12247 Jul 10 03:34	20° <b>Ⅱ</b> 21'51	-4.9m	desc. node	12250 Jan 16 13:25	24° <b>≈</b> 19'35	
	12247 Jul 26 22:21	$0_{\circ}$ වෙ			12250 Jan 21 04:56	0° <b>∀</b>	
desc. node	12247 Aug 02 02:03	4° <b>©</b> 53'31			12250 Feb 14 20:27	0° <b>Υ</b>	
morning max el	12247 Aug 19 16:16	21° <b>©</b> 13'14	46°51'07		12250 Mar 11 15:10	0° <b>8</b>	
	12247 Aug 28 05:31	$0^{\circ}\Omega$			12250 Apr 05 14:58	0°II	
	12247 Sep 24 12:10	0° <b>m</b> )			12250 May 01 02:10	0°©	
	12247 Oct 20 09:50	0∘ <b>亚</b>		asc. node	12250 May 09 10:07	9° <b>©</b> 35'29	
,	12247 Nov 14 16:38	0°M		. ,	12250 May 27 17:05	0°N	46040152
asc. node	12247 Nov 22 23:36	9°M56'32		evening max el	12250 Jun 12 00:23	16° <b>Ω</b> 01'20	46°48'53
	12247 Dec 09 14:23	0° <b>∡</b>		4 41 711	12250 Jun 26 20:52	0° M)	4.0
	12248 Jan 03 05:50 12248 Jan 27 17:01	0°₩		greatest brilliancy	12250 Jul 21 21:47	16° Mp 30'50	-4.9m
morning set	12248 Jan 27 17.01 12248 Feb 16 03:22	0 ≈ 23°≈55'54		retrograde evening set	12250 Aug 01 07:01 12250 Aug 16 02:53	18° Mp 31'21 14° Mp 12'01	
morning set	12248 Feb 10 03.22 12248 Feb 21 01:24	23 ≈33 34 0° <b>∺</b>		inferior conj	12250 Aug 10 02:33 12250 Aug 22 01:28	14 my 12 01 10° my 41'44	1°54'57
desc. node	12248 Mar 13 14:54	26° <b>∺</b> 39'48		minimum elong	12250 Aug 22 01:28 12250 Aug 22 05:52	10° m) 35'00	1°53'10
desc. Hode	12248 Mar 16 07:33	20 <b>γ</b> (3948		min. Earth dist.	12250 Aug 21 22:13	10° m/ 46'43	0.27094 AU
max. Earth dist.	12248 Mar 22 18:54		1.72486 AU	morning rise	12250 Aug 21 22:15 12250 Aug 28 09:18	7° M) 00'20	0.27074 AC
max. Latti dist.	12240 Mai 22 10.54	0 10132	1.72400710	desc. node	12250 Aug 29 11:49	6° Mp 26'14	
superior conj	12248 Mar 25 12:14	11° <b>Y</b> ′24'13	-0°28'21	direct	12250 Nag 25 11:45 12250 Sep 11 20:27	2° M) 56'36	
minimum elong	12248 Mar 25 05:41	11° <b>Υ</b> 03'54		greatest brilliancy	12250 Sep 21 15:49	4° <b>m</b> ) 43'17	-4.8m
	12248 Apr 09 11:19	0°8		<i>g.</i> • • • • • • • • • • • • • • • • • • •	12250 Oct 27 05:50	0∘ <b>⊽</b>	
evening rise	12248 May 03 14:09	0° <b>Ⅱ</b> 04'13		morning max el	12250 Oct 31 06:28	3° <b>£</b> 50'49	46°07'56
<i>y</i> 21	12248 May 03 12:48	0° <b>I</b> I			12250 Nov 25 12:28	0° <b>M</b>	
	12248 May 27 12:59	0°ಅ		asc. node	12250 Dec 20 11:58	27°M59'35	
	12248 Jun 20 13:45	$0^{\circ}\Omega$			12250 Dec 22 05:52	0° <b>∡</b> ¹	
asc. node	12248 Jul 04 07:06	17° <b>Ω</b> 04'16			12251 Jan 16 20:52	0°ರ	
	12248 Jul 14 17:33	0° <b>m</b> )			12251 Feb 10 21:10	0° <b>≈</b>	
	12248 Aug 08 03:20	0∘ <b>⊽</b>			12251 Mar 07 12:33	0° <b>∀</b>	
	12248 Sep 01 23:44	0°M₊			12251 Mar 31 21:58	$0^{\circ}$ Y	
	12248 Sep 27 15:54	0° <b>∡</b> ¹		desc. node	12251 Apr 11 05:03	12° <b>Y</b> 44'09	
desc. node	12248 Oct 24 04:58	29° <b>∡</b> ¹04'25			12251 Apr 25 02:42	$0^{\circ}B$	
	12248 Oct 25 02:24	0°ರ		morning set	12251 Apr 29 06:17	5° <b>8</b> 10'02	
evening max el	12248 Nov 04 07:17	10° <b>る</b> 14'29	45°59'00		12251 May 19 03:33	$\Pi$ °0	
	12248 Nov 27 08:32	0° <b>≈</b>		max. Earth dist.	12251 Jun 06 16:03	23° <b>Ⅱ</b> 13′04	1.71445 AU
greatest brilliancy	12248 Dec 13 09:50	8° <b>≈</b> 45'46	-4.7m				

superior conj	12251 Jun 08 09:55	25° <b>Ⅲ</b> 24′23	-1°27'25	direct	12253 Nov 23 11:34	14° <b>M</b> 02'53	
minimum elong	12251 Jun 08 11:05	25° <b>Ⅱ</b> 28′03	1°28'17	greatest brilliancy	12253 Dec 03 05:03	15°M45'35	-4.7m
	12251 Jun 12 01:45	0°©			12253 Dec 26 14:33	0° <b>∡</b> ¹	
	12251 Jul 05 23:12	$0^{\circ}\Omega$		morning max el	12254 Jan 11 08:01	14° <b>∡</b> ¹03'35	45°42'22
evening rise	12251 Jul 18 18:07	16°Ω02'10		asc. node	12254 Jan 16 22:57	19° <b>∡</b> ′35'11	
evening rise	12251 Jul 29 21:46	0° m)		asc. node	12254 Jan 27 01:38	0°る	
1						0°≈	
asc. node	12251 Aug 01 20:05	3° m/39'48			12254 Feb 23 05:40		
	12251 Aug 22 23:06	0∘ <b>⊽</b>			12254 Mar 20 22:19	0° <b>∀</b>	
	12251 Sep 16 04:49	0°M₊			12254 Apr 14 21:18	0° <b>Υ</b>	
	12251 Oct 10 17:31	0° <b>∡</b> ¹		desc. node	12254 May 08 18:54	29° <b>Ƴ</b> 14'45	
	12251 Nov 04 17:38	0°₹			12254 May 09 09:35	$9^{\circ}$ 8	
desc. node	12251 Nov 21 15:24	19° <b>る</b> 48'08			12254 Jun 02 14:40	$\Pi^{\circ}0$	
	12251 Nov 30 12:29	0° <b>≈</b>			12254 Jun 26 15:12	$0$ $\circ$ $\odot$	
	12251 Dec 27 16:46	0° <b>∀</b>		morning set	12254 Jul 13 13:17	21°©11'56	
evening max el	12252 Jan 15 09:59	19° <b>¥</b> 00'42	45°54'41	C	12254 Jul 20 13:44	$0^{\circ}\Omega$	
δ ·	12252 Jan 27 10:14	0° <b>Υ</b>			12254 Aug 13 12:18	0° <b>m</b> )	
greatest brilliancy	12252 Feb 23 14:30	17° <b>Ƴ</b> 36'19	-4.8m		1220 11148 13 12.10	·	
	12252 Mar 04 10:44	19° <b>Υ</b> 23'33	-4.0111	gumarian aani	12254 Aug 22 04:22	10° m 51'02	0017122
retrograde				superior conj	12254 Aug 22 04:22	•	
asc. node	12252 Mar 13 16:41	17° <b>Y</b> ′40′55		minimum elong	12254 Aug 22 08:45	11° Mp 04'45	
evening set	12252 Mar 19 04:58	15° <b>Y</b> ′09'04		max. Earth dist.	12254 Aug 24 06:25	13° <b>m</b> 27'32	1.71755 AU
inferior conj	12252 Mar 25 11:36	11° <b>Y</b> ′25'03		asc. node	12254 Aug 29 09:53	19° <b>m</b> 53'22	
minimum elong	12252 Mar 25 05:13	11° <b>Y</b> °35'01	2°53'26		12254 Sep 06 12:13	0∘ <b>ಹ</b>	
min. Earth dist.	12252 Mar 25 15:40	11° <b>Ƴ</b> 18'42	0.27855 AU	evening rise	12254 Sep 29 23:08	29° <b>₽</b> 12'56	
morning rise	12252 Mar 31 04:57	7° <b>Ƴ</b> 57'49			12254 Sep 30 14:18	0° <b>M</b>	
direct	12252 Apr 15 12:42	3° <b>Y</b> 20′16			12254 Oct 24 19:35	0° <b>∡</b> ¹	
greatest brilliancy	12252 Apr 26 00:14	5° <b>Ƴ</b> '22'42	-4.8m		12254 Nov 18 05:46	0°ರ	
· ·	12252 May 29 22:08	0°B			12254 Dec 12 22:59	0° <b>≈</b>	
morning max el	12252 Jun 04 18:33	5° <b>8</b> 44'03	46°49'24	desc. node	12254 Dec 19 02:48	7° <b>≈</b> 24'36	
morning max or	12252 Jun 27 13:18	0°Ⅱ	10 1721	desc. node	12255 Jan 07 01:20	0° <b>\</b>	
desc. node	12252 Jul 03 17:35	6° <b>Ⅱ</b> 57'05			12255 Feb 01 15:42	0°Υ	
desc. node							
	12252 Jul 23 15:04	0° <b>©</b>			12255 Feb 28 01:42	0° <b>B</b>	
	12252 Aug 17 17:55	$0^{\circ}\Omega$			12255 Mar 28 10:42	0°Щ	
	12252 Sep 11 11:03	0° <b>™</b>		evening max el	12255 Mar 28 09:45	29° <b>8</b> 57'39	46°23'58
	12252 Oct 05 23:56	0∘ <b>ಹ</b>		asc. node	12255 Apr 11 02:18	12° <b>Ⅱ</b> 43'59	
asc. node	12252 Oct 24 12:13	22° <b>≏</b> 42'52			12255 May 07 11:03	$0$ $\circ$	
	12252 Oct 30 10:29	0° <b>M</b>		greatest brilliancy	12255 May 07 16:40	0°904'55	-4.9m
	12252 Nov 23 19:15	0° <b>∡</b> ¹		retrograde	12255 May 17 07:38	1° <b>5</b> 49'24	
morning set	12252 Dec 06 01:46	15° <b>∡</b> 08'06			12255 May 26 18:01	30° <b>Ŗ</b> Ⅱ	
C	12252 Dec 18 02:53	0°₹		evening set	12255 Jun 04 12:01	25° <b>Ⅲ</b> 31′03	
	12253 Jan 11 10:18	0° <b>≈</b>		inferior conj	12255 Jun 06 23:36	23° <b>II</b> 59'50	9°13'15
	12203 0411 11 10.10	0.0		minimum elong	12255 Jun 06 23:58	23° <b>I</b> 59'17	
superior conj	12253 Jan 11 18:42	0° <b>≈</b> 25'54	1007/54	min. Earth dist.	12255 Jun 07 05:54	23° <b>I</b> 50'09	0.27345 AU
1 3	12253 Jan 11 18.42 12253 Jan 12 04:12	0 ≈25 54 0°≈55'11	1°07'34' 1°08'25	morning rise	12255 Jun 09 11:53	23 <b>Ⅲ</b> 30 09 22° <b>Ⅲ</b> 27'34	0.27343 AU
minimum elong				- C			
max. Earth dist.	12253 Jan 11 21:54	0°≈35'46	1.73179 AU	direct	12255 Jun 27 19:00	16° <b>Ⅱ</b> 05'36	4.0
	12253 Feb 04 18:09	0° <b>∀</b>		greatest brilliancy	12255 Jul 07 16:04	17° <b>Ⅱ</b> 56'50	-4.9m
desc. node	12253 Feb 13 02:45	10° <b>∺</b> 18'18			12255 Jul 27 14:22	$0$ $\circ$ $\odot$	
evening rise	12253 Feb 18 11:56	16° <b>¥</b> 56′23		desc. node	12255 Aug 01 04:02	3° <b>5</b> 46'49	
	12253 Mar 01 02:11	0° <b>Ƴ</b>		morning max el	12255 Aug 17 06:55	18° <b>©</b> 52'48	46°51'51
	12253 Mar 25 09:46	$0^{\circ}$ 8			12255 Aug 28 01:16	$0$ $^{\circ}$ $\Omega$	
	12253 Apr 18 16:56	$\Pi^{\circ}0$			12255 Sep 24 03:28	0° <b>m</b> y	
	12253 May 13 01:20	0ಂತಾ			12255 Oct 19 23:10	0∘ <b>⊽</b>	
asc. node	12253 Jun 05 21:00	29° <b>©</b> 06'56			12255 Nov 14 04:51	$0^{\circ}$ M	
	12253 Jun 06 14:29	$0^{\circ}\Omega$		asc. node	12255 Nov 22 01:34	9°M26'25	
	12253 Jul 01 14:14	0° m)			12255 Dec 09 01:57	0° <b>⊼</b> ⊓	
	12253 Jul 07 14:14 12253 Jul 27 11:52	0∘ <del>ত</del> الم			12256 Jan 02 16:59	0°ਤੇ	
			46922109				
evening max el	12253 Aug 22 18:50	28° <b>♀</b> 09'15	40 32 08		12256 Jan 27 03:57	0°≈ 21°2244!25	
	12253 Aug 24 15:28	0°M		morning set	12256 Feb 13 19:34	21°≈44′25	
desc. node	12253 Sep 25 21:21	25°M46'43			12256 Feb 20 12:14	0° <b>)</b> {	
greatest brilliancy	12253 Sep 30 23:06	28°M05'36	-4.8m	desc. node	12256 Mar 12 16:48	26° <b>¥</b> 12'12	
	12253 Oct 07 22:45	0° <b>∡</b> ¹			12256 Mar 15 18:22	$0^{\circ}$ Y	
retrograde	12253 Oct 11 21:20	0° <b>∡</b> 18'11		max. Earth dist.	12256 Mar 20 09:50	5° <b>Ƴ</b> 45'22	1.72519 AU
	12253 Oct 15 18:22	30°RM					
evening set	12253 Oct 28 18:07	24°M51'39		superior conj	12256 Mar 23 02:24	9° <b>Y</b> 05'38	-0°24'54
min. Earth dist.	12253 Nov 01 12:22		0.28476 AU	minimum elong	12256 Mar 22 20:37	8° <b>Y</b> 47'40	
inferior conj	12253 Nov 02 06:53	22°M05'53			12256 Apr 08 22:11	0°8	
minimum elong	12253 Nov 01 21:51	22°M19'57		evening rise	12256 May 01 03:18	27° <b>8</b> 41'14	
morning rise	12253 Nov 06 01:50	19°M46'40	, 5051	2.06 1100	12256 May 02 23:45	0°Ⅱ	
	12235 1107 00 01.30	17 IIU-10 TU			12200 1410y 02 25.45	· <u> </u>	

		_					
	12256 May 27 00:04	0		asc. node	12258 Dec 19 13:47	27°M25'00	
	12256 Jun 20 01:02	$0 {\circ} \mathcal{\Omega}$			12258 Dec 21 19:34	0° <b>∡</b> ¹	
asc. node	12256 Jul 03 08:55	16° <b>Ω</b> 34'25			12259 Jan 16 09:15	0°ರ	
	12256 Jul 14 05:08	0° <b>m</b> )			12259 Feb 10 08:51	0° <b>≈</b>	
	12256 Aug 07 15:27	0∘ <b>ত</b>			12259 Mar 06 23:51	0° <b>₩</b>	
	12256 Sep 01 12:46	0° <b>M</b> .			12259 Mar 31 09:04	0° <b>Υ</b>	
	12256 Sep 27 06:45	0° <b>∡</b> 7		desc. node	12259 Apr 10 06:58	12° <b>Y</b> 15'55	
desc. node	12256 Oct 23 07:04	28° <b>×</b> <sup>7</sup> 20'36		dese. Hode	12259 Apr 24 13:42	0°8	
desc. node	12256 Oct 24 21:45	20×2030		morning set	•	2° <b>8</b> 43'27	
		8° <b>る</b> 01'49	45050144	morning set	12259 Apr 26 18:13	2 <b>0</b> 43 27 0° <b>Ⅱ</b>	
evening max el	12256 Nov 01 22:51		45°59'44	To de l'a	12259 May 18 14:30		1.71466.444
	12256 Nov 28 05:19	0° <b>≈</b>		max. Earth dist.	12259 Jun 03 21:42	20° <b>Ⅲ</b> 25'51	1.71466 AU
greatest brilliancy	12256 Dec 11 01:12	6° <b>≈</b> 34'13	-4.7m			_	
retrograde	12256 Dec 21 00:32	8° <b>≈</b> 21'58		superior conj	12259 Jun 05 21:38	22° <b>Ⅱ</b> 56′12	
evening set	12257 Jan 07 05:14	2° <b>≈</b> 44'51		minimum elong	12259 Jun 05 21:45	22° <b>Ⅱ</b> 56'34	1°28'23
inferior conj	12257 Jan 11 10:43	0° <b>≈</b> 08'12	-6°57'57		12259 Jun 11 12:43	0	
minimum elong	12257 Jan 11 20:39	29° <b>る</b> 52'35	6°55'20		12259 Jul 05 10:10	$0^{\circ}\Omega$	
	12257 Jan 11 15:56	30°₹ <b>る</b>		evening rise	12259 Jul 16 05:33	13° <b>£</b> 33′10	
min. Earth dist.	12257 Jan 11 20:43	29° <b>る</b> 52'28	0.28856 AU		12259 Jul 29 08:48	0° m/	
morning rise	12257 Jan 16 11:59	27° <b>る</b> 02'45		asc. node	12259 Jul 31 21:57	3°m/11'09	
direct	12257 Feb 01 21:24	21°る53'23			12259 Aug 22 10:14	0ء <del> ق</del>	
greatest brilliancy	12257 Feb 12 16:23	24° <b>ට</b> 01'42	-4 8m		12259 Sep 15 16:09	0° <b>M</b>	
asc. node	12257 Feb 13 09:03	24°♂17'53			12259 Oct 10 05:16	0° <b>∡</b> 7	
asc. Houc	12257 Feb 13 03:03 12257 Feb 24 01:08	24 <b>⊙</b> 17 33			12259 Nov 04 06:10	0° <b>ਠ</b>	
		0 ≈ 23°≈07'00	46°04'58	J J.		00 19° <b>る</b> 14'41	
morning max el	12257 Mar 23 08:48		40 04 38	desc. node	12259 Nov 20 17:16		
	12257 Mar 30 04:46	0° <b>∀</b>			12259 Nov 30 02:36	0° <b>≈</b>	
	12257 Apr 26 16:59	0° <b>Υ</b>			12259 Dec 27 10:28	0° <b>∀</b>	
	12257 May 22 10:08	0° <b>8</b>		evening max el	12260 Jan 12 23:59	16° <b>¥</b> 44′02	45°54'10
desc. node	12257 Jun 05 07:45	16° <b>8</b> 40'22			12260 Jan 27 17:09	0° <b>Υ</b>	
	12257 Jun 16 07:10	$\Pi$ $\circ 0$		greatest brilliancy	12260 Feb 21 04:40	15° <b>Ƴ</b> 18'52	-4.8m
	12257 Jul 10 17:23	$0$ $\circ$ $\odot$		retrograde	12260 Mar 02 01:08	17° <b>Ƴ</b> 06′30	
	12257 Aug 03 22:12	$0$ $^{\circ}$ $\Omega$		asc. node	12260 Mar 12 18:47	14° <b>Ƴ</b> 48'13	
	12257 Aug 28 01:09	0° <b>m</b>		evening set	12260 Mar 16 18:44	12° <b>Y</b> 52'16	
	12257 Sep 21 04:05	0∘ <b>ত</b>		inferior conj	12260 Mar 23 02:11	9° <b>Ƴ</b> 07'22	2°33'59
morning set	12257 Sep 24 15:29	4° <b>₽</b> 19'09		minimum elong	12260 Mar 22 20:30	9° <b>Ƴ</b> 16'13	2°32'12
asc. node	12257 Sep 26 00:06	6° <b>£</b> 00′28		min. Earth dist.	12260 Mar 23 06:51	9° <b>Y</b> '00'07	0.27884 AU
	12257 Oct 15 07:39	0°M₊		morning rise	12260 Mar 28 21:46	5° <b>Ƴ</b> 37'17	
				direct	12260 Apr 13 03:22	1° <b>Y</b> '01'58	
superior conj	12257 Nov 01 16:25	21°MJ32'32	1°14'04	greatest brilliancy	12260 Apr 23 16:25	3° <b>Υ</b> '05'58	-4.8m
minimum elong	12257 Nov 01 10:25	21°ML05'16		greatest orimaney	12260 May 29 22:25	0° <b>8</b>	4.0111
max. Earth dist.	12257 Nov 01 07:37 12257 Nov 03 18:38		1.72743 AU	morning max el	12260 Jun 02 09:18	3° <b>8</b> 24'55	16010122
max. Lattii dist.		0° <b>√</b>	1.72743 AU	morning max ci	12260 Jun 27 05:55	0°Ⅱ	40 48 22
	12257 Nov 08 12:13						
	12257 Dec 02 18:30	0°る		desc. node	12260 Jul 02 19:30	6° <b>Ⅱ</b> 17'26	
evening rise	12257 Dec 08 14:29	7°る11'31			12260 Jul 23 05:05	0°99	
	12257 Dec 27 03:36	0° <b>≈</b>			12260 Aug 17 06:38	$0$ $^{\circ}\Omega$	
desc. node	12258 Jan 15 15:10	23°≈50'54			12260 Sep 10 23:00	0° <b>m</b> )	
	12258 Jan 20 16:08	0° <b>∀</b>			12260 Oct 05 11:21	0∘ <b>ರ</b>	
	12258 Feb 14 08:04	$0^{\circ}\mathbf{\Upsilon}$		asc. node	12260 Oct 23 14:08	22° <b>≏</b> 14'38	
	12258 Mar 11 03:24	$0^{\circ}S$			12260 Oct 29 21:31	0° <b>M</b> ₊	
	12258 Apr 05 04:09	$\Pi$ °0			12260 Nov 23 06:02	0° <b>∡</b> ¹	
	12258 Apr 30 17:03	$0$ $\circ$ $\odot$		morning set	12260 Dec 03 18:47	12° <b>₹</b> 59'23	
asc. node	12258 May 08 12:07	8° <b>©</b> 56'22			12260 Dec 17 13:33	0°ರ	
	12258 May 27 11:42	$0^{\circ}\Omega$					
evening max el	12258 Jun 09 13:27	13° <b>Ω</b> 36'37	46°48'46	superior conj	12261 Jan 09 11:38	28° <b>る</b> 17'09	1°09'53
•	12258 Jun 27 05:47	0° m⊅		minimum elong	12261 Jan 09 20:56	28° <b>♂</b> 45'48	1°10'26
greatest brilliancy	12258 Jul 19 13:20	14° <b>m</b> 09'38	-4.9m	max. Earth dist.	12261 Jan 09 17:53	28° <b>පි</b> 36'25	1.73188 AU
retrograde	12258 Jul 29 20:01	16° <b>m</b> 08'10	,	man. Bartin dist.	12261 Jan 10 20:59	0° <b>≈</b>	1.75100110
evening set	12258 Aug 13 18:14	11° <b>M</b> ) 46'44			12261 Feb 04 04:55	0° <b>∀</b>	
•	12258 Aug 19 14:49	-	2010/00	desc. node	12261 Feb 12 04:42	9° <b>∺</b> 51'01	
inferior conj		8° Mp 19'22	2°16'05			14° <b>X</b> 3101	
minimum elong	12258 Aug 19 20:03	8° M) 11'21		evening rise	12261 Feb 16 03:43		
min. Earth dist.	12258 Aug 19 13:02	8° Mp 22'06	0.27072 AU		12261 Feb 28 13:06	0°Υ •••	
morning rise	12258 Aug 25 22:12	4° mp 38'10			12261 Mar 24 20:53	0° <b>B</b>	
desc. node	12258 Aug 28 13:48	3° <b>m</b> ) 19'41			12261 Apr 18 04:22	0°II	
direct	12258 Sep 09 09:03	0° m/34'18			12261 May 12 13:14	0°9	
greatest brilliancy	12258 Sep 19 05:54	2° m/21'55	-4.8m	asc. node	12261 Jun 04 22:51	28° <b>©</b> 34'23	
	12258 Oct 27 06:16	0∘ <b>⊽</b>			12261 Jun 06 03:06	$0$ $^{\circ}$ $\Omega$	
morning max el	12258 Oct 28 19:18	1° <b>≏</b> 29'21	46°09'22		12261 Jul 01 04:03	0° <b>m</b>	
	12258 Nov 25 04:56	$0^{\circ}$ M.			12261 Jul 27 04:07	0∘ <b>亚</b>	

evening max el	12261 Aug 20 10:10	25° <b>≏</b> 52'44	46°33'24		12264 Mar 15 04:54	$0^{\circ}$ Y	
	12261 Aug 24 14:42	0° <b>M</b> .		max. Earth dist.	12264 Mar 18 00:33	3° <b>Y</b> 29'33	1.72560 AU
desc. node	12261 Sep 24 23:29	24°M15'29					
greatest brilliancy	12261 Sep 28 13:28	25° <b>™</b> 49'33	-4.8m	superior conj	12264 Mar 20 16:52	6° <b>Ƴ</b> 48'54	-0°21'27
retrograde	12261 Oct 09 13:31	28° <b>™</b> 03'49		minimum elong	12264 Mar 20 11:52	6° <b>Ƴ</b> 33'23	0°21'13
evening set	12261 Oct 26 05:52	22°M42'28			12264 Apr 08 08:48	$_{0\circ}$ 8	
min. Earth dist.	12261 Oct 30 02:34	20°M22'10	0.28425 AU	evening rise	12264 Apr 28 16:25	25° <b>8</b> 18'48	
inferior conj	12261 Oct 30 22:04	19° <b>M</b> 51'54	-7°29'59		12264 May 02 10:31	$\Pi^{\circ}$	
minimum elong	12261 Oct 30 12:38	20°M06'33	7°27'51		12264 May 26 11:00	$0$ $\circ$ $\odot$	
morning rise	12261 Nov 03 19:44	17° <b>M</b> ₊29'05			12264 Jun 19 12:10	$0^{\circ}\Omega$	
direct	12261 Nov 21 02:39	11° <b>M</b> 49'42		asc. node	12264 Jul 02 10:49	16° <b>Ω</b> 05'14	
greatest brilliancy	12261 Nov 30 18:51	13°MJ31'49	-4.8m		12264 Jul 13 16:35	0° <b>m</b> y	
	12261 Dec 26 21:45	0° <b>∡</b> 7			12264 Aug 07 03:25	0∘ <b>ত</b>	
morning max el	12262 Jan 08 23:39	11° <b>∡</b> 52′08	45°42'25		12264 Sep 01 01:39	0° <b>M</b> .	
asc. node	12262 Jan 16 00:57	18° <b>∡</b> ¹49'56			12264 Sep 26 21:28	0° <b>∡</b> ¹	
	12262 Jan 26 19:03	0°ჳ		desc. node	12264 Oct 22 08:57	27° <b>∡</b> ³36'40	
	12262 Feb 22 19:39	0° <b>≈</b>			12264 Oct 24 17:16	0°ರ	
	12262 Mar 20 10:52	0° <b>)</b> €		evening max el	12264 Oct 30 13:39	5°₹48'10	46°00'32
	12262 Apr 14 09:07	0° <b>Υ</b>		<i>y</i>	12264 Nov 29 09:01	0° <b>≈</b>	
desc. node	12262 May 07 20:45	28° <b>Y</b> '45'21		greatest brilliancy	12264 Dec 08 17:16	4° <b>≈</b> 24'47	-4.7m
	12262 May 08 20:58	0°8		retrograde	12264 Dec 18 15:50	6°≈12'04	
	12262 Jun 02 01:48	0°II		evening set	12265 Jan 05 00:03	0° <b>≈</b> 30'51	
	12262 Jun 26 02:11	0°©		evening sec	12265 Jan 05 20:34	30°R₹	
morning set	12262 Jul 11 01:11	18° <b>©</b> 44'37		inferior conj	12265 Jan 09 02:47	27° <b>පි</b> 58'12	-7°10'03
morning sec	12262 Jul 20 00:36	0°Ω		minimum elong	12265 Jan 09 12:29	27° <b>る</b> 42'56	
	12262 Aug 12 23:06	0° m)		min. Earth dist.	12265 Jan 09 12:22	27° <b>る</b> 43'06	0.28875 AU
	12202 Hug 12 23.00	Ų <b>ų</b>		morning rise	12265 Jan 14 00:49	24° <b>る</b> 57'07	0.20075710
superior conj	12262 Aug 19 17:04	8° m) 26'52	-0°21'13	direct	12265 Jan 30 13:16	19° <b>る</b> 43'28	
minimum elong	12262 Aug 19 22:20	8° m) 43'22	0°21'22	greatest brilliancy	12265 Feb 10 07:55	21°る50'50	-4.8m
max. Earth dist.	12262 Aug 17 22:20 12262 Aug 21 20:02	11°M)06'19	1.71725 AU	asc. node	12265 Feb 12 11:06	21° <b>ろ</b> 42'59	- <del>4</del> .0111
asc. node	12262 Aug 28 11:50	19° m <sub>25'50</sub>	1./1/23 AU	asc. node	12265 Feb 24 21:45	0°≈	
asc. node	12262 Sep 05 22:58	ე∘ <u>ი</u>		morning max el	12265 Mar 20 22:59	0 <b>~</b> 20° <b>≈</b> 50'55	46°03'33
evening rise	12262 Sep 03 22:38 12262 Sep 27 14:16	0 <b>—</b> 26° <b>≏</b> 57'24		morning max ci	12265 Mar 29 23:42	0° <b>₩</b>	40 03 33
evening rise	12262 Sep 30 01:03	0°M			12265 Apr 26 07:30	0° <b>Υ</b>	
	12262 Scp 30 01:03	0° <b>⊼</b> ¹			12265 May 21 22:56	0°8	
	12262 Nov 17 16:49	0° <b>ਠ</b>		desc. node	12265 Jun 04 09:38	16° <b>8</b> 09'00	
	12262 Dec 12 10:25	0° <b>≈</b>		desc. Hode	12265 Jun 15 19:08	0°П	
desc. node	12262 Dec 12 10:23	0 ∞ 6°≈55'28			12265 Jul 10 04:50	0°©	
desc. flode	12263 Jan 06 13:29	0° <b>∺</b>			12265 Aug 03 09:19	0°Ω	
	12263 Feb 01 05:10	0°Υ			12265 Aug 03 03:19 12265 Aug 27 12:00	0° <b>m</b> )	
	12263 Feb 27 17:49	0°8			12265 Sep 20 14:45	0∘ <del>ত</del> المار	
evening max el	12263 Mar 26 00:21	27° <b>8</b> 39'03	46°22'34	morning set	12265 Sep 22 05:57	0 <b>=</b> 2° <b>ჲ</b> 01'54	
evening max er	12263 Mar 28 10:00	27 <b>O</b> 3903	40 22 34	asc. node	12265 Sep 25 01:56	2 <b>2</b> 01 34 5° <b>2</b> 33'12	
asc. node	12263 Apr 10 04:16	0 H 11°∏40'14		asc. node	12265 Oct 14 18:11	0°M	
greatest brilliancy	12263 Apr 10 04.10	27° <b>∏</b> 40'44	-4.9m		12203 Oct 14 16.11	0 IIG	
retrograde	12263 May 14 20:48	27 <b>Ⅱ</b> 4044 29° <b>Ⅱ</b> 25'14	-4.7111	superior conj	12265 Oct 30 08:36	19° <b>M</b> 21'34	1012117
evening set	12263 Jun 01 23:59	23° <b>Ⅱ</b> 08'41		minimum elong	12265 Oct 29 23:26	18°M53'09	
inferior conj	12263 Jun 04 12:41	21° <b>II</b> 35'33	9°12'59	max. Earth dist.	12265 Nov 01 10:21	21°M55'44	1.72711 AU
minimum elong	12263 Jun 04 12:03	21° <b>II</b> 36'32		max. Earm dist.	12265 Nov 07 10:21 12265 Nov 07 22:40	21 11 <b>6</b> 33 44 0° <b>√</b> 1	1.72711 AU
min. Earth dist.	12263 Jun 04 12:03	21° <b>II</b> 27'04			12265 Dec 02 04:58	0° <b>ਠ</b>	
morning rise	12263 Jun 07 00:06	20°II04'23	0.27302 AU	evening rise	12265 Dec 06 07:02	5° <b>පි</b> 02'16	
direct	12263 Jun 25 08:40	13° <b>Ⅱ</b> 41'15		evening rise	12265 Dec 26 14:11	0°≈	
greatest brilliancy	12263 Jul 05 04:36	15° <b>Ⅱ</b> 31'24	4.0m	desc. node	12266 Jan 14 17:09	0 ∞ 23°≈24'02	
greatest offinality	12263 Jul 28 02:19	0°95	-4.7111	desc. Hode		0° <b>\</b>	
daga mada		0 95 2°9542'07			12266 Jan 20 02:58	0 K 0°Υ	
desc. node morning max el	12263 Jul 31 06:05	16°\$29'29	46952142		12266 Feb 13 19:17 12266 Mar 10 15:13	0°8	
morning max er	12263 Aug 14 20:21 12263 Aug 27 20:18	10 <b>3</b> 2929	40 32 42		12266 Apr 04 16:57	0°II	
	•				•	0°©	
	12263 Sep 23 18:20	0ം <b>⊽</b> 0ംൂൂ		asa nada	12266 Apr 30 07:39	0°ಅ 8°9317'50	
	12263 Oct 19 12:08	0° <b>™</b>		asc. node	12266 May 07 13:59	0°Ω	
asa nada	12263 Nov 13 16:46	0°11น 8°11น56'34		avanina ma1	12266 May 27 06:24		46°48'19
asc. node	12263 Nov 21 03:20	8°แ⊾ว6′34 0° <b>√</b>		evening max el	12266 Jun 07 01:36	11° <b>Ω</b> 10'33	+U 40 17
	12263 Dec 08 13:13			grantest brill:	12266 Jun 27 17:33	0°M) 11°M 47'40	4.000
	12264 Jan 02 03:52 12264 Jan 26 14:35	್ %%		greatest brilliancy	12266 Jul 17 04:24	11° Mp 47'49	-4.9m
morning set	12264 Jan 26 14:35 12264 Feb 11 12:09	0°≈ 19°≈35'03		retrograde evening set	12266 Jul 27 08:51	13° Mp 44'51 9° Mp 20'37	
morning set	12264 Feb 11 12.09 12264 Feb 19 22:46	19 <b>≈</b> 33 03		•	12266 Aug 17 03:49	-	2°41'27
desc nodo		0° <del>X</del> 25° <b>X</b> 45'32		inferior conj	12266 Aug 17 03:49	5° Mp 56'36	
desc. node	12264 Mar 11 18:43	23 <b>八</b> 43 32		minimum elong	12266 Aug 17 09:52	5° Mp 47'19	4 3901

min. Earth dist.	12266 Aug 17 03:36	50 m 56155	0.27057 AU		12269 Jan 10 07:22	0°æ	
	•	2°M) 16'08	0.27037 AU		12269 Jan 10 07.22 12269 Feb 03 15:22	0 <b>≈</b> 0° <b>∺</b>	
morning rise desc. node	12266 Aug 23 10:33 12266 Aug 27 15:53	0° M) 16'45		desc. node		0 K 9° <b>∺</b> 24'24	
desc. node	12266 Aug 28 09:03	0 11/1043 30°RΩ		evening rise	12269 Feb 11 06:33 12269 Feb 13 19:27	9 <del>K</del> 2424 12° <b>∺</b> 32'01	
direct	•	30 κδι 28° <b>Ω</b> 11'18		evening rise	12269 Feb 13 19.27 12269 Feb 27 23:42	12 <b>χ</b> 3201 0° <b>Υ</b>	
direct	12266 Sep 06 21:13 12266 Sep 16 19:28	0° m)			12269 Feb 27 23.42 12269 Mar 24 07:44	0°8	
araataat brillianas			4 9			0°U	
greatest brilliancy	12266 Sep 16 19:57	0° 100'25	-4.8m		12269 Apr 17 15:32	0.20	
morning max el	12266 Oct 26 08:37	29° m 09'31	46°11'03	1	12269 May 12 00:52	0°ഇ 28° <b>©</b> 03'13	
	12266 Oct 27 05:21	0∘ <b>⊽</b>		asc. node	12269 Jun 04 00:51		
	12266 Nov 24 20:46	0°M,			12269 Jun 05 15:26	0° <b>N</b>	
asc. node	12266 Dec 18 15:49	26°M52'23			12269 Jun 30 17:36	0° <b>m</b> )	
	12266 Dec 21 08:46	0° <b>∡</b> ¹			12269 Jul 26 20:15	0∘ <b>⊽</b>	
	12267 Jan 15 21:09	0°る		evening max el	12269 Aug 18 02:06	23° <b>≏</b> 38'34	46°34'25
	12267 Feb 09 20:04	0° <b>≈</b>			12269 Aug 24 14:38	0° <b>M</b> ₊	
	12267 Mar 06 10:42	0° <b>)</b> €		desc. node	12269 Sep 24 01:21	22°M41'12	
	12267 Mar 30 19:44	0°Υ		greatest brilliancy	12269 Sep 26 03:56	23°M34'04	-4.8m
desc. node	12267 Apr 09 08:47	11° <b>Y</b> 48'44		retrograde	12269 Oct 07 05:33	25° <b>M</b> 49′20	
morning set	12267 Apr 24 06:44	0° <b>8</b> 20'10		evening set	12269 Oct 23 17:31	20°M33'26	
	12267 Apr 24 00:15	0°B		min. Earth dist.	12269 Oct 27 16:41	18°M09'33	0.28375 AU
	12267 May 18 01:01	0°Щ		inferior conj	12269 Oct 28 13:05	17° <b>M</b> 37'54	
max. Earth dist.	12267 Jun 01 07:42	17° <b>Ⅲ</b> 53'40	1.71491 AU	minimum elong	12269 Oct 28 03:19	17°M53'03	7°16'21
				morning rise	12269 Nov 01 13:33	15°M11'12	
superior conj	12267 Jun 03 09:44	20° <b>Ⅲ</b> 30'35		direct	12269 Nov 18 17:51	9°M36'39	
minimum elong	12267 Jun 03 08:47	20° <b>Ⅲ</b> 27'37	1°28'19	greatest brilliancy	12269 Nov 28 08:09	11°ML17'30	-4.8m
	12267 Jun 10 23:14	0			12269 Dec 27 02:38	0° <b>∡</b> ¹	
	12267 Jul 04 20:46	$0^{\circ}\Omega$		morning max el	12270 Jan 06 15:00	9° <b>∡</b> ¹40′20	45°42'31
evening rise	12267 Jul 13 17:09	11° <b>Ω</b> 05'49		asc. node	12270 Jan 15 02:59	18° <b>∡</b> 05'46	
	12267 Jul 28 19:30	0° <b>m</b> ∕			12270 Jan 26 11:58	0°₹	
asc. node	12267 Jul 30 23:56	2° <b>m</b> 43'50			12270 Feb 22 09:19	0° <b>≈</b>	
	12267 Aug 21 21:05	0∘ <b>ত</b>			12270 Mar 19 23:06	0° <b>∀</b>	
	12267 Sep 15 03:14	0° <b>M</b> .			12270 Apr 13 20:38	$0$ ° $\Upsilon$	
	12267 Oct 09 16:46	0° <b>∡</b> ¹		desc. node	12270 May 06 22:31	28° <b>Ƴ</b> 16'32	
	12267 Nov 03 18:28	8°0			12270 May 08 08:06	$0^{\circ}$ 8	
desc. node	12267 Nov 19 19:13	18° <b>る</b> 42'14			12270 Jun 01 12:42	$\Pi^{\circ}$ 0	
	12267 Nov 29 16:30	0° <b>≈</b>			12270 Jun 25 12:57	0°€	
	12267 Dec 27 04:09	0° <b>)</b> €		morning set	12270 Jul 08 13:23	16° <b>©</b> 18'56	
evening max el	12268 Jan 10 14:50	14° <b>)</b> 30′51	45°53'50		12270 Jul 19 11:16	$0^{\circ}\Omega$	
	12268 Jan 28 01:59	$0^{\circ}\mathbf{\Upsilon}$			12270 Aug 12 09:40	o∘ <b>m</b> y	
greatest brilliancy	12268 Feb 18 18:38	13° <b>Y</b> ′02'57	-4.8m		•		
retrograde	12268 Feb 28 16:10	14° <b>Ƴ</b> 51'12		superior conj	12270 Aug 17 06:04	6° <b>™</b> 04'19	-0°24'51
asc. node	12268 Mar 11 20:47	11° <b>Y</b> 53'11		minimum elong	12270 Aug 17 12:11	6° m) 23′27	0°24'58
evening set	12268 Mar 14 08:55	10° <b>Ƴ</b> 37'02		max. Earth dist.	12270 Aug 19 10:45	8° <b>m</b> 49'08	1.71693 AU
inferior conj	12268 Mar 20 16:54	6° <b>Ƴ</b> 51′23	2°12'22	asc. node	12270 Aug 27 13:38	18° <b>m</b> ) 58'28	
minimum elong	12268 Mar 20 11:58	6° <b>Ƴ</b> 59'03	2°10'50		12270 Sep 05 09:30	0∘ <del>⊽</del>	
min. Earth dist.	12268 Mar 20 21:53	6° <b>Ƴ</b> 43'38	0.27911 AU	evening rise	12270 Sep 25 05:34	24° <b>-</b> 42'51	
morning rise	12268 Mar 26 14:34	3° <b>Y</b> 18'42		C	12270 Sep 29 11:37	0° <b>M</b> .	
Ü	12268 Apr 03 00:02	30° <b>Ŗ</b> ₩			12270 Oct 23 17:08	0° <b>∡</b> ¹	
direct	12268 Apr 10 18:36	28° <b>)</b> 45'31			12270 Nov 17 03:47	ರ°0	
	12268 Apr 18 20:19	$0^{\circ}$ Y			12270 Dec 11 21:50	0° <b>≈</b>	
greatest brilliancy	12268 Apr 21 08:06	0° <b>Υ</b> ′50'22	-4.8m	desc. node	12270 Dec 17 06:38	6° <b>≈</b> 26'38	
,	12268 May 29 21:00	0° <b>႘</b>			12271 Jan 06 01:40	0° <b>₩</b>	
morning max el	12268 May 31 01:00	1° <b>8</b> 09'47	46°47'20		12271 Jan 31 18:43	0° <b>Υ</b>	
8	12268 Jun 26 21:43	0°II			12271 Feb 27 10:09	0°8	
desc. node	12268 Jul 01 21:33	5° <b>Ⅱ</b> 40'05		evening max el	12271 Mar 23 14:20	25° <b>8</b> 19'14	46°21'16
	12268 Jul 22 18:30	0°©			12271 Mar 28 10:17	0°II	
	12268 Aug 16 18:54	$0^{\circ}\Omega$		asc. node	12271 Apr 09 06:11	10° <b>Ⅱ</b> 35'07	
	12268 Sep 10 10:34	0° mp		greatest brilliancy	12271 May 02 18:20	25° <b>I</b> 17'51	-4.9m
	12268 Oct 04 22:28	0∘ <del>ت</del> س		retrograde	12271 May 02 18:20 12271 May 12 09:29	27° <b>I</b> 17'31	
asc. node	12268 Oct 04 22:28 12268 Oct 22 15:55	0 <b>—</b> 21° <b>≏</b> 46'47		evening set	12271 May 12 05:25 12271 May 30 11:31	20° <b>II</b> 47'59	
300. 110 <b>u</b> 0		0°M		inferior conj	12271 Jun 02 01:56	19° <b>Ⅱ</b> 12'03	9°11'44
	12268 Oct 29 08:18				, . Jun 02 01.J0		/ 11 77
	12268 Oct 29 08:18 12268 Nov 22 16:34			minimum elong	12271 Jun 02 00:10	19°∏1/122	9°10'51
morning set	12268 Nov 22 16:34	0° <b>∡</b> ¹		minimum elong	12271 Jun 02 00:19		9°10'51 0.27378 AU
morning set	12268 Nov 22 16:34 12268 Dec 01 11:28	0° <b>҂</b> ¹ 10° <b>҂</b> ¹50'26		min. Earth dist.	12271 Jun 02 06:59	19° <b>Ⅱ</b> 04'13	9°10'51 0.27378 AU
morning set	12268 Nov 22 16:34	0° <b>∡</b> ¹		min. Earth dist. morning rise	12271 Jun 02 06:59 12271 Jun 04 13:06	19° <b>Ⅲ</b> 04'13 17° <b>Ⅲ</b> 41'01	
-	12268 Nov 22 16:34 12268 Dec 01 11:28 12268 Dec 16 23:57	0° <b>*</b> 10° <b>*</b> 750'26 0°궁	1°11'47	min. Earth dist. morning rise direct	12271 Jun 02 06:59 12271 Jun 04 13:06 12271 Jun 22 21:59	19° <b>Д</b> 04'13 17° <b>Д</b> 41'01 11° <b>Д</b> 17'30	0.27378 AU
superior conj	12268 Nov 22 16:34 12268 Dec 01 11:28 12268 Dec 16 23:57 12269 Jan 07 04:20	0° ҂ 10° ҂ 50'26 0° ठ 26° ठ08'33		min. Earth dist. morning rise	12271 Jun 02 06:59 12271 Jun 04 13:06 12271 Jun 22 21:59 12271 Jul 02 17:51	19°Щ04'13 17°Щ41'01 11°Щ17'30 13°Щ07'09	
-	12268 Nov 22 16:34 12268 Dec 01 11:28 12268 Dec 16 23:57	0° \$\frac{7}{2} \\ 10° \$\frac{7}{2} \\ 50'26 \\ 0° \$\frac{7}{3} \\ 26° \$\frac{7}{3} \\ 26° \$\frac{7}{3} \\ 36' \$\frac{7}{3}		min. Earth dist. morning rise direct	12271 Jun 02 06:59 12271 Jun 04 13:06 12271 Jun 22 21:59	19° <b>Д</b> 04'13 17° <b>Д</b> 41'01 11° <b>Д</b> 17'30	0.27378 AU

morning max el	12271 Aug 12 09:10	14°504'41	46°53'36		12274 Mar 10 03:29	0° <b>8</b>	
Ü	12271 Aug 27 14:45	$0^{\circ}\Omega$			12274 Apr 04 06:17	0°II	
	12271 Sep 23 08:56	0° <b>m</b>			12274 Apr 29 22:53	0ංම	
	12271 Oct 19 00:58	0∘ <b>⊽</b>		asc. node	12274 May 06 16:02	7° <b>5</b> 38'13	
	12271 Nov 13 04:37	$0^{\circ}$ M			12274 May 27 02:07	$0^{\circ}\Omega$	
asc. node	12271 Nov 20 05:20	8°M27'33		evening max el	12274 Jun 04 14:03	8° <b>Ω</b> 44'17	46°48'06
	12271 Dec 08 00:29	0° <b>∡</b> 7			12274 Jun 28 09:58	0° <b>m</b> )	
	12272 Jan 01 14:47	8°0		greatest brilliancy	12274 Jul 14 18:50	9° <b>m</b> ,24'15	-4.9m
	12272 Jan 26 01:19	0° <b>≈</b>		retrograde	12274 Jul 24 22:08	11° <b>m</b> 20'34	
morning set	12272 Feb 09 04:30	17° <b>≈</b> 24'35		evening set	12274 Aug 09 00:39	6° Mp 52′58	
	12272 Feb 19 09:25	0° <b>)</b> €		inferior conj	12274 Aug 14 16:45	3° My 32'32	3°04'30
desc. node	12272 Mar 10 20:28	25° <b>∺</b> 17'59		minimum elong	12274 Aug 14 23:36	3° <b>m</b> 22'04	3°01'54
	12272 Mar 14 15:33	$0^{\circ}$ Y		min. Earth dist.	12274 Aug 14 17:48	3° <b>m</b> 30'55	0.27046 AU
max. Earth dist.	12272 Mar 15 14:53	1° <b>Y</b> 12'18	1.72597 AU	morning rise	12274 Aug 20 22:40	29° <b>Ω</b> 53′23	
					12274 Aug 20 17:43	30°R <b>Ω</b>	
superior conj	12272 Mar 18 07:09	4° <b>Υ</b> 31'24		desc. node	12274 Aug 26 17:48	27° <b>Ω</b> 17'52	
minimum elong	12272 Mar 18 02:57	4° <b>Υ</b> 18′23	0°17'43	direct	12274 Sep 04 09:38	25° <b>Ω</b> 46'55	
	12272 Apr 07 19:31	0° <b>8</b>		greatest brilliancy	12274 Sep 14 09:37	27° <b>Ω</b> 37′23	-4.8m
evening rise	12272 Apr 26 05:28	22° <b>8</b> 56'08			12274 Sep 19 21:58	0° <b>m</b>	
	12272 May 01 21:22	0°Щ		morning max el	12274 Oct 23 22:57	26° <b>m</b> 51'03	46°12'45
	12272 May 25 22:01	0ა <b>ௐ</b>			12274 Oct 27 03:53	0∘ <b>⊽</b>	
	12272 Jun 18 23:25	$0$ $\circ$ $\Omega$			12274 Nov 24 12:41	0° <b>M</b> ₊	
asc. node	12272 Jul 01 12:48	15° <b>Ω</b> 35'54		asc. node	12274 Dec 17 17:46	26°M18'42	
	12272 Jul 13 04:11	0° <b>m</b> )			12274 Dec 20 22:11	0° <b>∡</b> ¹	
	12272 Aug 06 15:33	0∘ <b>⊽</b>			12275 Jan 15 09:21	0°ಕ	
	12272 Aug 31 14:42	0° <b>M</b>			12275 Feb 09 07:37	0° <b>≈</b>	
	12272 Sep 26 12:27	0° <b>∡</b> ¹			12275 Mar 05 21:55	0° <b>∀</b>	
desc. node	12272 Oct 21 10:56	26° <b>∡</b> ′52'12			12275 Mar 30 06:47	0° <b>Υ</b>	
	12272 Oct 24 13:30	0° <b>ろ</b>		desc. node	12275 Apr 08 10:39	11° <b>Y</b> ′20′23	
evening max el	12272 Oct 28 03:41	3° <b>る</b> 32'22	46°01'23	morning set	12275 Apr 21 19:03	27° <b>Y</b> ′54'55	
	12272 Dec 01 01:27	0° <b>≈</b>			12275 Apr 23 11:15	0° <b>8</b>	
greatest brilliancy	12272 Dec 06 09:01	2°≈14'32	-4.7m		12275 May 17 11:59	0°II	
retrograde	12272 Dec 16 07:04	4°≈01'52		max. Earth dist.	12275 May 29 18:31	15°Щ22'33	1.71514 AU
	12272 Dec 30 17:27	30°Ŗ <b>る</b>					
evening set	12273 Jan 02 18:47	28° <b>궁</b> 16'13	5001105	superior conj	12275 May 31 21:22	18° <b>Ⅱ</b> 02'03	
inferior conj	12273 Jan 06 18:50	25° <b>る</b> 47'38		superior conj minimum elong	12275 May 31 19:21	17° <b>Ⅱ</b> 55'44	
inferior conj minimum elong	12273 Jan 06 18:50 12273 Jan 07 04:15	25° <b>ප්</b> 47'38 25° <b>ප්</b> 32'48	7°19'04		12275 May 31 19:21 12275 Jun 10 10:13	17° <b>Ⅱ</b> 55'44 0°©	
inferior conj minimum elong min. Earth dist.	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07	25° ප්47'38 25° ප්32'48 25° ප්33'01		minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48	17°∏55'44 0°© 0°Ω	
inferior conj minimum elong min. Earth dist. morning rise	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36	25° පි47'38 25° පි32'48 25° පි33'01 22° පි51'08	7°19'04		12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20	17°∏55'44 0°© 0°Ω 8°Ω35'54	
inferior conj minimum elong min. Earth dist. morning rise direct	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53	25° ට 47'38 25° ට 32'48 25° ට 33'01 22° ට 51'08 17° ට 32'42	7°19'04 0.28898 AU	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37	17°∏55'44 0°© 0°Ω 8°Ω35'54 0°™	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59	25° で 47'38 25° で 32'48 25° で 33'01 22° で 51'08 17° で 32'42 19° で 39'55	7°19'04	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41	17° \$\Pi\$55'44 0° \$\Pi\$ 0° \$\Omega\$ 8° \$\Omega\$35'54 0° \$\Pi\$ 2° \$\Pi\$14'37	
inferior conj minimum elong min. Earth dist. morning rise direct	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33	7°19'04 0.28898 AU	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20	17° II 55'44 0° II 0° II 8° II 35'54 0° III 2° III 14'37 0° II	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22	25°♂47'38 25°♂32'48 25°♂33'01 22°♂51'08 17°♂32'42 19°♂39'55 21°♂10'33 0°≈	7°19'04 0.28898 AU -4.8m	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44	17° II 55'44 0° ഇ 0° A 8° A 35'54 0° M 2° M 14'37 0° ഇ 0° IIL	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45	7°19'04 0.28898 AU	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43	17° \$\Pi\$55'44 0° \$\Pi\$ 0° \$\Omega\$ 8° \$\Omega\$35'54 0° \$\Pi\$ 2° \$\Pi\$14'37 0° \$\Pi\$ 0° \$\Pi\$ 0° \$\Pi\$	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° 米	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17	17°用55'44 0°© 0°Ω 8°Ω35'54 0°M 2°M14'37 0°Ω 0°M 0°% 0°%	
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Apr 25 22:09	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° 升	7°19'04 0.28898 AU -4.8m	minimum elong	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15	17° \$\Pi 55'44 0° \$\Pi\$ 0° \$\Omega\$ 8° \$\Omega 35'54\$ 0° \$\Pi\$ 0° \$\Pi\$ 0° \$\Pi\$ 0° \$\Pi\$ 18° \$\Pi 08'39\$	
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inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Apr 25 22:09 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° 8 15° 837'34 0° Ⅱ	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32	17° \$\Pi\$55'44 0° \$\Pi\$ 0° \$\Omega\$ 8° \$\Omega\$35'54 0° \$\Pi\$ 2° \$\Pi\$14'37 0° \$\Omega\$ 0° \$\Pi\$ 18° \$\To\$08'39 0° \$\Rightarrow\$ 0° \$\Hat* 12° \$\Hat*18'42	1°28′03
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Apr 25 22:09 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈34'45 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node desc. node evening max el	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37	17° \$\Pi\$55'44 0° \$\Pi\$ 0° \$\Omega\$ 8° \$\Omega\$35'54 0° \$\mathred{m}\$ 2° \$\mathred{m}\$14'37 0° \$\Omega\$ 0° \$\mathred{m}\$ 0° \$\omega\$ 18° \$\omega\$08'39 0° \$\approx\$ 0° \$\omega\$ 12° \$\omega\$18'42 0° \$\Omega\$	1°28′03 45°53′32
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 Mar 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26 12273 Aug 02 20:35	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈34'45 0° ¥ 0° Y 0° ¥ 15° 837'34 0° II 0° © 0° Ω	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node evening max el greatest brilliancy	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30	17° II 55'44 0° © 0° A 8° A35'54 0° III 2° III 14'37 0° III 0° III 0° III 0° III 0° III 0° III 0° III 18° II 308'39 0° III 12° II 18'42 0° II 10° Y 46'00	1°28′03
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° ጕ 0° 坄 15° ℧ 37'34 0° Ⅲ 0° ໑ の° 凡 0° 卯	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node evening max el greatest brilliancy retrograde	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04	17° II 55'44 0° © 0° A 8° A35'54 0° III 2° III 14'37 0° III 0° III 18° II 18'42 0° Y 10° Y 46'00 12° Y 34'39	1°28′03 45°53′32
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈34'45 0° ¥ 0° Y 0° ¥ 0° B 15° 537'34 0° II 0° © 0° A 0° M 29° M 43'35	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node evening max el greatest brilliancy retrograde asc. node	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41	17° IT 55'44 0°© 0° A 8° A 35'54 0° ID 2° ID 14'37 0° IL 0° IL 12° IT 18'42 0° IL 12° IT 18'43 0° IT 18'43 0° IT 18'44 0°	1°28′03 45°53′32
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jun 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22 12273 Sep 20 01:38	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° 升 0° 分 0° 別 0° の 0° 別 29° 別 43'35 0° 요	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node evening max el greatest brilliancy retrograde asc. node evening set	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41 12276 Mar 11 23:20	17° IT 55'44 0°© 0° A 8° A 35'54 0° ID 2° ID 14'37 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 12° IT 18'42 0° IL 12° IT 18'43 0° IL 13° IT 18'44 0° IT 18' IT 1	1°28'03 45°53'32 -4.8m
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° 升 0° 分 0° 別 0° の 0° 別 29° 別 43'35 0° 요 5° 요05'02	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde asc. node evening set inferior conj	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41	17° II 55'44 0°© 0° A 8° A35'54 0° III 10° III	1°28'03 45°53'32 -4.8m
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jun 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22 12273 Sep 20 01:38 12273 Sep 24 03:44	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈ 34'45 0° 升 0° 分 0° 別 0° の 0° 別 29° 別 43'35 0° 요	7°19'04 0.28898 AU -4.8m	minimum elong evening rise asc. node  desc. node evening max el greatest brilliancy retrograde asc. node evening set	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41 12276 Mar 11 23:20 12276 Mar 18 07:36	17° \$\Pi\$5'44 0°\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{m}\$ 0°\$\Pi\$\$\text{0°}\$\text{m}\$ 14'37 0°\$\Pi\$\$\text{0°}\$\Pi\$\$\text{0°}\$\text{18'}\$ 0°\$\Pi\$\$\text{18'}\$\text{39}\$ 0°\$\text{12°}\$\text{18'}\$\text{42}\$ 0°\$\text{10°}\$\text{18'}\$\text{42}\$ 0°\$\text{10°}\$\text{18'}\$\text{42'}\$ 0°\$\text{10°}\$\text{18'}\$\text{42'}\$ 0°\$\text{10°}\$\text{13'}\$ 8°\$\text{753'}\$\text{10}\$ 8°\$\text{720'}\$\text{36'}\$ 4°\$\text{734'}\$\text{14}\$ 4°\$\text{740'}\$\text{42'}\$	1°28'03 45°53'32 -4.8m
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inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jun 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22 12273 Sep 20 01:38 12273 Sep 20 01:38 12273 Oct 30 00:39 12273 Oct 30 00:39 12273 Oct 30 00:39 12273 Oct 01 15:40 12273 Dec 01 15:40 12273 Dec 01 15:40 12273 Dec 01 15:40	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈34'45 0° Y 0° Y 0° Y 0° S 15° S37'34 0° II 0° © 0° R 0° M 29° M 43'35 0° Ω 5° Ω05'02 0° M 17° M 09'54 16° M 40'29 19° M 38'09 0° ズ 0° 5 2° 552'45	7°19'04 0.28898 AU -4.8m 46°02'11 1°10'22 1°10'41	minimum elong  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise  direct greatest brilliancy	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41 12276 Mar 11 23:20 12276 Mar 18 07:36 12276 Mar 18 07:36 12276 Mar 24 07:10 12276 Mar 26 03:40 12276 Mar 26 03:40 12276 Apr 08 10:11 12276 Apr 18 23:23 12276 Apr 22 09:09 12276 May 28 16:39	17° \$\Pi\$5'44 0°\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{0°}\$\text{18°}\$\text{308'39}\$\text{0°}\$\text{18'42}\$\text{0°}\$\text{10°}\$\text{19°}\$\text{46'00}\$\text{12°}\$\text{43'439}\$\text{8°}\$\text{753'10}\$\text{8°}\$\text{753'10}\$\text{8°}\$\text{753'10}\$\text{26'}\$\text{428'03}\$\text{28°}\$\text{432'59}\$\text{0°}\$\text{18'42}\$\text{0°}\$\text{753'02}\$\text{18'45}\$\text{0°}\$\text{155'02}\$\text{30°}\$\text{8}\$\text{40'}\$\text{28'03}\$\text{28°}\$\text{432'59}\$\text{0°}\$\text{9°}\$\text{28°}\$\text{753'02}\$\text{30'2}\$\t	1°28'03 45°53'32 -4.8m 1°50'33 1°49'17 0.27941 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jul 09 16:26 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22 12273 Sep 20 01:38 12273 Sep 20 01:38 12273 Oct 14 04:56  12273 Oct 28 00:50 12273 Oct 27 15:20 12273 Oct 30 00:39 12273 Nov 07 09:21 12273 Dec 01 15:40 12273 Dec 03 23:43 12273 Dec 03 23:43 12273 Dec 06	25° 547'38 25° 532'48 25° 533'01 22° 551'08 17° 532'42 19° 539'55 21° 510'33 0° ≈ 18° ≈34'45 0° ¥ 0° ¥ 0° \$ <b>0</b> \$ 15° \$ <b>0</b> \$37'34 0° \$\mathbf{I}\$ 0° \$ <b>0</b> \$ 0° \$ <b>0</b> \$ 0° \$ <b>0</b> \$ 15° \$ <b>0</b> \$37'35 0° \$ <b>0</b> \$ 5° \$ <b>0</b> \$05'02 0° \$\mathbf{m}\$ 17° \$\mathbf{m}\$.09'54 16° \$\mathbf{m}\$.40'29 19° \$\mathbf{m}\$.38'09 0° \$\mathbf{x}\$ 0° \$ <b>0</b> \$ 2° \$ <b>0</b> \$52'45 0° \$ <b>0</b> \$	7°19'04 0.28898 AU -4.8m 46°02'11 1°10'22 1°10'41	minimum elong  evening rise  asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise  direct greatest brilliancy	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41 12276 Mar 11 23:20 12276 Mar 18 07:36 12276 Mar 18 07:36 12276 Mar 24 07:10 12276 Mar 24 07:10 12276 Mar 26 03:40 12276 Apr 08 10:11 12276 Apr 18 23:23 12276 Apr 18 23:23 12276 Apr 22 09:09 12276 May 28 16:39 12276 May 29 19:19	17° II 55'44 0° © 0° A 8° A 35'54 0° III 2° III 14'37 0° A 0° III 0° ズ 0° III 0° ズ 0° III 18° 云 08'39 0° ※ 0° Y 10° Y 46'00 12° Y 34'39 8° Y 53'10 8° Y 20'36 4° Y 34'14 4° Y 40'42 4° Y 26'10 0° Y 59'02 30° R X 26° X 28'03 28° Y 53'02 0° Y 28° Y 53'02 0° \	1°28'03 45°53'32 -4.8m 1°50'33 1°49'17 0.27941 AU
inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node morning max el  desc. node  morning set asc. node  superior conj minimum elong max. Earth dist.	12273 Jan 06 18:50 12273 Jan 07 04:15 12273 Jan 07 04:07 12273 Jan 11 13:36 12273 Jan 28 04:53 12273 Feb 07 23:59 12273 Feb 11 13:03 12273 Feb 25 13:22 12273 Mar 18 13:31 12273 Mar 29 18:28 12273 Mar 29 18:28 12273 May 21 11:55 12273 Jun 03 11:40 12273 Jun 15 07:15 12273 Jun 09 16:26 12273 Aug 02 20:35 12273 Aug 02 20:35 12273 Aug 26 23:04 12273 Sep 19 20:22 12273 Sep 20 01:38 12273 Sep 20 01:38 12273 Oct 14 04:56  12273 Oct 28 00:50 12273 Oct 27 15:20 12273 Oct 27 15:20 12273 Oct 30 00:39 12273 Nov 07 09:21 12273 Dec 01 15:40 12273 Dec 03 23:43 12273 Dec 26 01:02 12274 Jan 13 19:04	25° \( \frac{3}{47}'38\) 25° \( \frac{3}{32}'48\) 25° \( \frac{3}{33}'01\) 22° \( \frac{5}{51}'08\) 17° \( \frac{3}{39}'55\) 21° \( \frac{3}{10}'33\) 0° \( \triangle \) 18° \( \frac{3}{34}'45\) 0° \( \frac{7}{0}\) 0° \( \frac{7}{0}\) 0° \( \frac{9}{0}\) 17° \( \frac{1}{0}'02'02'02'0'02'02'0'02'00'02'02'00'02'02	7°19'04 0.28898 AU -4.8m 46°02'11 1°10'22 1°10'41	evening rise asc. node  desc. node  evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12275 May 31 19:21 12275 Jun 10 10:13 12275 Jul 04 07:48 12275 Jul 11 04:20 12275 Jul 28 06:37 12275 Jul 30 01:41 12275 Aug 21 08:20 12275 Sep 14 14:44 12275 Oct 09 04:43 12275 Nov 03 07:17 12275 Nov 18 21:15 12275 Nov 29 07:01 12275 Dec 26 22:45 12276 Jan 08 06:32 12276 Jan 28 14:37 12276 Feb 16 08:30 12276 Feb 26 07:04 12276 Mar 10 22:41 12276 Mar 11 23:20 12276 Mar 18 07:36 12276 Mar 18 07:36 12276 Mar 18 12:47 12276 Mar 24 07:10 12276 Mar 24 07:10 12276 Mar 24 07:10 12276 Apr 18 23:23 12276 Apr 18 23:23 12276 Apr 18 23:23 12276 Apr 22 09:09 12276 May 29 19:19 12276 May 29 19:19 12276 May 29 19:19	17° II 55'44 0° © 0° A 8° A35'54 0° III 2° III 14'37 0° A 0° III 0° ズ 0° III 0° ズ 0° III 0° ズ 0° III 12° Y 18'42 0° Y 10° Y 46'00 12° Y 34'39 8° Y 53'10 8° Y 20'36 4° Y 34'14 4° Y 40'42 4° Y 26'10 0° Y 59'02 30° R X 26° X 28'03 28° Y 53'02 0° Y 28° Y 53'02 0° B 0° II	1°28'03 45°53'32 -4.8m 1°50'33 1°49'17 0.27941 AU

	10076 4 16 07 26	00.0		1	12270 4 00 00 10	00 <b>T2</b> 0110	
	12276 Aug 16 07:36	0° <b>N</b>		asc. node	12279 Apr 08 08:18	9° <b>Ⅱ</b> 28'18	
	12276 Sep 09 22:34	0° <b>m</b> )		greatest brilliancy	12279 Apr 30 07:53	22° <b>I</b> 55'13	-4.8m
	12276 Oct 04 09:58	0∘ <b>ত</b>		retrograde	12279 May 09 22:02	24° <b>Ⅱ</b> 38'29	
asc. node	12276 Oct 21 17:52	21° <b>≏</b> 18'15		evening set	12279 May 27 22:33	18° <b>Ⅱ</b> 28'16	
	12276 Oct 28 19:26	0° <b>M</b>		inferior conj	12279 May 30 15:19	16° <b>Ⅱ</b> 48'44	9°09'22
	12276 Nov 22 03:30	0° <b>⊼</b> ¹		minimum elong	12279 May 30 12:45	16° <b>Ⅱ</b> 52'44	9°08'26
morning set	12276 Nov 29 04:09	8° <b>₰</b> ¹40'13		min. Earth dist.	12279 May 30 20:13	16° <b>Ⅱ</b> 41'07	0.27396 AU
	12276 Dec 16 10:47	6°0		morning rise	12279 Jun 02 02:54	15° <b>Ⅱ</b> 16'54	
				direct	12279 Jun 20 11:00	8° <b>Ⅱ</b> 53'42	
superior conj	12277 Jan 04 21:13	23° <b>る</b> 59'12	1°13'34	greatest brilliancy	12279 Jun 30 07:52	10° <b>∏</b> 43'43	-4.9m
minimum elong	12277 Jan 05 05:54	24°る26'00		greatest orimaney	12279 Jul 28 17:27	0°9	- <del>4</del> .7III
2		24°る2000 24°る43'52		JJ.			
max. Earth dist.	12277 Jan 05 11:41		1.73185 AU	desc. node	12279 Jul 29 10:00	0°537'23	46054100
	12277 Jan 09 18:10	0° <b>≈</b>		morning max el	12279 Aug 09 21:48	11° <b>©</b> 38'47	46°54'20
	12277 Feb 03 02:14	0° <b>∀</b>			12279 Aug 27 08:57	$0$ $^{\circ}\Omega$	
desc. node	12277 Feb 10 08:20	8° <b>¥</b> 56′20			12279 Sep 22 23:36	0° <b>m</b> )	
evening rise	12277 Feb 11 11:22	10° <b>) (</b> 19′34			12279 Oct 18 13:57	0∘ <b>ত</b>	
	12277 Feb 27 10:42	$0^{\circ}$ Y			12279 Nov 12 16:37	0° <b>M</b> ₊	
	12277 Mar 23 18:57	$8^{\circ}$ 0		asc. node	12279 Nov 19 07:16	7° <b>M</b> 57'50	
	12277 Apr 17 03:07	$\Pi$ $^{\circ}0$			12279 Dec 07 11:52	0° <b>⊼</b> ¹	
	12277 May 11 12:58	0°©			12280 Jan 01 01:47	ರ°0	
asc. node	12277 Jun 03 02:48	27° <b>©</b> 30'17			12280 Jan 25 12:06	0° <b>≈</b>	
use. Hode	12277 Jun 05 04:20	0°Ω		morning set	12280 Feb 06 20:51	15°≈13'56	
				morning set			
	12277 Jun 30 07:50	0° mp			12280 Feb 18 20:08	0° <b>∀</b>	
	12277 Jul 26 13:16	0∘ <b>ত</b>		desc. node	12280 Mar 09 22:23	24° <b>¥</b> 50′40	
evening max el	12277 Aug 15 18:00	21° <b>£</b> 22'39	46°35'33	max. Earth dist.	12280 Mar 13 06:28	28° <b>¥</b> 58'37	1.72636 AU
	12277 Aug 24 16:28	0° <b>M</b>			12280 Mar 14 02:17	$0^{\circ}$ Y	
desc. node	12277 Sep 23 03:21	21°M02'14					
greatest brilliancy	12277 Sep 23 19:05	21°M17'52	-4.8m	superior conj	12280 Mar 15 21:38	2° <b>Ƴ</b> 14'19	-0°14'26
retrograde	12277 Oct 04 21:12	23°M33'09		minimum elong	12280 Mar 15 18:15	2° <b>Y</b> 03'50	0°14'13
evening set	12277 Oct 21 05:13	18° <b>M</b> 22'57		behind sun begin	12280 Mar 15 06:53	1° <b>Y</b> 28'35	
min. Earth dist.	12277 Oct 25 07:03	15°M55'06	0.28318 AU	behind sun end	12280 Mar 16 05:38	2° <b>Υ</b> 39'04	
inferior conj	12277 Oct 26 04:02	15°M22'30		bennia san ena	12280 Apr 07 06:20	0°8	
3		15°M38'05	7°04'08	avanina riaa	•	20° <b>8</b> 34'34	
minimum elong	12277 Oct 25 18:01		/ 04 08	evening rise	12280 Apr 23 18:55		
morning rise	12277 Oct 30 07:19	12°M51'43			12280 May 01 08:16	0°II	
direct	12277 Nov 16 08:53	7°M22'21			12280 May 25 09:03	0ංම	
greatest brilliancy	12277 Nov 25 21:27	9° <b>™</b> 01'48	-4.8m		12280 Jun 18 10:40	$0^{\circ}\Omega$	
	12277 Dec 27 06:10	0° <b>⊼</b>		asc. node	12280 Jun 30 14:37	15° <b>Ω</b> 06′09	
morning max el	12278 Jan 04 05:35	7° <b>҂</b> ¹25'35	45°42'37		12280 Jul 12 15:47	0° <b>m</b> ∕	
asc. node	12278 Jan 14 04:52	17° <b>∡</b> ¹20'53			12280 Aug 06 03:44	0∘ <b>ত</b>	
	12278 Jan 26 04:55	8°0			12280 Aug 31 03:54	0° <b>M</b> .	
	12278 Feb 21 23:11	0° <b>≈</b>			12280 Sep 26 03:43	0° <b>∡</b> ¹	
	12278 Mar 19 11:37	0° <b>)</b> €		desc. node	12280 Oct 20 13:01	26° <b>₹</b> 107'06	
	12278 Apr 13 08:25	0° <b>Υ</b>		door. node	12280 Oct 24 10:32	0°ਰ	
desc. node	12278 May 06 00:34	27° <b>Y</b> 47'37		evening max el	12280 Oct 25 17:46	1°る16'26	46°02'21
desc. Hode	•	0° <b>8</b>		evening max ci		0°≈	40 02 21
	12278 May 07 19:29			1	12280 Dec 03 20:07		4.0
	12278 May 31 23:53	0°II		greatest brilliancy	12280 Dec 04 00:21	0°≈03'42	-4.8m
_	12278 Jun 25 00:02	0°€		retrograde	12280 Dec 13 22:48	1°≈51'50	
morning set	12278 Jul 06 01:19	13° <b>©</b> 51'19			12280 Dec 23 15:31	30°Ŗる	
	12278 Jul 18 22:17	$0^{\circ}\Omega$		evening set	12280 Dec 31 13:26	26° <b>る</b> 01'39	
	12278 Aug 11 20:37	0° <b>т</b> р		inferior conj	12281 Jan 04 10:55	23° <b>る</b> 37'08	-7°32'04
				minimum elong	12281 Jan 04 20:00	23° <b>る</b> 22'51	7°29'50
superior conj	12278 Aug 14 18:39	3° <b>m</b> 39'13	-0°28'28	min. Earth dist.	12281 Jan 04 19:42	23° <b>る</b> 23'18	0.28918 AU
minimum elong	12278 Aug 15 01:34	4° № 00'52	0°28'35	morning rise	12281 Jan 09 02:25	20° <b>ප්</b> 45'31	
max. Earth dist.	12278 Aug 16 22:53	6° m 22'39	1.71661 AU	direct	12281 Jan 25 20:24	15° <b>පි</b> 22'00	
asc. node	12278 Aug 26 15:29	18° mp 30'06		greatest brilliancy	12281 Feb 05 16:04	17° <b>ට</b> 29'24	-4.8m
uoo. nouo	12278 Sep 04 20:24	0∘ <b>⊽</b>		asc. node	12281 Feb 10 15:03	19° <b>ට</b> 41'34	
evening rise	12278 Sep	o <b>—</b> 22° <b>≏</b> 25'21		ase. Houe	12281 Feb 26 00:50	0°≈	
evening 1150	•	0°M		marning mar1		0 ≈ 16°≈21'07	46000151
	12278 Sep 28 22:33			morning max el	12281 Mar 16 04:55		46°00'51
	12278 Oct 23 04:09	0° <b>∡</b>			12281 Mar 29 12:38	0° <b>)</b> €	
	12278 Nov 16 15:03	0°ප			12281 Apr 25 12:31	0° <b>Υ</b>	
	12278 Dec 11 09:34	0° <b>≈</b>			12281 May 21 00:43	$9^{\circ}$ 8	
desc. node	12278 Dec 16 08:32	5° <b>≈</b> 56'48		desc. node	12281 Jun 02 13:29	15° <b>8</b> 05'52	
	12279 Jan 05 14:12	0° <b>∀</b>			12281 Jun 14 19:12	$\Pi^{\circ}0$	
	12279 Jan 31 08:41	$0^{\circ}\mathbf{\Upsilon}$			12281 Jul 09 03:52	0ංම	
	12279 Feb 27 03:05	0°8			12281 Aug 02 07:41	$0^{\circ}\Omega$	
evening max el	12279 Mar 21 03:34	22° <b>8</b> 57'06	46°20'00		12281 Aug 26 09:56	0° m/	
· · ·	12279 Mar 28 12:05	0°II		morning set	12281 Sep 17 10:54	27° <b>m</b> ) 26'11	
						, _0 11	

_	12281 Sep 19 12:21	0∘ <b>⊽</b>		asc. node	12284 Mar 10 00:48	5° <b>Υ</b> 51'03	
asc. node	12281 Sep 23 05:41	4° <b>£</b> 37'51		inferior conj	12284 Mar 15 22:27	2°Υ18'45	1°28'42
	12281 Oct 13 15:32	0° <b>M</b> .		minimum elong	12284 Mar 15 19:06		1°27'42
				min. Earth dist.	12284 Mar 16 03:58		0.27969 AU
superior conj	12281 Oct 25 16:58	14°M.58'23	1°08'21		12284 Mar 19 16:48	30° <b>₹</b>	
minimum elong	12281 Oct 25 07:14	14°ML28'11	1°08'37	morning rise	12284 Mar 21 23:42	28° <b>)</b> 41′05	
max. Earth dist.	12281 Oct 27 15:27	17°M22'30	1.72650 AU	direct	12284 Apr 06 01:55	24° <b>₩</b> 12'26	
	12281 Nov 06 19:54	0° <b>∡</b> 7		greatest brilliancy	12284 Apr 16 14:42		-4.8m
	12281 Dec 01 02:15	0°₹			12284 Apr 24 07:23	0° <b>Υ</b>	
evening rise	12281 Dec 01 16:21	0°る43'27		morning max el	12284 May 26 07:33	26° <b>Y</b> 35'55	46°44'37
	12281 Dec 25 11:45	0° <b>≈</b>			12284 May 29 16:15	0°B	
desc. node	12282 Jan 12 20:50	22°≈28'11			12284 Jun 26 05:15	0°II	
	12282 Jan 19 01:07	0° <b>∀</b>		desc. node	12284 Jun 30 01:23	4° <b>Ⅱ</b> 23'36	
	12282 Feb 12 18:19	0° <b>Υ</b>			12284 Jul 21 21:39	0°©	
	12282 Mar 09 15:36	0°B			12284 Aug 15 19:49	0°N	
	12282 Apr 03 19:29	0°II			12284 Sep 09 10:06	0° <b>m</b> )	
_	12282 Apr 29 14:06	0°€		_	12284 Oct 03 21:00	0∘ <b>⊽</b>	
asc. node	12282 May 05 18:01	6°958'45		asc. node	12284 Oct 20 19:44	20° <b>⊆</b> 50'50	
	12282 May 26 22:09	0°Ω			12284 Oct 28 06:07	0° <b>M</b> ₊	
evening max el	12282 Jun 02 03:48	6° <b>Ω</b> 22'08	46°47'53		12284 Nov 21 13:57	0° <b>∡</b> ¹	
	12282 Jun 29 07:29	0° <b>m</b> )		morning set	12284 Nov 26 21:06	6° <b>∡</b> ³32′16	
greatest brilliancy	12282 Jul 12 08:53	7° <b>m</b> 01'23	-4.9m		12284 Dec 15 21:08	0°ප	
retrograde	12282 Jul 22 12:02	8° m 57'34					
evening set	12282 Aug 06 16:14	4° m/26'29		superior conj	12285 Jan 02 14:22	21°る52'10	1°15'13
inferior conj	12282 Aug 12 05:48	1° Mp 09'42	3°27'02	minimum elong	12285 Jan 02 22:40	22° <b>3</b> 17'47	
minimum elong	12282 Aug 12 13:24	0° m/58'08		max. Earth dist.	12285 Jan 03 07:41		1.73184 AU
min. Earth dist.	12282 Aug 12 07:45	1° Mp 06'44	0.27034 AU		12285 Jan 09 04:32	0° <b>≈</b> 0° <b>∀</b>	
marning risa	12282 Aug 14 03:42	30°R <b>Ω</b> 27° <b>Ω</b> 32'20		ovenina rice	12285 Feb 02 12:40	0° <b>π</b> 8° <b>∺</b> 08'41	
morning rise desc. node	12282 Aug 18 10:40 12282 Aug 25 19:48	$24^{\circ}\Omega 25'53$		evening rise desc. node	12285 Feb 09 03:21 12285 Feb 09 10:18	8° <b>H</b> 30'04	
direct	12282 Aug 23 19:48 12282 Sep 01 22:42	24° <b>Ω</b> 23′33		desc. node	12285 Feb 26 21:18	0° <b>Υ</b>	
greatest brilliancy	12282 Sep 01 22:42 12282 Sep 11 22:46	25°Ω15'07	-4 8m		12285 Mar 23 05:48	0°8	
greatest orimaney	12282 Sep 21 17:16	0° m)	1.0111		12285 Apr 16 14:20	0°II	
morning max el	12282 Oct 21 14:06	24° Mp 35'46	46°14'20		12285 May 11 00:42	0°©	
morning man er	12282 Oct 27 01:03	0∘ <del>ত</del>	.0 1.20	asc. node	12285 Jun 02 04:40	26°958'21	
	12282 Nov 24 03:58	0°M			12285 Jun 04 16:51	$0^{\circ}\Omega$	
asc. node	12282 Dec 16 19:36	25°M45'50			12285 Jun 29 21:45	0° m/p	
	12282 Dec 20 11:11	0° <b>∡</b> 7			12285 Jul 26 06:11	0∘ <del>⊽</del>	
	12283 Jan 14 21:12	0°ರ		evening max el	12285 Aug 13 09:21	19° <b>≏</b> 06'21	46°36'30
	12283 Feb 08 18:50	0° <b>≈</b>		-	12285 Aug 24 19:19	$0^{\circ}$ M	
	12283 Mar 05 08:49	0° <b>)</b>		greatest brilliancy	12285 Sep 21 10:51	19°ML03'17	-4.8m
	12283 Mar 29 17:30	$0^{\circ}\mathbf{\Upsilon}$		desc. node	12285 Sep 22 05:29	19° <b>M</b> 20'47	
desc. node	12283 Apr 07 12:34	10° <b>Ƴ</b> 53'15		retrograde	12285 Oct 02 12:17	21°ML17'53	
morning set	12283 Apr 19 07:36	25° <b>Ƴ</b> 31'38		evening set	12285 Oct 18 16:56	16°ML13'28	
	12283 Apr 22 21:53	$9^{\circ}$ 8		min. Earth dist.	12285 Oct 22 21:52	13°ML41'08	0.28259 AU
	12283 May 16 22:37	$\Pi$ $\circ 0$		inferior conj	12285 Oct 23 18:59	13°ML08'18	-6°53'42
max. Earth dist.	12283 May 27 05:31	12° <b>Ⅱ</b> 53'11	1.71539 AU	minimum elong	12285 Oct 23 08:44	13°M24'13	6°51'12
				morning rise	12285 Oct 28 01:02	10°MJ33'18	
superior conj	12283 May 29 09:09	15° <b>Ⅱ</b> 35'04		direct	12285 Nov 13 23:29	5°M09'13	
minimum elong	12283 May 29 06:06	15° <b>Ⅱ</b> 25'31	1°27'38	greatest brilliancy	12285 Nov 23 11:18	6°M47'47	-4.8m
	12283 Jun 09 20:53	0°€			12285 Dec 27 07:31	0° <b>∡</b> ¹	
	12283 Jul 03 18:30	$0$ ° $\Omega$		morning max el	12286 Jan 01 19:15	5° <b>⋌</b> ¹09'58	45°42'54
evening rise	12283 Jul 08 15:39	6° <b>Ω</b> 07'19		asc. node	12286 Jan 13 06:53	16° <b>∡</b> ³38′26	
	12283 Jul 27 17:24	0° m/y			12286 Jan 25 21:00	5°0	
asc. node	12283 Jul 29 03:35	1° Mp 46'50			12286 Feb 21 12:27	0° <b>≈</b>	
	12283 Aug 20 19:13	0∘ <b>љ</b>			12286 Mar 18 23:38	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	12283 Sep 14 01:50 12283 Oct 08 16:17	0° <b>M</b> 0° <b>∡</b> 1		desc. node	12286 Apr 12 19:49	0°γ¹ 27° <b>Υ</b> 19'05	
	12283 Oct 08 16:17 12283 Nov 02 19:44	0° <b>ਨ</b>		uesc. Houe	12286 May 05 02:23 12286 May 07 06:32	0° <b>8</b>	
desc. node	12283 Nov 02 19:44 12283 Nov 17 23:08	0°る 17° <b>る</b> 35'44			12286 May 07 06:32 12286 May 31 10:44	0°I	
acsc. Houc	12283 Nov 17 23:08 12283 Nov 28 21:16	0°≈			12286 Jun 24 10:45	0ಂಣ ೧ π	
	12283 Nov 28 21:10 12283 Dec 26 17:25	0° <b>₩</b>		morning set	12286 Jul 03 13:03	11°924'11	
evening max el	12284 Jan 05 22:47	10° <b>∺</b> 09'01	45°53'07	morning sot	12286 Jul 18 08:54	0°Ω	
	12284 Jan 29 06:52	0°Υ			12286 Aug 11 07:11	0° <b>m</b> )	
greatest brilliancy	12284 Feb 13 22:58	8° <b>Υ</b> 31'10	-4.8m			•	
retrograde	12284 Feb 23 21:45	10° <b>Ƴ</b> 19'30		superior conj	12286 Aug 12 07:08	1° <b>m</b> 14'56	-0°32'01
evening set	12284 Mar 09 14:09	6° <b>Ƴ</b> 05'37		minimum elong	12286 Aug 12 14:49	1° Mp 39'00	0°32'10

max. Earth dist.	12286 Aug 14 09:03	3° <b>m</b> )51'13	1.71632 AU	asc. node	12289 Feb 09 17:05	18° <b>る</b> 15'47	
asc. node	12286 Aug 25 17:24	18° m) 03'03	1.71032710	ase. node	12289 Feb 26 09:06	0°≈	
	12286 Sep 04 06:58	0∘ <u>⊽</u>		morning max el	12289 Mar 13 20:58	14° <b>≈</b> 09'38	45°59'41
evening rise	12286 Sep 20 10:51	20° <b>ჲ</b> 08'26		J	12289 Mar 29 06:14	0° <b>∀</b>	
	12286 Sep 28 09:10	$0^{\circ}$ M			12289 Apr 25 02:35	$0^{\circ}$ $\Upsilon$	
	12286 Oct 22 14:53	0° <b>∡</b> 7			12289 May 20 13:19	$9^{\circ}$ 8	
	12286 Nov 16 02:01	0°ප		desc. node	12289 Jun 01 15:23	14° <b>8</b> 34'49	
	12286 Dec 10 20:57	0° <b>≈</b>			12289 Jun 14 07:03	$\Pi$ °0	
desc. node	12286 Dec 15 10:26	5°≈28'00			12289 Jul 08 15:17	0ංම	
	12287 Jan 05 02:24	0° <b>)</b> €			12289 Aug 01 18:48	0°N	
	12287 Jan 30 22:24	0° <b>Υ</b>			12289 Aug 25 20:50	0° Mp	
	12287 Feb 26 19:59	0°8	46919120	morning set	12289 Sep 15 01:03	25° Mp 07′23 0° <u>₽</u>	
evening max el	12287 Mar 18 16:17 12287 Mar 28 15:01	20° <b>8</b> 34'44 0° <b>Ⅱ</b>	46°18'39	asc. node	12289 Sep 18 23:05	0° <b>22</b> 4° <b>2</b> 10'12	
asc. node	12287 Mai 28 13.01 12287 Apr 07 10:14	0 П 8°П20'02		asc. node	12289 Sep 22 07:30 12289 Oct 13 02:10	4 <b>=</b> 1012 0° <b>M</b>	
greatest brilliancy	12287 Apr 07 10.14 12287 Apr 27 21:11	20° <b>I</b> 32'54	-4.8m		12289 Oct 13 02.10	O IIG	
retrograde	12287 May 07 10:41	22° <b>I</b> 16'03	4.0111	superior conj	12289 Oct 23 08:44	12°ML45'29	1°06'12
evening set	12287 May 25 08:59	16° <b>Ⅱ</b> 09'53		minimum elong	12289 Oct 22 22:48	12°ML14'40	1°06'24
inferior conj	12287 May 28 04:41	14° <b>Ⅱ</b> 26′03	9°05'56	max. Earth dist.	12289 Oct 25 08:14	15°ML12'52	1.72622 AU
minimum elong	12287 May 28 01:09	14° <b>Ⅲ</b> 31'32	9°04'57		12289 Nov 06 06:28	0° <b>∡</b> ¹	
min. Earth dist.	12287 May 28 09:28	14° <b>Ⅱ</b> 18'39	0.27416 AU	evening rise	12289 Nov 29 08:52	28° <b>∡</b> ³33'37	
morning rise	12287 May 30 17:16	12° <b>Ⅲ</b> 52'42			12289 Nov 30 12:53	0°ರ	
direct	12287 Jun 17 23:56	6° <b>Ⅲ</b> 30′20			12289 Dec 24 22:33	0° <b>≈</b>	
greatest brilliancy	12287 Jun 27 22:11	8° <b>Ⅲ</b> 21′23	-4.9m	desc. node	12290 Jan 11 22:50	22° <b>≈</b> 00'45	
desc. node	12287 Jul 28 12:04	29° <b>Ⅲ</b> 38′05			12290 Jan 18 12:12	0° <b>∀</b>	
	12287 Jul 28 21:32	0° <b>©</b>			12290 Feb 12 05:50	0° <b>Υ</b>	
morning max el	12287 Aug 07 10:49	9° <b>©</b> 14'36	46°55'06		12290 Mar 09 03:47	0.8	
	12287 Aug 27 02:24	0° <b>Q</b>			12290 Apr 03 08:46	0°Ⅱ	
	12287 Sep 22 13:47	0° <b>m</b> )		1	12290 Apr 29 05:32	0°©	
	12287 Oct 18 02:33	0° <b>Մ</b>		asc. node	12290 May 04 19:54	6° <b>©</b> 18'38 0° <b>Ω</b>	
asc. node	12287 Nov 12 04:20 12287 Nov 18 09:02	บาเเ 7°ML28'24		evening max el	12290 May 26 18:55 12290 May 30 18:09	0 <b>δί</b> 4° <b>Ω</b> 01'27	16017125
asc. node	12287 Dec 06 23:00	0°×7		evening max er	12290 Jun 30 13:36	0°M)	40 47 23
	12287 Dec 31 12:33	0°පි		greatest brilliancy	12290 Jul 09 22:30	-	-4.9m
	12288 Jan 24 22:39	0° <b>≈</b>		retrograde	12290 Jul 20 01:45	6° Mp 33'19	1.7111
morning set	12288 Feb 04 13:34	13° <b>≈</b> 05'03		evening set	12290 Aug 04 07:50	1° mp 58'44	
C	12288 Feb 18 06:36	0° <b>∀</b>		C	12290 Aug 07 17:40	30°R <b>Ω</b>	
desc. node	12288 Mar 09 00:17	24° <b>)</b> 24′06		inferior conj	12290 Aug 09 18:39	28° <b>Ω</b> 45'37	3°49'24
max. Earth dist.	12288 Mar 11 00:55	26° <b>¥</b> 54'38	1.72674 AU	minimum elong	12290 Aug 10 02:56	28° <b>Ω</b> 33'00	3°46'24
				min. Earth dist.	12290 Aug 09 21:17	28° <b>Ω</b> 41'36	0.27027 AU
superior conj	12288 Mar 13 12:25	29° <b>¥</b> 58'53		morning rise	12290 Aug 15 22:12	25° <b>Ω</b> 10′16	
minimum elong	12288 Mar 13 09:52	29° <b>¥</b> 50′58	0°10'42	desc. node	12290 Aug 24 21:53	21° <b>Ω</b> 38′08	
behind sun begin	12288 Mar 12 15:39	28° <b>)</b> 54'33		direct	12290 Aug 30 12:05	20° <b>Ω</b> 59'56	
behind sun end	12288 Mar 14 04:04	0° <b>Υ</b> 47'24		greatest brilliancy	12290 Sep 09 11:25	22° <b>Ω</b> 51′01	-4.8m
	12288 Mar 13 12:46	0° <b>Υ</b>			12290 Sep 22 23:30	0° m/y	4604.5154
	12288 Apr 06 16:56	0°8		morning max el	12290 Oct 19 04:57	22° m 18'49	46°15'51
evening rise	12288 Apr 21 08:36 12288 Apr 30 19:00	18° <b>႘</b> 14'25 0° <b>Ⅱ</b>			12290 Oct 26 21:48 12290 Nov 23 19:16	0° <b>ሥ</b> 0° <b>亚</b>	
	12288 May 24 19:58	0°©		asc. node	12290 Nov 23 19:10 12290 Dec 15 21:39	25°ML13'10	
	12288 Jun 17 21:49	0° <b>U</b>		asc. node	12290 Dec 13 21:39 12290 Dec 20 00:16	25    <b>1</b>  15 10	
asc. node	12288 Jun 29 16:32	14° <b>Ω</b> 36'59			12291 Jan 14 09:11	0°ਤ ਹ ×	
use. Hour	12288 Jul 12 03:19	0° mp			12291 Feb 08 06:14	0° <b>≈</b>	
	12288 Aug 05 15:51	0∘ <u>v</u>			12291 Mar 04 19:53	0° <b>)</b>	
	12288 Aug 30 17:05	0°M			12291 Mar 29 04:24	$0^{\circ}\mathbf{\Upsilon}$	
	12288 Sep 25 19:07	0° <b>∡</b> ¹		desc. node	12291 Apr 06 14:23	10° <b>Y</b> 25′14	
desc. node	12288 Oct 19 14:55	25° <b>∡</b> °21′01		morning set	12291 Apr 16 20:29	23° <b>Y</b> 08'58	
evening max el	12288 Oct 23 08:21	29° <b>∡</b> ¹01'52	46°03'21		12291 Apr 22 08:40	$9^{\circ}$ 8	
	12288 Oct 24 08:17	0°ප			12291 May 16 09:22	$\Pi$ °0	
greatest brilliancy	12288 Dec 01 14:57	27° <b>ප්</b> 52'04	-4.8m	max. Earth dist.	12291 May 24 15:16	10° <b>Ⅱ</b> 19'38	1.71562 AU
retrograde	12288 Dec 11 14:51	29°る41'40		_			
evening set	12288 Dec 29 07:53	23° <b>3</b> 46'56	<b>50.401</b> 00	superior conj	12291 May 26 21:18	13° <b>Ⅱ</b> 08'55	
inferior conj	12289 Jan 02 02:50	21°る26'27		minimum elong	12291 May 26 17:16	12° <b>I</b> 56′18	1°2'/'02
minimum elong	12289 Jan 02 11:31	21°る12'47			12291 Jun 09 07:39	0.ಂ	
min. Earth dist.	12289 Jan 02 10:50 12289 Jan 06 15:03	21°る13'53 18°る39'56	0.28935 AU	avaning rise	12291 Jul 03 05:21	0° <b>Ω</b> 3° <b>Ω</b> 38'44	
morning rise direct	12289 Jan 06 15:03 12289 Jan 23 12:12	13°る39'36		evening rise	12291 Jul 06 03:06 12291 Jul 27 04:21	3° <b>3′2</b> 38′44	
greatest brilliancy	12289 Jan 23 12:12 12289 Feb 03 07:39	15° <b>る</b> 11'08	-4 8m	asc. node	12291 Jul 27 04:21 12291 Jul 28 05:32	1° Mp 18'40	
Siculosi viillalley	12207100 03 07.39	15 010 32	7.0111	asc. 110ac	122/1341 20 03.32	1 IV 10 40	

	12291 Aug 20 06:21	0∘ <b>⊽</b>			12294 Mar 18 12:01	0° <b>)</b> €	
	12291 Sep 13 13:15	0° <b>m</b> .			12294 Apr 12 07:33	0° <b>Υ</b>	
	12291 Oct 08 04:12	0° <b>∡</b> 7		desc. node	12294 May 04 04:13	26° <b>Y</b> ′49'30	
	12291 Nov 02 08:37	0°ප			12294 May 06 17:56	0°8	
desc. node	12291 Nov 17 01:06	17° <b>ට</b> 01'54			12294 May 30 21:57	0°II	
	12291 Nov 28 12:04	0° <b>≈</b>			12294 Jun 23 21:50	0° <b>©</b>	
	12291 Dec 26 13:01	0° <b>∀</b>		morning set	12294 Jul 01 00:46	8° <b>©</b> 55'51	
evening max el	12292 Jan 03 14:13	7° <b>¥</b> 56′21	45°52'43	•	12294 Jul 17 19:52	$0^{\circ}\Omega$	
-	12292 Jan 30 05:38	$0^{\circ}\mathbf{\Upsilon}$					
greatest brilliancy	12292 Feb 11 13:56	6° <b>Ƴ</b> 15'50	-4.8m	superior conj	12294 Aug 09 19:53	28° <b>Q</b> 50′33	-0°35'31
retrograde	12292 Feb 21 11:53	8° <b>Ƴ</b> 03'12		minimum elong	12294 Aug 10 04:17	29° <b>Ω</b> 16′52	0°35'39
evening set	12292 Mar 07 05:04	3° <b>Ƴ</b> 49'17			12294 Aug 10 18:04	0° <b>m</b> )	
asc. node	12292 Mar 09 02:46	2° <b>Y</b> 44'50		max. Earth dist.	12294 Aug 11 17:46	1° <b>m</b> ) 14'13	1.71599 AU
inferior conj	12292 Mar 13 13:13	0° <b>Υ</b> 02'14	1°06'44	asc. node	12294 Aug 24 19:12	17° <b>m</b> 34'43	
minimum elong	12292 Mar 13 10:41	0° <b>Ƴ</b> 06'11	1°06'02		12294 Sep 03 17:49	0∘ <b>ত</b>	
	12292 Mar 13 14:39	30° <b>₹</b> ₩		evening rise	12294 Sep 18 01:46	17° <b>≏</b> 51'42	
min. Earth dist.	12292 Mar 13 19:24	29° <b>∺</b> 52'35	0.27995 AU		12294 Sep 27 20:03	0° <b>M</b> ₊	
morning rise	12292 Mar 19 15:57	26° <b>)</b> 22′09			12294 Oct 22 01:55	0° <b>∡</b> ¹	
direct	12292 Apr 03 17:09	21° <b>)</b> 55'42			12294 Nov 15 13:18	0°ප	
greatest brilliancy	12292 Apr 14 06:23	24° <b>)</b> € 00′27	-4.8m		12294 Dec 10 08:45	0° <b>≈</b>	
	12292 Apr 25 15:04	$0$ ° $\mathbf{\gamma}$		desc. node	12294 Dec 14 12:24	4° <b>≈</b> 58'15	
morning max el	12292 May 23 21:29	24° <b>Ƴ</b> 15′28	46°43'25		12295 Jan 04 15:05	0° <b>∀</b>	
	12292 May 29 12:47	$0^{\circ}S$			12295 Jan 30 12:42	$0^{\circ}$ Y	
	12292 Jun 25 20:38	$\Pi$ $^{\circ}0$			12295 Feb 26 13:44	$0^{\circ}S$	
desc. node	12292 Jun 29 03:26	3° <b>Ⅱ</b> 46′19		evening max el	12295 Mar 16 05:08	18° <b>8</b> 11'41	46°17'27
	12292 Jul 21 11:03	0ಂತ			12295 Mar 28 20:18	$\Pi$ °0	
	12292 Aug 15 08:11	$0 ^{\circ} \Omega$		asc. node	12295 Apr 06 12:11	7° <b>Ⅱ</b> 08'36	
	12292 Sep 08 21:50	0° <b>m</b> )		greatest brilliancy	12295 Apr 25 09:48	18° <b>Ⅱ</b> 08'43	-4.8m
	12292 Oct 03 08:19	0∘ <b>⊽</b>		retrograde	12295 May 04 23:46	19° <b>Ⅱ</b> 52'39	
asc. node	12292 Oct 19 21:32	20° <b>£</b> 22'12		evening set	12295 May 22 18:58	13° <b>Ⅱ</b> 50'45	
	12292 Oct 27 17:08	0°M₊		inferior conj	12295 May 25 18:01	12° <b>Ⅲ</b> 02'04	9°01'37
	12292 Nov 21 00:47	0° <b>∡</b>		minimum elong	12295 May 25 13:33	12° <b>Ⅱ</b> 08'58	9°00'31
morning set	12292 Nov 24 13:40	4° <b>∡</b> ¹21'58		min. Earth dist.	12295 May 25 22:21	11° <b>Ⅱ</b> 55'22	0.27436 AU
	12292 Dec 15 07:52	0°₹		morning rise	12295 May 28 08:05	10° <b>Ⅲ</b> 26'35	
				direct	12295 Jun 15 13:10	4° <b>Ⅱ</b> 05'38	
superior conj	12292 Dec 31 07:15	19° <b>ප්</b> 43'11		greatest brilliancy	12295 Jun 25 12:09	5° <b>Ⅱ</b> 57'33	-4.9m
minimum elong	12292 Dec 31 15:08	20°る07'29		desc. node	12295 Jul 27 14:01	28° <b>Ⅲ</b> 38'48	
max. Earth dist.	12293 Jan 01 01:32	20° <b>る</b> 39'35	1.73179 AU		12295 Jul 29 00:26	0° <b>©</b>	
	12293 Jan 08 15:15	0° <b>≈</b>		morning max el	12295 Aug 05 00:54	6°951'59	46°55'58
	12293 Feb 01 23:28	0° <b>\</b>			12295 Aug 26 19:50	0° <b>N</b>	
evening rise	12293 Feb 06 19:06	5° <b>¥</b> 55'57 8° <b>¥</b> 02'22			12295 Sep 22 04:07	0° <b>m</b> )	
desc. node	12293 Feb 08 12:09	8°π02'22 0°Υ			12295 Oct 17 15:21	0∘ <b>m</b>	
	12293 Feb 26 08:17	0°8			12295 Nov 11 16:13 12295 Nov 17 11:04	0°ጤ 6°ጤ59'08	
	12293 Mar 22 17:03 12293 Apr 16 01:57	0°II		asc. node	12295 Nov 17 11:04 12295 Dec 06 10:21	0° <b>⊼</b> ¹	
	12293 Apr 10 01:57 12293 May 10 12:50	0°ಅ			12295 Dec 30 23:34	% ਨ°0	
asc. node	12293 Jun 01 06:40	26° <b>©</b> 25'48			12296 Jan 24 09:31	0°≈	
asc. node	12293 Jun 04 05:45	20 <b>3</b> 23 48		morning set	12296 Feb 02 06:17	0 ∞ 10°≈55'14	
	12293 Jun 29 12:06	0° <b>m</b> )		morning set	12296 Feb 17 17:24	0° <b>∀</b>	
	12293 Jul 25 23:43	0∘ <mark>ಹ</mark>		desc. node	12296 Mar 08 02:04	23° <b>¥</b> 56′04	
evening max el	12293 Aug 10 23:44	0 <b>—</b> 16° <b>≏</b> 46'54	46°37'24	max. Earth dist.	12296 Mar 08 19:58	24° <b>)</b> 51'30	1.72711 AU
evening max er	12293 Aug 25 00:10	0°M	10 37 21	max. Earth dist.	12200 1141 00 10.50	21 /(3130	1.72711710
greatest brilliancy	12293 Nag 23 00:10 12293 Sep 19 02:42	16°M47'58	-4.8m	superior conj	12296 Mar 11 03:02	27° <b>)</b> 41'57	-0°07'23
desc. node	12293 Sep 21 07:20	17°MJ34'32		minimum elong	12296 Mar 11 01:19	27° <b>)</b> €36'38	0°07'10
retrograde	12293 Sep 30 03:03	19°ML01'57		behind sun begin	12296 Mar 10 03:31	26° <b>¥</b> 29'08	
evening set	12293 Oct 16 04:46	14°ML02'51		behind sun end	12296 Mar 11 23:07	28° <b>)</b> (44'09	
min. Earth dist.	12293 Oct 20 13:02	11°ML25'53	0.28207 AU		12296 Mar 12 23:36	0° <b>Υ</b>	
inferior conj	12293 Oct 21 09:59	10°M53'18			12296 Apr 06 03:50	0°8	
minimum elong	12293 Oct 20 23:36	11°ML09'27		evening rise	12296 Apr 18 22:10	15° <b>8</b> 53'02	
morning rise	12293 Oct 25 18:54	8°M14'01		J	12296 Apr 30 06:03	0°Ⅲ	
direct	12293 Nov 11 13:43	2°M55'00			12296 May 24 07:11	0∘ <b>©</b>	
greatest brilliancy	12293 Nov 21 02:00	4°M33'30	-4.8m		12296 Jun 17 09:20	$0^{\circ}\Omega$	
•	12293 Dec 27 08:09	0° <b>∡</b> ¹		asc. node	12296 Jun 28 18:30	14° <b>Ω</b> 06′57	
morning max el	12293 Dec 30 08:44	2° <b>∡</b> 52′29	45°43'11		12296 Jul 11 15:12	0° m)	
asc. node	12294 Jan 12 08:54	15° <b>∡</b> 755'14			12296 Aug 05 04:21	0∘ <b>⊽</b>	
	12294 Jan 25 13:17	ರ°0			12296 Aug 30 06:39	$0^{\circ}$ M	
	12294 Feb 21 02:03	0° <b>≈</b>			12296 Sep 25 10:58	0° <b>∡</b> ¹	

daga mada	12206 Oat 19 16:56	240.724112		marning gat	12200 Apr. 14 00:24	20° <b>Ƴ</b> 46'21	
desc. node	12296 Oct 18 16:56 12296 Oct 20 23:54	24° <b>⋌</b> ³34'12 26° <b>⋌</b> ³49'22	46°04'31	morning set	12299 Apr 14 09:24	0° <b>8</b>	
evening max el	12296 Oct 20 23.34 12296 Oct 24 07:05	20 x・4922	40 04 31		12299 Apr 21 19:29 12299 May 15 20:11	0°II	
greatest brilliancy	12296 Oct 24 07:03 12296 Nov 29 05:08	0 3 25° <b>る</b> 40'09	1 8m	max. Earth dist.	12299 May 13 20:11 12299 May 21 21:38		1.71590 AU
retrograde	12296 Nov 29 03:08 12296 Dec 09 07:19	23 <b>3</b> 40 09 27° <b>る</b> 31'37	-4.0111	max. Earm dist.	12299 Iviay 21 21.36	/ щзз 10	1./1390 AU
evening set	12296 Dec 09 07:19 12296 Dec 27 02:26	21° <b>る</b> 32'34		superior conj	12299 May 24 09:15	10° <b>Ⅱ</b> 42'01	1025/30
inferior conj	12296 Dec 27 02:26 12296 Dec 30 18:56	19° <b>る</b> 15'47	-7°51'28	minimum elong	12299 May 24 04:15	10° <b>I</b> I42'01 10° <b>I</b> I26'22	
minimum elong	12296 Dec 31 03:12	19° <b>る</b> 02'50		minimum clong	12299 Jun 08 18:31	0°95	1 2013
min. Earth dist.	12296 Dec 31 01:41	19° <b>ろ</b> 05'12	0.28953 AU		12299 Jul 02 16:16	0°N	
morning rise	12297 Jan 04 03:53	16°る34'23	0.20/33 /10	evening rise	12299 Jul 03 14:07	1° <b>Ω</b> 08'30	
direct	12297 Jan 21 04:47	11°る00'32		evening rise	12299 Jul 26 15:22	0° m)	
greatest brilliancy	12297 Jan 31 22:51	13°る07'09	-4.8m	asc. node	12299 Jul 27 07:18	0° Mp 49'47	
asc. node	12297 Feb 08 19:02	16° <b>る</b> 52'27	1.0111	use. Houe	12299 Aug 19 17:30	0∘ <b>⊽</b>	
use. Hous	12297 Feb 26 15:11	0°≈			12299 Sep 13 00:41	0° <b>™</b>	
morning max el	12297 Mar 11 13:34	11° <b>≈</b> 58'57	45°58'18		12299 Oct 07 16:10	0° <b>∡</b> 7	
moming man vi	12297 Mar 28 23:43	0° <b>∀</b>	5010		12299 Nov 01 21:32	0°ਰ	
	12297 Apr 24 16:49	0° <b>Υ</b>		desc. node	12299 Nov 16 03:08	16° <b>る</b> 28'18	
	12297 May 20 02:07	0°8		dese. node	12299 Nov 28 02:57	0° <b>≈</b>	
desc. node	12297 May 31 17:27	14° <b>8</b> 03'31			12299 Dec 26 09:02	0° <b>∀</b>	
dese. node	12297 Jun 13 19:05	0°II		evening max el	12300 Jan 01 04:59	5° <b>)</b> 42'42	45°52'29
	12297 Jul 08 02:52	0ංම ව		evening max er	12300 Jan 31 12:29	0°Υ	13 32 29
	12297 Aug 01 06:06	0°N		greatest brilliancy	12300 Feb 09 05:29	4° <b>Υ</b> ′02'29	-4.8m
	12297 Aug 25 07:56	0° m/y		retrograde	12300 Feb 19 02:02	5° <b>Υ</b> 48'45	
morning set	12297 Sep 12 15:13	22° <b>m</b> 48'01		evening set	12300 Mar 05 20:29	1° <b>Υ</b> '34'17	
morning sec	12297 Sep 18 10:01	0° <del>0</del>		evening sec	12300 Mar 08 14:24	30° <b>Ŗ</b> ₩	
asc. node	12297 Sep 21 09:19	ა — 3° <b>ჲ</b> 41'53		asc. node	12300 Mar 09 04:41	29° <b>)</b> 38'29	
use. Hous	12297 Oct 12 12:57	0°M		inferior conj	12300 Mar 12 04:21	27° <b>)</b> 47'35	0°44'54
	12257 000 12 12.07	5 He		minimum elong	12300 Mar 12 02:39	27° <b>)</b> 50'15	0°44'29
superior conj	12297 Oct 21 00:35	10°M32'20	1°03'57	min. Earth dist.	12300 Mar 12 11:22	27°\ 36'36	0.28025 AU
minimum elong	12297 Oct 20 14:31	10°ML01'03	1°04'07	morning rise	12300 Mar 18 08:22	24° <b>)</b> 05'16	
max. Earth dist.	12297 Oct 23 02:25	13°ML07'00	1.72587 AU	direct	12300 Apr 02 08:14	19° <b>)</b> 40'39	
man. Darur alov.	12297 Nov 05 17:11	0° <b>∡</b> 7	1.,200,110	greatest brilliancy	12300 Apr 12 22:51	21° <b>)</b> (46'07	-4.8m
evening rise	12297 Nov 27 01:39	26° <b>∡</b> ¹24'18		8	12300 Apr 27 13:15	0° <b>Υ</b>	
	12297 Nov 29 23:37	0°⋜		morning max el	12300 May 22 10:54	21° <b>Υ</b> ′54'15	46°41'55
	12297 Dec 24 09:26	0° <b>≈</b>		morning man er	12300 May 30 08:29	0°8	.0 .120
desc. node	12298 Jan 11 00:44	21° <b>≈</b> 32'48			12300 Jun 26 11:45	0°II	
	12298 Jan 17 23:23	0° <b>)</b> €		desc. node	12300 Jun 29 05:18	3° <b>I</b> 108'58	
	12298 Feb 11 17:30	0°Υ			12300 Jul 22 00:19	0.2e	
	12298 Mar 08 16:10	0°8			12300 Aug 15 20:27	$0^{\circ}\Omega$	
	12298 Apr 02 22:23	0°II			12300 Sep 09 09:28	0° m)	
	12298 Apr 28 21:27	0ංම _			12300 Oct 03 19:29	0∘ <del>⊽</del>	
asc. node	12298 May 03 21:59	5°937'59		asc. node	12300 Oct 19 23:29	19° <b>≏</b> 54'25	
	12298 May 26 16:42	0°N			12300 Oct 28 04:00	0°M	
evening max el	12298 May 28 08:43	1° <b>Ω</b> 40'41	46°46'56		12300 Nov 21 11:27	0° <b>∡</b> 7	
δ ·	12298 Jul 02 10:12	0° m/y		morning set	12300 Nov 23 06:06	2° <b>х</b> 11'41	
greatest brilliancy	12298 Jul 07 12:23	2° m) 13'18	-4.9m	3	12300 Dec 15 18:26	5°0	
retrograde	12298 Jul 17 15:11	4° Mp 08'19				• •	
<b>3</b>	12298 Aug 01 01:52	30°R <b>Ω</b>		superior conj	12300 Dec 30 00:19	17° <b>る</b> 35'19	1°18'14
evening set	12298 Aug 01 23:35	29° <b>Ω</b> 30'22		minimum elong	12300 Dec 30 07:44	17° <b>る</b> 58'09	1°18'57
inferior conj	12298 Aug 07 07:28	26° <b>Ω</b> 20'57	4°11'25	max. Earth dist.	12300 Dec 30 17:45	18° <b>る</b> 29'06	1.73171 AU
minimum elong	12298 Aug 07 16:22	26° <b>Ω</b> 07'22	4°08'15		12301 Jan 09 01:47	0° <b>≈</b>	
min. Earth dist.	12298 Aug 07 10:48	26° <b>Ω</b> 15'51	0.27020 AU		12301 Feb 02 10:03	0° <b>)</b> €	
morning rise	12298 Aug 13 09:22	22° <b>Ω</b> 47'46		evening rise	12301 Feb 05 11:09	3° <b>)</b> 44′59	
desc. node	12298 Aug 23 23:49	18° <b>Ω</b> 55'35		desc. node	12301 Feb 08 13:57	7° <b>)</b> 35′10	
direct	12298 Aug 28 01:30	18° <b>Ω</b> 35'27			12301 Feb 26 19:00	0° <b>Υ</b>	
greatest brilliancy	12298 Sep 06 23:56	20° <b>£</b> 26′06	-4.8m		12301 Mar 23 04:02	0°8	
5	12298 Sep 23 21:37	0° <b>m</b> )			12301 Apr 16 13:19	0°II	
morning max el	12298 Oct 16 18:57	19° <b>m</b> 59'23	46°17'26		12301 May 11 00:45	0°©	
	12298 Oct 26 17:57	0∘ <b>ರ</b>		asc. node	12301 Jun 01 08:37	25° <b>©</b> 53'28	
	12298 Nov 23 10:23	0° <b>M</b>			12301 Jun 04 18:34	0°Ω	
asc. node	12298 Dec 14 23:33	24°ML40'13			12301 Jun 30 02:29	0° mp	
	12298 Dec 19 13:15	0° <b>∡</b> 7			12301 Jul 26 17:36	0∘ <del>ত</del> ∘ .w	
	12299 Jan 13 21:05	0°ਤ		evening max el	12301 Aug 09 13:14	ა <b>—</b> 14° <b>Ω</b> 25'15	46°38'20
	12299 Feb 07 17:33	0° <b>≈</b>			12301 Aug 26 07:12	0°M	
	12299 Mar 04 06:53	0° <b>₩</b>		greatest brilliancy	12301 Sep 17 18:11	14°M31'48	-4.8m
	12299 Mar 28 15:15	0° <b>Υ</b>		desc. node	12301 Sep 21 09:22	15°M44'03	
desc. node	12299 Apr 05 16:16	9° <b>Υ</b> ′57'28		retrograde	12301 Sep 28 17:43	16°M45'41	
	,p. 00 10.10					110/10/11	

. ,	12201 0 4 14 16 22	110M 51127		1.11.1	1220434 10 16 20	2601/26122	
evening set	12301 Oct 14 16:23	11°M51'27		behind sun end	12304 Mar 10 16:20	26° <b>¥</b> 36′23	
min. Earth dist.	12301 Oct 19 04:00	9° <b>™</b> 10'05			12304 Mar 13 10:06	0° <b>Υ</b>	
inferior conj	12301 Oct 20 00:42	8°M37'56			12304 Apr 06 14:24	0°8	
minimum elong	12301 Oct 19 14:15	8° <b>M</b> 54'11	6°23'06	evening rise	12304 Apr 17 11:54	13° <b>8</b> 33'22	
morning rise	12301 Oct 24 12:32	5° <b>™</b> 54'29			12304 Apr 30 16:42	$\Pi^{\circ}0$	
direct	12301 Nov 10 03:21	0° <b>M</b> 40′15			12304 May 24 18:00	$0$ $\circ$ $\odot$	
greatest brilliancy	12301 Nov 19 16:46	2°M19'23	-4.8m		12304 Jun 17 20:23	$0^{\circ}\Omega$	
	12301 Dec 28 07:21	0° <b>∡</b>		asc. node	12304 Jun 28 20:19	13° <b>Ω</b> 37'54	
morning max el	12301 Dec 28 22:26	0° <b>∡</b> ³36′11	45°43'41		12304 Jul 12 02:39	0° <b>m</b> )	
asc. node	12302 Jan 12 10:47	15° <b>∡</b> 13′00			12304 Aug 05 16:27	0∘ <b>ত</b>	
	12302 Jan 26 04:58	0°రె			12304 Aug 30 19:54	0° <b>M</b>	
	12302 Feb 21 15:12	0° <b>≈</b> ≈			12304 Sep 26 02:44	0° <b>∡</b> ¹	
	12302 Mar 18 23:58	0° <b>₩</b>		desc. node	12304 Oct 18 18:59	23° <b>∡</b> ¹47'19	
	12302 Apr 12 18:52	0° <b>Υ</b>		evening max el	12304 Oct 19 15:56	24° <b>х</b> ⁴38'38	46°05'28
desc. node	12302 May 04 06:12	26° <b>Υ</b> 21'38		evening max er	12304 Oct 25 06:39	0°る	10 03 20
dese. Hode	12302 May 07 04:55	0°8		greatest brilliancy	12304 Nov 27 19:31	23° <b>る</b> 28'40	-4.8m
	12302 May 31 08:45	0°II		retrograde	12304 Dec 07 23:34	25° <b>る</b> 21'22	-4.0111
	•	0°©		•		19°る18'29	
	12302 Jun 24 08:32			evening set	12304 Dec 25 20:42		0000100
morning set	12302 Jun 29 12:30	6°\$28'37		inferior conj	12304 Dec 29 10:47	17°る05'10	
	12302 Jul 18 06:30	$0$ $^{\circ}$ $\Omega$		minimum elong	12304 Dec 29 18:34	16° <b>る</b> 52'57	
				min. Earth dist.	12304 Dec 29 16:09	16° <b>る</b> 56'44	0.28965 AU
superior conj	12302 Aug 08 08:18	26° <b>Ω</b> 25'52	-0°38'58	morning rise	12305 Jan 02 16:27	14° <b>る</b> 28'45	
minimum elong	12302 Aug 08 17:22	26° <b>Ω</b> 54'15	0°39'07	direct	12305 Jan 19 21:18	8° <b>る</b> 50'15	
max. Earth dist.	12302 Aug 10 01:15	28° <b>Ω</b> 34'07	1.71577 AU	greatest brilliancy	12305 Jan 30 13:11	10° <b>る</b> 55'13	-4.8m
	12302 Aug 11 04:41	0° <b>m</b> )		asc. node	12305 Feb 08 21:01	15° <b>る</b> 32'21	
asc. node	12302 Aug 24 21:03	17° <b>m</b> 07'17			12305 Feb 27 18:56	0° <b>≈</b>	
	12302 Sep 04 04:26	0∘ <b>⊽</b>		morning max el	12305 Mar 10 05:33	9° <b>≈</b> 47'41	45°56'58
evening rise	12302 Sep 16 16:08	15° <b>≏</b> 33'58			12305 Mar 29 16:28	0° <b>₩</b>	
Č	12302 Sep 28 06:43	0°M₊			12305 Apr 25 06:31	0° <b>Υ</b>	
	12302 Oct 22 12:41	0° <b>⊼</b>			12305 May 20 14:27	0°8	
	12302 Nov 16 00:21	0°ਤ		desc. node	12305 May 31 19:12	13° <b>8</b> 32'34	
	12302 Dec 10 20:18	0°≈		desc. node	12305 Jun 14 06:41	0°Ⅱ	
desc. node		0 ≈ 4°≈29'03				0°©	
desc. node	12302 Dec 14 14:18				12305 Jul 08 14:01		
	12303 Jan 05 03:33	0° <b>)</b> €			12305 Aug 01 16:57	0° <b>Q</b>	
	12303 Jan 31 02:50	0° <b>Υ</b>			12305 Aug 25 18:34	0° <b>m</b>	
	12303 Feb 27 07:28	0° <b>8</b>		morning set	12305 Sep 11 05:41	20° m/30'50	
evening max el	12303 Mar 14 18:57	15° <b>8</b> 52'35	46°16'28		12305 Sep 18 20:31	0∘ <b>ಹ</b>	
	12303 Mar 30 03:04	$\Pi$ °0		asc. node	12305 Sep 21 11:15	3° <b>≏</b> 15'17	
asc. node	12303 Apr 06 14:19	5° <b>Ⅱ</b> 57'02			12305 Oct 12 23:22	0° <b>M</b> ₊	
greatest brilliancy	12303 Apr 23 22:04	15° <b>Ⅱ</b> 46'11	-4.8m				
retrograde	12303 May 03 13:35	17° <b>Ⅲ</b> 31′27		superior conj	12305 Oct 19 16:24	8° <b>M</b> 20′06	1°01'35
evening set	12303 May 21 04:49	11° <b>Ⅲ</b> 34'17		minimum elong	12305 Oct 19 06:17	7° <b>M</b> 48'40	1°01'43
inferior conj	12303 May 24 07:32	9° <b>Ⅱ</b> 40'14	8°56'16	max. Earth dist.	12305 Oct 21 21:20	11° <b>M</b> 04'25	1.72558 AU
minimum elong	12303 May 24 02:14	9° <b>Ⅱ</b> 48'25	8°55'03		12305 Nov 06 03:35	0° <b>∡</b> ¹	
min. Earth dist.	12303 May 24 11:01	9°Ⅱ34'50	0.27454 AU	evening rise	12305 Nov 25 18:11	24° <b>∡</b> °14′56	
morning rise	12303 May 26 23:34	8° <b>Ⅲ</b> 01'56		Ü	12305 Nov 30 10:05	0°ಕ	
direct	12303 Jun 14 03:07	1° <b>Ⅱ</b> 43'21			12305 Dec 24 20:05	0° <b>≈</b>	
greatest brilliancy	12303 Jun 24 01:35	3° <b>П</b> 35'18	-4.9m	desc. node	12306 Jan 11 02:30	21°≈05'10	
desc. node	12303 Jul 27 15:58	27° <b>I</b> I42'25	1.7111	desc. node	12306 Jan 18 10:20	0° <b>)</b> €	
desc. node	12303 Jul 30 01:14	0°95			12306 Feb 12 04:56	0°Υ	
			46956127				
morning max el	12303 Aug 03 15:41	4° <b>©</b> 32'49	46°56'27		12306 Mar 09 04:22	0° <b>∀</b>	
	12303 Aug 27 12:27	$0^{\circ}\Omega$			12306 Apr 03 11:50	0°II	
	12303 Sep 22 17:57	0° <b>m</b> )			12306 Apr 29 13:21	$0$ $\circ$	
	12303 Oct 18 03:47	0∘ <b>⊽</b>		asc. node	12306 May 03 23:55	4° <b>©</b> 57'23	
	12303 Nov 12 03:49	0° <b>M</b>		evening max el	12306 May 26 22:49	29° <b>©</b> 19'35	46°46'24
asc. node	12303 Nov 17 12:57	6° <b>M</b> ₊30'14			12306 May 27 15:00	$0$ $^{\circ}$ $\Omega$	
	12303 Dec 06 21:23	0°₺		greatest brilliancy	12306 Jul 06 02:57	29° <b>Ω</b> 51'11	-4.9m
	12303 Dec 31 10:16	0°ರ			12306 Jul 06 12:56	0° <b>m</b> ∕	
	12304 Jan 24 20:01	0° <b>≈</b>		retrograde	12306 Jul 16 04:18	1° <b>M</b> 44'34	
morning set	12304 Jan 31 22:50	8° <b>≈</b> 46′03			12306 Jul 25 10:27	30°R <b>Ω</b>	
-	12304 Feb 18 03:51	0° <b>∀</b>		evening set	12306 Jul 31 15:35	27° <b>Ω</b> 03'16	
max. Earth dist.	12304 Mar 07 14:49	22° <b>)</b> 48'52	1.72742 AU	inferior conj	12306 Aug 05 20:24	23° <b>Ω</b> 57'46	4°32'50
desc. node	12304 Mar 08 03:58	23° <del>)(</del> 29'32		minimum elong	12306 Aug 06 05:51	23°Ω43'19	4°29'33
good. House	1230 1 14101 00 03.30	20 1(2) 32		min. Earth dist.	12306 Aug 06 00:38	$23^{\circ}\Omega^{43}^{19}$ $23^{\circ}\Omega^{51'}18$	0.27010 AU
superior conj	12304 Mar 09 17:38	25° <b>∺</b> 26'07	-0°03'50	morning rise	12306 Aug 11 20:20	20°Ω26'55	5.27010 AU
				•	•		
minimum elong	12304 Mar 09 16:45	25° <del>X</del> 23'24	0 03 38	desc. node	12306 Aug 24 01:49	16° <b>Ω</b> 20'12	
behind sun begin	12304 Mar 08 17:11	24° <b>∺</b> 10′27		direct	12306 Aug 26 14:30	16° <b>Ω</b> 12'30	

greatest brilliancy	12306 Sep 05 12:46	18° <b>Ω</b> 02'50	-4.8m		12309 Mar 22 15:10	0°8	
	12306 Sep 25 13:21	0° <b>m</b> )			12309 Apr 16 00:51	0°II	
morning max el	12306 Oct 15 08:00	17° <b>m</b> ) 38'41	46°18'58		12309 May 10 12:51	0°9	
	12306 Oct 27 13:00	0∘ <b>⊽</b>		asc. node	12309 May 31 10:28	25°\$20'26	
	12306 Nov 24 00:55	0°M,			12309 Jun 04 07:34	0° <b>N</b>	
asc. node	12306 Dec 15 01:24	24°ML08'03			12309 Jun 29 17:08	0° my	
	12306 Dec 20 01:53	0° <b>∡</b> 7			12309 Jul 26 12:02	0° <b>⊽</b>	4.602.012.1
	12307 Jan 14 08:45	5°0		evening max el	12309 Aug 07 02:58	12° <b>£</b> 03'55	46°39'21
	12307 Feb 08 04:41	0° <b>≈</b>		1 '11'	12309 Aug 26 17:01	0°M	4.0
	12307 Mar 04 17:44	0° <b>)</b> €		greatest brilliancy	12309 Sep 15 09:15	12°M14'48	-4.8m
	12307 Mar 29 01:56	0° <b>Υ</b>		desc. node	12309 Sep 20 11:28	13°M49'04	
desc. node	12307 Apr 05 18:09	9° <b>Y</b> 30'18		retrograde	12309 Sep 26 08:50	14°M29'19	
morning set	12307 Apr 12 22:08	18° <b>Y</b> 23'49		evening set	12309 Oct 12 04:08	9°M39'28	0.00004.4**
	12307 Apr 22 06:06	0° <b>B</b>		min. Earth dist.	12309 Oct 16 18:46	6°M54'17	0.28094 AU
P 4 F	12307 May 16 06:48	0°II	1 51 (01 17)	inferior conj	12309 Oct 17 15:27	6°M22'16	
max. Earth dist.	12307 May 20 03:27	4° <b>Ⅱ</b> 49'55	1.71621 AU	minimum elong	12309 Oct 17 04:58	6°M38'30	6°07'57
				morning rise	12309 Oct 22 06:14	3°M34'54	
superior conj	12307 May 22 21:10	8° <b>Ⅱ</b> 15'42			12309 Oct 29 18:57	30° <b>₹</b> Ω	
minimum elong	12307 May 22 15:15	7° <b>Ⅱ</b> 57'09	1°25'19	direct	12309 Nov 07 17:10	28° <b>≏</b> 25'09	
	12307 Jun 09 05:11	0ංම			12309 Nov 17 01:16	0° <b>M</b> ₊	
evening rise	12307 Jul 02 01:08	28° <b>©</b> 38'51		greatest brilliancy	12309 Nov 17 07:17	0° <b>M</b> ∙04'57	
	12307 Jul 03 03:01	$0 {\circ} \Omega$		morning max el	12309 Dec 26 12:59	28°M21'51	45°44'17
asc. node	12307 Jul 27 09:13	0° <b>m</b> ,21′57			12309 Dec 28 05:35	0° <b>∡</b>	
	12307 Jul 27 02:11	0° <b>m</b> )		asc. node	12310 Jan 11 12:49	14° <b>∡</b> ³31'35	
	12307 Aug 20 04:27	0∘ <b>⊽</b>			12310 Jan 25 20:27	0° <b>ろ</b>	
	12307 Sep 13 11:55	0°M₊			12310 Feb 21 04:21	0° <b>≈</b>	
	12307 Oct 08 03:55	0° <b>∡</b> 7			12310 Mar 18 12:03	0° <b>ℋ</b>	
	12307 Nov 02 10:18	0°ಕ			12310 Apr 12 06:25	$0^{\circ}$ Y	
desc. node	12307 Nov 16 04:59	15° <b>る</b> 54'32		desc. node	12310 May 03 08:01	25° <b>Ƴ</b> 52'21	
	12307 Nov 28 17:51	0° <b>≈</b>			12310 May 06 16:11	$9^{\circ}$ 8	
	12307 Dec 27 05:38	0° <b>∀</b>			12310 May 30 19:50	$\Pi^{\circ}0$	
evening max el	12307 Dec 30 18:53	3° <b>¥</b> 27′10	45°52'05		12310 Jun 23 19:29	0°€	
	12308 Feb 03 10:27	$0$ ° $\Upsilon$		morning set	12310 Jun 26 23:57	3° <b>©</b> 59'41	
greatest brilliancy	12308 Feb 07 20:50	1° <b>Y</b> 48'32	-4.8m		12310 Jul 17 17:22	$0$ $^{\circ}$ $\Omega$	
retrograde	12308 Feb 17 16:04	3° <b>Y</b> 34'01					
	12308 Mar 02 04:05	30° <b>₹</b> ₩		superior conj	12310 Aug 05 20:30	23° <b>Ω</b> 59'41	-0°42'21
evening set	12308 Mar 03 11:51	29° <b>升</b> 18′22		minimum elong	12310 Aug 06 06:10	24° <b>Ω</b> 30′01	0°42'31
asc. node	12308 Mar 08 06:48	26° <b>∺</b> 29′23		max. Earth dist.	12310 Aug 07 10:43	25° <b>Ω</b> 59'28	1.71555 AU
inferior conj	12308 Mar 09 19:18	25° <b>)</b> 32′28			12310 Aug 10 15:31	0° <b>m</b> )	
minimum elong	12308 Mar 09 18:26	25° <b>∺</b> 33'50		asc. node	12310 Aug 23 22:59	16° Mp 39′25	
min. Earth dist.	12308 Mar 10 03:19	25° <b>¥</b> 19'56	0.28058 AU		12310 Sep 03 15:17	0∘ <b>ಹ</b>	
morning rise	12308 Mar 16 00:27	21° <b>¥</b> 48'19		evening rise	12310 Sep 14 06:30	13° <b>≏</b> 15'31	
direct	12308 Mar 30 22:52	17° <b>)</b> 24′55			12310 Sep 27 17:37	0° <b>M</b> ₊	
greatest brilliancy	12308 Apr 10 15:33	19° <b>)</b> 31′48	-4.8m		12310 Oct 21 23:43	0° <b>∡</b> ¹	
	12308 Apr 28 05:43	$0$ ° $\Upsilon$			12310 Nov 15 11:38	0°₹	
morning max el	12308 May 20 00:30	19° <b>Ƴ</b> 33'30	46°40'36		12310 Dec 10 08:06	0° <b>≈</b>	
	12308 May 30 03:37	$9^{\circ}$ 8		desc. node	12310 Dec 13 16:12	3° <b>≈</b> 59'14	
	12308 Jun 26 02:37	$\Pi$ $\circ 0$			12311 Jan 04 16:17	0° <b>ℋ</b>	
desc. node	12308 Jun 28 07:16	2° <b>Ⅱ</b> 32'17			12311 Jan 30 17:20	$0^{\circ}$ Y	
	12308 Jul 21 13:25	0ං <b>ව</b>			12311 Feb 27 01:58	$9^{\circ}$ 8	
	12308 Aug 15 08:36	$0 {\circ} \Omega$		evening max el	12311 Mar 12 09:34	13° <b>8</b> 34'38	46°15'11
	12308 Sep 08 21:00	0° <b>m</b> )			12311 Mar 30 13:05	$\Pi$ $\circ 0$	
	12308 Oct 03 06:34	0∘ <b>⊽</b>		asc. node	12311 Apr 05 16:13	4° <b>Ⅱ</b> 41'30	
asc. node	12308 Oct 19 01:20	19° <b>≙</b> 26'35		greatest brilliancy	12311 Apr 21 09:59	13° <b>Ⅲ</b> 21′50	-4.8m
	12308 Oct 27 14:46	0° <b>M</b>		retrograde	12311 May 01 03:21	15° <b>Ⅱ</b> 08'15	
morning set	12308 Nov 20 22:44	0° <b>∡</b> 102'11		evening set	12311 May 18 14:10	9° <b>Ⅱ</b> 16'31	
	12308 Nov 20 22:02	0° <b>∡</b> ¹		inferior conj	12311 May 21 20:50	7° <b>Ⅱ</b> 16′26	8°49'50
	12308 Dec 15 04:55	5°0		minimum elong	12311 May 21 14:43	7° <b>Ⅱ</b> 25'53	8°48'31
				min. Earth dist.	12311 May 21 23:23	7° <b>Ⅱ</b> 12'29	0.27473 AU
superior conj	12308 Dec 27 17:34	15° <b>පි</b> 28'05	1°19'32	morning rise	12311 May 24 15:13	5° <b>Ⅱ</b> 34'37	
minimum elong	12308 Dec 28 00:27	15° <b>පි</b> 49'21	1°20'18		12311 Jun 05 23:41	30° <b>₹</b> 8	
max. Earth dist.	12308 Dec 28 11:07	16° <b>පි</b> 22'15	1.73170 AU	direct	12311 Jun 11 17:13	29° <b>8</b> 19'17	
	12309 Jan 08 12:17	0° <b>≈</b>			12311 Jun 17 14:26	$\Pi$ °0	
		0.0 M		greatest brilliancy	12311 Jun 21 14:29	1° <b>Ⅱ</b> 10′34	-4 9m
	12309 Feb 01 20:41	0° <b>∀</b>		greatest billiancy	12311 Juli 21 14.2)		1.7111
evening rise	12309 Feb 01 20:41 12309 Feb 03 03:16	1° <b>∺</b> 34'08		desc. node	12311 Jul 26 18:02	26° <b>Ⅱ</b> 46'00	1.5111
evening rise desc. node							1.711
•	12309 Feb 03 03:16	1° <b>¥</b> 34′08			12311 Jul 26 18:02	26° <b>Ⅱ</b> 46′00	

	12311 Aug 27 05:13	$0^{\circ}\Omega$			12314 Apr 03 01:43	0° <b>I</b> I	
	12311 Aug 27 03:13 12311 Sep 22 08:01	0° <b>m</b> )			12314 Apr 03 01:43 12314 Apr 29 05:50	0°©	
	12311 Sep 22 08:01 12311 Oct 17 16:29	0∘ <del>ت</del> الأال		asc. node	12314 Apr 29 03:30 12314 May 03 01:51	4°9315′20	
	12311 Oct 17 10:29 12311 Nov 11 15:41	0 <u></u> 0°M		evening max el	12314 May 24 11:44	26°954'33	46°45'36
asc. node	12311 Nov 16 14:44	6°M00'08		evening max er	12314 May 27 14:42	0°Ω	40 43 30
ase. node	12311 Dec 06 08:43	0° <b>∡</b> 7		greatest brilliancy	12314 Jul 03 17:48	27° <b>Ω</b> 27'50	-4.9m
	12311 Dec 30 21:15	°ੁੱਠ		retrograde	12314 Jul 13 16:48	29° <b>Ω</b> 19'09	1.7111
	12312 Jan 24 06:49	0° <b>≈</b>		evening set	12314 Jul 29 07:34	24° <b>Ω</b> 34'06	
morning set	12312 Jan 29 15:54	6° <b>≈</b> 37'32		inferior conj	12314 Aug 03 09:15	21° <b>Ω</b> 32'54	4°53'45
8-11	12312 Feb 17 14:36	0° <b>)</b> €		minimum elong	12314 Aug 03 19:11	21° <b>Ω</b> 17'41	4°50'23
max. Earth dist.	12312 Mar 05 09:39	20° <b>)</b> 45′20	1.72774 AU	min. Earth dist.	12314 Aug 03 14:42	21° <b>Ω</b> 24'33	0.27009 AU
				morning rise	12314 Aug 09 06:56	18° <b>Ω</b> 04'35	
superior conj	12312 Mar 07 08:43	23° <b>¥</b> 10′55	-0°00'18	desc. node	12314 Aug 23 03:52	13° <b>Ω</b> 48'32	
minimum elong	12312 Mar 07 08:42	23° <b>¥</b> 10′52	0°00'06	direct	12314 Aug 24 02:54	13° <b>Ω</b> 47'26	
behind sun begin	12312 Mar 06 09:08	21° <b>¥</b> 57'56		greatest brilliancy	12314 Sep 03 02:13	15° <b>Ω</b> 38'14	-4.8m
behind sun end	12312 Mar 08 08:16	24° <b>)</b> €23'48			12314 Sep 26 01:55	0° <b>m</b> )	
desc. node	12312 Mar 07 05:52	23° <b>∺</b> 02'04		morning max el	12314 Oct 12 20:35	15° <b>m</b> ) 14'50	46°20'38
	12312 Mar 12 20:53	$0^{\circ}$ Y			12314 Oct 27 08:08	0∘ <b>⊽</b>	
	12312 Apr 06 01:17	$0^{\circ}$ 8			12314 Nov 23 15:45	$0^{\circ}$ M	
evening rise	12312 Apr 15 01:54	11° <b>8</b> 13'30		asc. node	12314 Dec 14 03:27	23°M35'21	
	12312 Apr 30 03:45	$\Pi$ °0			12314 Dec 19 14:50	0° <b>∡</b> ¹	
	12312 May 24 05:16	$0$ $\circ$ $\odot$			12315 Jan 13 20:43	0°₹	
	12312 Jun 17 07:57	$0^{\circ}\Omega$			12315 Feb 07 16:07	0° <b>≈</b>	
asc. node	12312 Jun 27 22:16	13° <b>Ω</b> 07'40			12315 Mar 04 04:51	0° <b>∀</b>	
	12312 Jul 11 14:38	0° <b>m</b>			12315 Mar 28 12:54	$0^{\circ}$ $\Upsilon$	
	12312 Aug 05 05:06	0∘ <b>⊽</b>		desc. node	12315 Apr 04 19:57	9° <b>Ƴ</b> 01'56	
	12312 Aug 30 09:45	$0^{\circ}$ M		morning set	12315 Apr 10 11:25	16° <b>Y</b> ′02'06	
	12312 Sep 25 19:15	0° <b>∡</b> ¹			12315 Apr 21 16:59	0°B	
evening max el	12312 Oct 17 07:56	22° <b>∡</b> ¹26'30	46°06'32		12315 May 15 17:41	0°II	
desc. node	12312 Oct 17 20:52	22° <b>₹</b> ′58′02		max. Earth dist.	12315 May 17 12:00	2° <b>Ⅱ</b> 12'25	1.71653 AU
	12312 Oct 25 07:55	0°る					
greatest brilliancy	12312 Nov 25 10:44	21° <b>る</b> 17'17	-4.8m	superior conj	12315 May 20 09:40	5°II50'30	
retrograde	12312 Dec 05 15:39	23°る10'20		minimum elong	12315 May 20 02:54	5° <b>Ⅱ</b> 29'18	1°24'13
evening set	12312 Dec 23 15:01	17°る04'11	0000107		12315 Jun 08 16:06	0.20	
inferior conj	12312 Dec 27 02:49	14°る54'01		evening rise	12315 Jun 29 12:36	26°909'53	
minimum elong min. Earth dist.	12312 Dec 27 10:04 12312 Dec 27 06:58	14°る42'38 14°る47'31	8°06'26 0.28970 AU	asc. node	12315 Jul 02 14:00 12315 Jul 26 11:10	0° <b>Ω</b> 29° <b>Ω</b> 53'22	
morning rise	12312 Dec 27 00:38 12312 Dec 31 05:10	14 04/31 12°る22'25	0.28970 AU	asc. node	12315 Jul 26 13:17	0° m)	
direct	12312 Dec 31 03:10 12313 Jan 17 13:47	6° <b>る</b> 39'35			12315 Aug 19 15:45	0∘ <del>ত</del> اللا	
greatest brilliancy	12313 Jan 28 03:31	8° <b>る</b> 42'30	-4.7m		12315 Aug 17 13:43 12315 Sep 12 23:33	0° <b>™</b>	
asc. node	12313 Feb 07 23:04	14° <b>る</b> 14'01	7.7111		12315 Oct 07 16:08	0° <b>⊼</b> ⊓	
use. Houe	12313 Feb 27 21:24	0° <b>≈</b>			12315 Nov 01 23:35	0°ਰ	
morning max el	12313 Mar 07 20:52	7° <b>≈</b> 34'00	45°55'44	desc. node	12315 Nov 15 06:59	ා ජ 15° <b>ජ</b> 19'51	
	12313 Mar 29 09:12	0° <b>)</b> €			12315 Nov 28 09:22	0°≈	
	12313 Apr 24 20:24	0° <b>Υ</b>			12315 Dec 27 03:21	0° <b>)</b> €	
	12313 May 20 03:05	0° <b>႘</b>		evening max el	12315 Dec 28 08:40	1° <b>¥</b> 10′39	45°52'00
desc. node	12313 May 30 21:08	13° <b>8</b> 01'05		greatest brilliancy	12316 Feb 05 11:55	29° <b>∺</b> 33'56	-4.8m
	12313 Jun 13 18:38	$\Pi^{\circ}$			12316 Feb 06 20:08	$0^{\circ}$ Y	
	12313 Jul 08 01:36	$0$ $\circ$ $\odot$		retrograde	12316 Feb 15 06:40	1° <b>Y</b> 19'20	
	12313 Aug 01 04:18	$0^{\circ}\Omega$			12316 Feb 23 09:52	30° <b>₹</b> ₩	
	12313 Aug 25 05:44	0° <b>m</b>		evening set	12316 Mar 01 03:32	27° <b>₩</b> 01'58	
morning set	12313 Sep 08 19:39	18° <b>m</b> 10'30		inferior conj	12316 Mar 07 10:24	23° <b>)</b> 17′11	0°01'02
	12313 Sep 18 07:30	0∘ <b>亚</b>		minimum elong	12316 Mar 07 10:21	23° <b>¥</b> 17'15	0°01'13
asc. node	12313 Sep 20 13:04	2° <b>≏</b> 46'45		transit middle	12316 Mar 07 10:21	23° <b>¥</b> 17'15	0°01'13
	12313 Oct 12 10:13	$0^{\circ}$ M.		transit begin	12316 Mar 07 06:19	23° <b>∺</b> 23'34	
				transit end	12316 Mar 07 14:24	23° <b>¥</b> 10′57	
superior conj	12313 Oct 17 07:51	6°M₀05′21	0°59'07	asc. node	12316 Mar 07 08:45	23° <b>¥</b> 19'46	
minimum elong	12313 Oct 16 21:44	5°M33′56	0°59'11	min. Earth dist.	12316 Mar 07 19:15	23° <b>₭</b> 03'22	0.28091 AU
max. Earth dist.	12313 Oct 19 15:09	8° <b>M</b> 57'04	1.72521 AU	morning rise	12316 Mar 13 16:33	19° <b>)</b> (31'41	
	12313 Nov 05 14:24	0° <b>√</b> ¹		direct	12316 Mar 28 13:46	15° <b>)</b> €08'54	4.0
evening rise	12313 Nov 23 10:35	22° <b>尽</b> 03'52		greatest brilliancy	12316 Apr 08 08:21	17° <b>)</b> 17′29	-4.8m
	12313 Nov 29 20:58	0°る			12316 Apr 28 18:08	0°Υ 170W15124	4.000.0100
4 1	12313 Dec 24 07:09	0°≈ 20°≈ ≈27!05		morning max el	12316 May 17 15:21	17° <b>Y</b> 15'34	46°39'23
desc. node	12314 Jan 10 04:31	20°≈37'05			12316 May 29 22:22	0° <b>Β</b>	
	12314 Jan 17 21:42	0° <b>ℋ</b> 0° <b>Ƴ</b>		daga = - 1-	12316 Jun 25 17:24	0°Ⅱ 1°Ⅱ55'45	
	12314 Feb 11 16:46	0°B 0°Y		desc. node	12316 Jun 27 09:17 12316 Jul 21 02:31	1°ய55'45 0°9	
	12314 Mar 08 16:57	v O			12310 Jul 21 02:31	0 29	

	12316 Aug 14 20:48 12316 Sep 08 08:37	0° <b>Ω</b> 0° <b>m</b>		evening max el	12319 Mar 10 00:41 12319 Mar 31 02:15	11° <b>႘</b> 18′26 0°Ⅱ	46°14'02
	12316 Oct 02 17:49	0∘ <b>⊽</b>		asc. node	12319 Apr 04 18:11	3° <b>Ⅱ</b> 24'16	
asc. node	12316 Oct 18 03:08	18° <b>≏</b> 57'58		greatest brilliancy	12319 Apr 18 22:23	10° <b>Ⅱ</b> 59′00	-4.8m
	12316 Oct 27 01:45	$0^{\circ}$ M.		retrograde	12319 Apr 28 17:02	12° <b>Ⅱ</b> 45'55	
morning set	12316 Nov 18 15:02	27°M50'52		evening set	12319 May 15 23:33	7° <b>Ⅱ</b> 00′12	
	12316 Nov 20 08:50	0°⊀		inferior conj	12319 May 19 10:17	4° <b>Ⅱ</b> 53'47	8°42'40
	12316 Dec 14 15:37	0° <b>ට</b>		minimum elong	12319 May 19 03:23	5° <b>Ⅱ</b> 04'27	8°41'12
				min. Earth dist.	12319 May 19 12:00	4° <b>Ⅱ</b> 51'07	0.27488 AU
superior conj	12316 Dec 25 10:31		1°20'45	morning rise	12319 May 22 07:13	3° <b>Ⅱ</b> 07'59	
minimum elong	12316 Dec 25 16:52	13° <b>る</b> 38'57			12319 May 28 00:12	30° <b>₹</b> 8	
max. Earth dist.	12316 Dec 26 05:25	14° <b>る</b> 17'42	1.73164 AU	direct	12319 Jun 09 07:24	26° <b>8</b> 56'33	
	12317 Jan 07 22:58	0° <b>≈</b>		greatest brilliancy	12319 Jun 19 03:31	_	-4.9m
evening rise	12317 Jan 31 19:18	29° <b>≈</b> 22'41			12319 Jun 22 03:56	0°II	
	12317 Feb 01 07:26	0° <b>∀</b>		desc. node	12319 Jul 25 19:58	25° <b>I</b> [51'15	4.60.5.510.0
desc. node	12317 Feb 06 17:45	6° <b>)</b> 40'48		morning max el	12319 Jul 29 20:44	29° <b>I</b> 51′04	46°57'22
	12317 Feb 25 16:47	0°Υ			12319 Jul 30 00:17	0° <b>©</b>	
	12317 Mar 22 02:25	0°Ⅱ 0°8			12319 Aug 26 21:22	0°N	
	12317 Apr 15 12:29	0₀ <b>©</b>			12319 Sep 21 21:40 12319 Oct 17 04:48	0ം <b>⊽</b> 0ംൂ⊅	
asc. node	12317 May 10 01:03 12317 May 30 12:30	0 59 24°5947'43			12319 Oct 17 04.48 12319 Nov 11 03:12	0°M	
asc. Houe	12317 May 30 12.30 12317 Jun 03 20:40	24 <b>3</b> 4743		asc. node	12319 Nov 15 16:45	5°M31'43	
	12317 Jun 29 07:57	0° <b>m</b> )		asc. node	12319 Dec 05 19:43	0° <b>⊼</b>	
	12317 Jul 26 06:53	0∘ <b>⊽</b>			12319 Dec 30 07:58	0° <b>ਠ</b>	
evening max el	12317 Aug 04 17:31	∘ <b>–</b> 9° <b>≏</b> 44'58	46°40'19		12320 Jan 23 17:24	0° <b>≈</b>	
evening max er	12317 Aug 27 06:08	0° <b>M</b> .	10 10 17	morning set	12320 Jan 27 08:48	4°≈29'11	
greatest brilliancy	12317 Sep 12 23:44	9°M57'12	-4.8m	morning sec	12320 Feb 17 01:09	0° <b>)</b> €	
desc. node	12317 Sep 12 23:11 12317 Sep 19 13:19	11°ML49'30		max. Earth dist.	12320 Mar 03 01:48	18° <b>)</b> (34′10	1.72803 AU
retrograde	12317 Sep 24 00:25	12°M12'54				. ,	
evening set	12317 Oct 09 16:01	7°M27'06		superior conj	12320 Mar 04 23:40	20° <b>)</b> 56′00	0°03'16
min. Earth dist.	12317 Oct 14 09:16	4°M38'33	0.28043 AU	minimum elong	12320 Mar 05 00:28	20° <b>)</b> 58'31	0°03'27
inferior conj	12317 Oct 15 06:08	4° <b>M</b> .06'19	-5°54'58	behind sun begin	12320 Mar 04 00:58	19° <b>)</b> 45′50	
minimum elong	12317 Oct 14 19:43	4°M22'25	5°52'08	behind sun end	12320 Mar 05 23:58	22° <b>)</b> 11′12	
morning rise	12317 Oct 19 23:54	1°M15'09		desc. node	12320 Mar 06 07:38	22° <b>)</b> 34′55	
	12317 Oct 22 06:53	30° <b>₹</b> Ω			12320 Mar 12 07:28	$0^{\circ}\mathbf{\Upsilon}$	
direct	12317 Nov 05 07:28	26° <b>≏</b> 09'47			12320 Apr 05 11:57	$9^{\circ}$ 8	
greatest brilliancy	12317 Nov 14 21:23	27° <b>≏</b> 49'47	-4.8m	evening rise	12320 Apr 12 15:42	8° <b>8</b> 53'47	
	12317 Nov 20 04:50	0° <b>M</b> ₊			12320 Apr 29 14:32	$\Pi$ °0	
morning max el	12317 Dec 24 04:27	26°M09'29	45°44'48		12320 May 23 16:15	$0$ $\circ$ $\odot$	
	12317 Dec 28 03:04	0° <b>∡</b>			12320 Jun 16 19:14	$0$ $\circ$ $\Omega$	
asc. node	12318 Jan 10 14:47	13° <b>∡</b> 50′12		asc. node	12320 Jun 27 00:13	12° <b>Ω</b> 38′22	
	12318 Jan 25 11:46	0°ප			12320 Jul 11 02:22	0° <b>m</b> )	
	12318 Feb 20 17:26	0° <b>≈</b>			12320 Aug 04 17:29	0° <b>™</b>	
	12318 Mar 18 00:03	0° <b>∀</b>			12320 Aug 29 23:24	0°M 0°. <b>₹</b>	
1 1	12318 Apr 11 17:52	0° <b>Υ</b>			12320 Sep 25 11:43	0°⊀ <b>7</b>	4.600.712.4
desc. node	12318 May 02 09:51	25° <b>Y</b> 23'29 0° <b>႘</b>		evening max el desc. node	12320 Oct 14 23:20 12320 Oct 16 22:56	20° <b>₹</b> 13'48 22° <b>₹</b> 109'26	46°07'34
	12318 May 06 03:20 12318 May 30 06:49	0°II		desc. node	12320 Oct 16 22.36 12320 Oct 25 10:05	22 <b>メ</b> ・09 26	
	12318 Jun 23 06:21	0°©		greatest brilliancy	12320 Oct 23 10:03 12320 Nov 23 02:20	0 0 19° <b>る</b> 07'24	-4.8m
morning set	12318 Jun 24 11:35	1° <b>9</b> 31'37		retrograde	12320 Dec 03 07:12	21°る00'23	4.0111
morning sec	12318 Jul 17 04:09	0° <b>Ω</b>		evening set	12320 Dec 21 09:09	14° <b>る</b> 51'17	
	12310 (41 1, 01.0)	<b>000</b>		inferior conj	12320 Dec 24 18:52	12° <b>පි</b> 44'05	-8°15'24
superior conj	12318 Aug 03 08:50	21° <b>Ω</b> 34'18	-0°45'40	minimum elong	12320 Dec 25 01:30	12° <b>る</b> 33'38	
minimum elong	12318 Aug 03 19:04	22° <b>Ω</b> 06'22		min. Earth dist.	12320 Dec 24 22:03	12° <b>る</b> 39'05	0.28976 AU
max. Earth dist.	12318 Aug 04 22:28		1.71530 AU	morning rise	12320 Dec 28 17:56	10° <b>ට</b> 17'06	
	12318 Aug 10 02:14	0° <b>m</b> )		direct	12321 Jan 15 05:52	4° <b>ට</b> 30'01	
asc. node	12318 Aug 23 00:46	16° Mp 11'33		greatest brilliancy	12321 Jan 25 18:13	6° <b>る</b> 31'12	-4.7m
	12318 Sep 03 01:59	0∘ <b>⊽</b>		asc. node	12321 Feb 07 01:00	12° <b>る</b> 58'47	
evening rise	12318 Sep 11 21:02	10° <b>£</b> 57'58			12321 Feb 27 22:07	0° <b>≈</b>	
	12318 Sep 27 04:21	0°M		morning max el	12321 Mar 05 11:27	5° <b>≈</b> 19'16	45°54'27
	12318 Oct 21 10:36	0° <b>∡</b>			12321 Mar 29 01:22	0° <b>)</b>	
	12318 Nov 14 22:50	0°₹			12321 Apr 24 09:54	0°Υ	
	12318 Dec 09 19:52	0° <b>≈</b>			12321 May 19 15:21	0°8	
desc. node	12318 Dec 12 18:11	3°≈29'50		desc. node	12321 May 29 23:11	12° <b>8</b> 30'56	
	12319 Jan 04 05:02	0° <b>∀</b>			12321 Jun 13 06:14	0°II	
	12319 Jan 30 07:57	$\gamma_{\circ 0}$			12321 Jul 07 12:47	0° <b>©</b>	
	12319 Feb 26 20:50	0° <b>8</b>			12321 Jul 31 15:14	$0$ ° $\Omega$	

	12221 A 24 16-20	00 <b>m</b>			12224 M 05 02-17	210 1 01151	0920117
. ,	12321 Aug 24 16:29	0° m/y		minimum elong	12324 Mar 05 02:17	21° <b>米</b> 01'51	
morning set	12321 Sep 06 09:33	15° <b>m</b> 51'05		min. Earth dist.	12324 Mar 05 10:50	20° <b>)</b> (48′29	0.28127 AU
	12321 Sep 17 18:06	0∘ <b>⊽</b>		asc. node	12324 Mar 06 10:42	20° <b>米</b> 11′20	
asc. node	12321 Sep 19 14:53	2° <b>≏</b> 19'25		morning rise	12324 Mar 11 08:32	17° <b>¥</b> 16'38	
	12321 Oct 11 20:43	0°M₊		direct	12324 Mar 26 05:08	12° <b>¥</b> 54'11	
				greatest brilliancy	12324 Apr 06 00:43	15° <b>米</b> 03'59	-4.8m
superior conj	12321 Oct 14 23:23	3°M51'57	0°56'33		12324 Apr 29 02:50	0° <b>Υ</b>	
minimum elong	12321 Oct 14 13:20	3° <b>M</b> ₂0'44	0°56'34	morning max el	12324 May 15 07:01	15° <b>Y</b> ′00'45	46°37'55
max. Earth dist.	12321 Oct 17 06:39	6°M43'34	1.72483 AU		12324 May 29 16:21	$0^{\circ}$ 8	
	12321 Nov 05 00:51	0° <b>⊼</b>			12324 Jun 25 07:48	$\Pi$ °0	
evening rise	12321 Nov 21 03:08	19° <b>∡</b> 54′23		desc. node	12324 Jun 26 11:10	1° <b>Ⅱ</b> 19'42	
	12321 Nov 29 07:29	0°₹			12324 Jul 20 15:21	$0$ $\circ$	
	12321 Dec 23 17:50	0° <b>≈</b>			12324 Aug 14 08:45	$0$ $^{\circ}$ $\Omega$	
desc. node	12322 Jan 09 06:25	20° <b>≈</b> 09'47			12324 Sep 07 19:59	0° <b>m</b> y	
	12322 Jan 17 08:42	0° <b>ℋ</b>			12324 Oct 02 04:46	0∘ <b>ত</b>	
	12322 Feb 11 04:17	$0$ ° $\Upsilon$		asc. node	12324 Oct 17 05:06	18° <b>≏</b> 30'47	
	12322 Mar 08 05:17	$_{0\circ}$ 8			12324 Oct 26 12:27	0° <b>M</b> ₊	
	12322 Apr 02 15:28	$\Pi$ $\circ 0$		morning set	12324 Nov 16 07:15	25° <b>M</b> 40′09	
	12322 Apr 28 22:22	0ංම			12324 Nov 19 19:21	0° <b>∡</b>	
asc. node	12322 May 02 03:55	3° <b>©</b> 33'59			12324 Dec 14 02:03	0°ರ	
evening max el	12322 May 22 00:01	24° <b>©</b> 28'46	46°44'59				
	12322 May 27 15:12	$0^{\circ}\Omega$		superior conj	12324 Dec 23 03:30	11° <b>る</b> 11'25	1°21'51
greatest brilliancy	12322 Jul 01 08:42	25° <b>Ω</b> 05'33	-4.9m	minimum elong	12324 Dec 23 09:16	11° <b>る</b> 29'13	1°22'39
retrograde	12322 Jul 11 05:15	26° <b>Ω</b> 55′08		max. Earth dist.	12324 Dec 24 01:09	12° <b>る</b> 18'15	1.73158 AU
evening set	12322 Jul 26 23:38	22° <b>Ω</b> 05'46			12325 Jan 07 09:24	0° <b>≈</b>	
inferior conj	12322 Jul 31 22:09	19° <b>Ω</b> 09'16	5°14'08	evening rise	12325 Jan 29 11:29	27° <b>≈</b> 12'24	
minimum elong	12322 Aug 01 08:29	18° <b>Ω</b> 53'25	5°10'42		12325 Jan 31 17:58	0° <b>)</b> €	
min. Earth dist.	12322 Aug 01 04:51	18° <b>Ω</b> 58'59	0.27009 AU	desc. node	12325 Feb 05 19:33	6° <b>)</b> 13′54	
morning rise	12322 Aug 06 17:20	15° <b>Ω</b> 43'59			12325 Feb 25 03:30	$0^{\circ}$ $\Upsilon$	
direct	12322 Aug 21 15:04	11° <b>Ω</b> 23′23			12325 Mar 21 13:25	0°8	
desc. node	12322 Aug 22 05:49	11° <b>Ω</b> 23'50			12325 Apr 14 23:54	$\Pi^{\circ}$	
greatest brilliancy	12322 Aug 31 15:58	13° <b>Ω</b> 15′17	-4.8m		12325 May 09 13:04	$0$ $\circ$ $\odot$	
	12322 Sep 26 10:40	o° mp		asc. node	12325 May 29 14:25	24°915'02	
morning max el	12322 Oct 10 09:37	12° <b>m</b> 53'14	46°22'18		12325 Jun 03 09:42	$0^{\circ}\Omega$	
-	12322 Oct 27 02:17	0∘ <b>ত</b>			12325 Jun 28 22:51	0° <b>m</b> y	
	12322 Nov 23 05:59	0° <b>M</b> ₊			12325 Jul 26 02:15	0∘ <b>ত</b>	
asc. node	12322 Dec 13 05:20	23°ML03'31		evening max el	12325 Aug 02 08:59	7° <b>≏</b> 28'22	46°41'17
	12322 Dec 19 03:19	0° <b>∡</b> ¹			12325 Aug 27 23:49	0° <b>M</b>	
	12323 Jan 13 08:15	0° <b>ප</b>		greatest brilliancy	12325 Sep 10 14:10	7° <b>ጤ</b> 39'21	-4.8m
	12323 Feb 07 03:08	0° <b>≈</b>		desc. node	12325 Sep 18 15:24	9° <b>M</b> 45'01	
	12323 Mar 03 15:35	0° <b>₩</b>		retrograde	12325 Sep 21 16:06	9° <b>ጤ</b> 55'53	
	12323 Mar 27 23:30	$0$ ° $\Upsilon$		evening set	12325 Oct 07 03:54	5° <b>M</b> 14'13	
desc. node	12323 Apr 03 21:52	8° <b>Ƴ</b> 35′02		min. Earth dist.	12325 Oct 11 23:27	2°M22'32	0.27985 AU
morning set	12323 Apr 08 00:38	13° <b>Ƴ</b> 41'18		inferior conj	12325 Oct 12 20:36	1° <b>M</b> 49'56	-5°38'28
	12323 Apr 21 03:34	$0^{\circ}$ 8		minimum elong	12325 Oct 12 10:19	2° <b>M</b> 05'47	5°35'36
max. Earth dist.	12323 May 14 22:11	29° <b>8</b> 40'53	1.71690 AU		12325 Oct 15 20:41	30° <b>₽</b> Ω	
	12323 May 15 04:17	$\Pi^{\circ}$		morning rise	12325 Oct 17 17:19	28° <b>≙</b> 54'57	
				direct	12325 Nov 02 21:53	23° <b>≏</b> 54'14	
superior conj	12323 May 17 21:47	3° <b>Ⅱ</b> 24'59	-1°22'19	greatest brilliancy	12325 Nov 12 10:43	25° <b>≏</b> 33'45	-4.8m
minimum elong	12323 May 17 14:13	3° <b>Ⅱ</b> 01'16	1°22'56		12325 Nov 22 00:50	0° <b>M</b>	
	12323 Jun 08 02:46	$0$ $\circ$ $\odot$		morning max el	12325 Dec 21 19:50	23°M57'24	45°45'20
evening rise	12323 Jun 26 23:38	23° <b>5</b> 40'27			12325 Dec 27 23:36	0° <b>∡</b> ¹	
	12323 Jul 02 00:43	$0^{\circ}\Omega$		asc. node	12326 Jan 09 16:43	13° <b>∡</b> ¹09'37	
asc. node	12323 Jul 25 12:55	29° <b>Ω</b> 25′07			12326 Jan 25 02:42	ರ°0	
	12323 Jul 26 00:05	0° <b>m</b> )			12326 Feb 20 06:15	0° <b>≈</b>	
	12323 Aug 19 02:45	0∘ <b>⊽</b>			12326 Mar 17 11:52	0° <b>∀</b>	
	12323 Sep 12 10:53	0° <b>M</b> .			12326 Apr 11 05:10	$0^{\circ}$ Y	
	12323 Oct 07 04:03	0° <b>∡</b> ¹		desc. node	12326 May 01 11:52	24° <b>Y</b> 55'39	
	12323 Nov 01 12:36	ರ∘ರ			12326 May 05 14:20	$9^{\circ}$ 8	
desc. node	12323 Nov 14 09:01	14° <b>පි</b> 46'01			12326 May 29 17:38	$\Pi^{\circ}0$	
	12323 Nov 28 00:44	0° <b>≈</b>		morning set	12326 Jun 21 23:15	29° <b>Ⅲ</b> 04′10	
evening max el	12323 Dec 25 23:16	28° <b>≈</b> 57'19	45°52'01		12326 Jun 22 17:04	0°99	
	12323 Dec 27 01:30	0° <b>)</b>			12326 Jul 16 14:50	$0^{\circ}\Omega$	
greatest brilliancy	12324 Feb 03 02:24	27° <b>¥</b> 20′01	-4.8m				
retrograde	12324 Feb 12 21:46	29° <b>)</b> €05'59		superior conj	12326 Jul 31 20:57	19° <b>Ω</b> 08′13	-0°48'54
evening set	12324 Feb 27 19:25	24° <b>)</b> 46′38		minimum elong	12326 Aug 01 07:38	19° <b>Ω</b> 41'44	0°49'06
inferior conj	12324 Mar 05 01:30	21° <b>∺</b> 03′04	-0°20'45	max. Earth dist.	12326 Aug 02 10:41	21° <b>Ω</b> 06′34	1.71511 AU

asc. node	12326 Aug 09 12:55 12326 Aug 22 02:39	0° <b>т</b> ) 15° <b>т</b> ) 44'03		direct greatest brilliancy	12329 Jan 12 21:28 12329 Jan 23 09:30	2°පි19'41 4°පි19'57	-4.7m
evening rise	12326 Sep 02 12:42 12326 Sep 09 11:03	0° <b>ഫ</b> 8° <b>ഫ</b> 38'47		asc. node	12329 Feb 06 03:00 12329 Feb 27 21:53	11° <b>ठ</b> 45'13 0°≈	
C	12326 Sep 26 15:06	$0^{\circ}$ M		morning max el	12329 Mar 03 01:42	3° <b>≈</b> 03'11	45°53'18
	12326 Oct 20 21:29	0° <b>∡</b> ¹			12329 Mar 28 17:25	0° <b>)</b>	
	12326 Nov 14 10:01	ರ°0			12329 Apr 23 23:27	0° <b>Υ</b>	
desc. node	12326 Dec 09 07:38	0° <b>≈</b> 3° <b>≈</b> 00'08		desc. node	12329 May 19 03:44	0° <b>と</b> 11° <b>と</b> 59'25	
desc. node	12326 Dec 11 20:04 12327 Jan 03 17:51	3 ≈00 08 0° <b>∺</b>		desc. node	12329 May 29 00:56 12329 Jun 12 17:59	0° <b>Ⅱ</b>	
	12327 Jan 29 22:44	0° <b>Υ</b>			12329 Jul	0°©	
	12327 Feb 26 16:14	$0^{\circ}$ 8			12329 Jul 31 02:21	$0^{\circ}\Omega$	
evening max el	12327 Mar 07 15:38	9° <b>8</b> 02'01	46°12'52		12329 Aug 24 03:23	0° <b>m</b> y	
	12327 Mar 31 19:46	0°Щ		morning set	12329 Sep 03 23:43	13° <b>m</b> 31'53	
asc. node	12327 Apr 03 20:19	2° <b>Ⅱ</b> 05'07	4.0	,	12329 Sep 17 04:51	0° <b>⊽</b>	
greatest brilliancy retrograde	12327 Apr 16 11:36 12327 Apr 26 06:19	8° <b>П</b> 37'39 10° <b>П</b> 24'16	-4.8m	asc. node	12329 Sep 18 16:49 12329 Oct 11 07:24	1° <b>亞</b> 51'59 0° <b>ጤ</b>	
evening set	12327 Apr 20 00:19 12327 May 13 09:02	4° <b>Ⅱ</b> 44'59			12329 Oct 11 07.24	O IIG	
inferior conj	12327 May 16 23:56	2° <b>П</b> 32'07	8°34'37	superior conj	12329 Oct 12 15:05	1°ML38'27	0°53'53
minimum elong	12327 May 16 16:21	2° <b>Ⅱ</b> 43'54	8°33'00	minimum elong	12329 Oct 12 05:10	1° <b>M</b> L07'38	0°53'53
min. Earth dist.	12327 May 17 01:12	2° <b>Ⅲ</b> 30′09	0.27500 AU	max. Earth dist.	12329 Oct 14 21:00	4°M25'53	1.72450 AU
morning rise	12327 May 19 23:37	0° <b>Ⅱ</b> 41'56			12329 Nov 04 11:32	0° <b>∡</b> ¹	
	12327 May 21 03:51	30° <b>₹8</b>		evening rise	12329 Nov 18 19:45	17° <b>∡</b> ¹44'22	
direct	12327 Jun 06 21:26 12327 Jun 16 17:14	24° <b>8</b> 34'48 26° <b>8</b> 24'34	4.0		12329 Nov 28 18:15	ರ°⊗ %0	
greatest brilliancy	12327 Jun 16 17:14 12327 Jun 24 09:27	26° <b>6</b> 24°34 0° <b>Ⅱ</b>	-4.9m	desc. node	12329 Dec 23 04:48 12330 Jan 08 08:12	0°≈ 19°≈41'20	
desc. node	12327 Jul 24 05:27	24° <b>∏</b> 57'57		dese. Hode	12330 Jan 16 19:59	0° <b>\</b>	
morning max el	12327 Jul 27 10:04	27° <b>Ⅲ</b> 27'51	46°57'35		12330 Feb 10 16:06	0° <b>Υ</b>	
-	12327 Jul 29 22:05	$0$ $\circ$ $\odot$			12330 Mar 07 17:58	$0^{\circ}$ 8	
	12327 Aug 26 13:15	$0^{\circ}\Omega$			12330 Apr 02 05:38	$\Pi$ °0	
	12327 Sep 21 11:15	0° <b>m</b>			12330 Apr 28 15:33	0°©	
	12327 Oct 16 17:10	0∘ <b>m</b>		asc. node	12330 May 01 05:51	2°950'52	46944120
asc. node	12327 Nov 10 14:48 12327 Nov 14 18:38	0°M 5°M02'32		evening max el	12330 May 19 12:17 12330 May 27 17:24	22° <b>©</b> 02'12 0° <b>Ω</b>	46°44'20
asc. node	12327 Nov 14 18:38 12327 Dec 05 06:49	0° <b>√</b>		greatest brilliancy	12330 Jun 28 23:09	22° <b>Ω</b> 41'49	-4.9m
	12327 Dec 29 18:45	0° <b>ਰ</b>		retrograde	12330 Jul 08 18:05	24° <b>Ω</b> 30'28	,
	12328 Jan 23 04:03	0° <b>≈</b>		evening set	12330 Jul 24 15:49	19° <b>Ω</b> 36′16	
morning set	12328 Jan 25 01:39	2° <b>≈</b> 20'30		inferior conj	12330 Jul 29 11:03	16° <b>Ω</b> 44'42	
	12328 Feb 16 11:46	0° <b>∀</b>		minimum elong	12330 Jul 29 21:44	16° <b>Ω</b> 28'21	
max. Earth dist.	12328 Feb 29 17:00	16° <b>∺</b> 19'57	1.72834 AU	min. Earth dist.	12330 Jul 29 18:51		0.27012 AU
superior conj	12328 Mar 02 14:46	18° <b>¥</b> 41'25	0°06'46	morning rise direct	12330 Aug 04 03:34 12330 Aug 19 03:20	13° <b>Ω</b> 23'06 8° <b>Ω</b> 58'18	
minimum elong	12328 Mar 02 16:23	18° <b>)</b> 46'27	0°06'57	desc. node	12330 Aug 19 03:20 12330 Aug 21 07:50	9° <b>Ω</b> 03'56	
behind sun begin	12328 Mar 01 18:38	17° <b>)</b> € 39'12	0 0027	greatest brilliancy	12330 Aug 29 05:34	10° <b>Ω</b> 51'28	-4.9m
behind sun end	12328 Mar 03 14:08	19° <b>)</b> 53'41			12330 Sep 26 17:13	0° <b>m</b>	
desc. node	12328 Mar 05 09:33	22° <b>₩</b> 07'57		morning max el	12330 Oct 07 23:34	10° <b>m</b> 33'07	46°24'05
	12328 Mar 11 18:08	0° <b>Υ</b>			12330 Oct 26 20:14	0∘ <b>⊽</b>	
	12328 Apr 04 22:42	0°8		1-	12330 Nov 22 20:18	0°M	
evening rise	12328 Apr 10 05:42 12328 Apr 29 01:26	6° <b>8</b> 34'31 0° <b>Ⅱ</b>		asc. node	12330 Dec 12 07:11 12330 Dec 18 15:59	22°M30'53 0° <i>₹</i>	
	12328 May 23 03:21	0₀ 0 H			12331 Jan 12 20:04	0°ਰ	
	12328 Jun 16 06:37	0°N			12331 Feb 06 14:28	0° <b>≈</b>	
asc. node	12328 Jun 26 02:03	12° <b>Ω</b> 08′27			12331 Mar 03 02:39	0° <b>)</b>	
	12328 Jul 10 14:10	0° <b>m</b> )			12331 Mar 27 10:25	$0^{\circ}$ Y	
	12328 Aug 04 06:01	0∘ <b>⊽</b>		desc. node	12331 Apr 02 23:45	8° <b>℃</b> 07'04	
	12328 Aug 29 13:18 12328 Sep 25 04:42	0° <b>M</b> 0° <i>≯</i> 7		morning set	12331 Apr 05 13:57 12331 Apr 20 14:26	11° <b>Y</b> 19'55 0° <b>と</b>	
evening max el	12328 Sep 23 04.42 12328 Oct 12 13:58	0 <b>x</b> . 17° <b>∡</b> 58'26	46°08'29	max. Earth dist.	12331 Apr 20 14.26 12331 May 12 10:45		1.71728 AU
desc. node	12328 Oct 12 13:38 12328 Oct 16 00:58	21°× 19'08	10 002)	mas. Durin dist.	12331 May 14 15:12	27 <b>日</b> 13 37	1./1/20 AU
	12328 Oct 25 14:15	0°ප					
greatest brilliancy	12328 Nov 20 18:14	16° <b>る</b> 56'52	-4.8m	superior conj	12331 May 15 09:53	0°Ⅲ58′27	-1°20'56
retrograde	12328 Nov 30 22:32	18° <b>ප්</b> 49'46		minimum elong	12331 May 15 01:33	0°Ⅲ32′23	1°21'30
evening set	12328 Dec 19 03:04	12°る37'54	0021155		12331 Jun 07 13:44	0.22	
inferior conj	12328 Dec 22 10:56	10°る33'31 10°る24'03		evening rise	12331 Jun 24 10:47	21° <b>©</b> 10'23 0° <b>Ω</b>	
minimum elong min. Earth dist.	12328 Dec 22 16:56 12328 Dec 22 13:28		8°20'29 0.28979 AU	asc. node	12331 Jul 01 11:46 12331 Jul 24 14:51	28° <b>Ω</b> 56'20	
morning rise	12328 Dec 22 13:28 12328 Dec 26 06:51	8° <b>ප</b> 11'03	5.26717 AU	ase. Houe	12331 Jul 25 11:16	0° m)	
		2 2.1 03				~ ·×	

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	12331 Aug 18 14:06	0° <b>⊡</b>			12334 Mar 16 23:54	0° <b>∀</b>	
	12331 Sep 11 22:33	0° <b>M</b>			12334 Apr 10 16:43	0°Υ	
	12331 Oct 06 16:19	0° <b>∡</b> ′		desc. node	12334 Apr 30 13:38	24° <b>Y</b> 26′09	
	12331 Nov 01 02:00	0°ප			12334 May 05 01:37	0°8	
desc. node	12331 Nov 13 10:52	14° <b>る</b> 10'37			12334 May 29 04:45	$\Pi$ °0	
	12331 Nov 27 16:40	0° <b>≈</b>		morning set	12334 Jun 19 10:42	26° <b>Ⅱ</b> 35′05	
evening max el	12331 Dec 23 14:48	26° <b>≈</b> 45′27	45°51'57		12334 Jun 22 04:05	$0$ $\circ$ $\odot$	
	12331 Dec 27 01:01	0° <b>∀</b>			12334 Jul 16 01:47	$0 {\circ} \Omega$	
greatest brilliancy	12332 Jan 31 16:37	25° <b>)</b> €04'59	-4.8m				
retrograde	12332 Feb 10 13:07	26° <b>)</b> 51′36		superior conj	12334 Jul 29 08:54	16° <b>Ω</b> 40'55	-0°52'03
evening set	12332 Feb 25 11:36	22° <b>)</b> € 30′19		minimum elong	12334 Jul 29 19:57	17° <b>Ω</b> 15'35	
inferior conj	12332 Mar 02 16:39	18° <b>)</b> 47'59	-0°42'31	max. Earth dist.	12334 Jul 30 22:29	18° <b>Ω</b> 38'47	1.71489 AU
minimum elong	12332 Mar 02 18:15	18° <b>¥</b> 45′29	0°41'45		12334 Aug 08 23:51	0° <b>m</b>	
min. Earth dist.	12332 Mar 03 02:13	18° <b>)</b> €33'03	0.28164 AU	asc. node	12334 Aug 21 04:33	15° <b>m</b> 15'53	
asc. node	12332 Mar 05 12:48	17° <b>)</b> €02'31			12334 Sep 01 23:39	0∘ <b>ত</b>	
morning rise	12332 Mar 09 00:23	15° <b>)</b> €00'53		evening rise	12334 Sep 07 00:55	6° <b>≏</b> 18'14	
direct	12332 Mar 23 21:02	10° <b>)</b> 38′42			12334 Sep 26 02:07	0°M	
greatest brilliancy	12332 Apr 03 16:36	12° <b>)</b> 48′58	-4.8m		12334 Oct 20 08:40	0° <b>⊼</b> ¹	
,	12332 Apr 29 09:30	$0^{\circ}$ Y			12334 Nov 13 21:30	0°ರ	
morning max el	12332 May 12 23:07	12° <b>Ƴ</b> 46′09	46°36'23		12334 Dec 08 19:41	0° <b>≈</b>	
	12332 May 29 10:17	0°8		desc. node	12334 Dec 10 21:59	2°≈29'45	
	12332 Jun 24 22:22	0°II			12335 Jan 03 06:57	0° <b>)</b> €	
desc. node	12332 Jun 25 13:07	0° <b>I</b> I43'07			12335 Jan 29 13:54	0° <b>Υ</b>	
dese. Hode	12332 Jul 20 04:25	0°95			12335 Feb 26 12:24	0°8	
	12332 Aug 13 20:58	0°Ω		evening max el	12335 New 26 12:24 12335 Mar 05 05:36	6° <b>8</b> 42'42	46°11'34
	12332 Nag 13 20:30 12332 Sep 07 07:40	0° <b>m</b> )		evening max er	12335 Apr 01 19:58	0°Ⅱ	40 11 54
	12332 Sep 07 07:40 12332 Oct 01 16:05	0∘ <b>⊽</b>		asc. node	12335 Apr 01 19.38 12335 Apr 02 22:11	0° <b>Ⅱ</b> 42'07	
asa nada	12332 Oct 01 10:05	0 <b>=</b> 18° <b>⊆</b> 02'06			•	6° <b>Ⅱ</b> 15'46	-4.8m
asc. node	12332 Oct 16 06.36 12332 Oct 25 23:28	0°M		greatest brilliancy	12335 Apr 14 01:04	8° <b>П</b> 01'50	-4.6111
				retrograde	12335 Apr 23 19:00	2° <b>I</b> I29'04	
morning set	12332 Nov 13 23:44	23°M29'15 0° <i>₹</i> ¹		evening set	12335 May 10 18:17	2° <b>П</b> 29'04 0° <b>П</b> 09'38	0025120
	12332 Nov 19 06:11			inferior conj	12335 May 14 13:33		
	12332 Dec 13 12:46	0°ප		minimum elong	12335 May 14 05:19	0°II22'26	8°23'42
	10000 0 00 00 11	~~~~~	1000110	min. Earth dist.	12335 May 14 14:44	0° <b>Ⅱ</b> 07'48	0.27516 AU
superior conj	12332 Dec 20 20:44	9° <b>る</b> 03'19			12335 May 14 19:44	30° <b>₹</b> 8	
minimum elong	12332 Dec 21 01:52		1°23'38	morning rise	12335 May 17 16:16	28° <b>8</b> 14'39	
max. Earth dist.	12332 Dec 21 22:46	10° <b>ට</b> 23'41	1.73149 AU	direct	12335 Jun 04 10:58	22° <b>8</b> 11'59	
	12333 Jan 06 20:08	0° <b>≈</b>		greatest brilliancy	12335 Jun 14 07:40	24° <b>8</b> 02'06	-4.9m
evening rise	12333 Jan 27 03:49	25°≈01'39			12335 Jun 25 20:58	$\Pi^{\circ}0$	
	12333 Jan 31 04:49	0° <b>∀</b>		desc. node	12335 Jul 23 23:59	24° <b>Ⅱ</b> 04'53	
desc. node	12333 Feb 04 21:32	5° <b>)</b> 46'31		morning max el	12335 Jul 24 22:38	25° <b>Ⅱ</b> 01'40	46°57'50
	12333 Feb 24 14:35	$0$ ° $\mathbf{\Upsilon}$			12335 Jul 29 19:27	0	
	12333 Mar 21 00:48	$0^{\circ}S$			12335 Aug 26 05:07	$0$ $^{\circ}\Omega$	
	12333 Apr 14 11:42	$\Pi$ $^{\circ}0$			12335 Sep 21 00:54	0° <b>m</b>	
	12333 May 09 01:30	$0$ $\circ$ $\odot$			12335 Oct 16 05:37	0∘ <b>⊽</b>	
asc. node	12333 May 28 16:17	23° <b>©</b> 40'58			12335 Nov 10 02:30	0° <b>M</b> .	
	12333 Jun 02 23:11	$0^{\circ}\Omega$		asc. node	12335 Nov 13 20:25	4°M32'42	
	12333 Jun 28 14:21	0° <b>m</b>			12335 Dec 04 18:03	0°⊀	
	12333 Jul 25 22:38	0∘ <b>⊽</b>			12335 Dec 29 05:41	0° <b>ට</b>	
evening max el	12333 Jul 31 00:51	5° <b>≏</b> 11'36	46°42'03	morning set	12336 Jan 22 18:37	0° <b>≈</b> 11'44	
	12333 Aug 29 00:41	$0^{\circ}$ M.			12336 Jan 22 14:48	0°≈	
greatest brilliancy	12333 Sep 08 04:56	5°M20'33	-4.8m		12336 Feb 15 22:28	0° <b>∀</b>	
desc. node	12333 Sep 17 17:27	7°M34'08		max. Earth dist.	12336 Feb 27 09:19	14° <b>)</b> €09'03	1.72863 AU
retrograde	12333 Sep 19 07:23	7° <b>M</b> 37'06					
evening set	12333 Oct 04 15:51	2°M59'44		superior conj	12336 Feb 29 06:08	16° <b>)</b> €27'32	0°10'13
min. Earth dist.	12333 Oct 09 13:43	0°ML04'43	0.27925 AU	minimum elong	12336 Feb 29 08:33	16° <b>)</b> 35′01	0°10'23
	12333 Oct 09 16:46	30° <b>Ŗ</b> Ω		behind sun begin	12336 Feb 28 14:12	15° <b>)</b> 38′16	
inferior conj	12333 Oct 10 10:54	29° <b>₽</b> 32'01	-5°21'13	behind sun end	12336 Mar 01 02:54	17° <b>)</b> 31′46	
minimum elong	12333 Oct 10 00:51	29° <b>≏</b> 47'32		desc. node	12336 Mar 04 11:25	21° <b>)</b> (40′39	
morning rise	12333 Oct 15 10:31	26° <b>♀</b> 33'10			12336 Mar 11 04:51	0° <b>Υ</b>	
direct	12333 Oct 31 12:21	21° <b>♀</b> 37'20			12336 Apr 04 09:31	0°8	
greatest brilliancy	12333 Nov 09 23:50	23° <b>Ω</b> 16'02	-4.8m	evening rise	12336 Apr 07 19:59	4° <b>8</b> 16'05	
J	12333 Nov 23 07:26	0°M	<del>-</del>	- B	12336 Apr 28 12:25	0°II	
morning max el	12333 Nov 23 07:20 12333 Dec 19 10:32	21°M42'49	45°46'02		12336 May 22 14:34	0°9	
	12333 Dec 17 10:32	0° <b>₹</b> ¹			12336 Jun 15 18:09	$0 {\circ} \Omega$	
asc. node	12334 Jan 08 18:43	12° <b>∡</b> 128'56		asc. node	12336 Jun 25 03:59	11° <b>Ω</b> 38'22	
	12334 Jan 24 17:39	0°る			12336 Jul 10 02:10	0° Mp	
	12334 Feb 19 19:13	0°≈			12336 Aug 03 18:46	0° <del>ت</del> راال	
	12001100 17 17.10	0 /01			12550 11ug 05 10.70	· <b>–</b>	

	12336 Aug 29 03:27	0°M.		morning set	12339 Apr 03 03:31	9° <b>Ƴ</b> 00'09	
	12336 Sep 24 22:10	0° <b>⊼</b> 7		morning sec	12339 Apr 20 01:03	0°8	
evening max el	12336 Oct 10 03:47	15° <b>∡</b> ′40'44	46°09'34	max. Earth dist.	12339 May 09 23:49	24° <b>8</b> 53'31	1.71758 AU
desc. node	12336 Oct 15 02:50	20° <b>∡</b> ¹27'11					
	12336 Oct 25 20:34	0°ප		superior conj	12339 May 12 22:17	28° <b>8</b> 33'52	-1°19'23
greatest brilliancy	12336 Nov 18 09:35	14° <b>පි</b> 45'16	-4.8m	minimum elong	12339 May 12 13:17	28° <b>8</b> 05'44	1°19'55
retrograde	12336 Nov 28 13:55	16° <b>පි</b> 38'48			12339 May 14 01:49	0°Щ	
evening set	12336 Dec 16 20:35	10°る24'13	0027140		12339 Jun 07 00:22	0°95	
inferior conj	12336 Dec 20 02:51 12336 Dec 20 08:11	8°る22'27 8°る14'03	-8°27'40 8°26'22	evening rise	12339 Jun 21 22:19	18° <b>©</b> 42'38 0° <b>Ω</b>	
minimum elong min. Earth dist.	12336 Dec 20 08.11 12336 Dec 20 04:45	8°る19'27	0.28981 AU	asc. node	12339 Jun 30 22:28 12339 Jul 23 16:47	28° <b>Ω</b> 28'36	
morning rise	12336 Dec 23 19:47	6°る04'28	0.20701 AU	asc. node	12339 Jul 24 22:05	0°m)	
direct	12337 Jan 10 12:43	0° <b>ろ</b> 08'40			12339 Aug 18 01:09	0∘ <b>⊽</b>	
greatest brilliancy	12337 Jan 21 01:08	2° <b>る</b> 08'51	-4.7m		12339 Sep 11 09:59	0°M₊	
asc. node	12337 Feb 05 05:02	10° <b>る</b> 33'34			12339 Oct 06 04:21	0° <b>∡</b> ¹	
	12337 Feb 27 20:35	0° <b>≈</b>			12339 Oct 31 15:15	0°ප	
morning max el	12337 Feb 28 16:20	0° <b>≈</b> 48′06	45°52'25	desc. node	12339 Nov 12 12:53	13° <b>⋜</b> 36′04	
	12337 Mar 28 09:07	0° <b>∀</b>			12339 Nov 27 08:36	0° <b>≈</b>	
	12337 Apr 23 12:46	0° <b>Υ</b>		evening max el	12339 Dec 21 06:41	24°≈35'09	45°51'58
	12337 May 18 15:57	0°8		4 41 211	12339 Dec 27 01:22	0° <b>)</b> {	4.0
desc. node	12337 May 28 02:53 12337 Jun 12 05:37	11° <b>8</b> 28'55 0° <b>П</b>		greatest brilliancy	12340 Jan 29 06:59	22° <b>)</b> 51'03 24° <b>)</b> 37'49	-4.8m
	12337 Jun 12 05:37 12337 Jul 06 11:27	0. 0. Ш		retrograde evening set	12340 Feb 08 04:14 12340 Feb 23 03:55	24° <b>★</b> 3/49 20° <b>★</b> 14'42	
	12337 Jul 30 13:25	0° <b>U</b>		inferior conj	12340 Feb 29 07:42	16°\dagger 33'38	-1°04'09
	12337 Aug 23 14:17	0° m)		minimum elong	12340 Feb 29 10:07	16° <b>¥</b> 29'52	
morning set	12337 Sep 01 13:20	11° <b>m</b> ) 10'54		min. Earth dist.	12340 Feb 29 17:25	16° <b>)</b> 18′28	0.28198 AU
C	12337 Sep 16 15:36	0∘ <del>⊽</del>		asc. node	12340 Mar 04 14:44	13° <b>¥</b> 55'53	
asc. node	12337 Sep 17 18:37	1° <b>≏</b> 24'10		morning rise	12340 Mar 06 15:54	12° <b>)</b> 45′57	
				direct	12340 Mar 21 13:05	8° <b>)</b> 24′07	
superior conj	12337 Oct 10 06:15	29° <b>ჲ</b> 23'21	0°51'06	greatest brilliancy	12340 Apr 01 08:02	10° <b>¥</b> 34′10	-4.8m
minimum elong	12337 Oct 09 20:31	28° <b>≙</b> 53'08	0°51'04		12340 Apr 29 13:43	0° <b>Υ</b>	
To all III	12337 Oct 10 18:02	0°M,	1 70416 411	morning max el	12340 May 10 14:42	10° <b>Y</b> 31′21	46°34'56
max. Earth dist.	12337 Oct 12 10:27 12337 Nov 03 22:09	2°11L05'34 0° <b>2</b> 7	1.72416 AU	desc. node	12340 May 29 03:26 12340 Jun 24 15:08	0° <b>В</b> 0° <b>П</b> 08'11	
evening rise	12337 Nov 03 22.09 12337 Nov 16 12:05	0 <b>x</b> . 15° <b>∡</b> '33'43		desc. node	12340 Jun 24 13:08 12340 Jun 24 12:20	0°Щ0811	
evening rise	12337 Nov 10 12:03 12337 Nov 28 04:58	0°る			12340 Jul 19 16:56	0° <b>©</b>	
	12337 Dec 22 15:42	0° <b>≈</b>			12340 Aug 13 08:40	$0^{\circ}\Omega$	
desc. node	12338 Jan 07 10:12	19° <b>≈</b> 13'41			12340 Sep 06 18:51	0° m)	
	12338 Jan 16 07:13	0° <b>)</b>			12340 Oct 01 02:56	0∘ <b>⊽</b>	
	12338 Feb 10 03:51	$0^{\circ}$ Y		asc. node	12340 Oct 15 08:44	17° <b>≏</b> 34'41	
	12338 Mar 07 06:35	$0^{\circ}$ 8			12340 Oct 25 10:05	$0^{\circ}$ M	
	12338 Apr 01 19:45	$\Pi$ °0		morning set	12340 Nov 11 15:58	21°M18'45	
	12338 Apr 28 08:49	0.20			12340 Nov 18 16:38	0° <b>∡</b> 7	
asc. node	12338 Apr 30 07:47	2°508'00	46°43'40		12340 Dec 12 23:08	0°₹	
evening max el	12338 May 17 01:04 12338 May 27 20:49	19° <b>©</b> 37'55 0° <b>Ω</b>	40-43-40	superior conj	12340 Dec 18 13:41	6° <b>る</b> 55'25	1022120
greatest brilliancy	12338 Jun 26 12:40	20° <b>Ω</b> 17'46	-4.9m	minimum elong	12340 Dec 18 13:41 12340 Dec 18 18:10	7° <b>る</b> 09'15	
retrograde	12338 Jul 06 07:17	22°Ω06'18	1.7111	max. Earth dist.	12340 Dec 19 19:07		1.73138 AU
evening set	12338 Jul 22 08:00	17° <b>Ω</b> 06'54			12341 Jan 06 06:31	0° <b>≈</b>	
inferior conj	12338 Jul 26 23:51	14° <b>Ω</b> 20′21	5°52'57	evening rise	12341 Jan 24 19:48	22° <b>≈</b> 50'56	
minimum elong	12338 Jul 27 10:48	14° <b>Ω</b> 03'36	5°49'30		12341 Jan 30 15:19	0° <b>∀</b>	
min. Earth dist.	12338 Jul 27 08:21	14° <b>Ω</b> 07′20	0.27022 AU	desc. node	12341 Feb 03 23:19	5° <b>)</b> 19'41	
morning rise	12338 Aug 01 13:30	11° <b>Ω</b> 02'55			12341 Feb 24 01:18	0° <b>Υ</b>	
direct	12338 Aug 16 16:10	6° <b>Ω</b> 33'23			12341 Mar 20 11:51	0° <b>X</b>	
desc. node	12338 Aug 20 09:52	6° <b>Ω</b> 49'49	4.0		12341 Apr 13 23:11	0° <b>©</b>	
greatest brilliancy	12338 Aug 26 18:46 12338 Sep 26 21:37	8° <b>Ω</b> 27'26 0° <b>m</b>	-4.9m	asc. node	12341 May 08 13:38 12341 May 27 18:19	23°508'23	
morning max el	12338 Sep 26 21.37 12338 Oct 05 14:15	0 100 8°M0 15′00	46°25'43	asc. nouc	12341 May 27 18.19 12341 Jun 02 12:22	23 <b>3</b> 08 23 0°Ω	
morning max or	12338 Oct 26 13:39	0∘ <del>⊽</del>	10 23 13		12341 Jun 28 05:35	0° m)	
	12338 Nov 22 10:20	0°M			12341 Jul 25 19:04	0∘ <b>⊽</b>	
asc. node	12338 Dec 11 09:15	21°M59'33		evening max el	12341 Jul 28 16:21	2° <b>ჲ</b> 55'30	46°42'53
	12338 Dec 18 04:25	0° <b>∡</b> ¹			12341 Aug 30 10:14	$0^{\circ}$ M	
	12339 Jan 12 07:37	0°ප		greatest brilliancy	12341 Sep 05 20:21	3° <b>™</b> 04′29	-4.8m
	12339 Feb 06 01:32	0° <b>≈</b>		retrograde	12341 Sep 16 22:20	5°M20'19	
	12339 Mar 02 13:26	0° <b>)</b> €		desc. node	12341 Sep 16 19:19	5°M20'18	
dogo r-J-	12339 Mar 26 21:05	0° <b>Υ</b>		evening set	12341 Oct 02 04:13	0° <b>ጤ</b> 47'07	
desc. node	12339 Apr 02 01:31	7° <b>Y</b> 39'33			12341 Oct 03 13:22	30° <b>₹</b> Ω	

· Patra	12241 0 + 07 04 27	270 0 40127	0.070/7.411	1.1:1	12244 F. L. 26, 12.20	120 <b>V</b> 46150	
min. Earth dist.	12341 Oct 07 04:27		0.27867 AU	behind sun begin behind sun end	12344 Feb 26 12:38	13° <b>)</b> 46′59 15° <b>)</b> 01′45	
inferior conj	12341 Oct 08 01:25	27° <b>£</b> 16'14		desc. node	12344 Feb 27 12:49	15° <del>X</del> 01′45 21° <del>X</del> 13′50	
minimum elong	12341 Oct 07 15:38	27° <b>♀</b> 31'20 24° <b>♀</b> 13'27	5-0043	desc. node	12344 Mar 10 15:20	21° <b>π</b> 13′30′ 0° <b>Υ</b>	
morning rise direct	12341 Oct 13 03:47 12341 Oct 29 02:51	19° <b>£</b> 22'34			12344 Mar 10 15:20	0°8	
greatest brilliancy	12341 Oct 29 02.31 12341 Nov 07 13:33	19 <b>≥</b> 22 34 21° <b>♀</b> 00'35	1 9m	evening rise	12344 Apr 03 20:07 12344 Apr 05 10:15	1° <b>8</b> 58'23	
greatest offinality	12341 Nov 24 04:37	0°M.	-4.0111	evening rise	12344 Apr 03 10:13	0°Ⅱ	
morning max el	12341 Dec 17 00:30	19°M27'39	45°46'33		12344 May 22 01:35	0°©	
morning max ci	12341 Dec 27 14:48	0° <b>√</b>	43 4033		12344 Jun 15 05:31	0° <b>Ω</b>	
asc. node	12342 Jan 07 20:41	11° <b>×</b> 749'50		asc. node	12344 Jun 24 05:56	11° <b>Ω</b> 08'50	
use. Houe	12342 Jan 24 08:00	0°ਰ		use. Houe	12344 Jul 09 14:01	0° m)	
	12342 Feb 19 07:44	0° <b>≈</b>			12344 Aug 03 07:23	0∘ <del>⊽</del>	
	12342 Mar 16 11:31	0° <b>∀</b>			12344 Aug 28 17:34	0° <b>M</b>	
	12342 Apr 10 03:51	$0^{\circ}\Upsilon$			12344 Sep 24 15:46	0° <b>∡</b> ⊓	
desc. node	12342 Apr 29 15:30	23° <b>Y</b> ′58'14		evening max el	12344 Oct 07 18:04	13° <b>∡</b> ¹25′02	46°10'53
	12342 May 04 12:29	0°B		desc. node	12344 Oct 14 04:56	19° <b>∡</b> ³35'43	
	12342 May 28 15:28	$\Pi^{\circ}0$			12344 Oct 26 04:50	ರ∘ರ	
morning set	12342 Jun 16 22:01	24° <b>Ⅱ</b> 06'50		greatest brilliancy	12344 Nov 16 00:29	12° <b>る</b> 34'30	-4.8m
	12342 Jun 21 14:43	0°©		retrograde	12344 Nov 26 06:03	14° <b>る</b> 29'37	
	12342 Jul 15 12:22	$0^{\circ}\Omega$		evening set	12344 Dec 14 14:05	8° <b>る</b> 12'28	
				inferior conj	12344 Dec 17 19:02	6° <b>る</b> 12'56	-8°32'38
superior conj	12342 Jul 26 21:00	14° <b>Ω</b> 15′19	-0°55'06	minimum elong	12344 Dec 17 23:39	6° <b>ප</b> 05'41	8°31'26
minimum elong	12342 Jul 27 08:21	14° <b>Ω</b> 50'55	0°55'21	min. Earth dist.	12344 Dec 17 19:53	6° <b>る</b> 11'36	0.28981 AU
max. Earth dist.	12342 Jul 28 07:33	16° <b>Ω</b> 03'37	1.71463 AU	morning rise	12344 Dec 21 09:13	3° <b>る</b> 59'19	
	12342 Aug 08 10:23	0° <b>™</b>			12344 Dec 29 03:23	30°Ŗ <b>⋌</b> ¹	
asc. node	12342 Aug 20 06:19	14° <b>M</b> 48'36		direct	12345 Jan 08 04:23	27° <b>₹</b> ′59′13	
	12342 Sep 01 10:09	0∘ <b>⊽</b>		greatest brilliancy	12345 Jan 18 16:46	29° <b>₹</b> ′59′18	-4.7m
evening rise	12342 Sep 04 14:54	3° <b>₽</b> 59'23			12345 Jan 18 17:31	0°ප	
	12342 Sep 25 12:40	0°M₊		asc. node	12345 Feb 04 06:58	9° <b>る</b> 24'52	
	12342 Oct 19 19:21	0° <b>∡</b>		morning max el	12345 Feb 26 07:59	28° <b>පි</b> 36'21	45°51'22
	12342 Nov 13 08:33	0°ಕ			12345 Feb 27 18:04	0° <b>≈</b>	
	12342 Dec 08 07:23	0° <b>≈</b>			12345 Mar 28 00:24	0° <b>∀</b>	
desc. node	12342 Dec 09 23:57	2°≈00'42			12345 Apr 23 01:54	0° <b>Υ</b>	
	12343 Jan 02 19:47	0° <b>)</b> €			12345 May 18 04:03	0°8	
	12343 Jan 29 04:55	0°Υ •••		desc. node	12345 May 27 04:54	10° <b>8</b> 58'52	
	12343 Feb 26 08:53	0°8 4°822'21	46910121		12345 Jun 11 17:09	0° <b>©</b>	
evening max el	12343 Mar 02 18:44	_	46°10'21		12345 Jul 05 22:40	0° <b>U</b>	
asc. node	12343 Apr 02 00:11 12343 Apr 03 05:11	29° <b>8</b> 17'30 0° <b>Ⅱ</b>			12345 Jul 30 00:24		
greatest brilliancy	12343 Apr 03 03.11 12343 Apr 11 14:36	3° <b>П</b> 55'00	4 8m	morning set	12345 Aug 23 01:05 12345 Aug 30 02:51	0° <b>т)</b> 8° <b>т)</b> 49'44	
retrograde	12343 Apr 21 07:48	5° <b>Ⅱ</b> 40'48	-4.0111	morning set	12345 Aug 30 02:31 12345 Sep 16 02:16	0∘ <b>⊽</b>	
evening set	12343 May 08 03:30	0° <b>Ц</b> 14'15		asc. node	12345 Sep 16 02:10	0° <b>≏</b> 56'36	
evening set	12343 May 08 13:10	30°R <b>8</b>		asc. node	12545 Sep 10 20.27	0 = 3030	
inferior conj	12343 May 12 03:12	27° <b>8</b> 48'22	8°15'28	superior conj	12345 Oct 07 21:22	27° <b>≏</b> 08'11	0°48'14
minimum elong	12343 May 11 18:21	28° <b>8</b> 02'07		minimum elong	12345 Oct 07 11:53	26° <b>♀</b> 38'43	0°48'09
min. Earth dist.	12343 May 12 04:24	27° <b>8</b> 46'29	0.27534 AU	max. Earth dist.	12345 Oct 10 00:26	29° <b>Ω</b> 46'57	1.72381 AU
morning rise	12343 May 15 09:05	25° <b>8</b> 48'30			12345 Oct 10 04:38	0° <b>M</b>	
direct	12343 Jun 02 00:12	19° <b>8</b> 50'08			12345 Nov 03 08:45	0° <b>∡</b> ¹	
greatest brilliancy	12343 Jun 11 22:33	21° <b>8</b> 41'16	-4.9m	evening rise	12345 Nov 14 04:37	13° <b>₹</b> 23'53	
	12343 Jun 26 21:39	$\Pi^{\circ}0$		-	12345 Nov 27 15:36	ರ∘ರ	
morning max el	12343 Jul 22 11:25	22° <b>II</b> 36'57	46°58'08		12345 Dec 22 02:30	0° <b>≈</b>	
desc. node	12343 Jul 23 01:56	23° <b>Ⅲ</b> 13'32		desc. node	12346 Jan 06 12:05	18° <b>≈</b> 45'56	
	12343 Jul 29 15:43	$0$ $\circ$ $\odot$			12346 Jan 15 18:22	0° <b>∀</b>	
	12343 Aug 25 20:24	$0^{\circ}\Omega$			12346 Feb 09 15:36	$0^{\circ}$ Y	
	12343 Sep 20 14:05	0° <b>m</b> )			12346 Mar 06 19:17	$0^{\circ}$ 8	
	12343 Oct 15 17:38	0∘ <b>亚</b>			12346 Apr 01 10:06	$\Pi$ °0	
	12343 Nov 09 13:47	$0^{\circ}$ M.			12346 Apr 28 02:38	$0$ $\circ$	
asc. node	12343 Nov 12 22:27	4°M04'50		asc. node	12346 Apr 29 09:51	1° <b>5</b> 24'28	
	12343 Dec 04 04:51	0° <b>∡</b> ′		evening max el	12346 May 14 14:52	17° <b>©</b> 15'49	46°42'56
	12343 Dec 28 16:14	0°ಕ			12346 May 28 02:19	$0$ $^{\circ}\Omega$	
morning set	12344 Jan 20 11:42	28° <b>る</b> 04'18		greatest brilliancy	12346 Jun 24 01:41	17° <b>Ω</b> 52'39	-4.9m
	12344 Jan 22 01:15	0° <b>≈</b>		retrograde	12346 Jul 03 20:42	19° <b>Ω</b> 41'25	
	12344 Feb 15 08:55	0° <b>)</b> {		evening set	12346 Jul 20 00:13	14° <b>Ω</b> 36'51	
max. Earth dist.	12344 Feb 25 02:42	12° <b>米</b> 02′08	1.72896 AU	inferior conj	12346 Jul 24 12:33	11° <b>Ω</b> 55'14	
	1004477	1.403/44 ***	0010122	minimum elong	12346 Jul 24 23:41	11° <b>Ω</b> 38'15	
superior conj	12344 Feb 26 21:32	14° <b>)</b> 14′29		min. Earth dist.	12346 Jul 24 21:19	11° <b>Ω</b> 41'51	0.27031 AU
minimum elong	12344 Feb 27 00:44	14° <b>∺</b> 24'22	0~13.20	morning rise	12346 Jul 29 23:06	8° <b>Ω</b> 42'22	

direct	12346 Aug 14 05:28	4° <b>Ω</b> 08'01			12349 Mar 19 23:12	0°8	
desc. node	12346 Aug 19 11:47	4°Ω40'26			12349 Apr 13 10:58	0°II	
greatest brilliancy	12346 Aug 24 07:11	6° <b>Ω</b> 01'59	-4 9m		12349 May 08 02:07	0°©	
greatest offinality	12346 Sep 27 00:27	0° <b>m</b> )	- <del>4</del> .7III	asc. node	12349 May 26 20:14	22° <b>9</b> 34'15	
morning max el	12346 Oct 03 05:05	5° Mp 56'55	46°27'18	asc. node	12349 Jun 02 02:02	0°Ω	
morning max cr	12346 Oct 26 06:48	0∘ <b>⊽</b>	40 27 10		12349 Jun 27 21:32	0° <b>m</b> )	
	12346 Nov 22 00:18	o° <b>m</b> .			12349 Jul 25 16:56	0∘ <b>ಹ</b>	
asc. node	12346 Dec 10 11:05	21°M27'26		evening max el	12349 Jul 26 06:48	ი° <b>-</b> 0° <b>-</b> 34'54	46°43'27
use. Houe	12346 Dec 17 16:52	0° <b>%</b>		evening max er	12349 Sep 01 15:32	0° <b>™</b> .	10 13 27
	12347 Jan 11 19:13	0°ਰ		greatest brilliancy	12349 Sep 03 12:09	0°M46'24	-4.8m
	12347 Feb 05 12:38	0° <b>≈</b>		retrograde	12349 Sep 14 12:37	3°ML00'53	
	12347 Mar 02 00:17	0° <b>)</b> €		desc. node	12349 Sep 15 21:24	2°M58'39	
	12347 Mar 26 07:50	0°Υ			12349 Sep 26 19:45	30° <b>RΩ</b>	
morning set	12347 Mar 31 17:30	6° <b>Ƴ</b> 41'26		evening set	12349 Sep 29 16:27	28° <b>£</b> 31'36	
desc. node	12347 Apr 01 03:27	7° <b>Υ</b> 12'15		min. Earth dist.	12349 Oct 04 19:23	25° <b>£</b> 29'19	0.27809 AU
	12347 Apr 19 11:49	0°B		inferior conj	12349 Oct 05 15:40	24° <b>£</b> 57'58	-4°45'10
max. Earth dist.	12347 May 07 11:22	22° <b>8</b> 25'51	1.71796 AU	minimum elong	12349 Oct 05 06:15	25° <b>♀</b> 12'32	4°42'21
	,			morning rise	12349 Oct 10 20:44	21° <b>≏</b> 51'14	
superior conj	12347 May 10 10:43	26° <b>8</b> 08'50	-1°17'43	direct	12349 Oct 26 16:34	17° <b>£</b> 05'11	
minimum elong	12347 May 10 01:09	25° <b>8</b> 38'58		greatest brilliancy	12349 Nov 05 03:38	18° <b>≏</b> 43'12	-4.8m
8	12347 May 13 12:37	0°II		8	12349 Nov 24 21:12	0° <b>M</b>	
	12347 Jun 06 11:15	0°9		morning max el	12349 Dec 14 13:24	17° <b>ML</b> 08'11	45°47'17
evening rise	12347 Jun 19 09:31	16° <b>©</b> 12'58		. 8	12349 Dec 27 09:52	0° <b>∡</b> ¹	
8 21	12347 Jun 30 09:26	0°N		asc. node	12350 Jan 06 22:36	11° <b>∡</b> ¹09'33	
asc. node	12347 Jul 22 18:32	27° <b>Ω</b> 59'27			12350 Jan 23 22:40	0°ප	
	12347 Jul 24 09:11	0° m/			12350 Feb 18 20:36	0° <b>≈</b>	
	12347 Aug 17 12:29	0∘ <del>⊽</del>			12350 Mar 15 23:30	0° <b>)</b> €	
	12347 Sep 10 21:41	0° <b>M</b> .			12350 Apr 09 15:21	0°Υ	
	12347 Oct 05 16:44	0° <b>∡</b> ¹		desc. node	12350 Apr 28 17:29	23° <b>Y</b> ′29'37	
	12347 Oct 31 04:55	ರ°0			12350 May 03 23:42	$9^{\circ}$ 8	
desc. node	12347 Nov 11 14:53	13° <b>ට</b> 00'28			12350 May 28 02:31	0°II	
	12347 Nov 27 01:07	0° <b>≈</b>		morning set	12350 Jun 14 09:40	21° <b>Ⅱ</b> 38'29	
evening max el	12347 Dec 18 22:42	22° <b>≈</b> 24'36	45°52'04	. 8	12350 Jun 21 01:40	0°9	
S							
	12347 Dec 27 03:15	0° <b>∀</b>			12350 Jul 14 23:19	$0^{\circ}\Omega$	
greatest brilliancy	12347 Dec 27 03:15 12348 Jan 26 22:08	0° <b> </b>	-4.8m		12350 Jul 14 23:19	$0^{\circ}\Omega$	
	12347 Dec 27 03:15 12348 Jan 26 22:08 12348 Feb 05 19:15		-4.8m	superior conj	12350 Jul 14 23:19 12350 Jul 24 09:11	0° <b>Ω</b> 11° <b>Ω</b> 48'38	-0°58'02
retrograde	12348 Jan 26 22:08	20° <b>)</b> 38'05 22° <b>)</b> 24'18	-4.8m	superior conj minimum elong			
retrograde evening set	12348 Jan 26 22:08 12348 Feb 05 19:15	20° <b>)</b> 38′05		superior conj minimum elong max. Earth dist.	12350 Jul 24 09:11	11° <b>Ω</b> 48'38 12° <b>Ω</b> 24'52	
retrograde evening set inferior conj	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40	20° <b>¥</b> 38'05 22° <b>¥</b> 24'18 17° <b>¥</b> 59'23	-1°25'22	minimum elong	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58	11° <b>Ω</b> 48'38	0°58'19
retrograde evening set	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03	20°\(\frac{1}{3}8'05\) 22°\(\frac{1}{2}4'18\) 17°\(\frac{1}{5}9'23\) 14°\(\frac{1}{1}9'46\) 14°\(\frac{1}{4}14'47\)	-1°25'22	minimum elong	12350 Jul 24 09:11 12350 Jul 24 20:44	11° N 48'38 12° N 24'52 13° N 18'55 0° M	0°58'19
retrograde evening set inferior conj minimum elong	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14	20° \times 38'05 22° \times 24'18 17° \times 59'23 14° \times 19'46 14° \times 14'47 14° \times 04'11	-1°25'22 1°24'04	minimum elong max. Earth dist.	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14	11°Ω48'38 12°Ω24'52 13°Ω18'55	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41	20°\(\frac{1}{3}8'05\) 22°\(\frac{1}{2}4'18\) 17°\(\frac{1}{5}9'23\) 14°\(\frac{1}{1}9'46\) 14°\(\frac{1}{4}14'47\)	-1°25'22 1°24'04	minimum elong max. Earth dist. asc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09	11° N 48'38 12° N 24'52 13° N 18'55 0° M 14° M 20'17	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist.	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27	20°\(\frac{3}{3}\)8'05 22°\(\frac{2}{2}\)1'18 17°\(\frac{5}{5}\)9'23 14°\(\frac{1}{1}\)1'46 14°\(\frac{1}{1}\)1'47 14°\(\frac{1}{1}\)1'11 10°\(\frac{1}{5}\)2'02	-1°25'22 1°24'04	minimum elong max. Earth dist.	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29	11° Ω48'38 12° Ω24'52 13° Ω18'55 0° m 14° m 20'17 0° Ω 1° Ω37'42	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12	20°\(\frac{3}{3}8'\)05 22°\(\frac{2}{2}4'\)18 17°\(\frac{1}{5}9'\)23 14°\(\frac{1}{1}9'\)46 14°\(\frac{1}{1}4'\)17 14°\(\frac{1}{1}0'\)17 10°\(\frac{1}{5}2'\)02 10°\(\frac{1}{3}3'\)35	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45	11° Ω48'38 12° Ω24'52 13° Ω18'55 0° m 14° m 20'17 0° Ω 1° Ω37'42 0° M	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27	20°\(\center{\center{4}}\)38'05 22°\(\center{\center{4}}\)24'18 17°\(\center{\center{5}}\)59'23 14°\(\center{\center{1}}\)19'46 14°\(\center{\center{1}}\)14'47 14°\(\center{\center{6}}\)04'11 10°\(\center{\center{5}}\)52'02 10°\(\center{\center{1}}\)31'35 6°\(\center{\center{1}}\)10'11	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37	11° Ω48'38 12° Ω24'52 13° Ω18'55 0° m 14° m 20'17 0° Ω 1° Ω37'42	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Nov 12 20:10	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° \$\mathred{m}\$\text{20'17} 0° \$\Omega \text{1}\$ 1° \$\Omega 37'42 0° \$\mathred{m}\$\text{0}" \$\text{\texi\text{\text{\text{\texi\texi{\text{\texi\texi{\text{\texite	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36	20° \( \) 38'05 22° \( \) 24'18 17° \( \) 59'23 14° \( \) 19'46 14° \( \) 14'47 14° \( \) 04'11 10° \( \) 52'02 10° \( \) 31'35 6° \( \) 10'11 8° \( \) 19'39 0° \( \) 8° \( \) 13'52	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° \$\mathred{m}\$\text{18'55} 14° \$\mathred{m}\$\text{20'17} 0° \$\Omega\$ 1° \$\Omega 37'42 0° \$\mathred{m}\$. 0° \$\nall \text{0°}\$	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node evening rise	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Nov 12 20:10 12350 Dec 07 19:39	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° \$\mathbf{m}\$ 14° \$\mathbf{m}\$ 20'17 0° \$\Omega\$ 1° \$\Omega 37'42 0° \$\mathbf{m}\$ 0° \$\stacksquare{\Sigma}\$ 0° \$\Stacksquare{\Sigma}\$ 0° \$\Stacksquare{\Sigma}\$	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28	20°\()38'05 22°\()\(24'18\) 17°\()\(59'23\) 14°\()\(19'46\) 14°\()\(14'47\) 14°\()\(04'11\) 10°\()\(52'02\) 10°\()\(31'35\) 6°\()\(10'11\) 8°\(\)\(19'39\) 0°\(\)\(\) 8°\(\)\(13'52\) 0°\(\)\(\)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node evening rise	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Nov 12 20:10 12350 Dec 07 19:39 12350 Dec 09 01:50	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° \$\mathbf{m}\$ 14° \$\mathbf{m}\$ 20'17 0° \$\Omega\$ 1° \$\Omega 37'42 0° \$\mathbf{m}\$ 0° \$\omega\$ 0° \$\omega\$ 0° \$\omega\$ 1° \$\approx 29'39	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \) 8°\( \) 13'52 0°\( \) 29°\( \) 32'06	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node evening rise	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Nov 12 20:10 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° \$\mathbf{m}\$ 14° \$\mathbf{m}\$ 20'17 0° \$\Omega\$ 1° \$\Omega 37'42 0° \$\mathbf{m}\$ 0° \$\omega\$ 0° \$\simeq\$ 1° \$\infty 29'39 0° \$\omega\$	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59 12348 Jun 24 02:30	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \) 8°\( \) 13'52 0°\( \) 29°\( \) 32'06 0°\( \) 1	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node evening rise	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp 20'17 0° \overline{\Omega} 1° \overline{\Omega}37'42 0° m. 0° \$\structure{\Omega} 0° \$\structure{\Omega} 1° \$\approx 29'39 0° \$\mathred{\Omega} 0° \$\mathred{\Omega} 0° \$\mathred{\Omega}	0°58'19
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \) 8°\( \) 13'52 0°\( \) 29°\( \) 32'06 0°\( \) 1 0°\( \)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist. asc. node evening rise  desc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp 20'17 0° \overline{\Omega} 1° \overline{\Omega}37'42 0° ml 0° \$\structure{\Omega} 0° \$\structure{\Omega} 1° \$\infty 29'39 0° \overline{\Omega} 0° \cong \overline{\Omega}	0°58'19 1.71449 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45	20°\( \) 38'05 22°\( \) 24'18 17°\( \) 59'23 14°\( \) 19'46 14°\( \) 14'47 14°\( \) 04'11 10°\( \) 52'02 10°\( \) 31'35 6°\( \) 10'11 8°\( \) 19'39 0°\( \) 8°\( \) 13'52 0°\( \) 29°\( \) 32'06 0°\( \) 1 0°\( \) 0°\( \) 0°\( \)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist.  asc. node evening rise  desc. node	12350 Jul 24 09:11 12350 Jul 24 20:44 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Feb 28 07:46	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp20'17 0° \Pi 1° \Pi37'42 0° m. 0° \$\tilde{x}'	0°58'19 1.71449 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26	20° \( \) 38'05 22° \( \) 24'18 17° \( \) 59'23 14° \( \) 19'46 14° \( \) 14'47 14° \( \) 04'11 10° \( \) 52'02 10° \( \) 31'35 6° \( \) 10'11 8° \( \) 19'39 0° \( \) 29° \( \) 32'06 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \) 0° \( \)	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist.  asc. node evening rise  desc. node evening max el asc. node	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Apr 01 02:19 12351 Apr 01 02:19	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp20'17 0° \Pi 1° \Pi37'42 0° m. 0° \$\tilde{x}' 2° \$\tilde{x}' 0° \$\tilde{x}' 10° \$\tilde	0°58'19 1.71449 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 28 20:28 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10	20° ¥38'05 22° ¥24'18 17° ¥59'23 14° ¥19'46 14° ¥14'47 14° ¥04'11 10° ¥52'02 10° ¥31'35 6° ¥10'11 8° ¥19'39 0° ♀ 8° ♀13'52 0° ¥ 29° ♥32'06 0° Ⅲ 0° ♀ 0° ♠ 0° ⋒ 0° ⋒ 0° ⋒	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist.  asc. node evening rise  desc. node evening max el asc. node greatest brilliancy	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Apr 01 02:19 12351 Apr 05 08:06 12351 Apr 09 04:00	11° \$\Omega 48'38 12° \$\Omega 24'52 13° \$\Omega 18'55 0° mp 14° mp 20'17 0° \omega 1° \omega 37'42 0° m. 0° \$\omega '' 0° \$\omega 0° \$\omega '' 0° \$\omega 0° \$\omeg	0°58'19 1.71449 AU 46°09'20
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10 12348 Oct 14 10:42	20° ★38'05 22° ★24'18 17° ★59'23 14° ★19'46 14° ★14'47 14° ★04'11 10° ★52'02 10° ★31'35 6° ★10'11 8° ★19'39 0° ♀ 8° ♀13'52 0° ★ 29° ♂32'06 0° Ⅲ 0° ♀ 0° ♠ 0° ♠ 17° ♠06'36	-1°25'22 1°24'04 0.28230 AU	minimum elong max. Earth dist.  asc. node evening rise  desc. node evening max el asc. node	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Apr 01 02:19 12351 Apr 01 02:19	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp20'17 0° \Pi 1° \Pi37'42 0° m. 0° \$\tilde{\Pi} 1° \$\tilde{\Pi} 29'39 0° \$\tilde{\Pi} 0° \$\tilde{\Pi} 2° \$\tilde{\Pi} 00'44 27° \$\tilde{\Pi} 49'11 0° \$\Pi 1° \$\Pi 33'18	0°58'19 1.71449 AU 46°09'20
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retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node  asc. node  superior conj minimum elong	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 08 05:24 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10 12348 Oct 14 10:42 12348 Nov 18 03:26 12348 Nov 18 03:26 12348 Dec 16 06:40 12348 Dec 16 06:40 12348 Dec 16 10:28 12348 Dec 16 10:28 12348 Dec 17 13:36	20° ¥38'05 22° ¥24'18 17° ¥59'23 14° ¥19'46 14° ¥14'47 14° ¥04'11 10° ¥52'02 10° ¥31'35 6° ¥10'11 8° ¥19'39 0° ♀ 8° ♀13'52 0° ♥ 29° ₭32'06 0° Ⅲ 0° © 0° № 0° № 17° №06'36 0° № 19° №06'32 4° ₹346'32 4° ₹58'16 6° ₹22'03	-1°25'22 1°24'04 0.28230 AU -4.8m 46°33'14	minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el asc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Feb 28 07:46 12351 Apr 01 02:19 12351 Apr 05 08:06 12351 Apr 09 04:00 12351 Apr 18 21:12 12351 May 01 19:20 12351 May 09 17:02 12351 May 09 07:39 12351 May 09 17:02 12351 May 09 18:07	11° Ω48'38 12° Ω24'52 13° Ω18'55 0° m 14° my20'17 0° Ω 1° Ω37'42 0° m 0° ¾ 0° ¾ 0° ¾ 0° ¾ 0° ¥ 0° ¥ 2° ႘00'44 27° ႘49'11 0° Π 1° Π33'18 3° Π19'29 30° ¾ 27° ႘58'46 25° ႘26'42 25° ႘26'42 25° ႘26'42 25° ႘21'59 17° ႘27'53	0°58'19 1.71449 AU 46°09'20 -4.8m 8°04'43 8°02'37 0.27549 AU
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node  asc. node  superior conj minimum elong max. Earth dist.	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 08 05:24 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10 12348 Oct 14 10:42 12348 Oct 24 21:04 12348 Nov 18 03:26 12348 Dec 16 06:40 12348 Dec 16 06:40 12348 Dec 16 10:28 12348 Dec 17 13:36 12349 Jan 05 17:16	20° ¥38'05 22° ¥24'18 17° ¥59'23 14° ¥19'46 14° ¥14'47 14° ¥04'11 10° ¥52'02 10° ¥31'35 6° ¥10'11 8° ¥19'39 0° ♀ 8° ♀13'52 0° ♥ 29° ♥32'06 0° Ⅲ 0° ♀ 0° Ω 0° № 17° ♀06'36 0° № 19° №06'22 0° ♂ 4° ₹46'32 4° ₹58'16 6° ₹22'03 0° ≈	-1°25'22 1°24'04 0.28230 AU -4.8m 46°33'14	minimum elong max. Earth dist.  asc. node evening rise  desc. node  evening max el asc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 24 23:45 12350 Oct 19 06:37 12350 Dec 07 19:39 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Feb 28 07:46 12351 Apr 01 02:19 12351 Apr 05 08:06 12351 Apr 09 04:00 12351 Apr 18 21:12 12351 May 01 19:20 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 07:39 12351 May 09 18:07 12351 May 09 18:07 12351 May 09 13:21 12351 May 09 13:23	11° Ω48'38 12° Ω24'52 13° Ω18'55 0° mp 14° mp20'17 0° Ω 1° Ω37'42 0° m. 0° ¾ 0° ੴ 0° % 1° ≈29'39 0° ¾ 0° Ŷ 0° ¥ 2° ℧00'44 27° ℧49'11 0° II 1° II 33'18 3° II 19'29 30° R℧ 27° ℧58'46 25° ℧26'42 25° ℧26'42 25° ℧26'42 25° ℧21'59 17° ℧27'53 19° ℧20'11	0°58'19 1.71449 AU 46°09'20 -4.8m 8°04'43 8°02'37 0.27549 AU -4.9m
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node  asc. node  superior conj minimum elong max. Earth dist.	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 26 23:03 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 08 05:24 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10 12348 Oct 14 10:42 12348 Oct 24 21:04 12348 Nov 18 03:26 12348 Dec 16 06:40 12348 Dec 16 06:40 12348 Dec 16 10:28 12348 Dec 17 13:36 12349 Jan 05 17:16 12349 Jan 05 17:16	20° ¥38'05 22° ¥24'18 17° ¥59'23 14° ¥19'46 14° ¥14'47 14° ¥04'11 10° ¥52'02 10° ¥31'35 6° ¥10'11 8° ¥19'39 0° ♀ 8° ♀13'52 0° ♥ 29° ♥32'06 0° Ⅲ 0° © 0° № 0° № 17° №06'36 0° № 19° №06'22 0° ♂ 0° ™ 0° © 4° ₹46'32 4° ₹58'16 6° ₹22'03 0° ≈ 20° ≈ 39'40	-1°25'22 1°24'04 0.28230 AU -4.8m 46°33'14	minimum elong max. Earth dist.  asc. node  evening rise  desc. node  evening max el asc. node  greatest brilliancy retrograde  evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 02 04:29 12350 Nov 12 20:10 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Feb 28 07:46 12351 Apr 01 02:19 12351 Apr 05 08:06 12351 Apr 09 04:00 12351 Apr 18 21:12 12351 May 01 19:20 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 18:07 12351 May 09 13:23 12351 May 09 13:23 12351 Jun 09 13:23 12351 Jun 09 13:23	11° \$\alpha 48'38 12° \$\alpha 24'52 13° \$\alpha 18'55 0° mp 14° mp 20'17 0° \( \oldsymbol{\Omega} \) 1° \( \oldsymbol{\Omega} 37'42 0° \( \oldsymbol{\Omega} \) 0° \$\oldsymbol{\Omega} \) 2° \$\oldsymbol{\Omega} \) 1° \$\oldsymbol{\Omega} 49'11 0° \$\oldsymbol{\Omega} \) 1° \$\oldsymbol{\Omega} 49'11 0° \$\oldsymbol{\Omega} 27° \$\oldsymbol{\Omega} 58'46 25° \$\oldsymbol{\Omega} 26'42 25° \$\oldsymbol{\Omega} 41'16 25° \$\oldsymbol{\Omega} 25'00 23° \$\oldsymbol{\Omega} 21'59 17° \$\oldsymbol{\Omega} 27'53 19° \$\oldsymbol{\Omega} 20'11 0° \$\oldsymbol{\Omega} \)	0°58'19 1.71449 AU 46°09'20 -4.8m 8°04'43 8°02'37 0.27549 AU -4.9m
retrograde evening set inferior conj minimum elong min. Earth dist. asc. node morning rise direct greatest brilliancy morning max el desc. node  asc. node  superior conj minimum elong max. Earth dist. evening rise	12348 Jan 26 22:08 12348 Feb 05 19:15 12348 Feb 20 20:40 12348 Feb 27 02:14 12348 Feb 27 02:14 12348 Feb 27 09:01 12348 Mar 03 16:41 12348 Mar 04 07:27 12348 Mar 19 05:12 12348 Mar 29 23:36 12348 Apr 29 16:22 12348 May 08 05:24 12348 May 08 05:24 12348 Jun 23 16:59 12348 Jun 24 02:30 12348 Jul 19 05:46 12348 Aug 12 20:45 12348 Sep 06 06:26 12348 Sep 30 14:10 12348 Oct 14 10:42 12348 Oct 24 21:04 12348 Nov 18 03:26 12348 Dec 16 06:40 12348 Dec 16 06:40 12348 Dec 16 10:28 12348 Dec 17 13:36 12349 Jan 05 17:16 12349 Jan 22 11:58 12349 Jan 30 02:11	20° ¥38'05 22° ¥24'18 17° ¥59'23 14° ¥19'46 14° ¥14'47 14° ¥04'11 10° ¥52'02 10° ¥31'35 6° ¥10'11 8° ¥19'39 0° ♀ 29° ♥32'06 0° Ⅲ 0° ♀ 0° ♀ 17° ♀06'36 0° № 19° №06'22 0° ♂ 4° ♥46'32 4° ♥58'16 6° ♥22'03 0° ≈ 20° ≈ 39'40 0° ¥	-1°25'22 1°24'04 0.28230 AU -4.8m 46°33'14	minimum elong max. Earth dist.  asc. node  evening rise  desc. node  evening max el asc. node  greatest brilliancy retrograde  evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12350 Jul 24 09:11 12350 Jul 25 13:58 12350 Aug 07 21:21 12350 Aug 19 08:14 12350 Aug 31 21:09 12350 Sep 02 04:29 12350 Sep 02 04:29 12350 Nov 12 20:10 12350 Dec 07 19:39 12350 Dec 09 01:50 12351 Jan 02 09:14 12351 Jan 28 20:41 12351 Feb 26 06:40 12351 Feb 28 07:46 12351 Apr 01 02:19 12351 Apr 05 08:06 12351 Apr 09 04:00 12351 Apr 18 21:12 12351 May 01 19:20 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 17:02 12351 May 09 18:07 12351 May 13 02:13 12351 May 30 13:40 12351 Jun 09 13:23 12351 Jun 09 13:23 12351 Jun 09 13:23	11° \$\Pi48'38 12° \$\Pi24'52 13° \$\Pi18'55 0° mp 14° mp20'17 0° \Pi 1° \Pi37'42 0° m. 0° \$\tilde{\Pi} 1° \$\Pi33'18 3° \$\Pi19'29 30° \$\tilde{\Pi} 27° \$\tilde{\Pi}8'49'11 0° \$\Pi 1° \$\Pi33'18 3° \$\Pi19'29 30° \$\tilde{\Pi} 27° \$\tilde{\Pi}8'49'11 0° \$\Pi 1° \$\Pi33'18 3° \$\Pi19'29 30° \$\tilde{\Pi} 27° \$\tilde{\Pi}8'21'59 17° \$\tilde{\Pi}27'53 19° \$\tilde{\Pi}20'11 0° \$\Pi 20° \$\Pi113'39	0°58'19 1.71449 AU 46°09'20 -4.8m 8°04'43 8°02'37 0.27549 AU -4.9m

	12351 Aug 25 11:46	0° <b>N</b>			12354 Apr 01 00:48	0°II	
	12351 Sep 20 03:32	0° <b>m</b> )			12354 Apr 27 21:03	0°©	
	12351 Oct 15 06:01	0∘ <b>亚</b>		asc. node	12354 Apr 28 11:47	0°539'33	46040111
,	12351 Nov 09 01:29	0°M		evening max el	12354 May 12 05:12	14°954'45	46°42'11
asc. node	12351 Nov 12 00:18	3°M35'03			12354 May 28 10:15	0° <b>Ω</b> 15° <b>Ω</b> 27'47	4.0
	12351 Dec 03 16:08	0°♂ 5°0		greatest brilliancy	12354 Jun 21 14:55		-4.9m
	12351 Dec 28 03:14			retrograde	12354 Jul 01 10:12	17° <b>Ω</b> 16'18	
morning set	12352 Jan 18 04:31	25°る54'41 0°≈		evening set	12354 Jul 17 16:39	12° <b>Ω</b> 06'48	692011.4
	12352 Jan 21 12:07	0° <b>∺</b>		inferior conj minimum elong	12354 Jul 22 01:19	9° <b>Ω</b> 30'07 9° <b>Ω</b> 12'57	
max. Earth dist.	12352 Feb 14 19:44 12352 Feb 22 22:02	0° <b>X</b> 10° <b>X</b> 00'04	1.72924 AU	min. Earth dist.	12354 Jul 22 12:33 12354 Jul 22 10:12	9° <b>Ω</b> 16'33	0.27036 AU
max. Earm dist.	12332 Feb 22 22.02	10 X 00 04	1.72924 AU	morning rise	12354 Jul 27 08:29	6°Ω22'00	0.27030 AU
gunariar agni	12352 Feb 24 12:46	11° <b>¥</b> 59'44	0°17'05	direct	12354 Aug 11 18:53	1° <b>Ω</b> 42'58	
superior conj minimum elong	12352 Feb 24 12:40 12352 Feb 24 16:43	12° <b>H</b> 11'57		desc. node	12354 Aug 11 18:55 12354 Aug 18 13:51	2°Ω36'24	
desc. node	12352 Mar 02 15:08	20°\(\frac{1137}{46'17}	0 1/10		12354 Aug 18 13.31 12354 Aug 21 19:14	3° <b>Ω</b> 36'07	-4.9m
desc. node	12352 Mar 10 02:12	20 <b>γ</b> (4017		greatest brilliancy	12354 Aug 21 19:14 12354 Sep 27 01:45	0° <b>m</b> )	-4.9111
evening rise	12352 Mai 10 02:12 12352 Apr 03 00:37	29° <b>Υ</b> '39'54		morning max el	12354 Sep 30 19:26	3° Mp 37'47	46°28'54
evening rise	12352 Apr 03 00:57 12352 Apr 03 07:05	0° <b>8</b>		morning max ci	12354 Oct 25 23:31	ე∘ <b>ত</b>	40 20 34
	12352 Apr 03 07:03 12352 Apr 27 10:18	0°II			12354 Nov 21 14:05	0° <b>™</b>	
	12352 May 21 12:55	0°©		asc. node	12354 Dec 09 12:59	20°M55'40	
	12352 Jun 14 17:09	0° <b>U</b>		ase. Hode	12354 Dec 17 05:14	0° <b>⊼</b> ¹	
asc. node	12352 Jun 23 07:45	10° <b>Ω</b> 38'10			12355 Jan 11 06:50	0°ਰ	
asc. node	12352 Jul	0° <b>m</b> )			12355 Feb 04 23:48	0° <b>≈</b>	
	12352 Jul 07 02:00 12352 Aug 02 20:18	0∘ <del>ت</del> مار			12355 Mar 01 11:13	0° <b>∺</b>	
	12352 Aug 28 08:05	0° <b>™</b>			12355 Mar 25 18:39	0° <b>Υ</b>	
	12352 Nug 26 00:05	0° <b>∡</b> ⊓		morning set	12355 Mar 29 07:18	4° <b>Υ</b> 22'04	
evening max el	12352 Oct 05 08:58	11° <b>×</b> 709'39	46°11'57	desc. node	12355 Mar 31 05:20	6° <b>Υ</b> 44'39	
desc. node	12352 Oct 03 06:56	18° <b>×</b> 41'45	40 11 37	dese. Hode	12355 Apr 18 22:36	0°8	
dese. Hode	12352 Oct 15 00:50 12352 Oct 26 16:59	0°중		max. Earth dist.	12355 May 04 21:09		1.71831 AU
greatest brilliancy	12352 Nov 13 14:43	10°る21'09	-4.8m	max. Dartii dist.	12555 May 01 21.05	17 032 10	1.71031710
retrograde	12352 Nov 23 22:21	12°る18'11	1.0111	superior conj	12355 May 07 23:01	23° <b>8</b> 43'32	-1°15'54
evening set	12352 Dec 12 07:01	5° <b>る</b> 58'52		minimum elong	12355 May 07 12:57	23° <b>8</b> 12'06	
inferior conj	12352 Dec 15 10:53	4° <b>る</b> 01'10	-8°36'55		12355 May 12 23:26	0°II	
minimum elong	12352 Dec 15 14:46	3° <b>ප</b> 55'03			12355 Jun 05 22:06	0ංම	
min. Earth dist.	12352 Dec 15 10:24	4° <b>ට</b> 01'54	0.28981 AU	evening rise	12355 Jun 16 20:39	13°9643'11	
morning rise	12352 Dec 18 22:33	1° <b>る</b> 51'36		<i>8</i>	12355 Jun 29 20:22	$0^{\circ}\Omega$	
Ü	12352 Dec 22 04:13	30°R. <b>✓</b>		asc. node	12355 Jul 21 20:30	27° <b>Ω</b> 31'02	
direct	12353 Jan 05 20:12	25° <b>∡</b> ¹47'37			12355 Jul 23 20:16	0° <b>m</b> )	
greatest brilliancy	12353 Jan 16 07:37	27° <b>∡</b> °47′09	-4.7m		12355 Aug 16 23:46	0∘ <u>⊽</u>	
	12353 Jan 21 10:04	ರ°0			12355 Sep 10 09:19	0° <b>M</b> .	
asc. node	12353 Feb 03 08:59	8° <b>ප</b> 16'39			12355 Oct 05 05:01	0° <b>∡</b> ¹	
morning max el	12353 Feb 24 00:01	26° <b>පි</b> 24'27	45°50'25		12355 Oct 30 18:30	ರ∘ರ	
-	12353 Feb 27 15:15	0° <b>≈</b>		desc. node	12355 Nov 10 16:47	12° <b>る</b> 24'48	
	12353 Mar 27 15:48	0° <b>)</b>			12355 Nov 26 17:46	0° <b>≈</b>	
	12353 Apr 22 15:12	$0^{\circ}$ Y		evening max el	12355 Dec 16 13:53	20° <b>≈</b> 12'17	45°51'54
	12353 May 17 16:20	$_{0\circ}$ 8			12355 Dec 27 06:34	0° <b>∀</b>	
desc. node	12353 May 26 06:39	10° <b>8</b> 27'27		greatest brilliancy	12356 Jan 24 13:44	18° <b>¥</b> 25'33	-4.8m
	12353 Jun 11 04:53	$\Pi$ °0		retrograde	12356 Feb 03 09:43	20° <b>)</b> 10′39	
	12353 Jul 05 10:02	$0$ $\circ$ $\mathfrak{S}$		evening set	12356 Feb 18 13:26	15° <b>)</b> 43′40	
	12353 Jul 29 11:31	$0$ $^{\circ}$ $\Omega$		inferior conj	12356 Feb 24 14:19	12° <b>米</b> 05′52	
	12353 Aug 22 12:00	0° <b>m</b> y		minimum elong	12356 Feb 24 18:16	11° <b>¥</b> 59'40	1°45'03
morning set	12353 Aug 27 16:46	6° Mg 29′23		min. Earth dist.	12356 Feb 25 00:53	11° <b>)</b> 49′18	0.28266 AU
asc. node	12353 Sep 15 22:23	0° <b>ჲ</b> 29'04		morning rise	12356 Mar 01 22:42	8° <b>∺</b> 17'16	
	12353 Sep 15 13:03	0∘ <b>⊽</b>		asc. node	12356 Mar 02 18:48	7° <b>¥</b> 50′17	
				direct	12356 Mar 16 20:38	3° <b>¥</b> 56′00	
superior conj	12353 Oct 05 12:38	24° <b>♀</b> 53'00		greatest brilliancy	12356 Mar 27 15:36	6° <b>∺</b> 05'25	-4.8m
minimum elong	12353 Oct 05 03:28	24° <b>≙</b> 24'30			12356 Apr 29 17:36	0° <b>Υ</b>	
max. Earth dist.	12353 Oct 07 17:13	27° <b>△</b> 36'33	1.72351 AU	morning max el	12356 May 05 19:17	5° <b>Y</b> 54'23	46°31'40
	12353 Oct 09 15:21	0° <b>M</b> ₊			12356 May 28 13:05	0°8	
	12353 Nov 02 19:29	0° <b>∡</b> ¹		desc. node	12356 Jun 22 19:00	28° <b>8</b> 57'05	
evening rise	12353 Nov 11 21:14	11° <b>х</b> 13'39			12356 Jun 23 16:23	0°Щ	
	12353 Nov 27 02:27	0°ප			12356 Jul 18 18:21	0°9	
	12353 Dec 21 13:33	0° <b>≈</b>			12356 Aug 12 08:35	0° <b>N</b>	
desc. node	12354 Jan 05 13:54	18°≈17'14			12356 Sep 05 17:48	0° <b>m</b> y	
	12354 Jan 15 05:47	0° <b>)</b> €		_	12356 Sep 30 01:10	0° <b>⊽</b>	
	12354 Feb 09 03:37	0° <b>Υ</b>		asc. node	12356 Oct 13 12:31	16° <b>≏</b> 38'46	
	12354 Mar 06 08:16	$_{0}$ 8			12356 Oct 24 07:47	0° <b>M</b> ₊	

morning set	12356 Nov 07 00:15	16°M55'33			12359 Apr 23 09:37	30° <b>₹</b> 8	
morning sec	12356 Nov 17 13:58	0° <b>∡</b> 7		evening set	12359 May 02 22:15	25° <b>8</b> 43'52	
	12356 Dec 11 20:19	0°ප		inferior conj	12359 May 07 06:43	23° <b>8</b> 05'38	7°52'55
				minimum elong	12359 May 06 20:54	23° <b>8</b> 20'52	7°50'39
superior conj	12356 Dec 14 00:01	2° <b>る</b> 39'39	1°24'58	min. Earth dist.	12359 May 07 07:29	23° <b>8</b> 04'28	0.27570 AU
minimum elong	12356 Dec 14 03:07	2° <b>ප</b> 49'12	1°25'51	morning rise	12359 May 10 19:25	20° <b>8</b> 55'54	
max. Earth dist.	12356 Dec 15 07:25	4° <b>ට</b> 16'33	1.73108 AU	direct	12359 May 28 03:35	15° <b>8</b> 06'12	
	12357 Jan 05 03:45	0° <b>≈</b>		greatest brilliancy	12359 Jun 07 03:50	16° <b>8</b> 59'18	-4.9m
evening rise	12357 Jan 20 04:22	18° <b>≈</b> 29'56			12359 Jun 28 05:27	$\Pi$ $^{\circ}0$	
	12357 Jan 29 12:49	0° <b>∀</b>		morning max el	12359 Jul 17 15:38	17° <b>Ⅱ</b> 53'41	46°58'29
desc. node	12357 Feb 02 03:09	4° <b>¥</b> 25'14		desc. node	12359 Jul 21 05:57	21° <b>Ⅲ</b> 33′20	
	12357 Feb 22 23:14	$0^{\circ}$ Y			12359 Jul 29 06:42	0	
	12357 Mar 19 10:24	$0^{\circ}$ 8			12359 Aug 25 02:39	$0^{\circ}\Omega$	
	12357 Apr 12 22:39	$\Pi$ °0			12359 Sep 19 16:33	0° <b>™</b>	
	12357 May 07 14:30	0ంత			12359 Oct 14 17:58	0∘ <b>⊽</b>	
asc. node	12357 May 25 22:08	22°9500'28		_	12359 Nov 08 12:45	0° <b>™</b>	
	12357 Jun 01 15:37	$0^{\circ}\Omega$		asc. node	12359 Nov 11 02:06	3°M06'30	
	12357 Jun 27 13:29	0° <b>m</b> )			12359 Dec 03 02:57	0° <b>⊼</b>	
evening max el	12357 Jul 23 20:18	28° m 12'40	46°44'07		12359 Dec 27 13:48	0°る	
4 41 70	12357 Jul 25 15:19	0∘ <del>⊽</del>	4.0	morning set	12360 Jan 15 21:44	23° <b>3</b> 47'40	
greatest brilliancy	12357 Sep 01 04:03	28° <b>Ω</b> 29'12 0° <b>M</b>	-4.8m		12360 Jan 20 22:33	0° <b>≫</b>	
ratra ara da	12357 Sep 06 01:02 12357 Sep 12 02:49	0°ML42'34		max. Earth dist.	12360 Feb 14 06:07		1.72949 AU
retrograde desc. node	12357 Sep 12 02.49 12357 Sep 14 23:28	0°M32'42		max. Earth dist.	12360 Feb 20 19:10	8 X U4 39	1.72949 AU
desc. node	12357 Sep 14 23.28 12357 Sep 18 01:06	0 11 <b>ც</b> 32 42 30° <b>ŖΩ</b>		superior conj	12360 Feb 22 04:27	9° <b>)</b> 47'48	0°20'27
evening set	12357 Sep 18 01:00 12357 Sep 27 04:51	26° <b>£</b> 16'34		minimum elong	12360 Feb 22 09:08	10° <b>)</b> 02'14	
min. Earth dist.	12357 Oct 02 10:33		0.27752 AU	desc. node	12360 Mar 01 16:59	20° <b>)</b> 19'52	0 2037
inferior conj	12357 Oct 02 10:55 12357 Oct 03 05:57	22° <b>⊆</b> 40'45		dese. Hode	12360 Mar 09 12:37	0°Υ	
minimum elong	12357 Oct 03 03:57 12357 Oct 02 20:56	22° <b>♀</b> 54'40		evening rise	12360 Mar 31 15:22	27° <b>Υ</b> 24'08	
morning rise	12357 Oct 08 13:38	19° <b>£</b> 30'14			12360 Apr 02 17:37	0°8	
direct	12357 Oct 24 05:49	14° <b>£</b> 48'37			12360 Apr 26 21:03	0°II	
greatest brilliancy	12357 Nov 02 18:12	16° <b>≏</b> 27'19	-4.8m		12360 May 20 23:56	0° <b>©</b>	
,	12357 Nov 25 08:59	0° <b>M</b> .			12360 Jun 14 04:31	$0^{\circ}\Omega$	
morning max el	12357 Dec 12 02:35	14°M50'28	45°48'15	asc. node	12360 Jun 22 09:44	10° <b>Ω</b> 08'41	
	12357 Dec 27 03:57	0° <b>∡</b> ¹			12360 Jul 08 14:00	0° <b>m</b> )	
asc. node	12358 Jan 06 00:37	10° <b>∡</b> ³31'16			12360 Aug 02 09:03	0∘ <b>ত</b>	
	12358 Jan 23 12:42	0°ಕ			12360 Aug 27 22:32	$0^{\circ}$ M	
	12358 Feb 18 08:59	0° <b>≈</b>			12360 Sep 24 04:47	0° <b>∡</b> 7	
	12358 Mar 15 11:05	0° <b>)</b> €		evening max el	12360 Oct 03 00:42	8° <b>∡</b> 757'17	46°13'14
	12358 Apr 09 02:31	$0^{\circ}$ Y		desc. node	12360 Oct 12 08:50	17° <b>∡</b> °47'30	
desc. node	12358 Apr 27 19:16	23° <b>Y</b> 01'13			12360 Oct 27 08:38	0°る	
	12358 May 03 10:38	0°8		greatest brilliancy	12360 Nov 11 04:57	8° <b>ප</b> 09'06	-4.8m
	12358 May 27 13:19	$0^{\circ}\Pi$		retrograde	12360 Nov 21 14:53	10° <b>る</b> 07'54	
morning set	12358 Jun 11 20:49	19° <b>Ⅱ</b> 09'21		evening set	12360 Dec 09 23:45	3°る47'02	
	12358 Jun 20 12:24	0°90		inferior conj	12360 Dec 13 02:46	1°る50'37	
	12358 Jul 14 09:59	$0$ ° $\Omega$		minimum elong	12360 Dec 13 05:55	1°る45'40	
	12250 I1 21 20.50	9° <b>Ω</b> 21'42	1900/52	min. Earth dist.	12360 Dec 13 00:43	1°る53'49	0.28973 AU
superior conj minimum elong	12358 Jul 21 20:59 12358 Jul 22 08:39	9° <b>Ω</b> 58'19		morning rise	12360 Dec 16 02:04 12360 Dec 16 12:09	30°R <b>√</b> 29° <b>√</b> 44'43	
max. Earth dist.	12358 Jul 22 19:22		1.71432 AU	direct	12361 Jan 03 12:27	23° <b>х</b> 37'31	
max. Earth dist.	12358 Jul 22 19.22 12358 Aug 07 08:00	0° <b>m</b> )	1./1432 AU	greatest brilliancy	12361 Jan 13 21:47	25° <b>x</b> 3731	-4.7m
asc. node	12358 Aug 07 08:00 12358 Aug 18 10:08	13° <b>m</b> 52'56		greatest offinality	12361 Jan 23 00:50	23 <b>ス</b> 33 37	-4. / III
evening rise	12358 Aug 30 17:54	29° Mp 16'36		asc. node	12361 Feb 02 11:01	7° <b>る</b> 11'39	
evening rise	12358 Aug 31 07:49	0ಂ <b>ರ</b>		morning max el	12361 Feb 21 16:18	24° <b>ට</b> 14'39	45°49'34
	12358 Sep 24 10:28	0° <b>M</b>		morning man er	12361 Feb 27 11:10	0°≈	,
	12358 Oct 18 17:31	0° <b>∡</b> ¹			12361 Mar 27 06:30	0° <b>)</b> €	
	12358 Nov 12 07:26	ರ°0			12361 Apr 22 03:56	$0^{\circ}$ $\Upsilon$	
	12358 Dec 07 07:33	0° <b>≈</b>			12361 May 17 04:09	0°8	
desc. node	12358 Dec 08 03:47	1° <b>≈</b> 00'03		desc. node	12361 May 25 08:37	9° <b>8</b> 58'01	
	12359 Jan 01 22:18	0° <b>)</b> €			12361 Jun 10 16:13	$\Pi$ °0	
	12359 Jan 28 12:10	$0^{\circ}$ Y			12361 Jul 04 21:05	$0$ $\circ$ $\odot$	
evening max el	12359 Feb 25 21:25	29° <b>Y</b> 42'12	46°08'14		12361 Jul 28 22:22	$0^{\circ}\Omega$	
	12359 Feb 26 04:43	$9^{\circ}$ 8			12361 Aug 21 22:41	0° <b>m</b>	
asc. node	12359 Mar 31 04:11	26° <b>8</b> 18'31		morning set	12361 Aug 25 06:14	4° <b>₯</b> 08'17	
greatest brilliancy	12359 Apr 06 16:37	29° <b>8</b> 11'51	-4.8m		12361 Sep 14 23:37	0∘ <b>⊽</b>	
_	12359 Apr 09 06:53	0°П		asc. node	12361 Sep 15 00:10	0° <b>ჲ</b> 01'43	
retrograde	12359 Apr 16 10:55	0° <b>Ⅱ</b> 59'06					

superior conj	12361 Oct 03 03:23	22° <b>£</b> 36'51	0°42'14	asc. node	12364 Mar 01 20:42	4° <b>)</b> 53′01	
minimum elong	12361 Oct 03 03:23	22° <b>⊆</b> 09'34	0°42'14 0°42'06	direct	12364 Mar 14 11:49	1° <b>¥</b> 42′27	
max. Earth dist.	12361 Oct 02 10:37	25° <b>£</b> 27'53	1.72315 AU	greatest brilliancy	12364 Mar 25 08:12	3° <b>¥</b> 52'34	-4.8m
max. Lartii dist.	12361 Oct 09 01:51	0°M	1.72313710	greatest orimaney	12364 Apr 29 17:27	0° <b>Υ</b>	4.0111
	12361 Nov 02 05:58	0° <b>₹</b>		morning max el	12364 May 03 09:13	3° <b>Υ</b> 35'25	46°30'10
evening rise	12361 Nov 09 13:32	9° <b>×</b> 703'15		morning mair vi	12364 May 28 05:16	0°8	.0 30 10
e vennig rise	12361 Nov 26 13:00	0°る		desc. node	12364 Jun 21 20:57	28° <b>8</b> 22'34	
	12361 Dec 21 00:19	0° <b>≈</b>		desc. node	12364 Jun 23 05:59	0°II	
desc. node	12362 Jan 04 15:55	17° <b>≈</b> 50'00			12364 Jul 18 06:43	0°©	
	12362 Jan 14 16:56	0° <b>∀</b>			12364 Aug 11 20:16	0°N	
	12362 Feb 08 15:22	0° <b>Υ</b>			12364 Sep 05 05:02	0° m)	
	12362 Mar 05 21:00	0°8			12364 Sep 29 12:07	0∘ <u>v</u>	
	12362 Mar 31 15:17	0°II		asc. node	12364 Oct 12 14:20	16° <b>≏</b> 11'01	
asc. node	12362 Apr 27 13:45	29° <b>II</b> 55'26			12364 Oct 23 18:31	0°M₊	
	12362 Apr 27 15:28	0° <b>©</b>		morning set	12364 Nov 04 16:11	14° <b>M</b> 43'30	
evening max el	12362 May 09 19:24	12° <b>©</b> 34'34	46°41'17	C	12364 Nov 17 00:34	0° <b>∡</b> ¹	
	12362 May 28 20:26	$0^{\circ}\Omega$			12364 Dec 11 06:51	0°ರ	
greatest brilliancy	12362 Jun 19 04:34	13° <b>Ω</b> 04'37	-4.9m				
retrograde	12362 Jun 28 23:17	14° <b>Ω</b> 52'05		superior conj	12364 Dec 11 17:03	0° <b>る</b> 31'30	1°25'26
evening set	12362 Jul 15 09:10	9° <b>Ω</b> 37'49		minimum elong	12364 Dec 11 19:25	0°る38'47	1°26'20
inferior conj	12362 Jul 19 14:10	7° <b>Ω</b> 06′02	6°46'09	max. Earth dist.	12364 Dec 12 23:08	2° <b>る</b> 04'23	1.73094 AU
minimum elong	12362 Jul 20 01:24	6° <b>Ω</b> 48'49	6°42'53		12365 Jan 04 14:19	0° <b>≈</b>	
min. Earth dist.	12362 Jul 19 23:20	6° <b>Ω</b> 51'59	0.27048 AU	evening rise	12365 Jan 17 20:28	16° <b>≈</b> 19'10	
morning rise	12362 Jul 24 17:40	4° <b>Ω</b> 02'39		Č	12365 Jan 28 23:31	0° <b>₩</b>	
-	12362 Aug 03 12:40	30° <b></b> ₹5		desc. node	12365 Feb 01 04:56	3° <b>¥</b> 57'46	
direct	12362 Aug 09 08:09	29° <b>©</b> 18'47			12365 Feb 22 10:10	$0^{\circ}$ Y	
	12362 Aug 15 07:01	$0^{\circ}\Omega$			12365 Mar 18 21:40	0°8	
desc. node	12362 Aug 17 15:52	0° <b>Ω</b> 37'56			12365 Apr 12 10:24	$\Pi^{\circ}$	
greatest brilliancy	12362 Aug 19 07:43	1° <b>Ω</b> 11'09	-4.9m		12365 May 07 03:00	$0$ $\circ$ $\odot$	
	12362 Sep 27 01:42	o° mp		asc. node	12365 May 25 00:09	21°526'43	
morning max el	12362 Sep 28 08:59	1° Mp 16'44	46°30'21		12365 Jun 01 05:24	$0^{\circ}\Omega$	
	12362 Oct 25 15:50	0∘ <b>亚</b>			12365 Jun 27 05:46	0° <b>m</b> y	
	12362 Nov 21 03:38	$0^{\circ}$ M		evening max el	12365 Jul 21 09:31	25° Mp 49'46	46°44'51
asc. node	12362 Dec 08 15:01	20°M24'55			12365 Jul 25 14:42	0∘ <b>ত</b>	
	12362 Dec 16 17:23	0° <b>∡</b> ¹		greatest brilliancy	12365 Aug 29 19:28	26° <b>≏</b> 11'17	-4.8m
	12363 Jan 10 18:12	8°0		retrograde	12365 Sep 09 17:14	28° <b>≏</b> 24'16	
	12363 Feb 04 10:43	0° <b>≈</b>		desc. node	12365 Sep 14 01:18	28° <b>≏</b> 01'26	
	12363 Feb 28 21:55	0° <b>)</b>		evening set	12365 Sep 24 17:24	24° <b>≏</b> 00'50	
	12363 Mar 25 05:15	$0^{\circ}$ Y		min. Earth dist.	12365 Sep 30 01:37	20° <b>ჲ</b> 51'55	0.27700 AU
morning set	12363 Mar 26 21:22	2° <b>Y</b> ′04'10		inferior conj	12365 Sep 30 20:12	20° <b>≏</b> 23'16	-4°06'33
desc. node	12363 Mar 30 07:06	6° <b>Ƴ</b> 17'19		minimum elong	12365 Sep 30 11:39	20° <b>≏</b> 36′26	4°03'56
	12363 Apr 18 09:11	$0^{\circ}$ 8		morning rise	12365 Oct 06 06:27	17° <b>≙</b> 09'19	
max. Earth dist.	12363 May 02 05:53	17° <b>8</b> 17'11	1.71866 AU	direct	12365 Oct 21 18:59	12° <b>ჲ</b> 31'30	
				greatest brilliancy	12365 Oct 31 08:51	14° <b>≏</b> 11'17	-4.8m
superior conj	12363 May 05 11:46	21° <b>8</b> 20'24	-1°13'56		12365 Nov 25 17:50	0° <b>M</b> ₊	
minimum elong	12363 May 05 01:18	20° <b>8</b> 47'40	1°14'18	morning max el	12365 Dec 09 16:42	12°M34'27	45°49'08
	12363 May 12 10:01	$\Pi$ °0			12365 Dec 26 21:49	0° <b>∡</b> ¹	
	12363 Jun 05 08:44	0		asc. node	12366 Jan 05 02:34	9° <b>∡</b> 52′33	
evening rise	12363 Jun 14 08:12	11° <b>©</b> 15'25			12366 Jan 23 02:50	0°ಕ	
	12363 Jun 29 07:06	$0$ $^{\circ}$ $\Omega$			12366 Feb 17 21:32	0° <b>≈</b>	
asc. node	12363 Jul 20 22:24	27° <b>Ω</b> 03'04			12366 Mar 14 22:50	0° <b>∀</b>	
	12363 Jul 23 07:09	0° <b>m</b>			12366 Apr 08 13:49	$0^{\circ}$ Y	
	12363 Aug 16 10:56	0∘ <b>⊽</b>		desc. node	12366 Apr 26 21:10	22° <b>Y</b> 32'48	
	12363 Sep 09 20:54	$0^{\circ}$ M			12366 May 02 21:41	$0^{\circ}S$	
	12363 Oct 04 17:19	0° <b>∡</b>			12366 May 27 00:15	0°Щ	
	12363 Oct 30 08:13	0°ಕ		morning set	12366 Jun 09 08:00	16° <b>Ⅱ</b> 39'52	
desc. node	12363 Nov 09 18:47	11° <b>る</b> 49'13			12366 Jun 19 23:16	0°99	
_	12363 Nov 26 10:46	0° <b>≈</b>			12366 Jul 13 20:50	$0$ ° $\Omega$	
evening max el	12363 Dec 14 04:14	17°≈58'08	45°52'01		1000071 10 10 10	co O = ···	1000:0
	12363 Dec 27 11:39	0° <b>)</b> {	4.0	superior conj	12366 Jul 19 08:52	6° <b>Ω</b> 54'25	
greatest brilliancy	12364 Jan 22 05:41	16° <b>)</b> 13′52	-4.8m	minimum elong	12366 Jul 19 20:35	7° <b>Ω</b> 31'11	
retrograde	12364 Feb 01 00:08	17° <b>¥</b> 57'56		max. Earth dist.	12366 Jul 20 02:27		1.71419 AU
evening set	12364 Feb 16 06:27	13° <b>)</b> €28'20	2005120		12366 Aug 06 18:50	0° Mp	
inferior conj	12364 Feb 22 05:44	9° <b>¥</b> 52'50		asc. node	12366 Aug 17 11:54	13° Th 24'38	
minimum elong	12364 Feb 22 10:25	9° <b>)</b> 45′29		evening rise	12366 Aug 28 07:28	26° m 55'25	
min. Earth dist. morning rise	12364 Feb 22 17:06	9° <b>)</b> (34'59	0.28300 AU		12366 Aug 30 18:38	0∘ <b>ফ</b>	
	12364 Feb 28 13:54	6° <b>)</b> €04'04			12366 Sep 23 21:22	$0^{\circ}$ M	

	12366 Oct 18 04:37	0° <b>∡</b> ¹			12369 May 16 16:24	0° <b>႘</b>	
	12366 Nov 11 18:56	0°る		desc. node	12369 May 24 10:36	9° <b>と</b> 27'17	
	12366 Dec 06 19:46	0° <b>≈</b>		desc. node	12369 Jun 10 03:57	0°II	
desc. node	12366 Dec 07 05:45	0° <b>≈</b> 29'34			12369 Jul 04 08:30	0.ee	
dese. node	12367 Jan 01 11:49	0° <b>¥</b>			12369 Jul 28 09:33	$0^{\circ}\Omega$	
	12367 Jan 28 04:19	0° <b>Υ</b>			12369 Aug 21 09:44	0° <b>m</b> )	
evening max el	12367 Feb 23 12:07	27° <b>Y</b> °25'24	46°07'17	morning set	12369 Aug 22 19:36	1° Mp 45'46	
evening man er	12367 Feb 26 04:12	0°8		asc. node	12369 Sep 14 02:01	29° m 33'20	
asc. node	12367 Mar 30 06:12	24° <b>8</b> 43'54			12369 Sep 14 10:34	0∘ <b>⊽</b>	
greatest brilliancy	12367 Apr 04 05:01	26° <b>8</b> 49'27	-4.8m		· · ·		
retrograde	12367 Apr 14 01:04	28° <b>8</b> 37'54		superior conj	12369 Sep 30 18:03	20° <b>£</b> 19'14	0°39'06
evening set	12367 Apr 30 07:45	23° <b>8</b> 28'13		minimum elong	12369 Sep 30 09:45	19° <b>≏</b> 53'24	0°38'56
inferior conj	12367 May 04 20:28	20° <b>8</b> 43'49	7°40'21	max. Earth dist.	12369 Oct 03 03:14	23° <b>≏</b> 17'09	1.72279 AU
minimum elong	12367 May 04 10:16	20° <b>8</b> 59'37	7°37'56		12369 Oct 08 12:45	0° <b>M</b>	
min. Earth dist.	12367 May 04 20:37	20° <b>8</b> 43'35	0.27587 AU		12369 Nov 01 16:51	0° <b>∡</b> ¹	
morning rise	12367 May 08 12:39	18° <b>8</b> 29'01		evening rise	12369 Nov 07 05:49	6° <b>₰</b> 751'29	
direct	12367 May 25 17:57	12° <b>8</b> 44'03			12369 Nov 25 23:57	8°0	
greatest brilliancy	12367 Jun 04 17:44	14° <b>8</b> 37'11	-4.9m		12369 Dec 20 11:28	0° <b>≈</b>	
	12367 Jun 28 15:45	$\Pi^{\circ}0$		desc. node	12370 Jan 03 17:45	17° <b>≈</b> 21'04	
morning max el	12367 Jul 15 06:52	15° <b>Ⅲ</b> 34'36	46°58'25		12370 Jan 14 04:28	0° <b>)</b> €	
desc. node	12367 Jul 20 07:53	20° <b>Ⅱ</b> 43'54			12370 Feb 08 03:33	$0$ ° $\Upsilon$	
	12367 Jul 29 01:33	$0$ $\circ$ $\odot$			12370 Mar 05 10:16	0°8	
	12367 Aug 24 17:38	$0^{\circ}\Omega$			12370 Mar 31 06:29	$\Pi^{\circ}0$	
	12367 Sep 19 05:45	0° <b>m</b>		asc. node	12370 Apr 26 15:48	29° <b>Ⅱ</b> 09'13	
	12367 Oct 14 06:08	0∘ <b>⊽</b>			12370 Apr 27 11:03	$0$ $\circ$ $\odot$	
	12367 Nov 08 00:16	$0^{\circ}$ M		evening max el	12370 May 07 08:50	10° <b>©</b> 10'45	46°40'16
asc. node	12367 Nov 10 04:08	2° <b>™</b> 37'47			12370 May 29 11:09	$0^{\circ}\Omega$	
	12367 Dec 02 14:04	0° <b>∡</b> ¹		greatest brilliancy	12370 Jun 16 18:42	10° <b>Ω</b> 40′06	-4.9m
	12367 Dec 27 00:41	0°ප		retrograde	12370 Jun 26 11:42	12° <b>Ω</b> 25'56	
morning set	12368 Jan 13 14:55	21° <b>る</b> 39'30		evening set	12370 Jul 13 01:35	7° <b>Ω</b> 06′56	
	12368 Jan 20 09:20	0° <b>≈</b>		inferior conj	12370 Jul 17 02:54	4° <b>Ω</b> 40'14	7°02'19
	12368 Feb 13 16:54	0° <b>∀</b>		minimum elong	12370 Jul 17 14:02	4° <b>Ω</b> 23'09	6°59'11
max. Earth dist.	12368 Feb 18 14:59	6° <b>)</b> €04'35	1.72974 AU	min. Earth dist.	12370 Jul 17 12:37	4° <b>Ω</b> 25'18	0.27058 AU
		>		morning rise	12370 Jul 22 02:29	1° <b>Ω</b> 41'53	
superior conj	12368 Feb 19 19:58	7° <b>)</b> (34′05	0°23'48		12370 Jul 25 08:21	30° <b>₹</b> 55	
minimum elong	12368 Feb 20 01:19	7° <b>¥</b> 50'37	0°23'58	direct	12370 Aug 06 20:43	26° <b>©</b> 52'48	
desc. node	12368 Feb 29 18:47	19° <b>)</b> €51'59		desc. node	12370 Aug 16 17:47	28°542'32	
	12368 Mar 08 23:27	0°Υ		greatest brilliancy	12370 Aug 16 20:32	28°545'00	-4.9m
evening rise	12368 Mar 29 05:49	25° <b>Y</b> ′06'07			12370 Aug 19 22:32	0°N	46021152
	12368 Apr 02 04:35	0°¤ 8°0		morning max el	12370 Sep 25 21:39	28° <b>£</b> 52'08	46°31'52
	12368 Apr 26 08:12				12370 Sep 27 01:03	0 <b>் ம</b> 0° <b>மி</b>	
	12368 May 20 11:20 12368 Jun 13 16:16	$0$ ಂ ${f v}$			12370 Oct 25 08:14 12370 Nov 20 17:25	0° <b>M</b>	
aca mada	12368 Jun 13 16:16 12368 Jun 21 11:39	9° <b>Ω</b> 37'50		asa mada		19°M52'38	
asc. node	12368 Jul 08 02:18	0°m)		asc. node	12370 Dec 07 16:51 12370 Dec 16 05:50	0° <b>√</b>	
	12368 Aug 01 22:18	0∘ <b>⊽</b>			12370 Dec 10 05:50 12371 Jan 10 05:52	0° <b>ਠ</b>	
	12368 Aug 07 22:18	0° <b>m</b> .			12371 Feb 03 21:57	0°≈	
	12368 Sep 24 00:20	0° <b>∡</b> 7			12371 Feb 28 08:55	0° <b>∺</b>	
evening max el	12368 Sep 30 17:00	6° <b>∡</b> 745'05	46°14'30	morning set	12371 Mar 24 11:33	29° <b>)</b> (45'42	
desc. node	12368 Oct 11 10:56	16° <b>х</b> 51'31	.0 1.50	morning sev	12371 Mar 24 16:10	0°Υ	
acse. noue	12368 Oct 28 06:32	0°る		desc. node	12371 Mar 29 09:02	5° <b>Υ</b> 49'33	
greatest brilliancy	12368 Nov 08 19:36	5° <b>ರ</b> 56'31	-4.8m		12371 Apr 17 20:06	0°8	
retrograde	12368 Nov 19 07:15	7° <b>る</b> 56'24		max. Earth dist.	12371 Apr 29 15:18		1.71909 AU
evening set	12368 Dec 07 16:11	1° <b>る</b> 34'52			1	_	
8	12368 Dec 10 05:19	30°R. <b>✓</b>		superior conj	12371 May 03 00:26	18° <b>8</b> 55'55	-1°11'51
inferior conj	12368 Dec 10 18:39	29° <b>₹</b> '39'06	-8°43'14	minimum elong	12371 May 02 13:38	18° <b>8</b> 22'11	
minimum elong	12368 Dec 10 21:02	29° <b>₹</b> ³35'22	8°42'16	C	12371 May 11 20:58	$\Pi^{\circ}0$	
min. Earth dist.	12368 Dec 10 15:01	29° <b>х</b> 44'48	0.28961 AU		12371 Jun 04 19:45	0ಂತ	
morning rise	12368 Dec 14 01:59	27° <b>х</b> ³36′18		evening rise	12371 Jun 11 19:24	8°545'24	
direct	12369 Jan 01 04:46	21° <b>х</b> 26′40		-	12371 Jun 28 18:14	$0^{\circ}\Omega$	
greatest brilliancy	12369 Jan 11 11:29	23° <b>₹</b> 22'34	-4.7m	asc. node	12371 Jul 20 00:10	26° <b>Ω</b> 33'23	
	12369 Jan 24 04:13	ರ∘ರ			12371 Jul 22 18:27	0° <b>т</b> р	
asc. node	12369 Feb 01 12:56	6° <b>る</b> 07'09			12371 Aug 15 22:27	0∘ <b>⊽</b>	
morning max el	12369 Feb 19 08:02	22° <b>る</b> 02'22	45°48'31		12371 Sep 09 08:49	$0^{\circ}$ M	
	12369 Feb 27 06:55	0° <b>≈</b>			12371 Oct 04 05:59	0°⊀	
	12369 Feb 27 06:55 12369 Mar 26 21:28	0° <b>)</b> €			12371 Oct 04 05:59 12371 Oct 29 22:23	ರ°0	
				desc. node			

evening max el	12371 Nov 26 04:29 12371 Dec 11 18:14	0° <b>≈</b> 15° <b>≈</b> 42'18	45°52'13	morning set	12374 Jun 06 19:34 12374 Jun 19 10:03	14°∏11'57 0°∽	
evening max er	12371 Dec 11 18:14 12371 Dec 27 19:21	0° <b>)</b> €	43 32 13		12374 Jul 13 07:36	0°Ω	
greatest brilliancy	12372 Jan 19 21:17	14° <b>米</b> 01′10	-4.8m				
retrograde	12372 Jan 29 14:47	15° <b>)</b> 44′54		superior conj	12374 Jul 16 20:49	4° <b>Ω</b> 27'32	
evening set	12372 Feb 13 23:36	11° <b>)</b> 12'11	2027150	minimum elong	12374 Jul 17 08:30	5° <b>Ω</b> 04'10	
inferior conj	12372 Feb 19 21:11 12372 Feb 20 02:34	7° <b>∺</b> 39'19 7° <b>∺</b> 30'52		max. Earth dist.	12374 Jul 17 12:42	5° <b>3</b> (1/24 0° <b>m</b> )	1.71412 AU
minimum elong min. Earth dist.	12372 Feb 20 02:34 12372 Feb 20 09:19	7° <b>∺</b> 20′18	0.28336 AU	asc. node	12374 Aug 06 05:36 12374 Aug 16 13:49	12° Mp 56'57	
morning rise	12372 Feb 26 04:59	3° <b>¥</b> 50′54	0.20330710	evening rise	12374 Aug 25 20:49	24° <b>m</b> <sub>2</sub> 33'39	
asc. node	12372 Feb 29 22:42	1° <b>¥</b> 59'06		overmig rise	12374 Aug 30 05:25	0∘ <del>⊽</del>	
	12372 Mar 07 00:15	30° <b>R</b> ≈			12374 Sep 23 08:14	0°M	
direct	12372 Mar 12 02:57	29° <b>≈</b> 28′20			12374 Oct 17 15:42	0° <b>∡</b> ¹	
	12372 Mar 17 08:50	0° <b>)</b> €			12374 Nov 11 06:23	5°0	
greatest brilliancy	12372 Mar 23 01:03	1° <b>)</b> 39′43	-4.8m	desc. node	12374 Dec 06 07:37	29° <b>る</b> 59'02	
	12372 Apr 29 16:26	0° <b>Υ</b>	4.600.010.0		12374 Dec 06 07:56	0° <b>≈</b>	
morning max el	12372 Apr 30 23:41	1° <b>Y</b> 17'17	46°28'39		12375 Jan 01 01:18	0° <b>ℋ</b> 0° <b>Ƴ</b>	
desc. node	12372 May 27 21:23 12372 Jun 20 22:49	0° <b>8</b> 27° <b>8</b> 47'12		evening max el	12375 Jan 27 20:35 12375 Feb 21 03:37	0°γ 25° <b>Υ</b> 11'12	46006116
desc. node	12372 Jun 20 22.49 12372 Jun 22 19:45	27 <b>3</b> 4712 0° <b>Ⅱ</b>		evening max er	12375 Feb 26 04:34	0° <b>8</b>	40 00 10
	12372 Jul 17 19:20	0°©		asc. node	12375 Mar 29 08:19	23° <b>8</b> 06'41	
	12372 Aug 11 08:13	0°N		greatest brilliancy	12375 Apr 01 17:43	24° <b>8</b> 28'20	-4.8m
	12372 Sep 04 16:32	0° <b>m</b> )		retrograde	12375 Apr 11 15:12	26° <b>8</b> 17'30	
	12372 Sep 28 23:16	0∘ <b>⊽</b>		evening set	12375 Apr 27 17:32	21° <b>8</b> 13'33	
asc. node	12372 Oct 11 16:18	15° <b>≙</b> 43'05		inferior conj	12375 May 02 10:17	18° <b>8</b> 23'04	
	12372 Oct 23 05:25	0° <b>M</b> ₊		minimum elong	12375 May 01 23:48	18° <b>8</b> 39'20	7°24'32
morning set	12372 Nov 02 07:54	12°M30'08		min. Earth dist.	12375 May 02 09:53	18° <b>8</b> 23'41	0.27600 AU
	12372 Nov 16 11:18	0° <b>∡</b> ¹		morning rise direct	12375 May 06 05:59	16° <b>8</b> 03'05 10° <b>8</b> 23'13	
superior conj	12372 Dec 09 10:02	28° <b>∡</b> ¹22'40	1°25'47	greatest brilliancy	12375 May 23 08:37 12375 Jun 02 07:29	10 <b>8</b> 23 13	4.0m
minimum elong	12372 Dec 09 10:02 12372 Dec 09 11:40	28° 🖈 22 40 28° 🖈 27'42	1°26'41	greatest oriniancy	12375 Jun 28 22:51	0°Ⅱ	<del>-4</del> .9111
max. Earth dist.	12372 Dec 10 15:46	29° <b>×</b> 754'31	1.73081 AU	morning max el	12375 Jul 12 21:39	13° <b>I</b> 15'27	46°58'19
	12372 Dec 10 17:33	0°ರ		desc. node	12375 Jul 19 09:50	19° <b>Ⅱ</b> 56'21	
	12373 Jan 04 01:04	0° <b>≈</b>			12375 Jul 28 19:35	0ං <b>ම</b>	
evening rise	12373 Jan 15 12:45	14°≈08'30			12375 Aug 24 08:06	$0$ $^{\circ}$ $\Omega$	
	12373 Jan 28 10:23	0° <b>∀</b>			12375 Sep 18 18:35	0° <b>m</b> )	
desc. node	12373 Jan 31 06:46	3° <b>¥</b> 29'59			12375 Oct 13 18:02	0° <b>™</b>	
	12373 Feb 21 21:14	0° <b>႘</b>		1	12375 Nov 07 11:33	0°M	
	12373 Mar 18 09:03 12373 Apr 11 22:17	0°U		asc. node	12375 Nov 09 05:56 12375 Dec 02 00:58	2° <b>IL</b> 09'00 0° <b>∡</b> ′	
	12373 May 06 15:40	0°ಅ			12375 Dec 02 00:38 12375 Dec 26 11:20	0° <b>ਠ</b>	
asc. node	12373 May 24 02:04	20°952'13		morning set	12376 Jan 11 07:59	19° <b>ට</b> 31'52	
	12373 May 31 19:25	$0^{\circ}\Omega$		8 2 2 2	12376 Jan 19 19:50	0° <b>≈</b>	
	12373 Jun 26 22:32	0° <b>m</b> )			12376 Feb 13 03:22	0° <b>)</b>	
evening max el	12373 Jul 18 23:20	23° <b>m</b> 27'43	46°45'27	max. Earth dist.	12376 Feb 16 09:47	4° <b>)</b> €02'03	1.72996 AU
	12373 Jul 25 15:31	0∘ <b>⊽</b>					
greatest brilliancy	12373 Aug 27 10:15	23° <b>2</b> 51′21	-4.8m	superior conj	12376 Feb 17 11:33	5° <b>¥</b> 21'38	0°27'05
retrograde desc. node	12373 Sep 07 07:53 12373 Sep 13 03:25	26° <b>Ω</b> 04'35 25° <b>Ω</b> 23'16		minimum elong desc. node	12376 Feb 17 17:33 12376 Feb 28 20:42	5° <b>∺</b> 40′09 19° <b>∺</b> 25′24	0°27'16
evening set	12373 Sep 13 03.23 12373 Sep 22 05:54	23 <b>=</b> 23 10 21° <b>⊆</b> 43′20		desc. Hode	12376 Mar 08 10:00	19 <b>γ</b> (23 24	
min. Earth dist.	12373 Sep 22 05:54 12373 Sep 27 16:15	18° <b>≏</b> 31'54	0.27648 AU	evening rise	12376 Mar 26 20:26	22° <b>Υ</b> 49'33	
inferior conj	12373 Sep 28 10:11	18° <b>≙</b> 04'19		<i>y</i>	12376 Apr 01 15:16	0°B	
minimum elong	12373 Sep 28 02:11	18° <b>≏</b> 16'38	3°43'53		12376 Apr 25 19:05	$\Pi$ °0	
morning rise	12373 Oct 03 22:59	14° <b>≏</b> 47'16			12376 May 19 22:27	0ංම	
direct	12373 Oct 19 08:15	10° <b>₾</b> 13'00			12376 Jun 13 03:42	$0$ $^{\circ}\Omega$	
greatest brilliancy	12373 Oct 28 22:59		-4.8m	asc. node	12376 Jun 20 13:30	9° <b>Ω</b> 07'52	
morning me1	12373 Nov 26 00:20 12373 Dec 07 07:28	0°ጤ 10°ጤ19'47	15050100		12376 Jul 07 14:15	0 <b>்⊽</b> 0 <b>்மி</b>	
morning max el	12373 Dec 07 07:28 12373 Dec 26 15:17	10°1161947 0° <b>√</b>	45*50'08		12376 Aug 01 11:11 12376 Aug 27 04:21	0° <b>M</b>	
asc. node	12374 Jan 04 04:29	9° <b>∡</b> 14'10			12376 Aug 27 04:21 12376 Sep 23 20:01	0° <b>⊼</b> 1	
	12374 Jan 22 16:48	0°ਰ ਹਾਜ਼		evening max el	12376 Sep 28 08:58	4° <b>∡</b> ³33'04	46°15'31
	12374 Feb 17 09:59	0°≈		desc. node	12376 Oct 10 12:54	15° <b>∡</b> 55′08	
	12374 Mar 14 10:31	0° <b>ℋ</b>			12376 Oct 29 12:17	5°0	
	12374 Apr 08 01:04	0° <b>Ƴ</b>		greatest brilliancy	12376 Nov 06 10:55	3°₹45'31	-4.8m
desc. node	12374 Apr 25 23:06	22° <b>Y</b> ′04'41		retrograde	12376 Nov 16 23:07	5° <b>る</b> 45'39	
	12374 May 02 08:41	0°B			12376 Dec 04 08:37	30°₹ <b>⋌</b> 7	
	12374 May 26 11:05	0°II		evening set	12376 Dec 05 08:17	29° <b>∡</b> ¹24'15	

inferior conj	12376 Dec 08 10:34	27° <b>∡</b> 728'37	-8°45'18	minimum elong	12379 Apr 30 02:07	15° <b>8</b> 58'35	1°09'52
minimum elong	12376 Dec 08 12:09	27° <b>x</b> 26'08	8°44'22	minimum ciong	12379 May 11 07:30	0°Ⅱ	1 0) 32
min. Earth dist.	12376 Dec 08 05:42	27° <b>∡</b> ³36'15	0.28946 AU		12379 Jun 04 06:22	0° <b>©</b>	
morning rise	12376 Dec 11 16:07	25° <b>₹</b> '28'22		evening rise	12379 Jun 09 06:51	6° <b>©</b> 17'31	
direct	12376 Dec 29 20:51	19° <b>∡</b> 16'53			12379 Jun 28 04:58	$0^{\circ}\Omega$	
greatest brilliancy	12377 Jan 09 01:34	21° <b>х</b> 10′48	-4.7m	asc. node	12379 Jul 19 02:08	26° <b>Ω</b> 05'34	
	12377 Jan 24 23:34	0°ප			12379 Jul 22 05:22	0° <b>™</b>	
asc. node	12377 Jan 31 14:56	5° <b>る</b> 05'30			12379 Aug 15 09:37	0∘ <b>⊽</b>	
morning max el	12377 Feb 16 22:54	19° <b>る</b> 49'05	45°47'35		12379 Sep 08 20:23	0° <b>™</b>	
	12377 Feb 27 01:38	0° <b>≫</b>			12379 Oct 03 18:17	0°る	
	12377 Mar 26 11:48 12377 Apr 21 05:42	0° <del>Υ</del> 0°Υ		desc. node	12379 Oct 29 12:13 12379 Nov 07 22:40	0°5 10° <b>る</b> 36'34	
	12377 Apr 21 03.42 12377 May 16 04:10	0° <b>8</b>		desc. node	12379 Nov 07 22:40 12379 Nov 25 22:05	0°≈	
desc. node	12377 May 10 04:10 12377 May 23 12:20	8° <b>8</b> 57'11		evening max el	12379 Dec 09 08:25		45°52'26
dese. Hode	12377 Jun 09 15:16	0° <b>П</b>		evening max er	12379 Dec 39 05:29	0° <b>¥</b>	13 32 20
	12377 Jul 03 19:30	0° <b>©</b>		greatest brilliancy	12380 Jan 17 12:16	11° <b>)</b> (49'16	-4.7m
	12377 Jul 27 20:19	$0^{\circ}\Omega$		retrograde	12380 Jan 27 05:59	13° <b>¥</b> 33′27	
morning set	12377 Aug 20 09:16	29° <b>Ω</b> 25'31		evening set	12380 Feb 11 16:56	8° <b>)</b> 57′11	
	12377 Aug 20 20:19	0° <b>m</b>		inferior conj	12380 Feb 17 12:42	5° <b>¥</b> 27'05	-2°48'14
asc. node	12377 Sep 13 03:56	29° Mp 06'41		minimum elong	12380 Feb 17 18:45	5° <b>)</b> 17'37	2°46'00
	12377 Sep 13 21:02	0∘ <b>⊽</b>		min. Earth dist.	12380 Feb 18 01:19	5° <b>∺</b> 07'21	0.28376 AU
				morning rise	12380 Feb 23 20:00	1° <b>)</b> 39'31	
superior conj	12377 Sep 28 09:01	18° <b>₾</b> 03'58			12380 Feb 27 02:30	30°R≈	
minimum elong	12377 Sep 28 01:13	17° <b>Ω</b> 39'42	0°35'44	asc. node	12380 Feb 29 00:47	29°≈10'50	
max. Earth dist.	12377 Sep 30 19:53	21° <b>♀</b> 07'13 0° <b>ル</b>	1.72241 AU	direct	12380 Mar 09 18:27	27°≈15'25	4.0
	12377 Oct 07 23:09 12377 Nov 01 03:16	0°11L 0° <b>√</b> 7		greatest brilliancy	12380 Mar 20 17:53 12380 Mar 22 01:29	29° <b>≈</b> 28'09 0° <b>∀</b>	-4.8m
evening rise	12377 Nov 01 03.16 12377 Nov 04 22:15	0 <b>x</b> . 4° <b>x</b> 41'34		morning max el	12380 Mai 22 01.29 12380 Apr 28 15:12	0 <del>X</del> 29° <b>¥</b> 02'54	46°27'08
evening rise	12377 Nov 04 22:13	0°중		morning max cr	12380 Apr 29 14:07	25 γ(02 3 <del>4</del> 0° <b>γ</b>	40 27 00
	12377 Dec 19 22:13	°≈			12380 May 27 12:53	0°8	
desc. node	12378 Jan 02 19:36	16°≈53'23		desc. node	12380 Jun 20 00:49	27° <b>8</b> 13'33	
	12378 Jan 13 15:38	0° <b>∀</b>			12380 Jun 22 09:01	$\Pi^{\circ}0$	
	12378 Feb 07 15:23	$0$ ° $\Upsilon$			12380 Jul 17 07:32	$0$ $\circ$ $\odot$	
	12378 Mar 04 23:11	$9^{\circ}$ 8			12380 Aug 10 19:47	$0^{\circ}\Omega$	
	12378 Mar 30 21:24	$\Pi$ °0			12380 Sep 04 03:42	0° <b>m</b>	
asc. node	12378 Apr 25 17:43	28° <b>Ⅱ</b> 23'24			12380 Sep 28 10:07	0∘ <b>⊽</b>	
	12378 Apr 27 06:40	0ა <b>ௐ</b>		asc. node	12380 Oct 10 18:05	15° <b>≏</b> 15'28	
evening max el	12378 May 04 21:20	7° <b>©</b> 45'59	46°39'12		12380 Oct 22 16:02	0°M	
4 4 1 211	12378 May 30 06:02	0° <b>N</b>	4.0	morning set	12380 Oct 30 23:43	10°M17'55	
greatest brilliancy	12378 Jun 14 09:06 12378 Jun 23 23:53	8° <b>Ω</b> 17'19 10° <b>Ω</b> 01'33	-4.9m		12380 Nov 15 21:44	0° <b>∡</b> ¹	
retrograde evening set	12378 Jul 23 23:33 12378 Jul 10 18:04	4° <b>Ω</b> 37'29		superior conj	12380 Dec 07 03:11	26° <b>√</b> 15'18	1°26'01
inferior conj	12378 Jul 10 18:04 12378 Jul 14 15:44	2°Ω16'08	7°17'41	minimum elong	12380 Dec 07 03:11 12380 Dec 07 04:04	26° × 13 18 26° × 18'01	1°26'54
minimum elong	12378 Jul 15 02:41	1° <b>Ω</b> 59'19		max. Earth dist.	12380 Dec 07 04:04 12380 Dec 08 10:36	27° <b>×</b> 752'24	1.73065 AU
min. Earth dist.	12378 Jul 15 02:16	1° <b>Ω</b> 59'57			12380 Dec 10 03:55	0°ප	
	12378 Jul 18 09:41	30° <b>ℝ</b> ∽			12381 Jan 03 11:28	0° <b>≈</b>	
morning rise	12378 Jul 19 11:13	29° <b>5</b> 23'11		evening rise	12381 Jan 13 05:19	11° <b>≈</b> 59'42	
direct	12378 Aug 04 09:02	24° <b>5</b> 28'11			12381 Jan 27 20:57	0° <b>∀</b>	
greatest brilliancy	12378 Aug 14 10:02	26° <b>©</b> 21'05	-4.9m	desc. node	12381 Jan 30 08:45	3° <b>)</b> €03'36	
desc. node	12378 Aug 15 19:51	26° <b>©</b> 53'18			12381 Feb 21 08:03	0° <b>Υ</b>	
	12378 Aug 22 04:29	$0$ ° $\Omega$			12381 Mar 17 20:14	0° <b>8</b>	
morning max el	12378 Sep 23 10:21	26° <b>Ω</b> 28'58	46°33'35		12381 Apr 11 09:59	0°II	
	12378 Sep 26 22:52	0° Mp		,	12381 May 06 04:12	0°©	
	12378 Oct 24 23:47	0° <b>Մ</b>		asc. node	12381 May 23 03:57	20°€18'07 0° <b>Ω</b>	
asc. node	12378 Nov 20 06:31 12378 Dec 06 18:44	19°M22'12			12381 May 31 09:21 12381 Jun 26 15:23	oor oomp	
asc. node	12378 Dec 15 17:41	0° <b>√</b>		evening max el	12381 Jul 16 13:59	21°M)08'32	46°46'04
	12379 Jan 09 17:02	%ਰ		c.c.iiig iiun oi	12381 Jul 25 17:22	ე° <u>ი</u>	.0 10 07
	12379 Feb 03 08:44	0° <b>≈</b>		greatest brilliancy	12381 Aug 25 00:31	21° <b>≏</b> 31'24	-4.8m
	12379 Feb 27 19:30	0° <b>∀</b>		retrograde	12381 Sep 04 22:50	23° <b>≏</b> 45'12	
morning set	12379 Mar 22 01:52	27° <b>)</b> €28'55		desc. node	12381 Sep 12 05:26	22° <b>≏</b> 40'16	
	12379 Mar 24 02:40	0° <b>Υ</b>		evening set	12381 Sep 19 18:35	19° <b>≏</b> 25'55	
desc. node	12379 Mar 28 10:54	5° <b>Ƴ</b> 22'48		min. Earth dist.	12381 Sep 25 06:34		0.27598 AU
	12379 Apr 17 06:36	0°8		inferior conj	12381 Sep 26 00:04	15° <b>≙</b> 45'30	
max. Earth dist.	12379 Apr 27 03:26	12° <b>8</b> 18'05	1.71953 AU	minimum elong	12381 Sep 25 16:40	15° <b>≏</b> 56'52	3°23'14
	10070 4 00 10 1	1.00 30000	1000/20	morning rise	12381 Oct 01 15:21	12° <b>£</b> 25'34	
superior conj	12379 Apr 30 13:11	16° <b>8</b> 33'07	-1~09′38	direct	12381 Oct 16 22:00	7° <b>£</b> 54'43	

greatest brilliancy	12381 Oct 26 12:34	9° <b>₽</b> 35'53	-4 8m	asc. node	12384 Jun 19 15:28	8° <b>Ω</b> 37'29	
greatest of illiancy	12381 Nov 26 04:35	0° <b>M</b>	4.0111	ase. Houe	12384 Jul 07 02:33	0° <b>m</b> )	
morning max el	12381 Dec 04 22:48	8°ML06'56	45°51'12		12384 Aug 01 00:31	0∘ <mark>ಹ</mark> ಂ.ಗ	
morning man er	12381 Dec 26 08:12	0° <b>∡</b> 7	0112		12384 Aug 26 19:42	0° <b>M</b>	
asc. node	12382 Jan 03 06:30	8° <b>∡</b> 736'55			12384 Sep 23 16:47	0° <b>∡</b> 7	
	12382 Jan 22 06:27	0°ප		evening max el	12384 Sep 25 23:55	2° <b>∡</b> 17'18	46°16'39
	12382 Feb 16 22:11	0° <b>≈</b>		desc. node	12384 Oct 09 14:49	14° <b>∡</b> 756′20	
	12382 Mar 13 21:59	0° <b>∀</b>			12384 Oct 31 09:12	0°ರ	
	12382 Apr 07 12:09	$0^{\circ}$ Y		greatest brilliancy	12384 Nov 04 02:30	1° <b>る</b> 33'32	-4.8m
desc. node	12382 Apr 25 00:52	21° <b>Y</b> 36'21		retrograde	12384 Nov 14 14:22	3° <b>ට</b> 33'42	
	12382 May 01 19:34	$9^{\circ}$ 8			12384 Nov 28 01:51	30°R <b>✓</b>	
	12382 May 25 21:53	$\Pi^{\circ}0$		evening set	12384 Dec 02 23:56	27° <b>∡</b> 12'55	
morning set	12382 Jun 04 06:54	11° <b>Ⅱ</b> 43′29		inferior conj	12384 Dec 06 02:23	25° <b>х</b> 16′56	-8°46'37
	12382 Jun 18 20:48	0ංම		minimum elong	12384 Dec 06 03:09	25° <b>х</b> 15′43	8°45'42
	12382 Jul 12 18:19	$0^{\circ}\Omega$		min. Earth dist.	12384 Dec 05 20:36	25° <b>∡</b> ¹26′01	0.28929 AU
				morning rise	12384 Dec 09 06:28	23° <b>∡</b> 18'44	
superior conj	12382 Jul 14 08:26	1° <b>Ω</b> 59'40	-1°08'40	direct	12384 Dec 27 12:25	17° <b>∡</b> ¹05'44	
minimum elong	12382 Jul 14 19:56	2° <b>Ω</b> 35'48		greatest brilliancy	12385 Jan 06 16:09	18° <b>∡</b> 58′21	-4.7m
max. Earth dist.	12382 Jul 15 00:13		1.71401 AU		12385 Jan 25 14:25	0°ಕ	
	12382 Aug 05 16:18	0° <b>m</b> )		asc. node	12385 Jan 30 16:59	4° <b>る</b> 04'22	
asc. node	12382 Aug 15 15:41	12° <b>m</b> 29'14		morning max el	12385 Feb 14 13:00	17° <b>පි</b> 32'51	45°46'52
evening rise	12382 Aug 23 09:51	22° m/11'00			12385 Feb 26 20:14	0° <b>≈</b>	
	12382 Aug 29 16:10	0° <b>™</b>			12385 Mar 26 02:17	0° <b>∺</b>	
	12382 Sep 22 19:06	0° <b>M</b> ○○ <b>T</b>			12385 Apr 20 18:31	0° <b>Υ</b>	
	12382 Oct 17 02:48	0° <b>∡</b> ¹			12385 May 15 16:09	0°8	
1 1	12382 Nov 10 17:55	0°る		desc. node	12385 May 22 14:21	8° <b>8</b> 27'14	
desc. node	12382 Dec 05 09:34	29° <b>る</b> 28'39			12385 Jun 09 02:48	0°II	
	12382 Dec 05 20:11	0° <b>≈</b> 0° <b>∀</b>			12385 Jul 03 06:45	$0 {\circ} \mathcal{U}$	
	12382 Dec 31 14:55	0° <b>Υ</b>		mamina aat	12385 Jul 27 07:23	0°81 27° <b>Ω</b> 02'39	
evening max el	12383 Jan 27 13:07 12383 Feb 18 19:00	22° <b>Υ</b> 56'55	46°05'14	morning set	12385 Aug 17 22:31 12385 Aug 20 07:16	27 <b>8 2</b> 02 39	
evening max er	12383 Feb 18 19:00 12383 Feb 26 06:10	0° <b>8</b>	40 03 14	asc. node	12385 Sep 12 05:43	28° <b>m</b> ) 38'21	
asc. node	12383 Mar 28 10:09	21° <b>8</b> 25'35		asc. node	12385 Sep 12 03:43	0° <b>⊽</b>	
greatest brilliancy	12383 Mar 30 06:46	22° <b>8</b> 07'53	-4.8m		12303 Бер 13 07.54	v <b>–</b>	
		_		superior coni	12385 Sep. 25, 23:30	15° <b>Ω</b> 45'57	0°32'37
retrograde	12383 Apr 09 04:50	23° <b>8</b> 57'05		superior conj	12385 Sep 25 23:30 12385 Sep 25 16:16	15° <b>♀</b> 45'57	0°32'37 0°32'27
retrograde evening set	12383 Apr 09 04:50 12383 Apr 25 03:32	23° <b>8</b> 57'05 18° <b>8</b> 58'51	7°13'06	minimum elong	12385 Sep 25 16:16	15° <b>≏</b> 23'28	0°32'27
retrograde evening set inferior conj	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10	23°\(\delta 57'05\) 18°\(\delta 58'51\) 16°\(\delta 02'26\)	7°13'06 7°10'25		12385 Sep 25 16:16 12385 Sep 28 09:37	15° <b>£</b> 23′28 18° <b>£</b> 46′55	
retrograde evening set	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28	23° <b>8</b> 57'05 18° <b>8</b> 58'51	7°13'06 7°10'25 0.27616 AU	minimum elong	12385 Sep 25 16:16	15° <b>≏</b> 23'28	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist.	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27	23°\delta57'05 18°\delta58'51 16°\delta02'26 16°\delta19'02 16°\delta03'31	7°10'25	minimum elong max. Earth dist.	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58	15° <b>ച</b> 23'28 18° <b>ച</b> 46'55 0° <b>സ</b>	0°32'27
retrograde evening set inferior conj minimum elong	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28	23°\delta57'05 18°\delta58'51 16°\delta02'26 16°\delta19'02	7°10'25	minimum elong	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05	15° <b>Ω</b> 23'28 18° <b>Ω</b> 46'55 0° <b>M</b> 0° <b>⊀</b>	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19	23°\delta57'05 18°\delta58'51 16°\delta02'26 16°\delta19'02 16°\delta03'31 13°\delta37'05	7°10'25 0.27616 AU	minimum elong max. Earth dist.	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18	15° <b>Ω</b> 23'28 18° <b>Ω</b> 46'55 0° <b>M</b> 0° <b>⊀</b> 2° <b>₹</b> 29'15	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13	23°\delta57'05 18°\delta58'51 16°\delta02'26 16°\delta19'02 16°\delta03'31 13°\delta37'05 8°\delta02'28	7°10'25 0.27616 AU	minimum elong max. Earth dist.	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23	15° \$\to 23'28\$ 18° \$\to 46'55\$ 0° \$\mathbb{M}\$ 0° \$\stacksquare{A}\$ 2° \$\tau^2 29'15\$ 0° \$\to 5\$	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37	23°\S57'05 18°\S58'51 16°\S02'26 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37	7°10'25 0.27616 AU	minimum elong max. Earth dist. evening rise	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24	15° \$\Omega 23'28 18° \$\Omega 246'55 0° \$\mathbb{M}\$ 0° \$\notin \text{2}^\sigma 229'15 0° \$\omega 0\circ \text{8}\$	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\П	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist. evening rise	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37	15° \( \Omega \) 23'28 18° \( \Omega \) 46'55 0° \( \mathbb{M} \) 0° \( \mathbb{A} \) 2° \( \mathbb{A} \) 29'15 0° \( \mathbb{C} \) 0° \( \approx \) 16° \( \approx \) 24'56	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\II 10°\II.53'32 19°\II.09'19 0°\S	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist. evening rise	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15	15° \$\Pi 23'28 18° \$\Pi 46'55 0° \$\mathref{m}\$. 0° \$\nabla^2 20' \$\textit{29'15} 0° \$\textit{60}\$ 0° \$\textit{60}\$ 0° \$\textit{60}\$ 0° \$\textit{70}\$ 0° \$\textit{70}\$ 0° \$\textit{70}\$ 0° \$\textit{70}\$	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\Π 10°\Π53'32 19°\Π09'19 0°\Ω 0°\Ω	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist. evening rise desc. node	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54	15° \$\Omega 23'28 18° \$\Omega 46'55\$ 0° \$\mathbb{M}\$ 0° \$\mathsilon\$ 2° \$\mathsilon\$29'15 0° \$\infty\$ 0° \$\times\$ 16° \$\infty 24'56 0° \$\mathsilon\$ 0° \$\mathsilon\$ 0° \$\mathsilon\$ 0° \$\mathsilon\$ 0° \$\mathsilon\$ 0° \$\mathsilon\$	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Sep 18 07:28	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\PI 10°\PI53'32 19°\PI09'19 0°\S 0°\R 0°\R	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist. evening rise	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43	15° \$\Omega 23'28 18° \$\Omega 46'55 0° \$\mathbb{M}\$. 0° \$\mathscr{A}\$ 2° \$\mathscr{A}\$29'15 0° \$\mathscr{A}\$ 16° \$\mathscr{A}\$24'56 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 0° \$\mathscr{A}\$ 17° \$\mathscr{A}\$ 17° \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 190 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 180 \$\mathscr{A}\$ 190 \$\mathscr{A}\$ 180 \$A	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 128 13:23 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Oct 13 05:59	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\II 10°\I53'32 19°\I09'19 0°\S 0°\O 0°\I 0°\I 0°\I 0°\I 0°\I 0°\I 0°\I 0°\I	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 27 03:16	15° №23'28 18° №46'55 0° M. 0° ズ 2° ズ29'15 0° ズ 0° ※ 16° ※24'56 0° 光 0° Υ 0° Υ 0° Υ 0° Ц 27° П36'19	0°32'27 1.72203 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Oct 13 05:59 12383 Nov 06 22:56	23°\S57'05 18°\S58'51 16°\S02'26 16°\S19'02 16°\S03'31 13°\S37'05 8°\S02'28 9°\S54'37 0°\PI 10°\PI53'32 19°\PI09'19 0°\PI	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist. evening rise desc. node	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22	15° \$\Pi 23'28 18° \$\Pi 46'55 0° \mathred{m}. 0° \nabla 2° \nabla 29'15 0° \to 0° \to 16° \to 24'56 0° \to	0°32'27
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 30 00:10 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Oct 13 05:59 12383 Nov 06 22:56 12383 Nov 08 07:47	23°857'05 18°858'51 16°802'26 16°819'02 16°803'31 13°837'05 8°802'28 9°854'37 0°11 10°1153'32 19°1109'19 0°\$0 0°\$0 0°\$0 0°\$1 0°\$1 1°\$140'06	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 04 12:37 12386 Apr 24 19:43 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}} 2° \$\textit{\mathbb{\eta}}29'15 0° \$\textit{\Omega} 16° \$\textit{\textit{\Omega}}4'56 0° \$\mathbb{\textit{\Omega}} 0° \$\mathbb{\textit{\Omega}} 0° \$\mathbb{\textit{\Omega}} 16° \$\textit{\Omega}136'19 0° \$\textit{\Omega} 5° \$\textit{\Signal} 9'23 0° \$\mathbb{\Omega}	0°32'27 1.72203 AU 46°38'19
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Oct 13 05:59 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58	23°8557'05 18°858'51 16°802'26 16°819'02 16°803'31 13°837'05 8°802'28 9°854'37 0°Ⅲ 10°Ⅲ53'32 19°Ⅲ09'19 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 0°\$ 1°™40'06 0°\$	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el greatest brilliancy	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 04 12:37 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}}\$ 0° \$\textit{\Z}\$ 2° \$\textit{\Z}29'15 0° \$\textit{\S}\$ 0° \$\textit{\S}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\G}\$ 0° \$\textit{\S}\$ 0° \$\textit{\G}\$ 0° \$\textit{\S}\$ 5° \$\textit{\S}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\S}53'36	0°32'27 1.72203 AU
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 01 11:58	23°8557'05 18°858'51 16°802'26 16°819'02 16°803'31 13°837'05 8°802'28 9°854'37 0°用 10°用53'32 19°用09'19 0°% 0°% 0°% 0°% 1°™40'06 0°% 0°%	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 04 12:37 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 21 12:22	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}}\$ 0° \$\textit{\Z}\$ 2° \$\textit{\Z}29'15 0° \$\textit{\S}\$ 0° \$\textit{\S}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\C}\$ 0° \$\textit{\S}\$ 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}53'36 7° \$\textit{\Omega}37'03	0°32'27 1.72203 AU 46°38'19
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jun 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 25 22:07 12384 Jan 09 01:07	23°8557'05 18°858'51 16°802'26 16°803'31 13°837'05 8°802'28 9°854'37 0°用 10°用53'32 19°用09'19 0°% 0°の 0°™ 0°™ 1°™40'06 0°ズ 0°™ 1°™52'351	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el greatest brilliancy	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 21 12:22 12386 Jul 08 10:39	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}}\$ 0° \$\textit{\Z}\$ 5° \$\textit{\Omega}5' \$\textit{\Z}\$ 37' \$\textit{\Z}\$ 2° \$\textit{\Omega}7'26	0°32'27 1.72203 AU 46°38'19
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 25 22:07 12384 Jan 09 01:07 12384 Jan 19 06:30	23°8557'05 18°858'51 16°802'26 16°803'31 13°837'05 8°802'28 9°854'37 0°II 10°II53'32 19°II09'19 0°\$ 0°I 1°II40'06 0°\$ 0°I 1°II40'06 0°\$ 17°823'51 0°\$	7°10'25 0.27616 AU -4.9m	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 21 12:22 12386 Jul 08 10:39 12386 Jul 11 23:12	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}}\$ 0° \$\textit{\Z}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\S}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\S}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}5'36'36 7° \$\textit{\Omega}37'03 2° \$\textit{\Omega}07'26 30° \$\textit{\S}\$	0°32'27 1.72203 AU 46°38'19 -4.9m
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node  asc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 25 22:07 12384 Jan 09 01:07 12384 Jan 19 06:30 12384 Feb 12 14:00	23°857'05 18°858'51 16°802'26 16°803'31 13°837'05 8°802'28 9°854'37 0°∏ 10°∏53'32 19°∏09'19 0°© 0°Ω 0°™ 0°© 0°™ 1°™40'06 0°\$\forestyle{3}\text{0}\tex	7°10'25 0.27616 AU -4.9m 46°58'02	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el greatest brilliancy retrograde evening set inferior conj	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 01 08:13 12386 Jun 11 23:07 12386 Jun 11 23:07 12386 Jul 08 10:39 12386 Jul 11 23:12 12386 Jul 12 04:44	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\textit{\Omega} 2° \$\textit{\Z}29'15 0° \$\textit{\Omega} 0° \$\textit{\Omega} 16° \$\textit{\Z}24'56 0° \$\textit{\Omega} 0° \$\textit{\Omega} 0° \$\textit{\Omega} 0° \$\textit{\Omega} 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega} 5° \$\textit{\Omega}53'36 7° \$\textit{\Omega}37'03 2° \$\textit{\Omega}07'26 30° \$\textit{\S}29° \$\textit{\S}51'30	0°32'27 1.72203 AU 46°38'19 -4.9m
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node  asc. node  morning set  max. Earth dist. superior conj minimum elong	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 01 11:58 12383 Dec 01 11:58 12384 Jan 09 01:07 12384 Jan 19 06:30 12384 Feb 12 14:00 12384 Feb 14 02:47	23°8557'05 18°858'51 16°802'26 16°819'02 16°803'31 13°837'05 8°802'28 9°854'37 0°II 10°II53'32 19°I109'19 0°\$ 0°\$ 0°\$ 0°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1°\$ 1	7°10'25 0.27616 AU -4.9m 46°58'02 1.73013 AU 0°30'19	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set  inferior conj  minimum elong min. Earth dist. morning rise direct greatest brilliancy	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 04 12:37 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 21 12:22 12386 Jul 12 23:12 12386 Jul 12 04:44 12386 Jul 12 15:55 12386 Jul 12 15:55 12386 Jul 12 15:55 12386 Jul 16 20:04 12386 Aug 01 21:32 12386 Aug 01 21:32	15° \$\textit{\Omega}\) 23'28 18° \$\textit{\Omega}\) 46'55 0° \$\textit{\Omega}\) 2° \$\textit{\Z}\) 29'15 0° \$\textit{\Omega}\) 0° \$\textit{\Omega}\) 0° \$\textit{\Omega}\) 0° \$\textit{\Omega}\) 0° \$\textit{\Omega}\) 0° \$\textit{\Omega}\) 5° \$\textit{\Omega}\) 30° \$\textit{\Omega}\) 30° \$\textit{\Omega}\) 30° \$\textit{\Omega}\) 29° \$\textit{\Omega}\) 30° \$\textit{\Omega}\) 29° \$\textit{\Omega}\) 31'22 29° \$\textit{\Omega}\) 34'22 27° \$\textit{\Omega}\) 4'23 22° \$\textit{\Omega}\) 23° \$\textit{\Omega}\) 56'47	0°32'27 1.72203 AU 46°38'19 -4.9m 7°32'06 7°29'15 0.27087 AU -4.9m
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retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node  asc. node  morning set  max. Earth dist.  superior conj minimum elong desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Sep 18 07:28 12383 Oct 13 05:59 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 01 11:58 12383 Dec 25 22:07 12384 Jan 09 01:07 12384 Jan 19 06:30 12384 Feb 12 14:00 12384 Feb 14 02:47  12384 Feb 15 03:28 12384 Feb 15 10:03 12384 Feb 15 10:03 12384 Feb 17 20:41 12384 Mar 07 20:41 12384 Mar 24 11:18 12384 Mar 24 11:18	23°8557'05 18°858'51 16°802'26 16°819'02 16°803'31 13°837'05 8°802'28 9°854'37 0°用 10°用53'32 19°用09'19 0°9 0°1 0°1 1°1 1°1 1°3 1°3 1°3 1°3 1°3 1°3 1°3 1	7°10'25 0.27616 AU -4.9m 46°58'02 1.73013 AU 0°30'19	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set  inferior conj  minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 21 12:22 12386 Jul 08 10:39 12386 Jul 12 23:12 12386 Jul 12 23:12 12386 Jul 12 15:53 12386 Jul 12 15:53 12386 Jul 16 20:04 12386 Aug 01 21:32 12386 Aug 11 23:48 12386 Aug 14 21:51 12386 Aug 23 16:13 12386 Sep 20 23:47	15° \$\textit{\Omega}23'28 18° \$\textit{\Omega}46'55 0° \$\mathbb{\textit{\Omega}} 0° \$\textit{\Z}\$ 2° \$\textit{\Z}29'15 0° \$\textit{\Omega} 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 0° \$\textit{\Omega}\$ 5° \$\textit{\Omega}19'23 2° \$\textit{\Omega}07'26 30° \$\textit{\Omega}\$ 29° \$\textit{\Omega}51'30 29° \$\textit{\Omega}35'05 29° \$\textit{\S}34'22 27° \$\textit{\Omega}04'23 22° \$\textit{\Omega}02'50 23° \$\textit{\S}56'47 25° \$\textit{\Omega}07'34 0° \$\textit{\Omega}\$ 24° \$\textit{\Omega}06'10	0°32'27 1.72203 AU 46°38'19 -4.9m 7°32'06 7°29'15 0.27087 AU -4.9m
retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el desc. node  asc. node  morning set  max. Earth dist.  superior conj minimum elong desc. node	12383 Apr 09 04:50 12383 Apr 25 03:32 12383 Apr 29 13:28 12383 Apr 29 23:27 12383 May 03 23:19 12383 May 20 23:13 12383 May 30 21:37 12383 Jul 29 03:59 12383 Jul 10 11:33 12383 Jul 18 11:54 12383 Jul 28 13:23 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Aug 23 22:34 12383 Nov 06 22:56 12383 Nov 06 22:56 12383 Nov 08 07:47 12383 Dec 01 11:58 12383 Dec 01 11:58 12383 Dec 25 22:07 12384 Jan 09 01:07 12384 Jan 19 06:30 12384 Feb 12 14:00 12384 Feb 14 02:47  12384 Feb 15 03:28 12384 Feb 15 10:03 12384 Feb 27 22:33 12384 Mar 07 20:41 12384 Mar 24 11:18 12384 Apr 01 02:05 12384 Apr 01 02:05 12384 Apr 01 02:05	23°8557'05 18°858'51 16°802'26 16°803'31 13°837'05 8°802'28 9°854'37 0°用 10°用53'32 19°用09'19 0°% 0°M 0°M 0°M 1°M40'06 0°% 0°% 1°% 1°% 1°% 23'51 0°% 0°% 1°% 1°% 23'51 0°% 0°% 1°% 1°% 1°% 1°% 1°% 1°% 1°% 1°% 1°% 1	7°10'25 0.27616 AU -4.9m 46°58'02 1.73013 AU 0°30'19	minimum elong max. Earth dist.  evening rise  desc. node  asc. node  evening max el  greatest brilliancy retrograde evening set  inferior conj  minimum elong min. Earth dist. morning rise direct greatest brilliancy desc. node	12385 Sep 25 16:16 12385 Sep 28 09:37 12385 Oct 07 09:58 12385 Oct 31 14:05 12385 Nov 02 14:18 12385 Nov 24 21:23 12385 Dec 19 09:24 12386 Jan 01 21:37 12386 Jan 13 03:15 12386 Feb 07 03:42 12386 Mar 04 12:37 12386 Mar 30 12:54 12386 Apr 24 19:43 12386 Apr 27 03:16 12386 May 02 09:22 12386 May 31 08:13 12386 Jun 11 23:07 12386 Jun 11 23:07 12386 Jul 08 10:39 12386 Jul 12 23:12 12386 Jul 12 23:12 12386 Jul 12 04:44 12386 Jul 12 15:53 12386 Jul 12 15:53 12386 Jul 12 15:53 12386 Aug 01 21:32 12386 Aug 11 23:48 12386 Aug 14 21:51 12386 Aug 23 16:13 12386 Sep 20 23:47 12386 Sep 26 20:21	15° \$\textit{\Omega}\) 23'28 18° \$\textit{\Omega}\) 46'55 0° \$\mathbb{\textit{\Omega}\} 2° \$\textit{\mathbb{\eta}\} 29'15 0° \$\textit{\Omega}\} 0° \$\textit{\textit{\Omega}\} 0° \$\textit{\Omega}\} 0° \$\textit{\Omega}\} 0° \$\textit{\Omega}\} 0° \$\textit{\Omega}\} 0° \$\textit{\Omega}\} 5° \$\textit{\Omega}\} 19'23 2° \$\textit{\Omega}\} 29° \$\textit{\Omega}\} 130 29° \$\textit{\Omega}\} 29° \$\textit{\Omega}\} 130 29° \$\textit{\Omega}\} 29° \$\textit{\Omega}\} 130 29° \$\textit{\Omega}\} 22° \$\textit{\Omega}\} 21'50 23° \$\textit{\Omega}\} 25' \$\textit{\Omega}\} 00'14 0° \$\textit{\Omega}\} 24° \$\textit{\Omega}\} 00'10 0° \$\mathre{\Omega}\}	0°32'27 1.72203 AU 46°38'19 -4.9m 7°32'06 7°29'15 0.27087 AU -4.9m

asc. node	12386 Dec 05 20:47	18°M50'54			12389 Jun 26 08:54	0° m)	
asc. node	12386 Dec 05 20.47 12386 Dec 15 05:58	10 1163034 0° <b>√</b> 1		evening max el	12389 Jul 14 05:28	18° Mn 50'45	46°46'47
	12387 Jan 09 04:37	0° <b>ਠ</b>		evening max er	12389 Jul 25 21:01	0∘ <b>⊽</b>	40 40 47
	12387 Feb 02 19:56	0°≈		greatest brilliancy	12389 Aug 22 15:07	0 <b>=</b> 19° <b>£</b> 11'43	-4.9m
	12387 Feb 27 06:31	0° <b>∺</b>		retrograde	12389 Sep 02 14:03	21° <b>⊆</b> 25'40	- <del>1</del> .7III
morning set	12387 Mar 19 16:11	25° <b>¥</b> 10′52		desc. node	12389 Sep 11 07:19	19° <b>≏</b> 52'28	
morning set	12387 Mar 23 13:37	0° <b>Υ</b>		evening set	12389 Sep 17 07:46	17° <b>⊆</b> 08'23	
desc. node	12387 Mar 27 12:40	4°Υ′54'25		min. Earth dist.	12389 Sep 17 07:40 12389 Sep 22 20:57	13° <b>⊆</b> 53'03	0.27546 AU
dese. node	12387 Apr 16 17:31	0°8		inferior conj	12389 Sep 23 14:09	13° <b>≏</b> 26'41	
max. Earth dist.	12387 Apr 24 17:21	9° <b>8</b> 57'40	1.71991 AU	minimum elong	12389 Sep 23 07:23	13° <b>⊆</b> 37'03	
max. Earth dist.	12307 Apr 24 17.21	7 037 40	1.71991710	morning rise	12389 Sep 29 07:43	10° <b>⊆</b> 03'58	3 02 21
superior conj	12387 Apr 28 02:00	14° <b>8</b> 09'17	-1°07'17	direct	12389 Oct 14 12:17	5° <b>£</b> 36'42	
minimum elong	12387 Apr 27 14:45	13° <b>8</b> 34'10		greatest brilliancy	12389 Oct 24 01:55	7° <b>₽</b> 17'32	-4 8m
mmmum viong	12387 May 10 18:25	0°II	1 0, 2,	greatest officially	12389 Nov 26 07:17	0°M	
	12387 Jun 03 17:20	0°©		morning max el	12389 Dec 02 13:52	5°M53'00	45°52'03
evening rise	12387 Jun 06 18:38	3°5649'38			12389 Dec 26 01:00	0° <b>⊼</b> 7	
<b>3</b>	12387 Jun 27 16:02	0°N		asc. node	12390 Jan 02 08:26	7° <b>х</b> 59′08	
asc. node	12387 Jul 18 04:02	25° <b>Ω</b> 36'32			12390 Jan 21 20:14	0°ප	
	12387 Jul 21 16:36	0° m)			12390 Feb 16 10:38	0° <b>≈</b>	
	12387 Aug 14 21:08	0∘ <u>v</u>			12390 Mar 13 09:43	0° <b>)</b> €	
	12387 Sep 08 08:22	0°M₊			12390 Apr 06 23:29	0° <b>Υ</b>	
	12387 Oct 03 07:06	0° <b>∡</b> ¹		desc. node	12390 Apr 24 02:49	21° <b>Y</b> °07'47	
	12387 Oct 29 02:44	0°ెవ			12390 May 01 06:41	0°B	
desc. node	12387 Nov 07 00:42	9° <b>ප</b> 59'18			12390 May 25 08:54	0°II	
	12387 Nov 25 16:44	0° <b>≈</b>		morning set	12390 Jun 01 18:07	9° <b>Ⅱ</b> 14'01	
evening max el	12387 Dec 06 23:15	11° <b>≈</b> 14'44	45°52'47	. 8	12390 Jun 18 07:46	0°©	
<i>5</i>	12387 Dec 28 19:22	0° <b>∀</b>					
greatest brilliancy	12388 Jan 15 02:40	9° <b>¥</b> 35'15	-4.7m	superior conj	12390 Jul 11 20:04	29° <b>5</b> 31'09	-1°11'01
retrograde	12388 Jan 24 21:31	11° <b>)</b> €20'18		minimum elong	12390 Jul 12 07:19	0°Ω06'26	
evening set	12388 Feb 09 10:19	6° <b>)</b> 40′24		Č	12390 Jul 12 05:15	$0^{\circ}\Omega$	
inferior conj	12388 Feb 15 04:05	3° <b>¥</b> 13'06	-3°08'16	max. Earth dist.	12390 Jul 12 10:02		1.71389 AU
minimum elong	12388 Feb 15 10:46	3° <b>¥</b> 02'38			12390 Aug 05 03:13	0° m)	
min. Earth dist.	12388 Feb 15 16:48		0.28415 AU	asc. node	12390 Aug 14 17:29	12° m) 00'40	
	12388 Feb 20 11:04	30°R <b>≈</b>		evening rise	12390 Aug 20 22:55	19° <b>m</b> ) 47'46	
morning rise	12388 Feb 21 10:43	29° <b>≈</b> 26'46			12390 Aug 29 03:05	0∘ <b>⊽</b>	
asc. node	12388 Feb 28 02:41	26° <b>≈</b> 25'36			12390 Sep 22 06:07	0°M	
direct	12388 Mar 07 10:20	25° <b>≈</b> 00'55			12390 Oct 16 14:01	0° <b>∡</b> ¹	
greatest brilliancy	12388 Mar 18 10:04	27° <b>≈</b> 14'23	-4.8m		12390 Nov 10 05:33	0°ප	
8	12388 Mar 24 08:04	0° <b>)</b> €		desc. node	12390 Dec 04 11:34	28° <b>ろ</b> 58'00	
morning max el	12388 Apr 26 07:16	26° <b>)</b> 48'40	46°25'36		12390 Dec 05 08:35	0° <b>≈</b>	
	12388 Apr 29 11:31	0° <b>Υ</b>			12390 Dec 31 04:48	0° <b>)</b> €	
	12388 May 27 04:35	0°8			12391 Jan 27 06:12	0° <b>Υ</b>	
desc. node	12388 Jun 19 02:46	26° <b>8</b> 38'47		evening max el	12391 Feb 16 09:44	20° <b>Y</b> ′40′29	46°04'07
	12388 Jun 21 22:35	0°II		ξ ·	12391 Feb 26 09:33	0°8	
	12388 Jul 16 20:00	0ಂತಾ		asc. node	12391 Mar 27 12:13	19° <b>8</b> 40'23	
	12388 Aug 10 07:37	0°N		greatest brilliancy	12391 Mar 27 20:36	19° <b>8</b> 47'51	-4.8m
	12388 Sep 03 15:06	0° m)		retrograde	12391 Apr 06 18:07	21° <b>8</b> 36'27	
	12388 Sep 27 21:14	0∘ <del>⊽</del>		evening set	12391 Apr 22 13:45	16° <b>8</b> 43'46	
asc. node	12388 Oct 09 19:55	14° <b>≏</b> 47'10		inferior conj	12391 Apr 27 14:09	13° <b>8</b> 41'44	6°58'17
	12388 Oct 22 02:55	0°M₊		minimum elong	12391 Apr 27 03:19	13° <b>8</b> 58'35	6°55'30
morning set	12388 Oct 28 15:35	8°MJ04'50		min. Earth dist.	12391 Apr 27 13:31	13° <b>8</b> 42'42	0.27631 AU
Ü	12388 Nov 15 08:31	0° <b>∡</b> ¹		morning rise	12391 May 01 16:46	11° <b>8</b> 10'59	
				direct	12391 May 18 13:24	5° <b>8</b> 41'36	
superior conj	12388 Dec 04 20:11	24° <b>∡</b> ¹06'16	1°26'06	greatest brilliancy	12391 May 28 12:24	7° <b>8</b> 33'52	-4.9m
minimum elong	12388 Dec 04 20:18	24° <b>∡</b> ¹06'37	1°26'59	<i>y</i>	12391 Jun 29 07:26	0°II	
max. Earth dist.	12388 Dec 06 06:09		1.73051 AU	morning max el	12391 Jul 08 00:29	8° <b>Ⅱ</b> 28'47	46°57'41
	12388 Dec 09 14:40	8°0		desc. node	12391 Jul 17 13:49	18° <b>Ⅲ</b> 22'22	
	12389 Jan 02 22:17	0° <b>≈</b>			12391 Jul 28 06:53	0.ಪ 	
evening rise	12389 Jan 10 21:38	9° <b>≈</b> 48'57			12391 Aug 23 12:57	$0^{\circ}\Omega$	
<i>3</i> - ,	12389 Jan 27 07:54	0° <b>∀</b>			12391 Sep 17 20:20	0° m)	
desc. node	12389 Jan 29 10:32	2° <b>)</b> €35'24			12391 Oct 12 17:56	0∘ <mark>⊽</mark>	
	12389 Feb 20 19:15	0° <b>Ƴ</b>			12391 Nov 06 10:17	0°M₊	
	12389 Mar 17 07:48	0°8		asc. node	12391 Nov 07 09:48	1° <b>M</b> .11'42	
	12389 Apr 10 22:07	0°II			12391 Nov 30 22:56	0° <b>∡</b> 7	
	12389 May 05 17:11	0°®			12391 Dec 25 08:51	0°ਰ	
asc. node	12389 May 22 06:00	19° <b>©</b> 43'13		morning set	12392 Jan 06 18:31	15° <b>る</b> 16'45	
	12389 May 30 23:49	0°Ω			12392 Jan 18 17:07	0° <b>≈</b>	
		- 00				÷ · • ·	

max. Earth dist.	12392 Feb 11 18:56	29° <b>≈</b> 42'27	1.73036 AU	inferior conj	12394 Jul 09 17:30	27° <b>©</b> 26'31	7°45'34
	12392 Feb 12 00:37	0° <b>ℋ</b>		minimum elong	12394 Jul 10 03:52	27°510'38	7°42'55
				min. Earth dist.	12394 Jul 10 04:54	27° <b>©</b> 09'02	0.27107 AU
superior conj	12392 Feb 12 19:34	0° <b>¥</b> 58'29	0°33'29	morning rise	12394 Jul 14 04:36	24°5645'40	
minimum elong	12392 Feb 13 02:43	1° <b>¥</b> 20′31	0°33'40	direct	12394 Jul 30 10:09	19° <b>©</b> 37'12	4.0
desc. node	12392 Feb 27 00:23	18° <b>)</b> € 30'44		greatest brilliancy	12394 Aug 09 12:52	21°531'53	-4.9m
	12392 Mar 07 07:24	0° <b>Υ</b>		desc. node	12394 Aug 13 23:47	23° <b>©</b> 25'52	
evening rise	12392 Mar 22 02:08	18° <b>Y</b> 17'17			12394 Aug 24 17:29	0°N	46026141
	12392 Mar 31 12:58	0° <b>B</b>		morning max el	12394 Sep 18 13:53	21° <b>Ω</b> 45'37	46°36'41
	12392 Apr 24 17:10	0°II			12394 Sep 26 16:51	0° <b>m</b> )	
	12392 May 18 21:05	0° <b>©</b>			12394 Oct 24 06:54	0∘ <b>m</b>	
1	12392 Jun 12 03:07	0°N		1	12394 Nov 19 09:07	0°M	
asc. node	12392 Jun 18 17:23	8° <b>Ω</b> 06'50		asc. node	12394 Dec 04 22:35	18°M19'50	
	12392 Jul 06 14:55	0 <b>்⊽</b> 0 <b>்மி</b>			12394 Dec 14 17:53	0°る	
	12392 Jul 31 13:57	0° <b>™</b>			12395 Jan 08 15:51	0° <b>≈</b>	
avanina may al	12392 Aug 26 11:17	29°M59'52	46°17'53		12395 Feb 02 06:46	0° <b>∺</b>	
evening max el	12392 Sep 23 14:11 12392 Sep 23 14:14	29 IIL3932 0° <b>√</b>	40 1/33	marning sat	12395 Feb 26 17:09 12395 Mar 17 07:05	0 <del>X</del> 22° <del>¥</del> 55'52	
desc. node	12392 Sep 23 14.14 12392 Oct 08 16:56	0 <b>x</b> . 13° <b>x</b> 56'55		morning set	12395 Mar 23 00:10	22 <b>χ</b> 33 32 0° <b>Υ</b>	
		13 <b>x</b> · 36 33 29° <b>x</b> 22'15	4 9	desc. node	12395 Mar 26 14:38	4° <b>Υ</b> 27'48	
greatest brilliancy	12392 Nov 01 18:15 12392 Nov 03 14:52	29 x・22 13	-4.6111	desc. node	12395 Apr 16 04:04	0°8	
ratra ara da		0 8 1° <b>る</b> 22'46		max. Earth dist.			1.72035 AU
retrograde	12392 Nov 12 05:53 12392 Nov 20 13:45	1 322 40 30°R ✓		max. Earth dist.	12395 Apr 22 09:11	/ 044 20	1.72033 AU
evening set	12392 Nov 20 15:43 12392 Nov 30 15:20	30 Kx. 25° ₹103'07		aumorior aoni	12205 Amr 25 15:01	11° <b>8</b> 47'06	1904!40
inferior conj	12392 Nov 30 13.20 12392 Dec 03 18:22	23° <b>x</b> '06'18	0047102	superior conj minimum elong	12395 Apr 25 15:01 12395 Apr 25 03:41	11° <b>8</b> 11'46	
minimum elong	12392 Dec 03 18:19	23° <b>x</b> '06'23	8°46'11	minimum ciong	12395 Apr 23 05:41 12395 May 10 05:02	0°Ⅱ	1 04 39
min. Earth dist.	12392 Dec 03 11:47	23°×16'40	0.28908 AU		12395 Jun 03 04:03	0.2€	
		23 <b>x</b> ·1640 21° <b>x</b> <sup>7</sup> 09'42	0.28908 AU	ovening rice	12395 Jun 03 04:03 12395 Jun 04 06:20	0 9 1°9522'17	
morning rise direct	12392 Dec 06 21:23 12392 Dec 25 03:41	14° <b>1</b> 55'37		evening rise	12395 Jun 27 02:54	1 <u>9</u> 22 17 0° <b>Ω</b>	
	12392 Dec 23 03:41 12393 Jan 04 07:16	16° <b>х</b> 47'36	4.7m	asc. node	12395 Jul 17 05:48	25° <b>Ω</b> 07'45	
greatest brilliancy	12393 Jan 04 07.16 12393 Jan 26 00:59	10 x·4/30	-4. /III	asc. node	12395 Jul 17 03:48 12395 Jul 21 03:39	23 <b>8 (</b> 0 / 43	
asc. node	12393 Jan 29 18:53	3° <b>る</b> 05'17			12395 Jul 21 03:39 12395 Aug 14 08:27	0∘ <del>ত</del> الأال	
morning max el	12393 Jan 29 18:33 12393 Feb 12 03:08	3 <b>3</b> 0317 15° <b>3</b> 17'28	45°46'09		12395 Aug 14 08.27 12395 Sep 07 20:07	0 <b>==</b> 0° <b>M</b> ₊	
morning max er	12393 Feb 12 03:08 12393 Feb 26 14:05	0°≈	43 40 09		12395 Sep 07 20:07 12395 Oct 02 19:43	0° <b>⊼</b> ¹	
	12393 Mar 25 16:25	0 <b>≈</b> 0° <b>∺</b>			12395 Oct 02 19.45 12395 Oct 28 17:06	0°る	
	12393 Mai 23 10.23 12393 Apr 20 07:09	0° <b>Υ</b>		desc. node	12395 Nov 06 02:41	0 8 9° <b>る</b> 22'31	
	12393 May 15 04:02	0°8		desc. node	12395 Nov 25 11:30	9° <b>≈</b>	
desc. node	12393 May 21 16:18	7° <b>8</b> 57'20		evening max el	12395 Dec 04 15:05	0 <b>~</b> 9° <b>≈</b> 04'31	45°53'14
desc. node	12393 Jun 08 14:13	0°Ⅱ		evening max er	12395 Dec 04 13:03 12395 Dec 29 13:39	0° <b>)</b> €	43 33 14
	12393 Jul 08 14:13	0°©		greatest brilliancy	12396 Jan 12 17:15	7° <b>¥</b> 23'10	-4.7m
	12393 Jul 26 18:19	0°Ω		retrograde	12396 Jan 22 13:22	9° <b>H</b> 08'54	- <del></del>
morning set	12393 Aug 15 11:30	24° <b>Ω</b> 39'24		evening set	12396 Feb 07 04:04	4° <b>∺</b> 25'36	
morning set	12393 Aug 19 11:30 12393 Aug 19 18:04	0° m)		inferior conj	12396 Feb 12 19:39	1° <b>X</b> 01'03	-3°27'48
asc. node	12393 Sep 11 07:35	28° <b>m</b> ) 10'43		minimum elong	12396 Feb 13 02:56	0° <b>)</b> (49'40	
asc. node	12393 Sep 11 07:33 12393 Sep 12 18:37	ე∘ <u>ი</u>		min. Earth dist.	12396 Feb 13 08:09		0.28449 AU
	12373 Sep 12 16.37	v <b>–</b>		mm. Larm dist.	12396 Feb 14 10:48	30°R≈	0.2044) AO
superior conj	12393 Sep 23 13:53	13° <b>≏</b> 28'08	0°29'16	morning rise	12396 Feb 19 01:25	27°≈16'12	
minimum elong	12393 Sep 23 17:18	13° <b>⊆</b> 26°06	0°29'05	asc. node	12396 Feb 27 04:42	23° <b>≈</b> 47'17	
max. Earth dist.	12393 Sep 25 07:18 12393 Sep 25 21:35	16° <b>£</b> 21'32	1.72166 AU	direct	12396 Mar 05 02:44	22° <b>≈</b> 48'44	
max. Darui Qist.	12393 Sep 23 21:33 12393 Oct 06 20:37	0°M	1.72100 AU	greatest brilliancy	12396 Mar 16 01:37	22 ≈46 44 25°≈01'53	-4.8m
evening rise	12393 Oct 30 20:37 12393 Oct 31 06:29	0° <b>∡</b> 17'51		greatest orimancy	12396 Mar 25 18:12	0° <b>∺</b>	-4.0111
evening rise	12393 Oct 31 00:29 12393 Oct 31 00:43	0° <b>⊼</b> 1731		morning max el	12396 Apr 23 23:23	24° <b>)</b> 36′24	46°23'57
	12393 Nov 24 08:07	0°ਤ ਹ ×		morning max ci	12396 Apr 29 07:32	0° <b>Υ</b>	40 23 37
	12393 Nov 24 08:07 12393 Dec 18 20:20	0° <b>≈</b>			12396 May 26 19:31	0°8	
desc. node	12393 Dec 18 20:20 12393 Dec 31 23:27	0 ∞ 15°≈56'47		desc. node	12396 Jun 18 04:38	26° <b>8</b> 05'13	
dese. Hode	12394 Jan 12 14:36	0° <b>∺</b>		desc. node	12396 Jun 21 11:36	0°Ⅱ	
	12394 Feb 06 15:45	0° <b>Υ</b>			12396 Jul 16 08:05	0°©	
	12394 Feb 00 13:43 12394 Mar 04 01:52	0°8			12396 Aug 09 19:09	0° <b>U</b>	
	12394 Mar 30 04:25	0°II			12396 Aug 09 19:09 12396 Sep 03 02:14	0° <b>m</b> y	
asc. node	12394 Mai 30 04.23 12394 Apr 23 21:45	0 Ⅱ 26°Ⅱ48'56			12396 Sep 03 02.14 12396 Sep 27 08:03	0∘ <del>ত</del> اللا	
asc. nout	12394 Apr 23 21:45 12394 Apr 27 00:27	26°Щ48′36 0°9		asc. node	12396 Sep 27 08:03 12396 Oct 08 21:53	0° <u>≥≥</u> 14° <b>⊆</b> 20'05	
evening max el	12394 Apr 27 00.27 12394 Apr 29 21:45	0 95 2°954'10	16°37'15	asc. node	12396 Oct 08 21.33 12396 Oct 21 13:30	0°M₁	
evening max ei	12394 Apr 29 21:45 12394 Jun 01 21:21	2° <b>ω</b> 34°10 0° <b>Ω</b>	+U 3/13	morning set	12396 Oct 21 13:30 12396 Oct 26 07:05	5°M51'34	
grantant brillianas	12394 Jun 01 21:21 12394 Jun 09 12:21	3° <b>Ω</b> 28'57	-4.9m	morning set		5°IIL51'34 0° <b>ズ</b>	
greatest brilliancy retrograde	12394 Jun 09 12:21 12394 Jun 19 01:14	5° <b>Ω</b> 12'25	-4.7111		12396 Nov 14 18:58	υ <b>χ</b> .	
renograue	12394 Jul 19 01:14 12394 Jul 05 11:09	30°RS		superior conj	12396 Dec 02 12:58	210.757122	1°26'04
avaning sat		30°k≌ 29°€37'03		1 3		21° <b>х</b> 57'33 21° <b>х</b> 55'33	
evening set	12394 Jul 06 02:59	کا / د <b>ن</b> ع		minimum elong	12396 Dec 02 12:20	21 X.33.33	1°26'57

may Forth dist	12206 Dag 04 02:19	220,752156	1.73033 AU	marning may al	12200 Jul 05 12:04	6° <b>∏</b> 04'23	46057120
max. Earth dist.	12396 Dec 04 02:18 12396 Dec 09 01:05	23 x・32 36	1./3033 AU	morning max el desc. node	12399 Jul 05 13:04 12399 Jul 16 15:47	17° <b>П</b> 37'32	40 37 29
	12390 Dec 09 01:03 12397 Jan 02 08:45	0°≈		desc. node	12399 Jul 10 13:47 12399 Jul 27 23:33	0°95	
evening rise	12397 Jan 02 08:45	0 ∞ 7°≈39'07			12399 Aug 23 02:47	0°Ω	
evening rise	12397 Jan 26 18:30	0° <b>∺</b>			12399 Sep 17 08:47	0°m)	
desc. node	12397 Jan 28 12:24	2° <b>∺</b> 08'30			12399 Oct 12 05:35	0° <del>م</del>	
dese. Hode	12397 Feb 20 06:04	0° <b>Υ</b>			12399 Nov 05 21:26	o° <b>m</b>	
	12397 Mar 16 18:58	0°8		asc. node	12399 Nov 06 11:35	0°M43'10	
	12397 Apr 10 09:50	0°II		use. House	12399 Nov 30 09:44	0° <b>⊼</b> 7	
	12397 May 05 05:47	0ა <b>©</b>			12399 Dec 24 19:25	0°ਰ	
asc. node	12397 May 21 07:54	19° <b>©</b> 09'05		morning set	12400 Jan 04 11:25	13° <b>る</b> 08'32	
	12397 May 30 13:58	$0^{\circ}\Omega$		3	12400 Jan 18 03:35	0° <b>≈</b>	
	12397 Jun 26 02:27	0° m)		max. Earth dist.	12400 Feb 09 11:56	27° <b>≈</b> 34'32	1.73057 AU
evening max el	12397 Jul 11 20:44	16° m) 33'02	46°47'01				
S	12397 Jul 26 02:19	0∘ <u>v</u>		superior conj	12400 Feb 10 11:21	28° <b>≈</b> 46'48	0°36'37
greatest brilliancy	12397 Aug 20 05:58	16° <b>≙</b> 52'02	-4.9m	minimum elong	12400 Feb 10 19:01	29° <b>≈</b> 10′26	0°36'49
retrograde	12397 Aug 31 04:27	19° <b>≙</b> 05'04			12400 Feb 11 11:05	0° <b>∀</b>	
desc. node	12397 Sep 10 09:27	16° <b>≙</b> 58'11		desc. node	12400 Feb 26 02:16	18° <b>)</b> 04′07	
evening set	12397 Sep 14 20:44	14° <b>≏</b> 49'53			12400 Mar 06 17:57	$0$ ° $\Upsilon$	
min. Earth dist.	12397 Sep 20 11:15	11° <b>≏</b> 32'24	0.27496 AU	evening rise	12400 Mar 19 16:53	16° <b>Y</b> ′01′29	
inferior conj	12397 Sep 21 03:46	11° <b>≏</b> 07'03	-2°42'46		12400 Mar 30 23:40	$0^{\circ}$ 8	
minimum elong	12397 Sep 20 21:43	11° <b>≏</b> 16′19	2°40'50		12400 Apr 24 04:04	$\Pi$ $^{\circ}0$	
morning rise	12397 Sep 26 23:30	7° <b>≙</b> 41'30			12400 May 18 08:14	$0$ $\circ$ $\odot$	
direct	12397 Oct 12 02:11	3° <b>≙</b> 17'56			12400 Jun 11 14:40	$0$ $^{\circ}\Omega$	
greatest brilliancy	12397 Oct 21 15:01	4° <b>≏</b> 58'22	-4.8m	asc. node	12400 Jun 17 19:13	7° <b>Ω</b> 36′39	
	12397 Nov 26 08:24	$0^{\circ}$ M			12400 Jul 06 03:04	0° <b>™</b>	
morning max el	12397 Nov 30 03:37	3°M36'14	45°53'05		12400 Jul 31 03:12	0∘ <b>⊽</b>	
	12397 Dec 25 17:13	0° <b>∡</b> ¹			12400 Aug 26 02:48	$0^{\circ}$ M	
asc. node	12398 Jan 01 10:22	7° <b>∡</b> °22′28		evening max el	12400 Sep 21 03:55	27°M41'45	46°18'58
	12398 Jan 21 09:35	0°ප			12400 Sep 23 12:16	0° <b>∡</b>	
	12398 Feb 15 22:39	0° <b>≈</b>		desc. node	12400 Oct 07 18:53	12° <b>∡</b> 56′05	
	12398 Mar 12 21:03	0° <b>∀</b>		greatest brilliancy	12400 Oct 30 09:20	27° <b>∡</b> 10′04	-4.8m
	12398 Apr 06 10:25	0° <b>Υ</b>		retrograde	12400 Nov 09 21:30	29° <b>∡</b> 11'37	
desc. node	12398 Apr 23 04:42	20° <b>Y</b> ′40′17		evening set	12400 Nov 28 06:04	22° <b>₹</b> 53'24	
	12398 Apr 30 17:24	0°8		inferior conj	12400 Dec 01 10:09	20° <b>∡</b> 55′13	
	12398 May 24 19:30	0°II		minimum elong	12400 Dec 01 09:15	20° <b>₹</b> 56'37	
morning set	12398 May 30 05:48	6° <b>Ⅱ</b> 47'19		min. Earth dist.	12400 Dec 01 02:41	21° <b>х</b> 06'56	0.28891 AU
	12398 Jun 17 18:19	0∘დ		morning rise	12400 Dec 04 12:31	18° <b>₹</b> 59'43	
	12200 1 1 00 00 02	270605104	1012112	direct	12400 Dec 22 18:40	12° <b>х</b> 44'48	4.7
superior conj	12398 Jul 09 08:03	27°505'04		greatest brilliancy	12401 Jan 01 22:31	14° <b>∡</b> 736'42	-4./m
minimum elong	12398 Jul 09 18:57	27°539'15		1-	12401 Jan 26 08:45	0°る	
max. Earth dist.	12398 Jul 09 18:21 12398 Jul 11 15:47	27° <b>©</b> 37'23 0° <b>Ω</b>	1.71383 AU	asc. node	12401 Jan 28 20:55 12401 Feb 09 17:49	2°る07'41 13°る03'18	45°45'33
	12398 Aug 04 13:46	0°mp		morning max el	12401 Feb 09 17.49 12401 Feb 26 07:32	0°≈	45 45 55
asc. node	12398 Aug 04 13:40 12398 Aug 13 19:24	11° mp 33'33			12401 Mar 25 06:23	0° <b>∺</b>	
evening rise	12398 Aug 18 11:49	17° mg 24'59			12401 Apr 19 19:39	0°Υ	
evening rise	12398 Aug 18 11:49 12398 Aug 28 13:43	ე∘ <u>ი</u>			12401 May 14 15:47	%8 0°8	
	12398 Sep 21 16:53	0° <b>™</b>		desc. node	12401 May 20 18:03	7° <b>8</b> 27'08	
	12398 Oct 16 01:02	0° <b>∡</b> 7		dese. node	12401 Jun 08 01:32	0°II	
	12398 Nov 09 16:59	ਰ°0 ਰ°0			12401 Jul 02 04:55	0°©	
desc. node	12398 Dec 03 13:24	28° <b>る</b> 27'28			12401 Jul 26 05:09	$0^{\circ}\Omega$	
	12398 Dec 04 20:49	0° <b>≈</b>		morning set	12401 Aug 13 00:46	22° <b>Ω</b> 17'15	
	12398 Dec 30 18:35	0° <b>)</b> €		S	12401 Aug 19 04:46	0° <b>m</b>	
	12399 Jan 26 23:23	$0^{\circ}\mathbf{Y}$		asc. node	12401 Sep 10 09:29	27° m 43'37	
evening max el	12399 Feb 13 23:33	18° <b>Y</b> ′22'41	46°03'07		12401 Sep 12 05:12	0∘ <b>⊽</b>	
_	12399 Feb 26 14:23	$0^{\circ}$ 8			-		
greatest brilliancy	12399 Mar 25 10:51	17° <b>8</b> 29'15	-4.8m	superior conj	12401 Sep 21 04:32	11° <b>≏</b> 11'21	0°25'54
asc. node	12399 Mar 26 14:18	17° <b>8</b> 52'03		minimum elong	12401 Sep 20 22:36	10° <b>≙</b> 52'51	0°25'41
retrograde	12399 Apr 04 07:18	19° <b>8</b> 17'06		max. Earth dist.	12401 Sep 23 10:35	13° <b>≏</b> 59'44	1.72131 AU
evening set	12399 Apr 20 00:10	14° <b>8</b> 29'30			12401 Oct 06 07:10	$0^{\circ}$ M	
inferior conj	12399 Apr 25 04:11	11° <b>8</b> 22'20	6°42'52	evening rise	12401 Oct 28 22:54	$28^{\circ}$ M $07'23$	
minimum elong	12399 Apr 24 17:17	11° <b>8</b> 39'20	6°39'59		12401 Oct 30 11:17	0° <b>∡</b> ¹	
min. Earth dist.	12399 Apr 25 03:57	11° <b>8</b> 22'42	0.27643 AU		12401 Nov 23 18:49	0°ප	
morning rise	12399 Apr 29 10:12	8° <b>8</b> 46'21			12401 Dec 18 07:20	0° <b>≈</b>	
direct	12399 May 16 03:05	3° <b>8</b> 21'50		desc. node	12401 Dec 31 01:19	15° <b>≈</b> 28'30	
greatest brilliancy	12399 May 26 03:42	5° <b>8</b> 15'00	-4.9m		12402 Jan 12 02:04	0° <b>)</b> €	
	12399 Jun 29 08:50	$\Pi^{\circ}0$			12402 Feb 06 03:58	0° <b>Ƴ</b>	

	12402 Mar 03 15:20	0°B			12404 Aug 09 06:55	$0^{\circ}\Omega$	
	12402 Mar 29 20:17	0°II			12404 Sep 02 13:37	0° <b>m</b>	
asc. node	12402 Apr 22 23:40	26° <b>I</b> 100'14			12404 Sep 26 19:08	0∘ <b>⊽</b>	
ase. noue	12402 Apr 26 22:32	0°9		asc. node	12404 Oct 07 23:38	13° <b>£</b> 51'29	
evening max el	12402 Apr 27 10:54	0°930'48	46°36'19		12404 Oct 21 00:23	0° <b>M</b>	
<i>y</i>	12402 Jun 04 07:32	$0^{\circ}\Omega$		morning set	12404 Oct 23 22:45	3°M37'54	
greatest brilliancy	12402 Jun 07 01:02	1° <b>Ω</b> 03'37	-4.9m	Č	12404 Nov 14 05:42	0° <b>∡</b> 7	
retrograde	12402 Jun 16 14:33	2° <b>Ω</b> 47'33					
	12402 Jun 28 08:31	30° <b>ℝ</b> ∽		superior conj	12404 Nov 30 06:02	19° <b>∡</b> ¹48'51	1°25'55
evening set	12402 Jul 03 19:17	27° <b>5</b> 06'26		minimum elong	12404 Nov 30 04:38	19° <b>∡¹</b> 44'32	1°26'47
inferior conj	12402 Jul 07 06:14	25° <b>©</b> 01'11	7°58'16	max. Earth dist.	12404 Dec 01 22:20	21° <b>х</b> 53'26	1.73009 AU
minimum elong	12402 Jul 07 16:10	24°9545'58	7°55'48		12404 Dec 08 11:46	5°0	
min. Earth dist.	12402 Jul 07 17:28	24°9543'58	0.27125 AU		12405 Jan 01 19:29	0° <b>≈</b>	
morning rise	12402 Jul 11 12:57	22° <b>5</b> 26'51		evening rise	12405 Jan 06 06:28	5° <b>≈</b> 29'13	
direct	12402 Jul 27 23:16	17°511'21			12405 Jan 26 05:23	0° <b>∀</b>	
greatest brilliancy	12402 Aug 07 01:15	19° <b>©</b> 05'59	-4.9m	desc. node	12405 Jan 27 14:22	1° <b>)</b> 41′07	
desc. node	12402 Aug 13 01:52	21°9547'58			12405 Feb 19 17:14	0° <b>Υ</b>	
	12402 Aug 25 12:09	$0$ $\circ$ $\Omega$			12405 Mar 16 06:34	0°8	
morning max el	12402 Sep 16 04:40	19° <b>Ω</b> 26'38	46°38'20		12405 Apr 09 22:04	$\Pi$ °0	
	12402 Sep 26 12:44	0° <b>m</b> )			12405 May 04 18:57	0ං <b>ම</b>	
	12402 Oct 23 21:58	0∘ <b>⊽</b>		asc. node	12405 May 20 09:49	18° <b>©</b> 33'18	
	12402 Nov 18 22:08	0° <b>M</b> ,			12405 May 30 04:47	$0$ $^{\circ}\Omega$	
asc. node	12402 Dec 04 00:31	17° <b>M</b> 49'09			12405 Jun 25 20:54	0° m/y	
	12402 Dec 14 05:48	0° <b>⊼</b>		evening max el	12405 Jul 09 11:12	14° <b>m</b> 11'59	46°47'22
	12403 Jan 08 03:09	0° <b>ප</b>		1 '11'	12405 Jul 26 10:25	0° <b>™</b>	4.0
	12403 Feb 01 17:46	0° <b>≈</b>		greatest brilliancy	12405 Aug 17 21:28	14° <b>£</b> 31'57	-4.9m
mamina aat	12403 Feb 26 03:59	0° <b>∺</b> 20° <b>∺</b> 39'39		retrograde	12405 Aug 28 18:25	16° <b>£</b> 43'19	
morning set	12403 Mar 14 21:47 12403 Mar 22 10:56	20° <b>Υ</b> 39'39'		desc. node evening set	12405 Sep 09 11:25 12405 Sep 12 09:57	13° <b>£</b> 58'10 12° <b>£</b> 29'59	
desc. node	12403 Mar 25 16:27	4° <b>Υ</b> 00'07		min. Earth dist.	12405 Sep 12 09:57	9° <b>£</b> 10'13	0.27445 AU
desc. Hode	12403 Apr 15 14:49	4 10007 0° <b>8</b>		inferior conj	12405 Sep 18 01:36	9 <b>=</b> 1013 8° <b>≏</b> 46'24	
max. Earth dist.	12403 Apr 19 23:46	. —	1.72074 AU	minimum elong	12405 Sep 18 17:20 12405 Sep 18 12:09	8° <b>≏</b> 54'31	
max. Latur dist.	12403 Apr 17 23.40	3 02044	1.72074 AU	morning rise	12405 Sep 24 15:07	5° <b>≏</b> 18'02	2 1701
superior conj	12403 Apr 23 03:45	9° <b>8</b> 23'32	-1°02'14	direct	12405 Oct 09 15:35	ე° <b>ჲ</b> 58'05	
minimum elong	12403 Apr 22 16:27	8° <b>8</b> 48'16		greatest brilliancy	12405 Oct 19 04:36	2° <b>£</b> 38'26	-4.8m
g	12403 May 09 15:50	0°II	1 02 20	greatest similare,	12405 Nov 26 08:41	0°M	
evening rise	12403 Jun 01 17:53	28° <b>I</b> I54'00		morning max el	12405 Nov 27 16:46	1°ML16'48	45°54'16
Č	12403 Jun 02 14:58	0ಂತ		Č	12405 Dec 25 09:29	0° <b>∡</b> ¹	
	12403 Jun 26 13:57	$0^{\circ}\Omega$		asc. node	12405 Dec 31 12:22	6° <b>∡</b> ¹45'19	
asc. node	12403 Jul 16 07:47	24° <b>Ω</b> 39'02			12406 Jan 20 23:08	0°ರ	
	12403 Jul 20 14:54	0° <b>m</b> )			12406 Feb 15 10:56	0° <b>≈</b>	
	12403 Aug 13 19:58	0∘ <b>亚</b>			12406 Mar 12 08:41	0° <b>)</b> €	
	12403 Sep 07 08:06	$0^{\circ}$ M.			12406 Apr 05 21:43	$0^{\circ}$ $\Upsilon$	
	12403 Oct 02 08:34	0° <b>∡</b> 7		desc. node	12406 Apr 22 06:29	20° <b>Y</b> 11′08	
	12403 Oct 28 07:47	5°0			12406 Apr 30 04:32	$9^{\circ}$ 8	
desc. node	12403 Nov 05 04:35	8°₹44'48			12406 May 24 06:35	$\Pi$ °0	
	12403 Nov 25 06:59	0° <b>≈</b>		morning set	12406 May 27 17:02	4° <b>Ⅱ</b> 17'47	
evening max el	12403 Dec 02 07:05	6° <b>≈</b> 54'18	45°53'33		12406 Jun 17 05:22	0ಂಣ	
	12403 Dec 30 15:05	0° <b>∀</b>					
greatest brilliancy	12404 Jan 10 08:07	5° <b>¥</b> 10'51	-4.7m	superior conj	12406 Jul 06 19:39	24° <b>©</b> 36'14	
retrograde	12404 Jan 20 04:51	6° <b>¥</b> 56'34		minimum elong	12406 Jul 07 06:06	25°509'02	
evening set	12404 Feb 04 21:54	2° <b>₩</b> 09'56		max. Earth dist.	12406 Jul 06 23:00	24°9546'46	1.71376 AU
	12404 Feb 08 13:07	30°R≈	2046150		12406 Jul 11 02:48	0° <b>N</b>	
inferior conj	12404 Feb 10 11:12	28°≈48'09		1	12406 Aug 04 00:46	0° Mp	
minimum elong	12404 Feb 10 19:01	28°≈35'54		asc. node	12406 Aug 12 21:16	11° Mp 04'54	
min. Earth dist.	12404 Feb 10 23:30 12404 Feb 16 15:50	28°≈28'53 25°≈04'46	0.28487 AU	evening rise	12406 Aug 16 00:18 12406 Aug 28 00:46	14° <b>m</b> 59'31 0° <b>≏</b>	
morning rise		23 ≈04 40 21°≈12'43			•	0° <b>™</b>	
asc. node direct	12404 Feb 26 06:46 12404 Mar 02 19:09	21°≈1243 20°≈35'41			12406 Sep 21 04:04 12406 Oct 15 12:27	0°11L 0° <b>∡</b> 7	
greatest brilliancy	12404 Mar 13 16:56	20 ≈3341 22°≈47'53	-4.8m		12406 Nov 09 04:51	0°る	
51 carest offillation	12404 Mar 26 18:58	0° <b>\</b>	1.0111	desc. node	12406 Dec 02 15:23	27° <b>る</b> 56'08	
morning max el	12404 Apr 21 14:58	22° <b>∺</b> 21'32	46°22'14	acce. noue	12406 Dec 04 09:30	0°≈	
	12404 Apr 29 03:24	0° <b>Υ</b>			12406 Dec 30 08:51	0° <b>₩</b>	
	12404 May 26 10:40	0°8			12407 Jan 26 17:16	0° <b>Υ</b>	
desc. node	12404 Jun 17 06:38	25° <b>8</b> 31'07		evening max el	12407 Feb 11 12:57	16° <b>Ƴ</b> 03'18	46°02'13
	12404 Jun 21 00:53	0°II		Č	12407 Feb 26 21:43	0°8	
	12404 Jul 15 20:25	0ಂಣ		greatest brilliancy	12407 Mar 23 00:50	15° <b>8</b> 09'45	-4.8m
				-		-	

aga mada	12407 Mar 25 16:00	15° <b>8</b> 58'36		minimum alana	12400 Can 19 12:21	00 <b>0</b> 25126	0022112
asc. node	12407 Mar 25 16:08	15 <b>8</b> 58 30		minimum elong max. Earth dist.	12409 Sep 18 13:21	8° <b>♀</b> 35'26 11° <b>♀</b> 36'54	1.72097 AU
retrograde evening set	12407 Apr 01 20:43	10 <b>8</b> 37 29		max. Earth dist.	12409 Sep 20 23:34 12409 Oct 05 17:59	0°M	1.72097 AU
inferior conj	12407 Apr 17 10:51 12407 Apr 22 18:21	9° <b>8</b> 02'20	6°26'47	evening rise	12409 Oct 03 17:39 12409 Oct 26 14:51	25°M54'40	
	-	9° <b>8</b> 19'18	6°23'48	evening rise	12409 Oct 20 14:31 12409 Oct 29 22:06	23 11 <b>6</b> 34 40	
minimum elong min. Earth dist.	12407 Apr 22 07:27 12407 Apr 22 18:30	9° <b>8</b> 02'06	0.27664 AU		12409 Oct 29 22:06 12409 Nov 23 05:45	0°중	
morning rise	12407 Apr 27 03:48	6° <b>8</b> 21'15	0.27004 AU		12409 Nov 23 03.43 12409 Dec 17 18:32	0°≈	
direct	12407 Apr 27 03.48 12407 May 13 16:49	1° <b>8</b> 01'08		desc. node	12409 Dec 30 03:19	0 ≈ 15°≈00'04	
greatest brilliancy	12407 May 23 19:28	2° <b>8</b> 55'45	-4 9m	desc. node	12409 Dec 30 03:19 12410 Jan 11 13:45	0° <b>\</b>	
greatest offinality	12407 Jun 29 09:33	2 <b>O</b> 33 43	-4.9111		12410 Feb 05 16:24	0° <b>Υ</b>	
morning max el	12407 Jul 29 09:35	3° <b>∏</b> 40′52	46°57'06		12410 Mar 03 05:01	0°8	
desc. node	12407 Jul	16° <b>Ⅱ</b> 51'51	40 37 00		12410 Mar 29 12:28	0°II	
dese. Hode	12407 Jul 27 16:28	0°9		asc. node	12410 Apr 22 01:41	25° <b>Ⅱ</b> 11'02	
	12407 Aug 22 17:00	0° <b>U</b>		evening max el	12410 Apr 25 01:11	28° <b>I</b> 10'31	46°35'24
	12407 Sep 16 21:38	0° <b>m</b> )		evening max er	12410 Apr 26 21:31	0°95	40 33 24
	12407 Oct 11 17:37	0∘ <b>⊽</b>		greatest brilliancy	12410 Jun 04 13:36	28°938'51	-4.9m
	12407 Nov 05 08:55	o° <b>m</b> .		greatest orimaney	12410 Jun 09 17:38	0° <b>Ω</b>	1.7111
asc. node	12407 Nov 05 13:27	0°ML13'50		retrograde	12410 Jun 14 04:05	0° <b>Ω</b> 23'13	
ase. Houe	12407 Nov 29 20:52	0° <b>₹</b> 7		retrograde	12410 Jun 18 12:16	30°R9	
	12407 Dec 24 06:19	0°ਤ		evening set	12410 Jul 01 11:42	24°536'44	
morning set	12408 Jan 02 04:31	00 10°る59'51		inferior conj	12410 Jul 04 19:09	22°936'27	8°09'59
morning set	12408 Jan 17 14:22	0° <b>≈</b>		minimum elong	12410 Jul 05 04:36	22°921'58	8°07'41
max. Earth dist.	12408 Feb 07 06:57	25°≈31'50	1.73074 AU	min. Earth dist.	12410 Jul 05 05:55	22° <b>©</b> 19'56	0.27145 AU
max. Earth dist.	12400100 07 00.57	23 70 31 30	1.75074710	morning rise	12410 Jul 08 21:27	20°508'34	0.27143710
superior conj	12408 Feb 08 03:33	26° <b>≈</b> 35'25	0°39'39	direct	12410 Jul 25 12:59	14°9546'21	
minimum elong	12408 Feb 08 11:41	27°≈00'30	0°39'52	greatest brilliancy	12410 Aug 04 13:24	16°9540'04	-4.9m
minimum clong	12408 Feb 10 21:51	0° <b>₩</b>	0 37 32	desc. node	12410 Aug 12 03:49	20°9513'44	<del>-4</del> .7III
desc. node	12408 Feb 25 04:07	17° <b>∺</b> 36′25		dese. Hode	12410 Aug 26 02:02	0°Ω	
dese. Hode	12408 Mar 06 04:48	0°Υ		morning max el	12410 Sep 13 19:28	17° <b>Ω</b> 07'28	46°39'37
evening rise	12408 Mar 17 08:10	13° <b>Y</b> 46'36		morning max er	12410 Sep 15 15:20 12410 Sep 26 08:07	0° m)	40 37 37
evening rise	12408 Mar 30 10:39	0°8			12410 Oct 23 13:00	0∘ <b>⊽</b>	
	12408 Apr 23 15:16	0°II			12410 Nov 18 11:11	o° <b>m</b> .	
	12408 May 17 19:45	0°©		asc. node	12410 Dec 03 02:32	17° <b>M</b> L18'24	
	12408 Jun 11 02:37	o°Ω		use. noue	12410 Dec 13 17:46	0° <b>√</b>	
asc. node	12408 Jun 16 21:14	7° <b>Ω</b> 05'42			12411 Jan 07 14:29	0°ਰ	
ase. noue	12408 Jul 05 15:43	0° m)			12411 Feb 01 04:44	0° <b>≈</b>	
	12408 Jul 30 17:03	0∘ <del>⊽</del>			12411 Feb 25 14:47	0° <b>)</b> €	
	12408 Aug 25 19:05	0° <b>M</b> .		morning set	12411 Mar 12 12:43	18° <b>¥</b> 24'19	
evening max el	12408 Sep 18 18:20	25°M23'59	46°20'19		12411 Mar 21 21:40	0°Υ	
* · · · · · · · · · · · · · · · · · · ·	12408 Sep 23 11:48	0° <b>∡</b> 7		desc. node	12411 Mar 24 18:13	3° <b>Ƴ</b> 32'21	
desc. node	12408 Oct 06 20:48	11° <b>∡</b> 752'24			12411 Apr 15 01:32	0°8	
greatest brilliancy	12408 Oct 27 23:53	24° <b>∡</b> ¹56'05	-4.8m	max. Earth dist.	12411 Apr 17 12:26	3° <b>8</b> 03'17	1.72111 AU
retrograde	12408 Nov 07 13:36	26° <b>₹</b> 59'25			1		
evening set	12408 Nov 25 20:28	20° <b>∡</b> 742'58		superior conj	12411 Apr 20 16:54	7° <b>8</b> 01'27	-0°59'34
min. Earth dist.	12408 Nov 28 17:16	18° <b>∡</b> 756'32	0.28868 AU	minimum elong	12411 Apr 20 05:41	6° <b>8</b> 26'30	0°59'36
inferior conj	12408 Nov 29 01:54	18° <b>∡</b> ¹43'00	-8°45'37	C	12411 May 09 02:35	$\Pi^{\circ}0$	
minimum elong	12408 Nov 29 00:11	18° <b>∡</b> ¹45'41	8°44'42	evening rise	12411 May 30 05:54	26° <b>Ⅲ</b> 27'22	
morning rise	12408 Dec 02 03:59	16° <b>∡</b> 748'11		-	12411 Jun 02 01:47	0ಂಣ	
direct	12408 Dec 20 09:52	10° <b>∡</b> ³32'56			12411 Jun 26 00:54	$0^{\circ}\Omega$	
greatest brilliancy	12408 Dec 30 13:18	12° <b>∡</b> ¹24'33	-4.7m	asc. node	12411 Jul 15 09:40	24° <b>Ω</b> 10′24	
,	12409 Jan 26 14:31	0°ರ			12411 Jul 20 02:01	0° <b>m</b> )	
asc. node	12409 Jan 27 22:56	1°る10'34			12411 Aug 13 07:23	0∘ <b>ত</b>	
morning max el	12409 Feb 07 09:29	10° <b>ප</b> 51'00	45°45'04		12411 Sep 06 20:02	0°M	
	12409 Feb 26 00:50	0° <b>≈</b>			12411 Oct 01 21:29	0° <b>∡</b> ¹	
	12409 Mar 24 20:23	0° <b>∀</b>			12411 Oct 27 22:40	0°ರ	
	12409 Apr 19 08:14	$0^{\circ}$ $\Upsilon$		desc. node	12411 Nov 04 06:37	8° <b>ප</b> 07'00	
	12409 May 14 03:39	$8^{\circ}$			12411 Nov 25 03:07	0° <b>≈</b>	
desc. node	12409 May 19 20:03	6° <b>8</b> 57'18		evening max el	12411 Nov 29 22:52	4° <b>≈</b> 43'22	45°53'55
	12409 Jun 07 12:59	$\Pi^{\circ}$		-	12412 Jan 01 03:11	0° <b>∀</b>	
	12409 Jul 01 16:07	0ಂತ		greatest brilliancy	12412 Jan 07 23:42	2° <b>¥</b> 59'30	-4.7m
	12409 Jul 25 16:13	$0^{\circ}\Omega$		retrograde	12412 Jan 17 19:57	4° <b>)</b> 44'30	
morning set	12409 Aug 10 13:44	19° <b>Ω</b> 53'17		evening set	12412 Feb 02 15:53	29° <b>≈</b> 54'37	
	12409 Aug 18 15:43	0° <b>m</b> )			12412 Feb 02 12:05	30° <b>R</b> ≈	
asc. node	12409 Sep 09 11:17	27° <b>m</b> 15'14		inferior conj	12412 Feb 08 02:48	26° <b>≈</b> 35'49	-4°05'47
	12409 Sep 11 16:05	0∘ <del>⊽</del>		minimum elong	12412 Feb 08 11:06	26° <b>≈</b> 22'48	4°02'57
				min. Earth dist.	12412 Feb 08 15:11	26° <b>≈</b> 16′24	0.28520 AU
superior conj	12409 Sep 18 18:34	8° <b>≙</b> 51'42	0°22'24	morning rise	12412 Feb 14 06:03	22° <b>≈</b> 54'01	

1	12412 F 1 25 00 20	10042141			12414 4 12 12 51	100m-25125	
asc. node	12412 Feb 25 08:39	18° <b>≈</b> 43'41		evening rise	12414 Aug 13 12:51	12° m 35'25	
direct	12412 Feb 29 11:12	18° <b>≈</b> 23'19			12414 Aug 27 11:26	0° <b>⊽</b>	
greatest brilliancy	12412 Mar 11 08:26	20° <b>≈</b> 34'39	-4.8m		12414 Sep 20 14:50	0°M₊	
	12412 Mar 27 12:49	0° <b>ℋ</b>			12414 Oct 14 23:28	0° <b>≯</b> ¹	
morning max el	12412 Apr 19 05:41	20° <b>∺</b> 05′10	46°20'33		12414 Nov 08 16:19	0°ප	
	12412 Apr 28 22:26	$0^{\circ}$ Y		desc. node	12414 Dec 01 17:21	27° <b>る</b> 25'54	
	12412 May 26 01:22	$8^{\circ}$ 0			12414 Dec 03 21:51	0° <b>≈</b>	
desc. node	12412 Jun 16 08:33	24° <b>8</b> 57'41			12414 Dec 29 22:56	0° <b>∀</b>	
	12412 Jun 20 13:50	0°II			12415 Jan 26 11:18	0°Υ	
	12412 Jul 15 08:27	0°9		evening max el	12415 Feb 09 02:40	13° <b>Y</b> 45'39	46°01'20
	12412 Aug 08 18:23	0° <b>U</b>		evening max er	12415 Feb 27 07:26	0° <b>8</b>	40 01 20
						12° <b>8</b> 50'31	-4.8m
	12412 Sep 02 00:42	0° m/		greatest brilliancy	12415 Mar 20 14:22	_	-4.8m
	12412 Sep 26 05:56	0∘ <b>⊽</b>		asc. node	12415 Mar 24 18:14	14° <b>8</b> 01'30	
asc. node	12412 Oct 07 01:30	13° <b>≏</b> 24'02		retrograde	12415 Mar 30 10:32	14° <b>8</b> 38'46	
	12412 Oct 20 10:59	0° <b>M</b> ₊		evening set	12415 Apr 14 21:37	9° <b>8</b> 59'14	
morning set	12412 Oct 21 14:23	1°M24'52		inferior conj	12415 Apr 20 08:26	6° <b>8</b> 43'07	6°09'55
	12412 Nov 13 16:13	0° <b>∡</b> ¹		minimum elong	12415 Apr 19 21:37	6° <b>8</b> 59'57	6°06'54
				min. Earth dist.	12415 Apr 20 08:49	6° <b>8</b> 42'32	0.27683 AU
superior conj	12412 Nov 27 22:57	17° <b>∡</b> 40′20	1°25'37	morning rise	12415 Apr 24 21:18	3° <b>8</b> 57'13	
minimum elong	12412 Nov 27 20:48	17° <b>∡</b> ³33'40	1°26'28	C	12415 May 03 07:08	30° <b>Ŗ</b> ♈	
max. Earth dist.	12412 Nov 29 16:00	19° <b>∡</b> ′47′13	1.72988 AU	direct	12415 May 11 06:48	28° <b>Ƴ</b> 41'18	
max. Earth dist.	12412 Dec 07 22:16	0° <b>る</b>	1.72700710	direct	12415 May 19 14:14	0°8	
					,		4.0
	12413 Jan 01 06:02	0° <b>≈</b>		greatest brilliancy	12415 May 21 10:54	0° <b>8</b> 37'22	-4.9m
evening rise	12413 Jan 03 22:43	3°≈19'01			12415 Jun 29 08:37	0°II	
	12413 Jan 25 16:05	0° <b>∀</b>		morning max el	12415 Jun 30 16:59	1° <b>Ⅱ</b> 20'57	46°56'41
desc. node	12413 Jan 26 16:08	1° <b>∺</b> 13'43		desc. node	12415 Jul 14 19:45	16° <b>Ⅱ</b> 07'55	
	12413 Feb 19 04:12	$0^{\circ}$ Y			12415 Jul 27 08:34	0ಂ <b>ತಾ</b>	
	12413 Mar 15 17:57	$9^{\circ}$ 8			12415 Aug 22 06:37	$0^{\circ}\Omega$	
	12413 Apr 09 10:03	$\Pi^{\circ}0$			12415 Sep 16 09:58	0° <b>m</b>	
	12413 May 04 07:54	0°ಅ			12415 Oct 11 05:10	0∘ <b>ত</b>	
asc. node	12413 May 19 11:51	17° <b>©</b> 58'39		asc. node	12415 Nov 04 15:27	29° <b>≏</b> 46'14	
	12413 May 29 19:26	$0^{\circ}\Omega$			12415 Nov 04 19:57	0° <b>M</b>	
	12413 Jun 25 15:25	0° <b>m</b> )			12415 Nov 29 07:32	0° <b>∡</b> 7	
evening max el	12413 Jul 07 00:58	11° <b>m</b> ) 50'16	16°17'13		12415 Dec 23 16:46	0°ਤ	
evening max er	12413 Jul 26 20:44	0∘ <b>⊽</b>	40 47 43	morning set	12415 Dec 30 21:44	8° <b>る</b> 52'51	
			4.0	morning set		0°≈	
greatest brilliancy	12413 Aug 15 13:30	12° <b>£</b> 13'55	-4.9m	n d n	12416 Jan 17 00:44		1.72006 444
retrograde	12413 Aug 26 08:15	14° <b>≏</b> 23'24		max. Earth dist.	12416 Feb 05 03:17	23° <b>≈</b> 34'24	1.73096 AU
desc. node	12413 Sep 08 13:19	10° <b>≏</b> 55'48					
evening set	12413 Sep 09 23:32	10° <b>≏</b> 11'22		superior conj	12416 Feb 05 19:42	24° <b>≈</b> 25′03	
min. Earth dist.	12413 Sep 15 17:08	6° <b>₽</b> 49'25	0.27397 AU	minimum elong	12416 Feb 06 04:15	24° <b>≈</b> 51'25	0°42'52
inferior conj	12413 Sep 16 07:18	6° <b>£</b> 27'37	-1°58'23		12416 Feb 10 08:15	0° <b>)</b> €	
minimum elong	12413 Sep 16 02:49	CO O 2 412 1			124101700 10 08.13	0 /	
morning rise	12413 Sep 10 02.49	0-223431	1°56'58	desc. node	12416 Feb 24 05:56	17° <b>)</b> €09'45	
	12413 Sep 10 02.49 12413 Sep 22 06:46	2° <b>£</b> 34'31	1°56'58	desc. node			
	12413 Sep 22 06:46	2° <b>≏</b> 56'36	1°56'58	desc. node	12416 Feb 24 05:56	17° <b>ℋ</b> 09'45 0° <b>Ƴ</b>	
direct	12413 Sep 22 06:46 12413 Sep 28 23:32	2° <b>£</b> 56'36 30°RMp	1°56'58		12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16	17°¥09'45 0° <b>°</b> 11° <b>°</b> 32'12	
direct	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33	2° <b>£</b> 56'36 30°RM 28°M39'52	1°56'58		12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20	17°¥09'45 0°Ƴ 11°Ƴ32'12 0°℧	
	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55	2° <b>£</b> 56'36 30°RM 28°M39'52 0° <b>£</b>			12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09	17°米09'45 0°Υ 11°Υ32'12 0°႘ 0°Ⅱ	
greatest brilliancy	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55	2°₽56'36 30°RM 28°M39'52 0°₽ 0°₽20'50	-4.8m		12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55	17°¥09'45 0°Y 11°Y32'12 0°B 0°II 0°©	
	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46	2° <b>£</b> 56'36 30°R My 28° My39'52 0° <b>£</b> 0° <b>£</b> 20'50 28° <b>£</b> 58'08		evening rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14	17°¥09'45 0°Y 11°Y32'12 0°∀ 0°II 0°S 0°Ω	
greatest brilliancy	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22	2° <b>£</b> 56'36 30°R M 28° M39'52 0° <b>£</b> 0° <b>£</b> 20'50 28° <b>£</b> 58'08 0°M	-4.8m		12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07	17°¥09'45 0°Y 11°Y32'12 0°℧ 0°ℿ 0°Ω 6°Ω35'31	
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05	2° \$\oldsymbol{\Omega}56'36 30° R \$\oldsymbol{\Omega}\$ 28° \$\oldsymbol{\Omega}39'52 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}20'50 28° \$\oldsymbol{\Omega}58'08 0° \$\oldsymbol{\Lambda}\$ 0° \$\nleq\$\$	-4.8m	evening rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02	17° ¥ 09'45 0° ♀ 11° ♀ 32'12 0° ੲ 0° Ⅱ 0° ♀ 6° ₽ 335'31 0° ♠	
greatest brilliancy	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18	2° \$\cdot 56'36 30° R M 28° M 39'52 0° \$\cdot \cdot \	-4.8m	evening rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36	17°¥09'45 0°Y 11°Y32'12 0°8 0°∏ 0°9 0°Ω 6°Ω35'31 0°™ 0° Ω	
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15	2° \$\oldsymbol{\Omega}56'36 30° R Mp 28° Mp 39'52 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$20'50 28° \$\oldsymbol{\Omega}58'08 0° ML 0° \$\oldsymbol{\Z}\$ 6° \$\oldsymbol{\Z}\$09'18 0° \$\oldsymbol{\Z}\$	-4.8m	evening rise asc. node	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14	17° ¥ 09'45 0° Y 11° Y 32'12 0° B 0° II 0° S 0° A 6° A 35'31 0° III 0° S 0° III	
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18	2° \$\Delta 56'36 30° R M 28° M 39'52 0° \$\Delta 0° \$\Delta 20'50 28° \$\Delta 58'08 0° M 0° \$\mathrightarrow 100' \text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18}	-4.8m	evening rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36	17° ¥ 09'45 0° Y 11° Y 32'12 0° B 0° II 0° S 0° Ω 6° Ω 35'31 0° II 0° II 0° II 0° II 23° II 09'55	46°21'39
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15	2° \$\oldsymbol{\Omega} 56'36 30° R M; 28° M; 39'52 0° \$\oldsymbol{\Omega} 20'50 28° \$\oldsymbol{\Omega} 58'08 0° M. 0° \$\oldsymbol{\Z} 09'18 0° \$\oldsymbol{\Z} 0° \oldsymbol{\Z} 00' \oldsymbol{\Z} 0° \oldsymbo	-4.8m	evening rise asc. node	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14	17° ¥ 09'45 0° Y 11° Y 32'12 0° B 0° II 0° © 0° Ω 6° Ω 35'31 0° ID 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL	46°21'39
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52	2° \$\Delta 56'36 30° R M 28° M 39'52 0° \$\Delta 0° \$\Delta 20'50 28° \$\Delta 58'08 0° M 0° \$\mathrightarrow 100' \text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18} 0° \$\text{ \$\delta 00'18}	-4.8m	evening rise asc. node	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47	17° ¥ 09'45 0° Y 11° Y 32'12 0° B 0° II 0° S 0° Ω 6° Ω 35'31 0° II 0° II 0° II 0° II 23° II 09'55	46°21'39
greatest brilliancy morning max el	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58	2° \$\oldsymbol{\Omega} 56'36 30° R M; 28° M; 39'52 0° \$\oldsymbol{\Omega} 20'50 28° \$\oldsymbol{\Omega} 58'08 0° M. 0° \$\oldsymbol{\Z} 09'18 0° \$\oldsymbol{\Z} 0° \oldsymbol{\Z} 00' \oldsymbol{\Z} 0° \oldsymbo	-4.8m	evening rise  asc. node  evening max el	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58	17° ¥ 09'45 0° Y 11° Y 32'12 0° B 0° II 0° © 0° Ω 6° Ω 35'31 0° ID 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL 0° IL	46°21'39 -4.8m
greatest brilliancy morning max el asc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40	2° \$\overline{9}56'36 30° R M; 28° M;39'52 0° \$\overline{9}\$0' \$\overline{9}\$20'50 28° \$\overline{9}58'08 0° M. 0° \$\overline{9}\$709'18 0° \$\overline{9}\$0° \$\overline{9}\$0' \$\	-4.8m	evening rise  asc. node  evening max el  desc. node	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56	17° ¥ 09'45 0° Y° 11° Y 32'12 0° ℧ 0° ℿ 0° Ω 6° Ω 35'31 0° ℿ 0° ℿ 23° ℿ 09'55 0° ズ 10° ズ 48'40	
greatest brilliancy morning max el asc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26	2° \$\overline{9}56'36 30° R M 28° M 39'52 0° \$\overline{9}\$0' \$\overline{9}\$20'50 28° \$\overline{9}58'08 0° M 0° \$\notine{9}\$0'08 0° \overline{9}\$0' \overline{9}\$0' \overline{9}\$18 0° \$\overline{9}\$0' \overline{9}\$19 0° \overline{9}\$19° \overline{9}\$43'41 0° \$\overline{9}\$	-4.8m	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06	17° ¥ 09'45 0° Y 11° Y 32'12 0° ♥ 0° II 0° © 0° Ω 6° Ω 35'31 0° M 0° M 23° M 09'55 0° ₹ 10° ₹ 48'40 22° ₹ 42'52	
greatest brilliancy morning max el asc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15	2° \$\omega 56'36 30° R M 28° M 39'52 0° \$\omega\$ 0° \$\omega 20'50 28° \$\omega 58'08 0° M 0° \$\struct 6° \$\struct 90'18 0° \$\omega\$	-4.8m	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 05 06:04 12416 Nov 23 10:27	17° ¥ 09'45 0° Y° 11° Y 32'12 0° 8 0° II 0° \$\int \text{0} \	-4.8m
greatest brilliancy morning max el asc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 25 04:16	2° \$\overline{2}56'36'36'30'\RM\\ 28° \$\mathbb{M}\39'52'\ 0° \$\overline{\Omega}\ 20'50'\ 28° \$\overline{2}58'08'\ 0° \$\mathbb{M}\ 0° \$\mathbb	-4.8m	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Nov 05 06:04 12416 Nov 23 10:27 12416 Nov 26 17:35	17° \( \) (09'45 \\ 0° \( \) (11° \( \) (32'12 \\ 0° \( \) (0° \( \) (0° \( \) (11 \\ 0° \( \) (0° \( \) (0° \( \) (0° \( \) (13 \\ 0° \( \) (0° \( \) (0° \( \) (0° \( \) (13 \\ 0° \( \) (0° \( \) (10 \\ 23° \( \) (109'55 \\ 0° \( \) (10° \( \) (48'40 \\ 22° \( \) (48'12 \\ 18° \( \) (34'11 \\ 16° \( \) (31'47	-4.8m -8°43'39
greatest brilliancy morning max el asc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15	2° \$\omega 56'36 30° R M 28° M 39'52 0° \$\omega\$ 0° \$\omega 20'50 28° \$\omega 58'08 0° M 0° \$\struct 6° \$\struct 90'18 0° \$\omega\$	-4.8m	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 05 06:04 12416 Nov 23 10:27 12416 Nov 26 17:35 12416 Nov 26 15:05	17° \( \) (09'45 \\ 0° \( \) (11° \( \) (32'12 \\ 0° \( \) (0° \(	-4.8m -8°43'39 8°42'43
greatest brilliancy morning max el asc. node desc. node	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 25 04:16 12414 Jun 16 16:00	2° \$\oldsymbol{\Omega} 56'36 30° R \$\mathbb{N}\$ 28° \$\mathbb{N}\$ 39'52 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 20'50 28° \$\oldsymbol{\Omega}\$ 258'08 0° \$\mathbb{N}\$	-4.8m 45°55'22	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 05 22:56 12416 Nov 25 06:04 12416 Nov 26 17:35 12416 Nov 26 15:05 12416 Nov 26 07:30	17° ¥ 09'45 0° ♥ 11° ♥ 32'12 0° ℧ 0° Ⅲ 0° 亞 0° Ո 6° Л 35'31 0° № 23° № 09'55 0° শ 10° ¾ 48'40 22° ¾ 42'52 24° ¾ 48'12 18° ¾ 34'11 16° ¾ 35'42 16° ¾ 47'33	-4.8m -8°43'39
greatest brilliancy morning max el asc. node desc. node morning set	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 25 04:16 12414 Jun 16 16:00	2° \$\oldsymbol{\Omega} 56'36 30° R \$\mathbb{N}\$ 28° \$\mathbb{N}\$ 39'52 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 20'50 28° \$\oldsymbol{\Omega}\$ 258'08 0° \$\mathbb{N}\$ 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega}\$ 43'41 0° \$\oldsymbol{\Omega}\$ 0° \$\oldsymbol{\Omega}\$ 1° \$\oldsymbol{\Omega}\$ 49'27 0° \$\oldsymbol{\Omega}\$ 22° \$\oldsymbol{\Omega}\$ 08'57	-4.8m 45°55'22	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 05 22:56 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 17:30 12416 Nov 26 07:30 12416 Nov 29 19:49	17° ¥ 09'45 0° Υ 11° Υ 32'12 0° ႘ 0° Π 0° Φ 0° Ω 6° Ω 35'31 0° ዂ 23° ዂ 09'55 0° ⊀ 10° ¾ 48'40 22° ¾ 42'52 24° ¾ 48'12 18° ¾ 34'11 16° ¾ 35'42 16° ¾ 47'33 14° ¾ 37'00	-4.8m -8°43'39 8°42'43
greatest brilliancy morning max el asc. node desc. node morning set superior conj minimum elong	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 23 17:15 12414 May 25 04:16 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 17:15	2° \$\oldsymbol{\Omega} 56'36 30° R M) 28° M) 39'52 0° \$\oldsymbol{\Omega} 0° \oldsymbol{\Omega} 20'50 28° \$\oldsymbol{\Omega} 58'08 0° M. 0° \$\oldsymbol{\Omega} 09'18 0° \$\oldsymbol{\Omega} 0° \oldsymbol{\Omega} 0° \oldsymbol{\Omega} 0° \oldsymbol{\Omega} 0° \oldsymbol{\Omega} 0° \oldsymbol{\Omega} 19° \oldsymbol{\Omega} 43'41 0° \$\oldsymbol{\Omega} 0° \oldsymbol{\Omega} 11 1° \oldsymbol{\Omega} 449'27 0° \$\oldsymbol{\Omega} 22° \$\oldsymbol{\Omega} 08'57 22° \$\oldsymbol{\Omega} 08'57 22° \$\oldsymbol{\Omega} 40'04	-4.8m 45°55'22 -1°17'11 1°17'49	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 05 22:56 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 07:30 12416 Nov 29 19:49 12416 Dec 18 01:29	17° ¥ 09'45 0° Υ 11° Υ 32'12 0° ႘ 0° Π 0° Ω 6° Ω 35'31 0° m 0° Ω 23° M 09'55 0° ¼ 10° ¾ 48'40 22° ¾ 42'52 24° ¾ 48'12 18° ¾ 34'11 16° ¾ 31'47 16° ¾ 35'42 16° ¾ 47'33 14° ¾ 37'00 8° ¾ 22'16	-4.8m -8°43'39 8°42'43 0.28842 AU
greatest brilliancy morning max el asc. node desc. node morning set	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 25 04:16 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 03:05	2° \$\overline{9}56'36 30° R M) 28° M)39'52 0° \$\overline{9}\$0' \$\overline{9}\$20'50 28° \$\overline{9}58'08 0° M. 0° \$\overline{9}\$0' \$\overlin	-4.8m 45°55'22	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 07:30 12416 Nov 29 19:49 12416 Dec 18 01:29 12416 Dec 28 03:21	17° ¥ 09'45 0° Y 11° Y 32'12 0° ♥ 0° II 0° © 0° II 0° © 0° II 0° © 0° II 23° II 09'55 0° № 10° № 48'40 22° ※ 42'52 24° ※ 48'12 18° ※ 34'11 16° ※ 35'42 16° ※ 47'33 14° ※ 37'00 8° ※ 22'16 10° ※ 12'54	-4.8m -8°43'39 8°42'43 0.28842 AU
greatest brilliancy morning max el asc. node desc. node morning set superior conj minimum elong	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 23 17:15 12414 May 25 04:16 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 03:05 12414 Jul 04 03:05 12414 Jul 04 03:05	2° \$\overline{9}56'36 30° R M) 28° M)39'52 0° \$\overline{9}\$0' \$\overline{9}\$20'50 28° \$\overline{9}58'08 0° M. 0° \$\overline{9}\$0' \$\overlin	-4.8m 45°55'22 -1°17'11 1°17'49	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 25 06:04 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 27 19:49 12416 Nov 28 19:49 12416 Dec 18 01:29 12416 Dec 28 03:21 12417 Jan 26 17:48	17° ¥ 09'45 0° Y 11° Y 32'12 0° ♥ 0° II 0° © 0° II 0° © 0° II 0° © 0° II 23° III 09'55 0° II 10° II 48'40 22° II 48'40 22° II 48'40 22° II 48'41 16° II 48'41 18' II 48'41 II 48'4	-4.8m -8°43'39 8°42'43 0.28842 AU
greatest brilliancy morning max el asc. node desc. node morning set superior conj minimum elong	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 23 17:15 12414 May 25 04:16 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 07:25 12414 Jul 04 07:26 12414 Jul 04 07:26 12414 Jul 04 07:20	2° \$\omega 56'36 30° R M 28° M 39'52 0° \$\omega\$ 0° \$\omega 20'50 28° \$\omega 58'08 0° M 0° \$\omega\$ 0° \Omega 0° \Omega 0° \Omega 0' \Omega 0° \	-4.8m 45°55'22 -1°17'11 1°17'49	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy asc. node	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 07:30 12416 Nov 29 19:49 12416 Dec 18 01:29 12416 Dec 28 03:21	17° ¥ 09'45 0° ♥ 11° ♥ 32'12 0° ♥ 0° Ⅲ 0° № 0° № 0° № 0° № 0° № 23° № 09'55 0° № 10° № 42'52 24° № 48'40 22° № 42'52 24° № 48'12 18° № 33'4'1 16° № 33'42 16° № 47'33 14° № 37'00 8° № 22'16 10° № 12'54 0° ♥ 0° ♥ 515'41	-4.8m -8°43'39 8°42'43 0.28842 AU -4.7m
greatest brilliancy morning max el asc. node desc. node morning set superior conj minimum elong	12413 Sep 22 06:46 12413 Sep 28 23:32 12413 Oct 07 04:33 12413 Oct 15 16:55 12413 Oct 16 18:55 12413 Nov 25 05:46 12413 Nov 26 07:22 12413 Dec 25 01:05 12413 Dec 30 14:18 12414 Jan 20 12:15 12414 Feb 14 22:52 12414 Mar 11 19:58 12414 Apr 05 08:40 12414 Apr 21 08:26 12414 Apr 29 15:18 12414 May 23 17:15 12414 May 23 17:15 12414 May 25 04:16 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 07:20 12414 Jul 04 03:05 12414 Jul 04 03:05 12414 Jul 04 03:05	2° \$\overline{9}56'36 30° R M) 28° M)39'52 0° \$\overline{9}\$0' \$\overline{9}\$20'50 28° \$\overline{9}58'08 0° M. 0° \$\overline{9}\$0' \$\overlin	-4.8m 45°55'22 -1°17'11 1°17'49	evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12416 Feb 24 05:56 12416 Mar 05 15:19 12416 Mar 14 23:16 12416 Mar 29 21:20 12416 Apr 23 02:09 12416 May 17 06:55 12416 Jun 10 14:14 12416 Jun 15 23:07 12416 Jul 05 04:02 12416 Jul 30 06:36 12416 Aug 25 11:14 12416 Sep 16 09:47 12416 Sep 23 11:58 12416 Oct 05 22:56 12416 Oct 25 14:06 12416 Nov 25 06:04 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 26 17:35 12416 Nov 27 19:49 12416 Nov 28 19:49 12416 Dec 18 01:29 12416 Dec 28 03:21 12417 Jan 26 17:48	17° ¥ 09'45 0° Y 11° Y 32'12 0° ♥ 0° II 0° © 0° II 0° © 0° II 0° © 0° II 23° III 09'55 0° II 10° II 48'40 22° II 48'40 22° II 48'40 22° II 48'41 16° II 48'41 18' II 48'41 II 48'4	-4.8m -8°43'39 8°42'43 0.28842 AU -4.7m

	12417 Feb 25 17:22	0°æ		dd.	12410 N 02 00-26	7° <b>る</b> 28'52	
		0° <b>¥</b>		desc. node	12419 Nov 03 08:36		
	12417 Mar 24 09:56				12419 Nov 24 23:54	0° <b>≈</b>	4505 411 7
	12417 Apr 18 20:30	0°Υ		evening max el	12419 Nov 27 13:53	2°≈30'43	45°54'17
	12417 May 13 15:14	0°8			12420 Jan 03 11:16	0° <b>∀</b>	
desc. node	12417 May 18 21:59	6° <b>8</b> 28'00		greatest brilliancy	12420 Jan 05 15:40	0° <b>)</b> 48'49	-4.7m
	12417 Jun 07 00:10	0° <b>I</b> I		retrograde	12420 Jan 15 10:42	2° <b>∺</b> 32'56	
	12417 Jul 01 03:03	0ංම			12420 Jan 26 19:39	30°R <b>≈</b>	
	12417 Jul 25 02:58	$0$ $\circ$ $\Omega$		evening set	12420 Jan 31 10:01	27° <b>≈</b> 39'29	
morning set	12417 Aug 08 02:35	17° <b>Ω</b> 29'57		inferior conj	12420 Feb 05 18:30	24° <b>≈</b> 24'02	
	12417 Aug 18 02:21	0° <b>m</b> )		minimum elong	12420 Feb 06 03:15	24° <b>≈</b> 10′18	4°21'10
asc. node	12417 Sep 08 13:09	26° Mp 48'06		min. Earth dist.	12420 Feb 06 07:13	24° <b>≈</b> 04'03	0.28552 AU
	12417 Sep 11 02:38	0∘ <b>⊽</b>		morning rise	12420 Feb 11 20:09	20° <b>≈</b> 43′58	
				asc. node	12420 Feb 24 10:42	16° <b>≈</b> 19'51	
superior conj	12417 Sep 16 08:30	6° <b>£</b> 32'36	0°18'52	direct	12420 Feb 27 02:51	16° <b>≈</b> 11'17	
minimum elong	12417 Sep 16 04:03	6° <b>≙</b> 18'44	0°18'40	greatest brilliancy	12420 Mar 09 00:27	18° <b>≈</b> 22'21	-4.8m
max. Earth dist.	12417 Sep 18 14:51	9° <b>£</b> 22'04	1.72065 AU		12420 Mar 28 01:56	0° <b>)</b>	
	12417 Oct 05 04:30	$0^{\circ}$ M.		morning max el	12420 Apr 16 19:48	17° <b>)</b> 47'29	46°18'57
evening rise	12417 Oct 24 06:53	23°M43'00			12420 Apr 28 16:53	$0^{\circ}$ Y	
	12417 Oct 29 08:39	0° <b>∡</b> 7			12420 May 25 15:53	$9^{\circ}$ 8	
	12417 Nov 22 16:26	8°0		desc. node	12420 Jun 15 10:26	24° <b>8</b> 24'10	
	12417 Dec 17 05:29	0° <b>≈</b>			12420 Jun 20 02:44	$\Pi^{\circ}$	
desc. node	12417 Dec 29 05:09	14° <b>≈</b> 32'00			12420 Jul 14 20:32	0°9	
	12418 Jan 11 01:09	0° <b>)</b> €			12420 Aug 08 05:58	$0^{\circ}\Omega$	
	12418 Feb 05 04:35	0°Υ			12420 Sep 01 11:54	0° mp	
	12418 Mar 02 18:35	0°8			12420 Sep 25 16:51	0∘ <del>⊽</del>	
	12418 Mar 29 04:46	0°II		asc. node	12420 Oct 06 03:28	0 <b>—</b> 12° <b>Ω</b> 56'33	
asc. node	12418 Apr 21 03:43	24° <b>I</b> [21'14		morning set	12420 Oct 19 05:43	29° <b>£</b> 10′28	
evening max el	12418 Apr 22 15:45	25° <b>I</b> 51'10	46024112	morning set	12420 Oct 19 03:43 12420 Oct 19 21:42	0°M	
evening max er	•	0°95	40 34 12			0° <b>⊼</b> 7	
	12418 Apr 26 21:28		4.0		12420 Nov 13 02:49	0 X	
greatest brilliancy	12418 Jun 02 02:25	26°914'19	-4.9m		12420 N 25 15.40	150.721122	1925112
retrograde	12418 Jun 11 17:12	27°958'24		superior conj	12420 Nov 25 15:48	15° 🗷 31'22	1°25'12
evening set	12418 Jun 29 03:56	22°507'00	0020150	minimum elong	12420 Nov 25 12:54	15° <b>₹</b> 22'23	1°26'02
inferior conj	12418 Jul 02 07:56	20°511'33	8°20'50	max. Earth dist.	12420 Nov 27 08:37	17° <b>∡</b> ³37'33	1.72965 AU
minimum elong	12418 Jul 02 16:49	19° <b>©</b> 57'54	8°18'43		12420 Dec 07 08:51	0°ප	
min. Earth dist.	12418 Jul 02 18:21	19° <b>©</b> 55'32	0.27162 AU		12420 Dec 31 16:41	0° <b>≈</b>	
morning rise	12418 Jul 06 05:41	17° <b>©</b> 50'03		evening rise	12421 Jan 01 15:06	1°≈08'57	
direct	12418 Jul 23 02:23	12° <b>©</b> 21'22			12421 Jan 25 02:54	0° <b>∀</b>	
greatest brilliancy	12418 Aug 02 01:27	14°©13'57	-4.9m	desc. node	12421 Jan 25 18:02	0° <b>)</b> 46′21	
desc. node	12418 Aug 11 05:48	18° <b>©</b> 42'57			12421 Feb 18 15:17	$0$ ° $\mathbf{\gamma}$	
	12418 Aug 26 12:14	$0$ $^{\circ}\Omega$			12421 Mar 15 05:27	$0^{\circ}$ 8	
morning max el	12418 Sep 11 09:21	14° <b>Ω</b> 46′22	46°40'57		12421 Apr 08 22:10	$\Pi$ $\circ 0$	
	12418 Sep 26 02:45	0° <b>m</b> ∕			12421 May 03 21:01	0°ಅ	
	12418 Oct 23 03:34	0∘ <b>⊽</b>		asc. node	12421 May 18 13:45	17° <b>5</b> 23'06	
	12418 Nov 17 23:55	0°M			12421 May 29 10:23	$0^{\circ}\Omega$	
asc. node	12418 Dec 02 04:20	16°M47'43			12421 Jun 25 10:38	0° <b>m</b>	
	12418 Dec 13 05:30	0° <b>∡</b> ¹		evening max el	12421 Jul 04 13:59	9° <b>m</b> 26'03	46°47'53
	12419 Jan 07 01:38	ರ°0			12421 Jul 27 11:10	0∘ <b>⊽</b>	
	12419 Jan 31 15:33	0° <b>≈</b>		greatest brilliancy	12421 Aug 13 05:08	9° <b>£</b> 53'58	-4.9m
	12419 Feb 25 01:25	0° <b>∀</b>		retrograde	12421 Aug 23 21:49	12° <b>≏</b> 02'03	
morning set	12419 Mar 10 03:58	16° <b>)</b> 10′27		evening set	12421 Sep 07 13:03	7° <b>≙</b> 50'36	
Ü	12419 Mar 21 08:14	$0^{\circ}\Upsilon$		desc. node	12421 Sep 07 15:28	7° <b>≏</b> 47'21	
desc. node	12419 Mar 23 20:12	3° <b>Y</b> 05'43		inferior conj	12421 Sep 13 20:57	4° <b>≙</b> 07'14	-1°35'37
	12419 Apr 14 12:08	0°8		minimum elong	12421 Sep 13 17:18	4° <b>♀</b> 12'52	
max. Earth dist.	12419 Apr 14 23:47		1.72153 AU	min. Earth dist.	12421 Sep 13 08:16		0.27354 AU
max. Lartii dist.	1241) Apr 14 25.47	0 03017	1.72133710	morning rise	12421 Sep 19 00:10	ე° <b>ჲ</b> 33'52	0.27554710
superior conj	12419 Apr 18 06:12	4° <b>8</b> 40'22	-0°56'47		12421 Sep 19 22:04 12421 Sep 20 23:54	30°RM)	
minimum elong	12419 Apr 17 19:10	4° <b>8</b> 05'59		direct	12421 Oct 04 17:10	26° Mp 19'41	
mmmum ciong	12419 May 08 13:16	0°Ⅱ	3 30 10	greatest brilliancy	12421 Oct 04 17:10 12421 Oct 14 09:28	28° Mp 02'03	-4.8m
evening rise	12419 May 08 13:16 12419 May 27 17:45	0°Ⅱ 24°Ⅱ00'27		greatest of illiancy	12421 Oct 14 09:28 12421 Oct 19 05:00	0° <b>⊡</b>	- <del>-1</del> .0111
evening 1150	•	24 H0027 0°ഇ		morning may al			15°56'11
	12419 Jun 01 12:35			morning max el	12421 Nov 22 19:11	26° <b>£</b> 39'28	+3 JU41
1	12419 Jun 25 11:51	0° <b>Ω</b>			12421 Nov 26 05:29	0°M.	
asc. node	12419 Jul 14 11:27	23° <b>Ω</b> 41'31			12421 Dec 24 16:41	0° <b>∡</b> 7	
	12419 Jul 19 13:09	0° Mp		asc. node	12421 Dec 29 16:15	5° <b>∡</b> ³32'57	
	12419 Aug 12 18:48	0∘ <b>⊽</b>			12422 Jan 20 01:27	5°0	
	12419 Sep 06 08:00	0° <b>M</b>			12422 Feb 14 10:56	0° <b>≈</b>	
	12419 Oct 01 10:26	0° <b>∡</b>			12422 Mar 11 07:26	0° <b>∀</b>	
	12419 Oct 27 13:44	0° <b>ප</b>			12422 Apr 04 19:48	$\mathbf{\gamma}_{0}$	

desc. node	12422 Apr 20 10:19	19° <b>Ƴ</b> 15'23		greatest brilliancy	12424 Oct 23 04:26	20° <b>∡</b> ¹28'50	-4.8m
dese. Hode	12422 Apr 29 02:16	0° <b>8</b>		retrograde	12424 Nov 02 22:30	20 × 2030 22° × 35'44	- <del>4</del> .0111
morning set	12422 May 22 15:53	29° <b>8</b> 21'44		evening set	12424 Nov 21 00:09	16° <b>₹</b> 24'53	
	12422 May 23 04:08	0°II		inferior conj	12424 Nov 24 09:17	14° <b>√</b> 19'26	-8°40'56
	12422 Jun 16 02:49	0°©		minimum elong	12424 Nov 24 05:59	14° <b>∡</b> °24'35	
				min. Earth dist.	12424 Nov 23 21:42	14° <b>х</b> 37'33	0.28813 AU
superior conj	12422 Jul 01 19:17	19° <b>5</b> 641'49	-1°18'55	morning rise	12424 Nov 27 11:58	12° <b>∡</b> ¹24'07	
minimum elong	12422 Jul 02 04:36	20°5511'03	1°19'37	direct	12424 Dec 15 17:30	6° <b>∡</b> 10'39	
max. Earth dist.	12422 Jul 01 10:22	19° <b>5</b> 13'49	1.71378 AU	greatest brilliancy	12424 Dec 25 17:07	7° <b>∡</b> ′59'41	-4.7m
	12422 Jul 10 00:13	$0^{\circ}\Omega$		asc. node	12425 Jan 26 02:53	29° <b>∡</b> °21′02	
	12422 Aug 02 22:14	0° <b>™</b>			12425 Jan 26 20:01	ರ°ರ	
evening rise	12422 Aug 11 01:28	10° <b>Tp</b> 10'49		morning max el	12425 Feb 02 17:38	6° <b>る</b> 29'58	45°43'59
asc. node	12422 Aug 11 01:00	10° <b>m</b> 09'21			12425 Feb 25 09:59	0° <b>≈</b>	
	12422 Aug 26 22:22	0∘ <b>⊽</b>			12425 Mar 23 23:44	0° <b>)</b> €	
	12422 Sep 20 01:56	$0^{\circ}$ M			12425 Apr 18 09:02	$0^{\circ}$ Y	
	12422 Oct 14 10:49	0° <b>∡</b> ¹			12425 May 13 03:06	$0^{\circ}$ 8	
	12422 Nov 08 04:09	0° <b>ろ</b>		desc. node	12425 May 17 23:45	5° <b>8</b> 57'20	
desc. node	12422 Nov 30 19:13	26° <b>る</b> 54'13			12425 Jun 06 11:39	$\Pi$ °0	
	12422 Dec 03 10:36	0° <b>≈</b>			12425 Jun 30 14:17	0ა <b>ௐ</b>	
	12422 Dec 29 13:29	0° <b>∀</b>			12425 Jul 24 14:03	$0$ $\circ$ $\Omega$	
	12423 Jan 26 06:07	0° <b>Υ</b>		morning set	12425 Aug 05 15:36	15° <b>Ω</b> 06′07	
evening max el	12423 Feb 06 17:15	11° <b>Y</b> ′29'34	46°00'34	_	12425 Aug 17 13:19	0° <b>m</b> )	
	12423 Feb 27 20:57	0°8		asc. node	12425 Sep 07 15:03	26° Tp 20'12	
greatest brilliancy	12423 Mar 18 03:28	10° <b>8</b> 30'21	-4.8m		12425 Sep 10 13:29	0∘ <b>⊽</b>	
asc. node	12423 Mar 23 20:17	11° <b>8</b> 59'05			12425 0 12 22 20	40 0 12112	001.510.0
retrograde	12423 Mar 28 00:53	12° <b>8</b> 19'37		superior conj	12425 Sep 13 22:39	4° <b>Ω</b> 13'13	0°15'20
evening set	12423 Apr 12 08:44	7° <b>8</b> 43'36	5052127	minimum elong	12425 Sep 13 19:00	4° <b>Ω</b> 01'51	0°15'07
inferior conj	12423 Apr 17 22:35	4° <b>8</b> 23'19	5°52'27	behind sun begin	12425 Sep 13 10:25	3° <u>₽</u> 35'03	
minimum elong	12423 Apr 17 11:55	4° <b>8</b> 39'53 4° <b>8</b> 22'48	5°49'25	behind sun end	12425 Sep 14 03:36	4° <b>£</b> 28'39	1 72020 ATT
min. Earth dist. morning rise	12423 Apr 17 22:56 12423 Apr 22 14:50	1° <b>8</b> 32'48	0.27702 AU	max. Earth dist.	12425 Sep 16 07:51 12425 Oct 04 15:17	7° <b>≙</b> 11'38 0° <b>ጤ</b>	1.72028 AU
morning rise	12423 Apr 25 10:25	1 O3248 30°RΥ		evening rise	12425 Oct 04 13:17 12425 Oct 21 23:07	21°M31'05	
direct	12423 Apr 23 10.23 12423 May 08 21:29	26° <b>Υ</b> 21'02		evening rise	12425 Oct 28 19:29	21 IIC31 03 0° <b>√</b>	
greatest brilliancy	12423 May 19 01:57	28° <b>Υ</b> 17'58	-4.9m		12425 Nov 22 03:25	%ਰ	
greatest orimancy	12423 May 23 02:11	0°8	-4.7111		12425 Dec 16 16:46	0° <b>≈</b>	
morning max el	12423 Jun 28 08:16	29° <b>8</b> 02'39	46°56'18	desc. node	12425 Dec 28 07:03	0 <b>∞</b> 14° <b>≈</b> 03'03	
morning max cr	12423 Jun 29 07:01	0°II	40 30 10	dese. Hode	12426 Jan 10 12:57	0° <b>∀</b>	
desc. node	12423 Jul 13 21:43	15° <b>Ⅲ</b> 23'53			12426 Feb 04 17:12	0°Υ	
dese. node	12423 Jul 27 00:39	0.2 2			12426 Mar 02 08:36	0°8	
	12423 Aug 21 20:20	0°N			12426 Mar 28 21:42	0°II	
	12423 Sep 15 22:30	0° m)		evening max el	12426 Apr 20 05:37	23° <b>Ⅱ</b> 29'18	46°33'00
	12423 Oct 10 17:00	0∘ <u>⊽</u>		asc. node	12426 Apr 20 05:37	23° <b>Ⅱ</b> 29'18	
asc. node	12423 Nov 03 17:13	29° <b>≙</b> 16'56			12426 Apr 26 23:01	0°ಅ	
	12423 Nov 04 07:18	$0^{\circ}$ M		greatest brilliancy	12426 May 30 15:48	23° <b>©</b> 49'45	-4.9m
	12423 Nov 28 18:33	0° <b>∡</b> ¹		retrograde	12426 Jun 09 05:47	25° <b>©</b> 32'53	
	12423 Dec 23 03:35	ರ°ರ		evening set	12426 Jun 26 20:04	19° <b>5</b> 37'00	
morning set	12423 Dec 28 14:53	6° <b>る</b> 44'33		inferior conj	12426 Jun 29 20:49	17° <b>5</b> 46'05	8°30'37
	12424 Jan 16 11:28	0°≈		minimum elong	12426 Jun 30 05:02	17° <b>©</b> 33'26	8°28'43
				min. Earth dist.	12426 Jun 30 07:09	17° <b>©</b> 30'11	0.27180 AU
superior conj	12424 Feb 03 11:52	22° <b>≈</b> 13'40	0°45'33	morning rise	12426 Jul 03 14:00	15° <b>©</b> 30'55	
minimum elong	12424 Feb 03 20:45	22° <b>≈</b> 41'07	0°45'48	direct	12426 Jul 20 15:29	9° <b>©</b> 55'38	
max. Earth dist.	12424 Feb 03 00:31	21° <b>≈</b> 38'39	1.73110 AU	greatest brilliancy	12426 Jul 30 14:12	11° <b>©</b> 47'39	-4.9m
	12424 Feb 09 19:00	0° <b>∀</b>		desc. node	12426 Aug 10 07:53	17° <b>©</b> 14'31	
desc. node	12424 Feb 23 07:52	16° <b>)</b> 42′27			12426 Aug 26 20:06	$0$ $\circ$ $\Omega$	
	12424 Mar 05 02:09	0° <b>Υ</b>		morning max el	12426 Sep 08 22:24	12° <b>Ω</b> 22′03	46°42'22
evening rise	12424 Mar 12 14:28	9° <b>℃</b> 17'10			12426 Sep 25 21:13	0° <b>m</b> y	
	12424 Mar 29 08:20	0° <b>B</b>			12426 Oct 22 18:14	0° <b>™</b>	
	12424 Apr 22 13:23	0° <b>Ⅱ</b>		1	12426 Nov 17 12:48	0°M	
	12424 May 16 18:27	0° <b>⊙</b>		asc. node	12426 Dec 01 06:16	16°M16'51	
aga mada	12424 Jun 10 02:14	0°N			12426 Dec 12 17:24	0°⊀ 0° <b>≍</b>	
asc. node	12424 Jun 15 00:59	6° <b>Ω</b> 04'08 0° <b>m</b>			12427 Jan 06 12:59	% ⊗°0 š0	
	12424 Jul 04 16:45 12424 Jul 29 20:35	0ം <b>⊽</b>			12427 Jan 31 02:37 12427 Feb 24 12:20	0° <b>∺</b>	
	12424 Jul 29 20:33 12424 Aug 25 03:58	0° <b>™</b>		morning set	12427 Feb 24 12:20 12427 Mar 07 19:12	13° <b>¥</b> 55'41	
evening max el	12424 Aug 23 03.38 12424 Sep 14 01:58	20°M56'47	46°22'49	morning set	12427 Mar 07 19:12 12427 Mar 20 19:05	13 χ3341 0° <b>Υ</b>	
J. Ching max ci	12424 Sep 23 13:46	20 11 <b>3</b> 30 47	10 22 77	desc. node	12427 Mar 22 22:02	2° <b>Υ</b> '37'47	
desc. node	12424 Oct 05 00:51	9° <b>×</b> <sup>7</sup> 41'51		max. Earth dist.	12427 Apr 12 10:58	28° <b>Υ</b> '08'00	1.72196 AU
	000 00.01			under	12 10.30		1,0110

	12427 Apr 13 22:58	0°8		min. Earth dist.	12429 Sep 10 22:59		0.27316 AU
	12427 4 15 10 21	20 1 1 1 1 2 7	0052154		12429 Sep 14 08:19	30°R, M)	
superior conj	12427 Apr 15 19:31	2° <b>8</b> 18'37		morning rise	12429 Sep 17 13:05	28° Mp 10'49	
minimum elong	12427 Apr 15 08:44	1° <b>8</b> 45'04 0° <b>I</b> I	0-53-53	direct	12429 Oct 02 05:52 12429 Oct 11 23:44	23° My 58'35	4.0
avanina riaa	12427 May 08 00:10	21° <b>II</b> 33'01		greatest brilliancy		25° Mp 42'27 0° <u>₽</u>	-4.8m
evening rise	12427 May 25 05:39 12427 May 31 23:37	21 <b>ந</b> 3301		morning max el	12429 Oct 21 04:36 12429 Nov 20 09:29	0 <u>≈</u> 24° <u>≈</u> 22'38	45°58'06
	12427 Jun 24 23:02	0° <b>U</b>		morning max er	12429 Nov 26 02:50	0°M	45 56 00
asc. node	12427 Jul 13 13:27	23° <b>Ω</b> 12'25			12429 Nov 20 02:30 12429 Dec 24 08:03	0° <b>⊼</b> ¹	
asc. node	12427 Jul 19 00:33	0° m)		asc. node	12429 Dec 28 18:14	4° <b>∡</b> ¹56'55	
	12427 Aug 12 06:32	0∘ <b>⊽</b>		ase. Houe	12420 Jan 19 14:32	0° <b>궁</b>	
	12427 Sep 05 20:17	0° <b>M</b>			12430 Feb 13 22:53	0° <b>≈</b>	
	12427 Sep 30 23:44	0° <b>∡</b> 7			12430 Mar 10 18:48	0° <b>∀</b>	
	12427 Oct 27 05:12	0°ਰ			12430 Apr 04 06:52	0° <b>Υ</b>	
desc. node	12427 Nov 02 10:32	6° <b>ට</b> 49'39		desc. node	12430 Apr 19 12:05	18° <b>Ƴ</b> 46'59	
	12427 Nov 24 21:36	0° <b>≈</b>			12430 Apr 28 13:12	0°B	
evening max el	12427 Nov 25 04:00	0°≈15'28	45°54'44	morning set	12430 May 20 03:19	26° <b>8</b> 53'32	
greatest brilliancy	12428 Jan 03 07:32	28° <b>≈</b> 37'49	-4.7m	Č	12430 May 22 14:59	0°II	
,	12428 Jan 08 17:00	0° <b>)</b> €			12430 Jun 15 13:38	0° <b>©</b>	
retrograde	12428 Jan 13 01:31	0° <b>∺</b> 21'32					
	12428 Jan 17 07:58	30° <b>R</b> ≈		superior conj	12430 Jun 29 06:48	17°513'21	-1°20'32
evening set	12428 Jan 29 04:16	25° <b>≈</b> 24'02		minimum elong	12430 Jun 29 15:27	17°5540'29	1°21'15
inferior conj	12428 Feb 03 10:20	22° <b>≈</b> 12'13	-4°41'49	max. Earth dist.	12430 Jun 28 19:02	16°536'22	1.71383 AU
minimum elong	12428 Feb 03 19:27	21° <b>≈</b> 57'53	4°38'50		12430 Jul 09 11:01	$0^{\circ}\Omega$	
min. Earth dist.	12428 Feb 03 23:27	21° <b>≈</b> 51'36	0.28588 AU		12430 Aug 02 09:03	0° <b>™</b>	
morning rise	12428 Feb 09 10:14	18° <b>≈</b> 34'17		evening rise	12430 Aug 08 13:41	7° <b>m</b> 45'05	
asc. node	12428 Feb 23 12:45	14°≈00'50		asc. node	12430 Aug 10 02:50	9° <b>m</b> 41'12	
direct	12428 Feb 24 18:23	13° <b>≈</b> 59′01			12430 Aug 26 09:16	0∘ <b>⊽</b>	
greatest brilliancy	12428 Mar 06 17:12	16° <b>≈</b> 10'41	-4.8m		12430 Sep 19 12:58	$0^{\circ}$ M	
	12428 Mar 28 11:51	0° <b>)</b> €			12430 Oct 13 22:07	0° <b>∡</b> ¹	
morning max el	12428 Apr 14 10:13	15° <b>∺</b> 29'57	46°17'23		12430 Nov 07 15:58	0°ರ	
	12428 Apr 28 11:06	$0$ ° $\mathbf{\gamma}$		desc. node	12430 Nov 29 21:12	26° <b>පි</b> 23'01	
	12428 May 25 06:25	$9^{\circ}$ 8			12430 Dec 02 23:22	0° <b>≈</b>	
desc. node	12428 Jun 14 12:27	23° <b>8</b> 50'43			12430 Dec 29 04:07	0° <b>∀</b>	
	12428 Jun 19 15:43	0° <b>I</b> I			12431 Jan 26 01:17	0° <b>Υ</b>	
	12428 Jul 14 08:41	0ංම		evening max el	12431 Feb 04 08:37	9° <b>Y</b> 16′08	45°59'54
	12428 Aug 07 17:36	$0$ $\circ$ $\Omega$			12431 Feb 28 14:40	0° <b>8</b>	
	12428 Aug 31 23:11	0° <b>m</b> )		greatest brilliancy	12431 Mar 15 16:22	8° <b>8</b> 11'03	-4.8m
	12428 Sep 25 03:53	0° <b>⊽</b>		asc. node	12431 Mar 22 22:08	9° <b>8</b> 52'34	
asc. node	12428 Oct 05 05:12	12° <b>£</b> 27'59		retrograde	12431 Mar 25 15:25	10° <b>8</b> 01'17	
morning set	12428 Oct 16 20:56	26° <b>♀</b> 55'12		evening set	12431 Apr 09 20:12	5° <b>8</b> 28'46	502.4122
	12428 Oct 19 08:33	0°M		inferior conj	12431 Apr 15 12:48	2° <b>8</b> 04'25	
	12428 Nov 12 13:33	0° <b>∡</b> 7		minimum elong	12431 Apr 15 02:22	2° <b>8</b> 20'37 2° <b>8</b> 04'20	
superior conj	12428 Nov 23 08:44	13° <b>∡</b> 722'13	102420	min. Earth dist.	12431 Apr 15 12:51 12431 Apr 18 21:52	2° <b>3</b> 04°20	0.27722 AU
minimum elong	12428 Nov 23 05:06	13° <b>x</b> 11'01		morning rise	12431 Apr 18 21:32 12431 Apr 20 08:19	29° <b>Y</b> ′09′20	
max. Earth dist.	12428 Nov 25 00:23	15° <b>∡</b> 1101 15° <b>∡</b> 124'53	1.72939 AU	direct	12431 Apr 20 08.19 12431 May 06 12:32	29 <b>γ</b> 09 20 24° <b>γ</b> 01'56	
max. Earth dist.	12428 Dec 06 19:31	13 × 2433	1.72939 AU	greatest brilliancy	12431 May 16 16:33	25° <b>Υ</b> 58'51	-4.9m
evening rise	12428 Dec 30 07:41	28° <b>る</b> 59'23		greatest orimaney	12431 May 25 00:39	0° <b>8</b>	<del>-4</del> .7III
evening rise	12428 Dec 31 03:24	0°≈		morning max el	12431 Jun 25 23:34	26° <b>8</b> 45'00	46°55'33
desc. node	12429 Jan 24 20:00	0° <b>₩</b> 19'05		morning max or	12431 Jun 29 04:23	0°II	10 33 33
acce. noue	12429 Jan 24 13:46	0° <b>)</b> €		desc. node	12431 Jul 12 23:45	14° <b>Ⅱ</b> 40'55	
	12429 Feb 18 02:28	0° <b>Υ</b>		dese. Hode	12431 Jul 26 16:21	0°9	
	12429 Mar 14 17:05	0°8			12431 Aug 21 09:51	0°N	
	12429 Apr 08 10:28	0°II			12431 Sep 15 10:52	0° <b>m</b> )	
	12429 May 03 10:21	0ංම _			12431 Oct 10 04:38	0∘ <b>⊽</b>	
asc. node	12429 May 17 15:41	16°9546'56		asc. node	12431 Nov 02 19:07	28° <b>≏</b> 48'38	
	12429 May 29 01:39	$0^{\circ}\Omega$			12431 Nov 03 18:26	0° <b>M</b>	
	12429 Jun 25 06:33	0° <b>m</b> p			12431 Nov 28 05:21	0° <b>∡</b> ⊓	
evening max el	12429 Jul 02 02:56	7° mp 01'25	46°48'10		12431 Dec 22 14:11	ರ∘ರ	
	12429 Jul 28 06:45	0∘ <b>⊽</b>		morning set	12431 Dec 26 07:53	4° <b>る</b> 36'24	
greatest brilliancy	12429 Aug 10 19:58	7° <b>≙</b> 32'37	-4.9m		12432 Jan 15 21:59	0° <b>≈</b>	
retrograde	12429 Aug 21 11:33	9° <b>≙</b> 40'14					
evening set	12429 Sep 05 02:37	5° <b>£</b> 28'42		superior conj	12432 Feb 01 04:04	20° <b>≈</b> 03'06	0°48'23
desc. node	12429 Sep 06 17:24	4° <b>≙</b> 35'06		minimum elong	12432 Feb 01 13:16	20° <b>≈</b> 31′29	0°48'40
inferior conj	12429 Sep 11 10:26	1° <b>≏</b> 46'03	-1°12'34	max. Earth dist.	12432 Jan 31 20:32	19° <b>≈</b> 39'50	1.73119 AU
minimum elong	12429 Sep 11 07:37	1° <b>≏</b> 50′20	1°11'43		12432 Feb 09 05:31	0° <b>∀</b>	

desc. node	12432 Feb 22 09:40	16° <b>¥</b> 15′28			12434 Aug 27 01:01	$0$ $^{\circ}$ $\Omega$	
	12432 Mar 04 12:45	$0$ ° $\Upsilon$		morning max el	12434 Sep 06 10:53	9° <b>Ω</b> 57'37	46°43'35
evening rise	12432 Mar 10 05:45	7° <b>Ƴ</b> 03'14			12434 Sep 25 14:46	0° <b>m</b> )	
-	12432 Mar 28 19:04	0°8			12434 Oct 22 08:22	0∘ <b>ত</b>	
	12432 Apr 22 00:20	0°II			12434 Nov 17 01:17	0°M	
	12432 May 16 05:44	0°©		asc. node	12434 Nov 30 08:16	15°M47'08	
	12432 Jun 09 14:00	0° <b>U</b>		ase. Houe	12434 Dec 12 04:58	0° <b>₹</b>	
						0°る	
asc. node	12432 Jun 14 02:59	5° <b>Ω</b> 33'52			12435 Jan 06 00:01		
	12432 Jul 04 05:19	0° <b>m</b> )			12435 Jan 30 13:19	0° <b>≈</b>	
	12432 Jul 29 10:31	0∘ <b>⊽</b>			12435 Feb 23 22:53	0° <b>∺</b>	
	12432 Aug 24 20:52	0° <b>M</b>		morning set	12435 Mar 05 10:17	11° <b>¥</b> 41'32	
evening max el	12432 Sep 11 18:03	18° <b>M</b> 43'41	46°24'01		12435 Mar 20 05:34	$0^{\circ}$ Y	
	12432 Sep 23 16:56	0° <b>∡</b> ¹		desc. node	12435 Mar 21 23:48	2° <b>Ƴ</b> 10'44	
desc. node	12432 Oct 04 02:48	8° <b>∡</b> ³33'33		max. Earth dist.	12435 Apr 09 23:46	25° <b>Y</b> ′45'51	1.72239 AU
greatest brilliancy	12432 Oct 20 19:08	18° <b>∡</b> 15′25	-4.8m				
retrograde	12432 Oct 31 14:24	20° <b>₹</b> 23′04		superior conj	12435 Apr 13 08:49	29° <b>Y</b> ′57'56	-0°50'57
evening set	12432 Nov 18 13:23	14° <b>∡</b> 16′09		minimum elong	12435 Apr 12 22:21	29° <b>Y</b> 25'22	0°50'53
min. Earth dist.	12432 Nov 21 11:50	12° <b>∡</b> ′27′23	0.28779 AU		12435 Apr 13 09:29	0°8	
inferior conj	12432 Nov 22 00:45	12°× <b>2</b> ′107'10			12435 May 07 10:45	0°II	
minimum elong	12432 Nov 21 20:41	12° × 07 10		ovening rise	•	19° <b>Ⅱ</b> 07'29	
			8 30 28	evening rise	12435 May 22 17:46		
morning rise	12432 Nov 25 04:11	10° <b>∡</b> 10'43			12435 May 31 10:17	0°95	
direct	12432 Dec 13 09:16	3° <b>∡</b> 759′16			12435 Jun 24 09:48	$0$ ° $\Omega$	
greatest brilliancy	12432 Dec 23 06:33	5° <b>∡</b> ¹46'24	-4.7m	asc. node	12435 Jul 12 15:18	22° <b>Ω</b> 44'15	
asc. node	12433 Jan 25 04:53	28° <b>∡</b> ¹28'04			12435 Jul 18 11:31	0° <b>m</b> )	
	12433 Jan 26 20:35	0°₹			12435 Aug 11 17:50	0∘ <b>ত</b>	
morning max el	12433 Jan 31 08:37	4° <b>⋜</b> 17'00	45°43'29		12435 Sep 05 08:11	0° <b>M</b>	
	12433 Feb 25 02:00	0° <b>≈</b>			12435 Sep 30 12:44	0° <b>∡</b> ¹	
	12433 Mar 23 13:03	0° <b>∀</b>			12435 Oct 26 20:33	0°ರ	
	12433 Apr 17 21:08	$0^{\circ}$ Y		desc. node	12435 Nov 01 12:33	6° <b>る</b> 11'14	
	12433 May 12 14:32	0°8		evening max el	12435 Nov 22 17:53	28° <b>ろ</b> 00'25	45°55'15
desc. node	12433 May 17 01:45	5° <b>8</b> 28'37		ovening man er	12435 Nov 24 19:51	0°≈	
dese. Hode	12433 Jun 05 22:42	9° <b>П</b>		greatest brilliancy	12435 Dec 31 22:54	26°≈26'55	-4.7m
	12433 Jun 30 01:07	0°©		retrograde	12436 Jan 10 16:42	28°≈10'55	- <del>4</del> ./III
	12433 Jul 24 00:46	0° <b>U</b>		-	12436 Jan 26 22:30	23°≈08'59	
. ,				evening set			4050100
morning set	12433 Aug 03 04:28	12° <b>Ω</b> 42'49		inferior conj	12436 Feb 01 02:04	20°≈00'59	
	12433 Aug 16 23:56	0° <b>m</b> )		minimum elong	12436 Feb 01 11:31	19° <b>≈</b> 46′09	4°56'06
asc. node	12433 Sep 06 16:49	25° <b>m</b> 52'47		min. Earth dist.	12436 Feb 01 15:24	19° <b>≈</b> 40′03	0.28624 AU
	12433 Sep 10 00:02	0∘ <b>⊽</b>		morning rise	12436 Feb 07 00:06	16° <b>≈</b> 25'43	
				direct	12436 Feb 22 09:52	11° <b>≈</b> 47'16	
superior conj	12433 Sep 11 12:23	1° <b>≏</b> 53'23	0°11'43	asc. node	12436 Feb 22 14:38	11° <b>≈</b> 47'19	
minimum elong	12433 Sep 11 09:35	1° <b>≙</b> 44'40	0°11'30	greatest brilliancy	12436 Mar 04 09:56	13° <b>≈</b> 59'56	-4.8m
behind sun begin	12433 Sep 10 16:12	0° <b>ჲ</b> 50'25			12436 Mar 28 18:40	0° <b>∀</b>	
behind sun end	12433 Sep 12 02:58	2° <b>₽</b> 38'54		morning max el	12436 Apr 12 01:10	13° <b>) (</b> 14'44	46°15'50
max. Earth dist.	12433 Sep 13 23:06	4° <b>£</b> 56'35	1.71993 AU		12436 Apr 28 04:33	$0^{\circ}\mathbf{\Upsilon}$	
	12433 Oct 04 01:48	0°M			12436 May 24 20:29	0°8	
evening rise	12433 Oct 19 14:48	19°M18'12		desc. node	12436 Jun 13 14:20	23° <b>8</b> 18'02	
e vennig 1150	12433 Oct 28 06:01	0° <b>∡</b> 7		dese. Hode	12436 Jun 19 04:18	0°II	
	12433 Nov 21 14:06	°ੁੱਤ			12436 Jul 13 20:28	0°20	
	12433 Nov 21 14.06 12433 Dec 16 03:46	0°≈			12436 Aug 07 04:51	0°€ 0°€	
					Č		
desc. node	12433 Dec 27 09:02	13°≈35'14			12436 Aug 31 10:04	0° <b>m</b> )	
	12434 Jan 10 00:28	0° <b>)</b> €		_	12436 Sep 24 14:30	0° <b>⊽</b>	
	12434 Feb 04 05:33	0° <b>Υ</b>		asc. node	12436 Oct 04 07:05	12° <b>≏</b> 01'07	
	12434 Mar 01 22:27	0°B		morning set	12436 Oct 14 12:22	24° <b>≏</b> 41'43	
	12434 Mar 28 14:36	$\Pi$ °0			12436 Oct 18 19:01	0° <b>M</b>	
evening max el	12434 Apr 17 18:40	21° <b>Ⅱ</b> 06′39	46°31'55		12436 Nov 11 23:56	0° <b>∡</b> ¹	
asc. node	12434 Apr 19 07:41	22° <b>Ⅲ</b> 38′04					
	12434 Apr 27 01:25	$0$ $\circ$ $\odot$		superior conj	12436 Nov 21 01:39	11° <b>∡</b> °14′03	1°23'59
greatest brilliancy	12434 May 28 05:36	21°527'26	-4.9m	minimum elong	12436 Nov 20 21:19	11° <b>∡</b> °00'37	1°24'46
retrograde	12434 Jun 06 18:07	23° <b>©</b> 09'31		max. Earth dist.	12436 Nov 22 16:40	13° <b>∡</b> 14'45	1.72921 AU
evening set	12434 Jun 24 12:08	17° <b>©</b> 09'21			12436 Dec 06 05:54	0°ප	
inferior conj	12434 Jun 27 09:55	15°522'48	8°39'26	evening rise	12436 Dec 28 00:12	26°පි50'22	
minimum elong	12434 Jun 27 17:24	15°9511'16	8°37'42	0.0mig 1100	12436 Dec 30 13:51	0°≈	
min. Earth dist.	12434 Jun 27 20:18	15°506'48	0.27198 AU	desc. node	12437 Jan 23 21:45	0 ∞ 29°≈51'52	
			0.2/170 AU	uese. Hour			
morning rise	12434 Jun 30 22:37	13°513'56			12437 Jan 24 00:24	0° <b>)</b> €	
direct	12434 Jul 18 04:19	7°531'56	4.0		12437 Feb 17 13:25	0°Υ •••	
greatest brilliancy	12434 Jul 28 03:33	9°524'00	-4.9m		12437 Mar 14 04:30	0° <b>B</b>	
desc. node	12434 Aug 09 09:48	15°950'33			12437 Apr 07 22:35	$\Pi$ $^{\circ}0$	

	12437 May 02 23:34	0°ಅ			12420 Oct. 00, 16:16	0∘ <b>ত</b>	
	-				12439 Oct 09 16:16	0° <u>≥</u> 28° <u>♀</u> 20'31	
asc. node	12437 May 16 17:43	16°©11'28 0°Ω		asc. node	12439 Nov 01 21:05	0°M	
	12437 May 28 16:56 12437 Jun 25 02:52	0°m)			12439 Nov 03 05:35 12439 Nov 27 16:09	0 IIL 0° <b>∡</b> 7	
avaning may al	12437 Jun 29 16:46	رانا 4° <b>m</b> و 39'51	46°48'32		12439 Nov 27 10:09 12439 Dec 22 00:47	0°중	
evening max el	12437 Juli 29 18:48 12437 Jul 29 08:53	4 11√3931 0° <b>Ω</b>	40 48 32	morning sot	12439 Dec 22 00.47 12439 Dec 24 01:15	0 3 2° <b>る</b> 29'23	
areatast brillianas		0 <u>₽</u> 5° <b>₽</b> 11'51	-4.9m	morning set	12440 Jan 15 08:31	2 <b>O</b> 2923	
greatest brilliancy retrograde	12437 Aug 08 10:28 12437 Aug 19 01:57	3 <b>≗</b> 11 31 7° <b>£</b> 19'34	-4.9111		12440 Jan 15 08.51	0 ≈	
evening set	12437 Aug 19 01:37 12437 Sep 02 16:30	7 <b>=</b> 1934 3° <b>⊆</b> 07'42		superior conj	12440 Jan 29 20:38	17° <b>≈</b> 53'35	0°51'08
desc. node	12437 Sep 02 10:30 12437 Sep 05 19:19	1° <b>£</b> 21'48		minimum elong	12440 Jan 30 06:04	17 ≈33 33 18°≈22'40	0°51'25
desc. node	1			2		18°≈22′40 17°≈38′21	
:c:	12437 Sep 08 01:38	30°RM)	0940110	max. Earth dist.	12440 Jan 29 15:41	0° <b>∺</b>	1.73132 AU
inferior conj	12437 Sep 08 23:58	29° m 25'54		JJ.	12440 Feb 08 16:07	15° <b>)</b> 48′23	
minimum elong	12437 Sep 08 22:02	29° Mp 28'50	0°48'48	desc. node	12440 Feb 21 11:31	15 <del>χ</del> 4825 0° <b>Υ</b>	
min. Earth dist.	12437 Sep 08 13:26	29° Mp 41'59	0.27276 AU		12440 Mar 03 23:28	0°γ 4° <b>Υ</b> 49'14	
morning rise	12437 Sep 15 04:02	25° Mp 49'16		evening rise	12440 Mar 07 21:07		
direct	12437 Sep 29 19:07	21° m/38'42	4.0		12440 Mar 28 05:58	0° <b>∀</b>	
greatest brilliancy	12437 Oct 09 13:28	23° m 23'31	-4.8m		12440 Apr 21 11:28	0°Щ	
	12437 Oct 22 11:54	0∘ <b>⊽</b>			12440 May 15 17:14	0°95	
morning max el	12437 Nov 18 00:25	22° <b>⊆</b> 08'30	45°59'25		12440 Jun 09 02:01	0°N	
	12437 Nov 25 23:00	0° <b>M</b> .		asc. node	12440 Jun 13 04:51	5° <b>Ω</b> 02'30	
	12437 Dec 23 22:53	0° <b>∡</b> 7			12440 Jul 03 18:09	0° <b>m</b>	
asc. node	12437 Dec 27 20:08	4° <b>∡</b> 1'47			12440 Jul 29 00:48	0∘ <b>ত</b>	
	12438 Jan 19 03:17	0°ප			12440 Aug 24 14:22	0° <b>M</b> ₊	
	12438 Feb 13 10:37	0° <b>≈</b>		evening max el	12440 Sep 09 09:32	16°M28'15	46°25'10
	12438 Mar 10 06:00	0° <b>∀</b>			12440 Sep 23 22:09	0° <b>∡</b>	
	12438 Apr 03 17:47	$0$ ° $\mathbf{\gamma}$		desc. node	12440 Oct 03 04:55	7° <b>∡</b> ¹23'06	
desc. node	12438 Apr 18 14:03	18° <b>Ƴ</b> 19'35		greatest brilliancy	12440 Oct 18 10:43	16° <b>∡</b> 02′26	-4.8m
	12438 Apr 27 23:58	$0^{\circ}S$		retrograde	12440 Oct 29 05:59	18° <b>∡</b> 10′04	
morning set	12438 May 17 14:43	24° <b>8</b> 25'48		evening set	12440 Nov 16 02:31	12° <b>∡</b> 107'40	
	12438 May 22 01:42	$\Pi$ °0		min. Earth dist.	12440 Nov 19 02:28	10° <b>∡</b> 16'33	0.28738 AU
	12438 Jun 15 00:19	$0$ $\circ$ $\odot$		inferior conj	12440 Nov 19 16:22	9° <b>∡</b> ¹54'48	-8°33'22
max. Earth dist.	12438 Jun 26 04:46	14° <b>5</b> 02'34	1.71389 AU	minimum elong	12440 Nov 19 11:33	10° <b>∡</b> °02'19	8°32'13
				morning rise	12440 Nov 22 20:48	7° <b>∡</b> ¹56'41	
superior conj	12438 Jun 26 18:16	14° <b>©</b> 44'59	-1°21'59	direct	12440 Dec 11 00:46	1° <b>×7</b> 47'51	
minimum elong	12438 Jun 27 02:09	15° <b>5</b> 09'43	1°22'45	greatest brilliancy	12440 Dec 20 20:27	3° <b>∡</b> ³33'22	-4.7m
	12438 Jul 08 21:43	$0^{\circ}\Omega$		asc. node	12441 Jan 24 06:47	27° <b>∡</b> ³35'39	
	12438 Aug 01 19:48	0° <b>m</b> )			12441 Jan 26 20:04	0°ರ	
evening rise	12438 Aug 06 01:52	5° <b>m</b> 19'27		morning max el	12441 Jan 28 22:42	2° <b>る</b> 01'34	45°43'06
asc. node	12438 Aug 09 04:38	9° <b>m</b> 13'16			12441 Feb 24 17:51	0° <b>≈</b>	
	12438 Aug 25 20:04	0∘ <b>亚</b>			12441 Mar 23 02:27	0° <b>)</b> €	
	12438 Sep 18 23:53	$0^{\circ}$ M			12441 Apr 17 09:25	$0^{\circ}\mathbf{\Upsilon}$	
	12438 Oct 13 09:17	0° <b>∡</b> ¹			12441 May 12 02:14	0°8	
	12438 Nov 07 03:38	5°0		desc. node	12441 May 16 03:39	4° <b>8</b> 58'43	
desc. node	12438 Nov 28 23:10	25° <b>る</b> 52'05			12441 Jun 05 10:04	$\Pi^{\circ}$	
	12438 Dec 02 12:02	0° <b>≈</b>			12441 Jun 29 12:17	$0$ ° $\mathfrak{S}$	
	12438 Dec 28 18:49	0° <b>∀</b>			12441 Jul 23 11:47	$0^{\circ}\Omega$	
	12439 Jan 25 21:00	$0^{\circ}\mathbf{\Upsilon}$		morning set	12441 Jul 31 17:03	10° <b>Ω</b> 17'37	
evening max el	12439 Feb 02 00:22	7° <b>Ƴ</b> 03'47	45°59'03		12441 Aug 16 10:52	0° <b>m</b> y	
	12439 Mar 01 14:51	$9^{\circ}$ 8		asc. node	12441 Sep 05 18:43	25° <b>m</b> 24'50	
greatest brilliancy	12439 Mar 13 05:53	5° <b>8</b> 52'27	-4.8m				
asc. node	12439 Mar 22 00:14	7° <b>8</b> 40'59		superior conj	12441 Sep 09 01:59	29° <b>m</b> 32'13	0°08'04
retrograde	12439 Mar 23 05:42	7° <b>8</b> 42'46		minimum elong	12441 Sep 09 00:03	29° <b>m</b> 26'12	0°07'52
evening set	12439 Apr 07 07:57	3° <b>8</b> 13'49		behind sun begin	12441 Sep 08 02:24	28° Mp 18'36	
	12439 Apr 12 17:45	30° <b>₹</b> Υ		behind sun end	12441 Sep 09 21:43	0° <b>ഫ</b> 33'48	
inferior conj	12439 Apr 13 03:02	29° <b>Ƴ</b> 45'34	5°16'03		12441 Sep 09 10:53	0∘ <b>ত</b>	
minimum elong	12439 Apr 12 16:55	0° <b>8</b> 01'18	5°13'03	max. Earth dist.	12441 Sep 11 12:43	2° <b>₽</b> 35'30	1.71956 AU
min. Earth dist.	12439 Apr 13 03:01	29° <b>Ƴ</b> 45'35	0.27741 AU		12441 Oct 03 12:37	0° <b>M</b> .	
morning rise	12439 Apr 18 01:43	26° <b>Ƴ</b> 45'52		evening rise	12441 Oct 17 06:28	17° <b>M</b> .04'14	
direct	12439 May 04 03:39	21° <b>Y</b> 43'01		Č	12441 Oct 27 16:55	0° <b>∡</b> ¹	
greatest brilliancy	12439 May 14 07:06	23° <b>Y</b> 39'34	-4.9m		12441 Nov 21 01:09	7°0	
-	12439 May 26 07:58	0°8			12441 Dec 15 15:05	0° <b>≈</b>	
morning max el	12439 Jun 23 14:00	24° <b>8</b> 25'10	46°54'44	desc. node	12441 Dec 26 10:50	13° <b>≈</b> 06'00	
2	12439 Jun 29 01:02	0°II			12442 Jan 09 12:16	0° <b>)</b> €	
desc. node	12439 Jul 12 01:40	13° <b>Ⅱ</b> 58'05			12442 Feb 03 18:14	0° <b>Υ</b>	
	12439 Jul 26 07:50	0. ಕ			12442 Mar 01 12:43	0°8	
	12439 Aug 20 23:18	0°N			12442 Mar 28 08:15	0°II	
	12439 Sep 14 23:13	0° <b>m</b> )		evening max el	12442 Apr 15 06:46	18° <b>Ⅱ</b> 40'33	46°30'34
	Jep 1. 25.15	~ ·×			p. 10 00. ro	033	

asc. node	12442 Apr 18 09:41	21° <b>Ⅱ</b> 44′23		superior conj	12444 Nov 18 18:08	9° <b>∡</b> 03'01	1°23'10
	12442 Apr 27 06:07	$0$ $\circ$ $\odot$		minimum elong	12444 Nov 18 13:06	8° <b>∡</b> ¹47'24	1°23'56
greatest brilliancy	12442 May 25 19:12	19° <b>©</b> 03'03	-4.9m	max. Earth dist.	12444 Nov 20 10:27	11° <b>∡</b> 07'49	1.72899 AU
retrograde	12442 Jun 04 06:23	20°544'25			12444 Dec 05 16:42	5°0	
evening set	12442 Jun 22 03:48	14°939'57		evening rise	12444 Dec 25 16:34	24° <b>る</b> 39'35	
inferior conj	12442 Jun 24 22:51	12°957'31	8°47'14	evening rise	12444 Dec 30 00:44	0°≈	
-				1 1			
minimum elong	12442 Jun 25 05:34	12°5647'10	8°45'39	desc. node	12445 Jan 22 23:39	29° <b>≈</b> 23'46	
min. Earth dist.	12442 Jun 25 09:24	12° <b>©</b> 41'15	0.27221 AU		12445 Jan 23 11:29	0° <b>∀</b>	
morning rise	12442 Jun 28 07:16	10° <b>©</b> 54'53			12445 Feb 17 00:48	$0^{\circ}$ Y	
direct	12442 Jul 15 16:45	5° <b>©</b> 05'58			12445 Mar 13 16:20	0°B	
greatest brilliancy	12442 Jul 25 17:08	6°958'44	-4.9m		12445 Apr 07 11:03	$\Pi^{\circ}0$	
desc. node	12442 Aug 08 11:47	14° <b>©</b> 27'36			12445 May 02 13:10	$0$ $\circ$ $\mathfrak{S}$	
	12442 Aug 27 04:48	$0^{\circ}\Omega$		asc. node	12445 May 15 19:37	15° <b>©</b> 34'36	
morning max el	12442 Sep 03 23:37	7° <b>£</b> 32′02	46°44'57		12445 May 28 08:42	$0^{\circ}\Omega$	
morning max er	12442 Sep 25 08:26	0° m)	10 1137		12445 Jun 25 00:13	0° m)	
	12442 Oct 21 22:46	0∘ <b>⊽</b>		avanina may al		2°Mp19'16	16010126
				evening max el	12445 Jun 27 07:19		40 48 30
_	12442 Nov 16 14:06	0° <b>M</b> ₊			12445 Jul 30 23:12	0∘ <b>⊽</b>	
asc. node	12442 Nov 29 10:03	15°M15'46		greatest brilliancy	12445 Aug 06 00:31	2° <b>ჲ</b> 49'08	-4.9m
	12442 Dec 11 16:52	0° <b>∡</b> ¹		retrograde	12445 Aug 16 16:22	4° <b>£</b> 56'50	
	12443 Jan 05 11:23	0° <b>ප</b>		evening set	12445 Aug 31 06:28	0° <b>ჲ</b> 44'34	
	12443 Jan 30 00:23	0° <b>≈</b>			12445 Sep 01 14:49	30°R, Mp	
	12443 Feb 23 09:45	0° <b>₩</b>		desc. node	12445 Sep 04 21:28	28° Mp 04'14	
morning set	12443 Mar 03 01:56	9° <b>¥</b> 28'10		min. Earth dist.	12445 Sep 06 03:29	27° m) 18'33	0.27242 AU
morning sec	12443 Mar 19 16:23	0°Υ		inferior conj	12445 Sep 06 13:16	27° m 03'37	
desc. node	12443 Mar 21 01:46	1° <b>Υ</b> '43'22		minimum elong	12445 Sep 06 12:15	27° mp 05'09	
			1 72202 444	•	-	-•	0 23 30
max. Earth dist.	12443 Apr 07 16:14	23° <b>Y</b> '34'08	1.72283 AU	morning rise	12445 Sep 12 18:35	23° Tp 25'48	
				direct	12445 Sep 27 08:42	19° <b>m</b> 16'49	
superior conj	12443 Apr 10 22:34	27° <b>Ƴ</b> 37'41		greatest brilliancy	12445 Oct 07 02:35	21° <b>m</b> )01'51	-4.8m
minimum elong	12443 Apr 10 12:28	27° <b>Ƴ</b> 06′17	0°47'50		12445 Oct 23 11:20	0∘ <b>⊽</b>	
	12443 Apr 12 20:19	$0^{\circ}$ 8		morning max el	12445 Nov 15 15:18	19° <b>≙</b> 52'38	46°00'42
	12443 May 06 21:42	$\Pi^{\circ}$ 0			12445 Nov 25 19:06	0°M₊	
evening rise	12443 May 20 06:14	16° <b>Ⅱ</b> 41'54			12445 Dec 23 13:57	0° <b>∡</b> ¹	
<i>5</i>	12443 May 30 21:21	0ංම		asc. node	12445 Dec 26 22:06	3° <b>х</b> 45'45	
	12443 Jun 23 21:03	0°Ω		450. 11040	12446 Jan 18 16:19	0°る	
		22° <b>Ω</b> 14'21				0°≈	
asc. node	12443 Jul 11 17:07				12446 Feb 12 22:39		
	12443 Jul 17 23:00	0° <b>m</b> y			12446 Mar 09 17:30	0° <b>)</b> €	
	12443 Aug 11 05:41	0∘ <b>⊽</b>			12446 Apr 03 05:00	0° <b>Υ</b>	
	12443 Sep 04 20:39	0° <b>M</b> ₊		desc. node	12446 Apr 17 15:53	17° <b>Ƴ</b> 50'57	
	12443 Sep 30 02:22	0° <b>∡</b> ¹			12446 Apr 27 11:01	0°B	
	12443 Oct 26 12:42	0°ರ		morning set	12446 May 15 02:37	21° <b>8</b> 58'58	
desc. node	12443 Oct 31 14:31	5° <b>る</b> 30'42			12446 May 21 12:37	$\Pi^{\circ}0$	
evening max el	12443 Nov 20 08:14	25° <b>⋜</b> 45'13	45°55'55		12446 Jun 14 11:11	0ಂಣ	
	12443 Nov 24 19:43	0° <b>≈</b>		max. Earth dist.	12446 Jun 23 15:27		1.71392 AU
greatest brilliancy	12443 Dec 29 13:46	24° <b>≈</b> 14'19	-4.7m	man. Darin diot.	12.10 van 25 10.27	11 0311,	1., 13,2110
			- <del></del>	aumorior aoni	12446 Jun 24 06:12	12° <b>©</b> 17'37	1922115
retrograde	12444 Jan 08 08:32	25°≈59'14		superior conj	12446 Jun 24 06:13		
evening set	12444 Jan 24 16:52	20°≈52'39		minimum elong	12446 Jun 24 13:15	12° <b>©</b> 39'43	1°24'03
inferior conj	12444 Jan 29 17:49	17° <b>≈</b> 48'34			12446 Jul 08 08:35	$0$ $\circ$ $\Omega$	
minimum elong	12444 Jan 30 03:33	17° <b>≈</b> 33'18			12446 Aug 01 06:43	0° <b>™</b>	
min. Earth dist.	12444 Jan 30 07:01	17° <b>≈</b> 27'52	0.28657 AU	evening rise	12446 Aug 03 14:15	2° My 53'50	
morning rise	12444 Feb 04 13:51	14° <b>≈</b> 16′25		asc. node	12446 Aug 08 06:36	8° <b>m</b> 45'14	
direct	12444 Feb 20 01:38	9° <b>≈</b> 34'27			12446 Aug 25 07:05	0∘ <b>ত</b>	
asc. node	12444 Feb 21 16:42	9° <b>≈</b> 37'35			12446 Sep 18 11:04	0° <b>M</b> ₊	
greatest brilliancy	12444 Mar 02 02:08	11° <b>≈</b> 47'43	-4.8m		12446 Oct 12 20:47	0°⊀	
B	12444 Mar 28 23:44	0° <b>)</b> €			12446 Nov 06 15:42	5°0	
morning max el	12444 Apr 09 17:03	11° <b>X</b> 01'05	16011126	desc. node	12446 Nov 28 01:01	25° <b>ට</b> 19'42	
morning max er	•		40 14 20	desc. Hode			
	12444 Apr 27 21:56	0° <b>Υ</b>			12446 Dec 02 01:09	0° <b>≈</b>	
	12444 May 24 10:42	0°8			12446 Dec 28 10:05	0° <b>)</b> €	
desc. node	12444 Jun 12 16:13	22° <b>8</b> 44'29			12447 Jan 25 17:43	0° <b>Υ</b>	
	12444 Jun 18 17:09	$\Pi$ °0		evening max el	12447 Jan 30 15:39	4° <b>Y</b> 49'30	45°58'15
	12444 Jul 13 08:35	0ංම			12447 Mar 03 01:23	$0^{\circ}$ 8	
	12444 Aug 06 16:32	$0^{\circ}\Omega$		greatest brilliancy	12447 Mar 10 20:03	3° <b>8</b> 34'00	-4.8m
	12444 Aug 30 21:26	0° <b>m</b> )		retrograde	12447 Mar 20 19:29	5° <b>8</b> 23'36	
	12444 Sep 24 01:38	0∘ <b>⊽</b>		asc. node	12447 Mar 21 02:16	5° <b>8</b> 23'31	
asc. node	12444 Oct 03 09:01	11° <b>≏</b> 32'53		evening set	12447 Apr 04 19:56	0° <b>8</b> 58'05	
morning set	12444 Oct 12 03:16	22° <b>£</b> 25'00		J. J	12447 Apr 06 12:41	30°RΥ	
morning set				inforier con:	•		1057100
	12444 Oct 18 05:58	0°M 0°. <b>₹</b>		inferior conj	12447 Apr 10 17:17	27° <b>Y</b> 26'20	
	12444 Nov 11 10:47	0° <b>∡</b> ¹		minimum elong	12447 Apr 10 07:33	27° <b>Ƴ</b> 41'30	4-54.05

min. Earth dist.	12447 Apr 10 17:35	27°₩25'51	0.27756 AU		12449 Sep 08 21:29	0∘ <b>ত</b>	
morning rise	12447 Apr 15 18:59	24° <b>Υ</b> 21'59	0.21130 AO	max. Earth dist.	12449 Sep 09 00:31	0° <b>ჲ</b> 09'27	1.71917 AU
direct	12447 May 01 18:21	19° <b>Y</b> 23'42		max. Earth dist.	12449 Oct 02 23:11	0°M	1.,191,110
greatest brilliancy	12447 May 11 22:02	21° <b>Y</b> '20'10	-4.9m	evening rise	12449 Oct 14 22:25	14°ML52'00	
8	12447 May 27 06:42	0°8			12449 Oct 27 03:32	0° <b>∡</b> 7	
morning max el	12447 Jun 21 03:36	22° <b>8</b> 02'55	46°54'05		12449 Nov 20 11:56	0°ප	
C	12447 Jun 28 21:05	$\Pi^{\circ}$			12449 Dec 15 02:12	0° <b>≈</b>	
desc. node	12447 Jul 11 03:38	13° <b>Ⅱ</b> 15'49		desc. node	12449 Dec 25 12:47	12° <b>≈</b> 37'41	
	12447 Jul 25 23:07	$0$ $\circ$ $\odot$			12450 Jan 08 23:57	0° <b>)</b>	
	12447 Aug 20 12:37	$0^{\circ}\Omega$			12450 Feb 03 06:51	$0^{\circ}$ Y	
	12447 Sep 14 11:29	0° <b>m</b> )			12450 Mar 01 03:00	$9^{\circ}$ 8	
	12447 Oct 09 03:54	0∘ <b>⊽</b>			12450 Mar 28 02:08	$\Pi$ °0	
asc. node	12447 Oct 31 22:50	27° <b>≙</b> 51'33		evening max el	12450 Apr 12 18:51	16° <b>Ⅱ</b> 15′09	46°29'27
	12447 Nov 02 16:46	$0^{\circ}$ M		asc. node	12450 Apr 17 11:36	20° <b>Ⅲ</b> 50′01	
	12447 Nov 27 03:03	0° <b>∡</b> ¹			12450 Apr 27 12:38	$0$ $\circ$	
	12447 Dec 21 11:31	0°⋜		greatest brilliancy	12450 May 23 08:19	16°938'55	-4.9m
morning set	12447 Dec 21 18:14	0° <b>る</b> 20'44		retrograde	12450 Jun 01 19:07	18°9520'18	
	12448 Jan 14 19:11	0° <b>≈</b>		evening set	12450 Jun 19 19:08	12°5511'43	
	10440 7 07 10 55	1.50 40155	00.53140	inferior conj	12450 Jun 22 11:48	10°933'01	8°53'58
superior conj	12448 Jan 27 12:55	15°≈42'57		minimum elong	12450 Jun 22 17:41	10°523'57	8°52'34
minimum elong	12448 Jan 27 22:32	16°≈12'34	0°54'08	min. Earth dist.	12450 Jun 22 22:16	10°516'53	0.27243 AU
max. Earth dist.	12448 Jan 27 08:55	15° <b>≈</b> 30'37 0° <b>∀</b>	1.73141 AU	morning rise	12450 Jun 25 16:09	8°936'30	
desc. node	12448 Feb 08 02:48 12448 Feb 20 13:26	0° <del>X</del> 15° <b>¥</b> 21'13		direct	12450 Jul 13 05:20	2° <b>©</b> 40'41 4° <b>©</b> 34'14	-4.9m
desc. Hode	12448 Mar 03 10:15	13 <b>χ</b> 2113		greatest brilliancy desc. node	12450 Jul 23 06:31 12450 Aug 07 13:53	13°908'26	-4.9111
evening rise	12448 Mar 05 12:16	2° <b>Υ</b> '34'24		desc. Hode	12450 Aug 07 15:35 12450 Aug 27 06:38	0°Ω	
evening rise	12448 Mar 27 16:55	0° <b>8</b>		morning max el	12450 Sep 01 13:22	5° <b>Ω</b> 09'59	46°46'24
	12448 Apr 20 22:40	0°II		morning max cr	12450 Sep 25 01:20	0°m)	40 40 24
	12448 May 15 04:47	0°©			12450 Oct 21 12:36	0∘ <b>⊽</b>	
	12448 Jun 08 14:03	0°Ω			12450 Nov 16 02:25	0° <b>™</b>	
asc. node	12448 Jun 12 06:45	4° <b>Ω</b> 31'13		asc. node	12450 Nov 28 12:01	14° <b>M</b> .46'14	
	12448 Jul 03 06:58	0° m)			12450 Dec 11 04:21	0° <b>∡</b> ⊓	
	12448 Jul 28 15:04	0∘ <u>⊽</u>			12451 Jan 04 22:22	ರ°0	
	12448 Aug 24 08:02	0° <b>M</b> .			12451 Jan 29 11:06	0° <b>≈</b>	
evening max el	12448 Sep 07 00:01	14°ML10'47	46°26'14		12451 Feb 22 20:21	0° <b>∀</b>	
	12448 Sep 24 05:20	0° <b>∡</b> ¹		morning set	12451 Feb 28 17:31	7° <b>)</b> 15′24	
desc. node	12448 Oct 02 06:50	6° <b>∡</b> 10'47			12451 Mar 19 02:56	$0^{\circ}$ Y	
greatest brilliancy	12448 Oct 16 02:30	13° <b>∡</b> ¹49'56	-4.8m	desc. node	12451 Mar 20 03:35	1° <b>Y</b> 16'19	
retrograde	12448 Oct 26 21:14	15° <b>∡</b> 757′27		max. Earth dist.	12451 Apr 05 09:15	21° <b>Y</b> ′24'54	1.72325 AU
evening set	12448 Nov 13 15:19	9° <b>∡</b> 759'51					
min. Earth dist.	12448 Nov 16 17:27	8° <b>∡</b> ¹05'30	0.28703 AU	superior conj	12451 Apr 08 12:00	25° <b>Y</b> 17'16	
inferior conj	12448 Nov 17 07:59	7° <b>∡</b> ¹42'43		minimum elong	12451 Apr 08 02:22	24° <b>Y</b> 47'18	0°44'40
minimum elong	12448 Nov 17 02:27	7° <b>∡</b> 751'24	8°27'01		12451 Apr 12 06:55	0 <b>°</b> ႘	
morning rise	12448 Nov 20 13:46	5° <b>∡</b> ¹42'28			12451 May 06 08:21	0°П	
	12448 Dec 04 04:38	30°RM.		evening rise	12451 May 17 18:29	14° <b>Ⅱ</b> 16'41	
direct	12448 Dec 08 15:49	29°M36'29			12451 May 30 08:07	0°©	
4 41 711	12448 Dec 13 05:13	0° <b>∡</b> 7	4.7	1	12451 Jun 23 07:58	0°N	
greatest brilliancy asc. node	12448 Dec 18 11:06 12449 Jan 23 08:50	1° <b>х</b> <sup>7</sup> 21'11 26° <b>х</b> <sup>7</sup> 44'33	-4.7m	asc. node	12451 Jul 10 19:07 12451 Jul 17 10:09	21° <b>Ω</b> 46′05 0° <b>m</b> )	
morning max el	12449 Jan 26 12:23	20 <b>x</b> '44'33 29° <b>x</b> '45'00	45°42'45		12451 Aug 10 17:13	0∘ <b>⊽</b> آنا ن	
morning max er	12449 Jan 26 18:34	29 <b>メ</b> ・43 00	43 42 43		12451 Sep 04 08:49	0 <b>==</b> 0°M	
	12449 Feb 24 09:28	0°≈			12451 Sep 04 08:49	0° <b>⊼</b> ¹	
	12449 Mar 22 15:43	0° <b>∺</b>			12451 Oct 26 04:36	0°ਤੇ	
	12449 Apr 16 21:33	0° <b>Υ</b>		desc. node	12451 Oct 30 16:28	<sup>©</sup> ਰ 4°ਰ51'11	
	12449 May 11 13:47	0°8		evening max el	12451 Nov 17 23:32	23° <b>る</b> 33'52	45°56'40
desc. node	12449 May 15 05:26	4° <b>8</b> 28'55		* · · · · · · · · · · · · · · · · · · ·	12451 Nov 24 20:03	0° <b>≈</b>	
	12449 Jun 04 21:16	0°II		greatest brilliancy	12451 Dec 27 04:15	22° <b>≈</b> 03'10	-4.7m
	12449 Jun 28 23:17	0°©		retrograde	12452 Jan 06 00:40	23°≈49'15	
	12449 Jul 22 22:38	0°N		evening set	12452 Jan 22 11:23	18° <b>≈</b> 38'06	
morning set	12449 Jul 29 05:41	7° <b>£</b> 53′03		inferior conj	12452 Jan 27 09:39	15° <b>≈</b> 37'48	-5°32'14
	12449 Aug 15 21:34	0° <b>m</b>		minimum elong	12452 Jan 27 19:37	15° <b>≈</b> 22'12	5°29'11
asc. node	12449 Sep 04 20:36	24° <b>m</b> 57'35		min. Earth dist.	12452 Jan 27 22:21	15° <b>≈</b> 17'56	0.28693 AU
				morning rise	12452 Feb 02 03:33	12° <b>≈</b> 08'58	
superior conj	12449 Sep 06 15:51	27° Mp 12'37	0°04'26	direct	12452 Feb 17 18:01	7° <b>≈</b> 23'24	
minimum elong	12449 Sep 06 14:48	27° <b>m</b> 09'19	0°04'14	asc. node	12452 Feb 20 18:43	7° <b>≈</b> 34'10	
behind sun begin	12449 Sep 05 14:55	25° <b>m</b> 54'44		greatest brilliancy	12452 Feb 28 17:51	9°≈36'25	-4.8m
behind sun end	12449 Sep 07 14:41	28° Mg 23'54			12452 Mar 29 02:32	0° <b>ℋ</b>	

	10.150 1 07 00 05	001/20100	46010145		104544 04 15 50	00.0	
morning max el	12452 Apr 07 09:35	8° <b>¥</b> 50'08	46°12'47		12454 Aug 24 17:50	0° <b>™</b>	
	12452 Apr 27 14:40	0° <b>Υ</b>			12454 Sep 17 21:58	0° <b>M</b> ₊	
	12452 May 24 00:31	0°8			12454 Oct 12 07:59	0° <b>∡</b> 7	
desc. node	12452 Jun 11 18:14	22° <b>8</b> 12'23			12454 Nov 06 03:29	0°₹	
	12452 Jun 18 05:38	$\Pi$ °0		desc. node	12454 Nov 27 03:03	24° <b>る</b> 48'39	
	12452 Jul 12 20:19	0ංම			12454 Dec 01 14:01	0° <b>≈</b>	
	12452 Aug 06 03:47	$0^{\circ}\Omega$			12454 Dec 28 01:10	0° <b>∀</b>	
	12452 Aug 30 08:22	0° <b>m</b> )			12455 Jan 25 14:38	0° <b>Υ</b>	
	12452 Sep 23 12:20	0∘ <b>ত</b>		evening max el	12455 Jan 28 06:23	2° <b>Ƴ</b> 35'17	45°57'33
asc. node	12452 Oct 02 10:46	11° <b>≏</b> 05'20			12455 Mar 05 04:18	$0^{\circ}S$	
morning set	12452 Oct 09 18:20	20° <b>≏</b> 09'59		greatest brilliancy	12455 Mar 08 10:51	1° <b>8</b> 18'08	-4.8m
	12452 Oct 17 16:31	0°M₊		retrograde	12455 Mar 18 09:10	3° <b>8</b> 06'46	
	12452 Nov 10 21:12	0° <b>∡</b> ¹		asc. node	12455 Mar 20 04:08	3° <b>8</b> 02'57	
					12455 Mar 30 21:37	30° <b>₹Ƴ</b>	
superior conj	12452 Nov 16 10:52	6° <b>∡</b> 153'59	1°22'14	evening set	12455 Apr 02 08:23	28° <b>Ƴ</b> 44'06	
minimum elong	12452 Nov 16 05:10	6° <b>∡</b> ³36′21	1°22'58	inferior conj	12455 Apr 08 07:50	25° <b>Ƴ</b> 09'23	4°37'43
max. Earth dist.	12452 Nov 18 05:43	9° <b>₮</b> 06'39	1.72872 AU	minimum elong	12455 Apr 07 22:32	25° <b>Y</b> 23'55	4°34'52
	12452 Dec 05 03:05	0° <b>ට</b>		min. Earth dist.	12455 Apr 08 08:46	25° <b>Ƴ</b> 07'56	0.27776 AU
evening rise	12452 Dec 23 09:18	22° <b>る</b> 31'18		morning rise	12455 Apr 13 12:24	22° <b>Y</b> 00'33	
	12452 Dec 29 11:10	0°≈		direct	12455 Apr 29 08:48	17° <b>Ƴ</b> 06′24	
desc. node	12453 Jan 22 01:38	28° <b>≈</b> 57′20		greatest brilliancy	12455 May 09 13:50	19° <b>Ƴ</b> 03′28	-4.9m
	12453 Jan 22 22:07	0° <b>∀</b>			12455 May 27 22:51	$8^{\circ}$ 0	
	12453 Feb 16 11:46	$0^{\circ}\mathbf{\Upsilon}$		morning max el	12455 Jun 18 16:48	19° <b>8</b> 40'29	46°53'08
	12453 Mar 13 03:48	$9^{\circ}$ 8		-	12455 Jun 28 16:16	$\Pi^{\circ}0$	
	12453 Apr 06 23:16	$\Pi^{\circ}$ 0		desc. node	12455 Jul 10 05:40	12° <b>Ⅱ</b> 34'49	
	12453 May 02 02:35	$0$ $\circ$ $\odot$			12455 Jul 25 14:02	0ංම	
asc. node	12453 May 14 21:34	14°958'20			12455 Aug 20 01:43	$0^{\circ}\Omega$	
	12453 May 28 00:28	$0^{\circ}\Omega$			12455 Sep 13 23:35	0° <b>m</b> )	
	12453 Jun 24 22:06	0° mp			12455 Oct 08 15:20	0∘ <u>⊽</u>	
evening max el	12453 Jun 24 22:20	0° mp 00'36	46°48'46	asc. node	12455 Oct 31 00:46	27° <b>£</b> 23'47	
	12453 Aug 02 10:49	0∘ <del>ত</del>			12455 Nov 02 03:44	0° <b>M</b>	
greatest brilliancy	12453 Aug 03 15:02	ი° <b>ჲ</b> 27'58	-4.9m		12455 Nov 26 13:43	0° <b>∡</b> 7	
retrograde	12453 Aug 14 06:39	2° <b>£</b> 34'52	,	morning set	12455 Dec 19 11:15	28° <b>∡</b> 12'49	
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evening set	12453 Aug 28 20:41	28° m 22'17			12456 Jan 14 05:38	0° <b>≈</b> ≈	
evening set min. Earth dist.	12453 Aug 28 20:41 12453 Sep. 03 17:34	28° Mp 22'17 24° Mp 56'02	0.27205 AU		12456 Jan 14 05:38	0° <b>≈</b>	
min. Earth dist.	12453 Sep 03 17:34	24° m/56'02	0.27205 AU	superior coni			0°56'23
min. Earth dist. desc. node	12453 Sep 03 17:34 12453 Sep 03 23:24	24° m 56'02 24° m 47'08		superior conj	12456 Jan 25 05:35	13° <b>≈</b> 34′08	0°56'23 0°56'44
min. Earth dist. desc. node inferior conj	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33	24° m 56'02 24° m 47'08 24° m 42'19	-0°02'02	minimum elong	12456 Jan 25 05:35 12456 Jan 25 15:19	13°≈34'08 14°≈04'09	0°56'44
min. Earth dist. desc. node inferior conj minimum elong	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27	-0°02'02 0°02'11	1 3	12456 Jan 25 05:35 12456 Jan 25 15:19 12456 Jan 25 01:39	13°≈34'08 14°≈04'09 13°≈21'59	
min. Earth dist. desc. node inferior conj minimum elong transit middle	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27	-0°02'02 0°02'11	minimum elong max. Earth dist.	12456 Jan 25 05:35 12456 Jan 25 15:19 12456 Jan 25 01:39 12456 Feb 07 13:16	13°≈34'08 14°≈04'09 13°≈21'59 0°¥	0°56'44
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min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 03 22:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 48'37 24° m 36'16 21° m 03'23 16° m 56'07	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist. desc. node	12456 Jan 25 05:35 12456 Jan 25 15:19 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37	13°≈34'08 14°≈04'09 13°≈21'59 0° ℋ 14°ℋ54'27 0° ♈ 0° ♈21'53 0° ♉	0°56'44
min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 03 22:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 48'37 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist. desc. node	12456 Jan 25 05:35 12456 Jan 25 15:19 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38	13°≈34'08 14°≈04'09 13°≈21'59 0°₩ 14°₩54'27 0°Υ 0°Υ21'53 0°₩ 0°Ш	0°56'44
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min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 03 22:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Oct 24 04:04 12453 Nov 13 05:44 12453 Nov 25 14:05	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47 0° Ω 17° Ω 36'49 0° M.	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist. desc. node	12456 Jan 25 05:35 12456 Jan 25 15:19 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 May 14 16:08 12456 Jun 08 01:59 12456 Jun 11 08:46	13°≈34'08 14°≈04'09 13°≈21'59 0° ₩ 14° ₩ 54'27 0° Ψ 0° Ψ21'53 0° ₩ 0° Ш 0° © 0° Ω 4° Ω00'38	0°56'44
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min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy morning max el	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 03 22:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Nov 13 05:44 12453 Nov 25 14:05 12453 Dec 23 04:21 12453 Dec 26 00:05 12454 Jan 18 04:48	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47 0° Ω 17° Ω 36'49 0° M 0° ✓ 3° ✓ 11'27 0° ℧	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist. desc. node evening rise	12456 Jan 25 05:35 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 Jun 08 01:59 12456 Jun 08 01:59 12456 Jun 11 08:46 12456 Jul 02 19:47 12456 Jul 28 05:30 12456 Aug 24 02:12	13°≈34'08 14°≈04'09 13°≈21'59 0° ℋ 14° ℋ54'27 0° Ƴ 0° Ƴ21'53 0° ℋ 0° ℑ 0° ℛ 4° ℛ00'38 0° ℷ	0°56'44 1.73148 AU
min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy morning max el	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 03 22:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Nov 13 05:44 12453 Nov 25 14:05 12453 Dec 23 04:21 12453 Dec 26 00:05 12454 Jan 18 04:48 12454 Feb 12 10:11	24° m/56'02 24° m/47'08 24° m/42'19 24° m/42'27 24° m/42'27 24° m/36'16 21° m/03'23 16° m/56'07 18° m/40'47 0° Ω 17° Ω 36'49 0° m. 0° ズ 3° ズ 11'27 0° ጜ 0° ≈	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist. desc. node evening rise	12456 Jan 25 05:35 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 Jun 08 01:59 12456 Jun 08 01:59 12456 Jul 02 19:47 12456 Jul 28 05:30 12456 Aug 24 02:12 12456 Sep 04 13:56	13°≈34'08 14°≈04'09 13°≈21'59 0° ℋ 14° ℋ54'27 0° Ƴ 0° Ƴ21'53 0° ℋ 0° ℑ 0° ℑ 4° Ω00'38 0° ዂ 0° Ω 11° ዂ51'36	0°56'44 1.73148 AU
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min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy morning max el	12453 Sep 03 17:34 12453 Sep 03 23:24 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 02:25 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Nov 13 05:44 12453 Nov 25 14:05 12453 Dec 26 00:05 12454 Jan 18 04:48 12454 Feb 12 10:11 12454 Mar 09 04:31 12454 Apr 02 15:47	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 48'37 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47 0° Ω 17° Ω 36'49 0° m 0° ズ 3° ズ 11'27 0° ズ 0° ※ 0° ※ 0° ※ 0° ※ 0° ※	-0°02'02 0°02'11 0°02'11	minimum elong max. Earth dist.  desc. node evening rise  asc. node evening max el desc. node	12456 Jan 25 05:35 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 May 14 16:08 12456 Jun 08 01:59 12456 Jun 11 08:46 12456 Jul 02 19:47 12456 Jul 28 05:30 12456 Aug 24 02:12 12456 Sep 04 13:56 12456 Sep 24 15:23 12456 Oct 01 08:49	13°≈34'08 14°≈04'09 13°≈21'59 0°)€ 14°)€54'27 0°° 0°° 0°° 0°° 11 0°© 0° 4° 00'38 0°™ 0° 11° 11° 11° 136 0° √ 4° 00'7 11° 136 0° √ 4° 00'7 11° 136	0°56'44 1.73148 AU 46°27'25
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min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy morning max el  asc. node  desc. node  morning set  max. Earth dist.  superior conj minimum elong	12453 Sep 03 17:34 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Nov 13 05:44 12453 Nov 25 14:05 12453 Dec 26 00:05 12454 Jan 18 04:48 12454 Feb 12 10:11 12454 Mar 09 04:31 12454 Apr 02 15:47 12454 Apr 16 17:42 12454 Apr 26 21:41 12454 May 12 14:20 12454 May 20 23:15 12454 Jun 21 17:45 12454 Jun 21 23:54 12454 Jun 21 17:45 12454 Jun 21 17:45 12454 Jun 21 17:45 12454 Jun 21 17:45	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 48'37 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47 0° \( \text{\text{\$\sigma}}\) 17° \( \text{\text{\$\sigma}}\) 0° \( \text{\text{\$\sigma}}\)	-0°02'02 0°02'11 0°02'11 -4.8m 46°02'03	minimum elong max. Earth dist.  desc. node evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct greatest brilliancy	12456 Jan 25 05:35 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 May 14 16:08 12456 Jun 08 01:59 12456 Jun 08 01:59 12456 Jul 02 19:47 12456 Jul 28 05:30 12456 Aug 24 02:12 12456 Sep 04 13:56 12456 Sep 24 15:23 12456 Oct 01 08:49 12456 Oct 13 18:03 12456 Nov 14 03:45 12456 Nov 14 03:45 12456 Nov 14 03:45 12456 Nov 14 03:45 12456 Nov 14 08:22 12456 Nov 14 08:25 12456 Nov 15 06:51 12456 Nov 16 06:51	13°≈34'08 14°≈04'09 13°≈21'59 0°)€ 14°)€54'27 0°°€ 0°°€21'53 0°€3 0°П 0°© 0°Ω 4°Ω00'38 0°™ 0°Ω 11°™.51'36 0°√ 4°√356'07 11°√356'07 11°√36'38 13°√344'30 7°√351'47 5°√30'19 5°√30'19 5°√30'8™ 27°™.24'39 29°™.09'09 0°√3	0°56'44 1.73148 AU 46°27'25 -4.8m -8°22'28 8°21'06 0.28663 AU
min. Earth dist. desc. node inferior conj minimum elong transit middle transit begin transit end morning rise direct greatest brilliancy morning max el  asc. node  desc. node morning set  max. Earth dist. superior conj	12453 Sep 03 17:34 12453 Sep 04 02:33 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 02:28 12453 Sep 04 06:30 12453 Sep 10 08:52 12453 Sep 10 08:52 12453 Sep 24 22:19 12453 Oct 04 15:24 12453 Nov 13 05:44 12453 Nov 25 14:05 12453 Dec 23 04:21 12453 Dec 23 04:21 12453 Dec 26 00:05 12454 Jan 18 04:48 12454 Feb 12 10:11 12454 Mar 09 04:31 12454 Apr 02 15:47 12454 Apr 16 17:42 12454 Apr 26 21:41 12454 May 12 14:20 12454 May 20 23:15 12454 Jun 13 21:49 12454 Jun 20 22:21	24° m 56'02 24° m 47'08 24° m 42'19 24° m 42'27 24° m 42'27 24° m 48'37 24° m 36'16 21° m 03'23 16° m 56'07 18° m 40'47 0° a 17° a 36'49 0° m 0° x 3° x 11'27 0° s 0° x 0° Y 17° Y 23'30 0° S 19° S 32'38 0° H 0° s 8° s 48'53 9° s 49'46 10° s 09'04 0° R	-0°02'02 0°02'11 0°02'11 -4.8m 46°02'03	minimum elong max. Earth dist.  desc. node evening rise  asc. node  evening max el  desc. node greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise  direct	12456 Jan 25 05:35 12456 Jan 25 01:39 12456 Feb 07 13:16 12456 Feb 19 15:15 12456 Mar 02 20:48 12456 Mar 03 03:54 12456 Mar 27 03:37 12456 Apr 20 09:38 12456 May 14 16:08 12456 Jun 08 01:59 12456 Jun 08 01:59 12456 Jul 02 19:47 12456 Jul 28 05:30 12456 Aug 24 02:12 12456 Sep 04 13:56 12456 Sep 24 15:23 12456 Oct 01 08:49 12456 Oct 13 18:03 12456 Nov 14 03:45 12456 Nov 14 03:45 12456 Nov 14 03:45 12456 Nov 14 08:22	13°≈34'08 14°≈04'09 13°≈21'59 0° € 14° € 54'27 0° € 0° € 21'53 0° € 0° € 0° € 0° € 0° € 0° € 11° € 51'36 0° € 4° € 700'38 13° € 744'30 7° € 751'47 5° € 730'19 5° € 740'06 5° € 753'57 3° € 727'41 30° € € 20° € 7009'09	0°56'44 1.73148 AU 46°27'25 -4.8m -8°22'28 8°21'06 0.28663 AU

	12457 I 26 16:05	0°₹			12450 9 02 21-12	00 <b>m</b>	
	12457 Jan 26 16:05	0°≈			12459 Sep 03 21:13	0° <b>™</b> 0° <i>⊼</i> ¹	
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	12457 Mar 22 04.44 12457 Apr 16 09:31	0°Υ		desc. node	12459 Oct 25 21:09 12459 Oct 29 18:31	0 3 4° <b>る</b> 10'26	
	•	0°8			12459 Nov 15 15:40	4 31020 21° <b>3</b> 23'26	45°57'18
desc. node	12457 May 11 01:10 12457 May 14 07:28	4° <b>8</b> 00'19		evening max el	12459 Nov 24 22:14	21 <b>3</b> 23 20 0° <b>≈</b>	43 3/18
desc. node	•	4 <b>3</b> 00 19 0° <b>Ⅱ</b>		grantagt brillianay		0 ≈ 19°≈51'00	-4.7m
	12457 Jun 04 08:21 12457 Jun 28 10:11	0°©		greatest brilliancy	12459 Dec 24 18:54		-4. /III
		0°Ω		retrograde	12460 Jan 03 16:37	21°≈37'45 16°≈22'19	
. ,	12457 Jul 22 09:26			evening set	12460 Jan 20 05:54		5040100
morning set	12457 Jul 26 18:13	5° <b>Ω</b> 28'16		inferior conj	12460 Jan 25 01:24	13°≈25'46	
1	12457 Aug 15 08:18	0° M)		minimum elong	12460 Jan 25 11:31		5°44'58
asc. node	12457 Sep 03 22:23	24° <b>m</b> 29'47		min. Earth dist.	12460 Jan 25 13:26	13°≈06'55	0.28723 AU
	12457.0 04.05.21	0.40m, 51100	0000142	morning rise	12460 Jan 30 16:56	10°≈00'25	
superior conj	12457 Sep 04 05:21	24° m 51'33	0°00'43	direct	12460 Feb 15 10:34	5°≈11'22	
minimum elong	12457 Sep 04 05:12	24° m 51'05	0°00'31	asc. node	12460 Feb 19 20:37	5°≈34'05	4.0
behind sun begin	12457 Sep 03 04:39	23° m) 34'24		greatest brilliancy	12460 Feb 26 08:53	7°≈23'18	-4.8m
behind sun end	12457 Sep 05 05:45	26° m 07'45	. =		12460 Mar 29 04:13	0° <b>∺</b>	
max. Earth dist.	12457 Sep 06 09:50	27° m/35'25	1.71885 AU	morning max el	12460 Apr 05 01:44	6° <b>)</b> 37'34	46°11'11
	12457 Sep 08 08:10	0° <b>⊡</b>			12460 Apr 27 07:19	0° <b>Υ</b>	
	12457 Oct 02 09:51	0°M			12460 May 23 14:24	0°8	
evening rise	12457 Oct 12 13:55	12°M38'03		desc. node	12460 Jun 10 20:07	21° <b>8</b> 39'25	
	12457 Oct 26 14:15	0° <b>∡</b>			12460 Jun 17 18:16	$\Pi^{\circ}0$	
	12457 Nov 19 22:50	0°ප			12460 Jul 12 08:14	0ಂತಾ	
	12457 Dec 14 13:25	0° <b>≈</b>			12460 Aug 05 15:14	$0^{\circ}\Omega$	
desc. node	12457 Dec 24 14:45	12° <b>≈</b> 09'11			12460 Aug 29 19:30	0° <b>m</b>	
	12458 Jan 08 11:43	0° <b>∀</b>			12460 Sep 22 23:16	0∘ <b>⊽</b>	
	12458 Feb 02 19:35	$0$ ° $\mathbf{\gamma}$		asc. node	12460 Oct 01 12:40	10° <b>≏</b> 37'34	
	12458 Feb 28 17:29	$0^{\circ}S$		morning set	12460 Oct 07 09:34	17° <b>≙</b> 54'48	
	12458 Mar 27 20:27	$\Pi$ $^{\circ}0$			12460 Oct 17 03:17	0° <b>M</b>	
evening max el	12458 Apr 10 08:13	13° <b>Ⅱ</b> 53′20	46°28'28		12460 Nov 10 07:54	0° <b>∡</b> ¹	
asc. node	12458 Apr 16 13:40	19° <b>Ⅱ</b> 55'11					
	12458 Apr 27 21:30	$0$ $\circ$ $\odot$		superior conj	12460 Nov 14 03:31	4° <b>≯</b> ¹43'46	1°21'12
greatest brilliancy	12458 May 20 21:01	14°515'09	-4.9m	minimum elong	12460 Nov 13 21:13	4° <b>渘</b> 124′12	1°21'52
retrograde	12458 May 30 08:35	15° <b>©</b> 57'19		max. Earth dist.	12460 Nov 16 01:15	7° <b>҂</b> 05'21	1.72850 AU
evening set	12458 Jun 17 10:20	9° <b>5</b> 45'02			12460 Dec 04 13:48	8°0	
inferior conj	12458 Jun 20 01:01	8°909'26	8°59'38	evening rise	12460 Dec 21 01:47	20° <b>る</b> 21'02	
minimum elong	12458 Jun 20 06:02	8°901'43	8°58'22		12460 Dec 28 21:59	0° <b>≈</b>	
min. Earth dist.	12458 Jun 20 10:56	7° <b>9</b> 54'10	0.27266 AU	desc. node	12461 Jan 21 03:23	28° <b>≈</b> 28'57	
morning rise	12458 Jun 23 01:39	6°9518'38			12461 Jan 22 09:09	0° <b>∀</b>	
direct	12458 Jul 10 18:46	0°9516'28			12461 Feb 15 23:08	$0^{\circ}\mathbf{\Upsilon}$	
greatest brilliancy	12458 Jul 20 19:32	2°510'06	-4.9m		12461 Mar 12 15:39	$8^{\circ}$ 0	
desc. node	12458 Aug 06 15:48	11° <b>©</b> 51'53			12461 Apr 06 11:53	$\Pi$ $^{\circ}0$	
	12458 Aug 27 07:06	$0^{\circ}\Omega$			12461 May 01 16:28	0°ಅ	
morning max el	12458 Aug 30 04:13	2° <b>Ω</b> 50'42	46°47'31	asc. node	12461 May 13 23:35	14° <b>©</b> 21'04	
	12458 Sep 24 17:59	0° <b>m</b> )			12461 May 27 16:52	$0^{\circ}\Omega$	
	12458 Oct 21 02:29	0∘ <del>⊽</del>		evening max el	12461 Jun 22 13:07	27° <b>Ω</b> 40'17	46°48'46
	12458 Nov 15 14:55	o° <b>m</b> ₊			12461 Jun 24 21:18	0° m	
asc. node	12458 Nov 27 13:59	14°ML16'07		greatest brilliancy	12461 Aug 01 06:13	28° Mp 06'36	-4.9m
	12458 Dec 10 16:02	0° <b>∡</b> ¹			12461 Aug 08 16:39	0° <del>ٽ</del>	
	12459 Jan 04 09:33	0°ರ		retrograde	12461 Aug 11 20:30	0° <b>£</b> 11'47	
	12459 Jan 28 21:58	0° <b>≈</b>		•	12461 Aug 14 23:09	30°R, Mp	
	12459 Feb 22 07:04	0° <b>)</b>		evening set	12461 Aug 26 11:08	25° m 58'52	
morning set	12459 Feb 26 09:11	5° <b>)</b> 02'36		inferior conj	12461 Sep 01 15:52	22° m 20'09	0°21'39
Ü	12459 Mar 18 13:38	$0^{\circ}\Upsilon$		minimum elong	12461 Sep 01 16:42	22° m) 18'52	0°21'11
desc. node	12459 Mar 19 05:22	0° <b>Υ</b> 48'43		min. Earth dist.	12461 Sep 01 08:01	22° m/32'10	0.27170 AU
max. Earth dist.	12459 Apr 03 02:21	19° <b>Ƴ</b> 15'36	1.72364 AU	desc. node	12461 Sep 03 01:21	21° <b>m</b> 29'05	
	1			morning rise	12461 Sep 07 22:54	18° <b>m</b> ) 40'07	
superior conj	12459 Apr 06 01:37	22° <b>Y</b> 57'00	-0°41'36	direct	12461 Sep 22 11:39	14° mp 34'34	
minimum elong	12459 Apr 05 16:30	22° <b>Υ</b> 28'40		greatest brilliancy	12461 Oct 02 04:36	16° <b>m</b> ) 19'03	-4.8m
	12459 Apr 11 17:40	0°8			12461 Oct 24 16:54	0∘ <b>ಹ</b>	
	12459 May 05 19:11	0°II		morning max el	12461 Nov 10 19:10	15° <b>♀</b> 17'32	46°03'21
evening rise	12459 May 15 07:05	11° <b>II</b> 52'06		0 41	12461 Nov 25 08:53	0°ML	
<i>3</i>	12459 May 29 19:03	0ಂತಿ			12461 Dec 22 18:57	0° <b>∡</b> 7	
	12459 Jun 22 19:03	$0 {\circ} \Omega$		asc. node	12461 Dec 25 01:59	2° <b>҂</b> ¹36′03	
asc. node	12459 Jul 09 20:57	21° <b>Ω</b> 16'49		<del></del>	12462 Jan 17 17:38	0°る	
<del></del>	12459 Jul 16 21:28	0° <b>m</b> )			12462 Feb 11 22:07	0° <b>≈</b>	
	12459 Aug 10 04:56	0∘ <b>ಹ</b>			12462 Mar 08 15:59	0° <b>ℋ</b>	
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	12462 Amr 02 02:59	0° <b>Ƴ</b>		daga mada	12464 Sep 30 10:56	20.7/20120	
1 1	12462 Apr 02 02:58	• •		desc. node		3° 🗷 38'30	4.0
desc. node	12462 Apr 15 19:40	16° <b>Y</b> 55'19		greatest brilliancy	12464 Oct 11 09:01	9°×721'32	-4.8m
	12462 Apr 26 08:43	0° <b>8</b>		retrograde	12464 Oct 22 04:07	11° <b>∡</b> ³30'33	
morning set	12462 May 10 01:57	17° <b>8</b> 04'55		evening set	12464 Nov 08 15:55	5° <b>≯</b> 42'41	
	12462 May 20 10:13	$\Pi$ $\circ 0$		min. Earth dist.	12464 Nov 11 23:05	3° <b>҂</b> ′41′24	0.28621 AU
	12462 Jun 13 08:46	$0$ $\circ$ $\odot$		inferior conj	12464 Nov 12 14:51	3° <b>҂</b> 16'46	-8°15'49
max. Earth dist.	12462 Jun 18 03:27	5° <b>©</b> 59'50	1.71409 AU	minimum elong	12464 Nov 12 07:56	3° <b>҂</b> 27'34	8°14'19
				morning rise	12464 Nov 16 00:08	1° <b>∡</b> 11′29	
superior conj	12462 Jun 19 05:21	7°521'09	-1°25'19	•	12464 Nov 18 01:07	30°RM₊	
minimum elong	12462 Jun 19 10:34	7° <b>5</b> 37'29		direct	12464 Dec 03 20:41	25°M11'35	
mmmum viong	12462 Jul 07 06:13	0°Ω	1 20 11	greatest brilliancy	12464 Dec 13 16:36	26°M56'11	-4 7m
evening rise	12462 Jul 29 13:42	27° <b>Ω</b> 58'42		greatest similare y	12464 Dec 20 16:33	0°×7	1.7111
evening rise	12462 Jul 31 04:26	0° m)		morning max el	12465 Jan 21 17:26	25° <b>∡</b> 15'56	45°42'35
,				=			43 42 33
asc. node	12462 Aug 06 10:13	7° Mp 48'36		asc. node	12465 Jan 21 12:43	25° <b>х</b> 04'35	
	12462 Aug 24 04:57	0∘ <b>⊽</b>			12465 Jan 26 13:03	0°₹	
	12462 Sep 17 09:14	$0^{\circ}$ M			12465 Feb 23 15:56	0° <b>≈</b>	
	12462 Oct 11 19:33	0° <b>∡</b> ¹			12465 Mar 21 17:53	0° <b>ℋ</b>	
	12462 Nov 05 15:39	0°ರ			12465 Apr 15 21:42	$0$ ° $\Upsilon$	
desc. node	12462 Nov 26 05:00	24° <b>ප</b> 16'16			12465 May 10 12:50	$_{0\circ}$ 8	
	12462 Dec 01 03:21	0° <b>≈</b>		desc. node	12465 May 13 09:19	3° <b>8</b> 30'20	
	12462 Dec 27 16:54	0° <b>₩</b>			12465 Jun 03 19:43	$\Pi^{\circ}$	
	12463 Jan 25 12:58	$0^{\circ}\Upsilon$			12465 Jun 27 21:22	0°9	
evening max el	12463 Jan 25 20:18	0° <b>Υ</b> 17'43	45°56'44		12465 Jul 21 20:27	0°Ω	
•		29° <b>Υ</b> 00'24	-4.8m	marning got	12465 Jul 24 06:29	3° <b>Ω</b> 01'47	
greatest brilliancy	12463 Mar 06 01:36		-4.6111	morning set			
	12463 Mar 09 10:07	0° <b>8</b>			12465 Aug 14 19:12	0° <b>m</b> )	
retrograde	12463 Mar 15 22:41	0° <b>8</b> 48'16					
asc. node	12463 Mar 19 06:15	0° <b>8</b> 35'07		superior conj	12465 Sep 01 18:35	22° <b>m</b> 29'03	
	12463 Mar 22 06:40	30° <b>ŖƳ</b>		minimum elong	12465 Sep 01 19:23	22° <b>m</b> 31'32	0°03'13
evening set	12463 Mar 30 20:52	26° <b>Ƴ</b> 27'50		behind sun begin	12465 Aug 31 19:03	21°Mp15'29	
inferior conj	12463 Apr 05 22:16	22° <b>Ƴ</b> 50'44	4°17'52	behind sun end	12465 Sep 02 19:42	23° <b>m</b> 47'32	
minimum elong	12463 Apr 05 13:27	23° <b>Y</b> '04'31	4°15'07	asc. node	12465 Sep 03 00:17	24° Mp 01'50	
min. Earth dist.	12463 Apr 06 00:04	22° <b>Ƴ</b> 47'55	0.27797 AU	max. Earth dist.	12465 Sep 03 21:13	25° <b>m</b> 07'11	1.71854 AU
morning rise	12463 Apr 11 05:38	19° <b>Ƴ</b> 37'38			12465 Sep 07 19:00	0∘ <b>ত</b>	
direct	12463 Apr 26 22:50	14° <b>Ƴ</b> 47'11			12465 Oct 01 20:42	0° <b>M</b>	
greatest brilliancy	12463 May 07 06:06	16° <b>Ƴ</b> 45'48	-4.8m	evening rise	12465 Oct 10 05:26	10°M23'36	
<i>B. v</i> v	12463 May 28 11:30	0°8	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* · · · · · · · · · · · · · · · · · · ·	12465 Oct 26 01:11	0° <b>∡</b> 7	
morning max el	12463 Jun 16 05:59	17° <b>8</b> 16'48	46°52'19		12465 Nov 19 09:55	0°ਤ	
morning max ci		0°Ⅱ	40 32 19			0°≈	
1 1	12463 Jun 28 11:19			1 1	12465 Dec 14 00:48		
desc. node	12463 Jul 09 07:35	11° <b>Ⅱ</b> 52'56		desc. node	12465 Dec 23 16:34	11°≈39'45	
	12463 Jul 25 05:04	0°©			12466 Jan 07 23:40	0° <b>)</b>	
	12463 Aug 19 15:03	$0$ $^{\circ}\Omega$			12466 Feb 02 08:31	$0^{\circ}$ Y	
	12463 Sep 13 11:57	0° <b>m</b> y			12466 Feb 28 08:17	$_{0\circ}$ 8	
	12463 Oct 08 03:04	0∘ <b>亚</b>			12466 Mar 27 15:28	$\Pi$ $\circ 0$	
asc. node	12463 Oct 30 02:43	26° <b>≙</b> 55'03		evening max el	12466 Apr 07 22:16	11° <b>Ⅲ</b> 32'40	46°27'14
	12463 Nov 01 15:01	0° <b>M</b> ₊		asc. node	12466 Apr 15 15:39	18° <b>Ⅱ</b> 58'13	
	12463 Nov 26 00:42	0° <b>∡</b> ¹			12466 Apr 28 10:01	$0$ $\circ$ $\odot$	
morning set	12463 Dec 17 04:21	26° <b>∡</b> °04'11		greatest brilliancy	12466 May 18 09:00	11° <b>5</b> 49'25	-4.9m
•	12463 Dec 20 08:49	0°₹		retrograde	12466 May 27 21:59	13° <b>©</b> 32'31	
	12464 Jan 13 16:23	0° <b>≈</b>		evening set	12466 Jun 15 00:52	7°9517'14	
	10 10.20			inferior conj	12466 Jun 17 13:53	5°9644'05	9°04'25
superior conj	12464 Jan 22 22:18	11° <b>≈</b> 24'30	0°58'51	minimum elong	12466 Jun 17 18:00	5°937'45	9°04'25 9°03'15
minimum elong	12464 Jan 23 08:07	11 ≈24 30 11°≈54'46	0°59'15	min. Earth dist.	12466 Jun 17 23:02	5°930'01	9 03 13 0.27290 AU
•	12404 Jan 23 08.07	11 ≈34 40	0 39 13		12400 Juli 1/ 23.02		0.27290 AU
max. Earth dist.	12464 T 22 10 20	1101601	1 721(A ATT		10466 T 20 11 06	200 (012.1	
	12464 Jan 22 19:39	11°≈16′21	1.73160 AU	morning rise	12466 Jun 20 11:06	3°558'31	
	12464 Feb 07 00:04	0° <b>∀</b>	1.73160 AU		12466 Jun 28 02:25	30° <b>₹</b> Ⅱ	
desc. node	12464 Feb 07 00:04 12464 Feb 18 17:07	0° <b>\</b> 14° <b>\</b> 26'44	1.73160 AU	direct	12466 Jun 28 02:25 12466 Jul 08 08:23	30°RⅡ 27°Ⅱ50'45	
desc. node evening rise	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28	0° <b>)</b> 14° <b>)</b> €26'44 28° <b>)</b> €08'08	1.73160 AU		12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51	30°RП 27°П50'45 29°П43'48	-4.9m
	12464 Feb 07 00:04 12464 Feb 18 17:07	0°₩ 14°₩26'44 28°₩08'08 0°Υ	1.73160 AU	direct	12466 Jun 28 02:25 12466 Jul 08 08:23	30°RⅡ 27°Ⅱ50'45	-4.9m
	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28	0° <b>)</b> 14° <b>)</b> €26'44 28° <b>)</b> €08'08	1.73160 AU	direct	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51	30°RП 27°П50'45 29°П43'48	-4.9m
	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43	0°₩ 14°₩26'44 28°₩08'08 0°Υ	1.73160 AU	direct greatest brilliancy	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16	30°R∏ 27°∏50'45 29°∏43'48 0°©	-4.9m
	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44	0°¥ 14°¥26'44 28°¥08'08 0°Ƴ 0°¥	1.73160 AU	direct greatest brilliancy	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48	-4.9m 46°48'41
	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02	0°₩ 14°₩26'44 28°₩08'08 0°₩ 0°₩ 0°Ш	1.73160 AU	direct greatest brilliancy desc. node	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47 12466 Aug 27 06:44	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48 0°Ω	
	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54	0°₩ 14°₩26'44 28°₩08'08 0°Ψ 0°₩ 0°Ш 0°©	1.73160 AU	direct greatest brilliancy desc. node	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48 0°Ω 0°Ω30'48	
evening rise	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54 12464 Jun 07 14:18 12464 Jun 10 10:37	0°₩ 14°₩26'44 28°₩08'08 0°Ψ 0°₩ 0°™ 0°₩ 0°₩ 3°Ω28'27	1.73160 AU	direct greatest brilliancy desc. node	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05 12466 Sep 24 10:28 12466 Oct 20 16:18	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48 0°Ω 0°Ω30'48 0°™ 0°Ω	
evening rise	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54 12464 Jun 07 14:18 12464 Jun 10 10:37 12464 Jul 02 08:59	0° ₩ 14° ₩26'44 28° ₩08'08 0° ℉ 0° ₭ 0° Ⅲ 0° ☞ 0° ℳ 3° ℳ28'27 0° ₥	1.73160 AU	direct greatest brilliancy desc. node morning max el	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05 12466 Sep 24 10:28 12466 Oct 20 16:18 12466 Nov 15 03:22	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48 0°Ω 0°Ω30'48 0°™ 0°Ω	
evening rise	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54 12464 Jun 07 14:18 12464 Jun 10 10:37 12464 Jul 02 08:59 12464 Jul 27 20:25	0° ¥ 14° ¥26'44 28° ¥08'08 0° Y 0° ¥ 0° II 0° \$ 0° \$ 3° \$\Omega 28'27 0° \$\mathrm{m}\$ 0° \$\Omega\$	1.73160 AU	direct greatest brilliancy desc. node	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05 12466 Sep 24 10:28 12466 Oct 20 16:18 12466 Nov 15 03:22 12466 Nov 26 15:46	30°R II 27° II 50'45 29° II 43'48 0° II 10° II 36'48 0° II 0° II 0° II 13° II 45'27	
evening rise asc. node	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54 12464 Jun 07 14:18 12464 Jun 10 10:37 12464 Jul 02 08:59 12464 Jul 27 20:25 12464 Aug 23 21:11	0° ¥ 14° ¥26'44 28° ¥08'08 0° Y' 0° \$ 0° II 0° \$ 0° \$ 3° \$\Omega 28'27 0° \$\Omega\$ 0° \$\Omega\$ 0° \$\Omega\$		direct greatest brilliancy desc. node morning max el	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Jul 19 01:16 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05 12466 Sep 24 10:28 12466 Oct 20 16:18 12466 Nov 15 03:22 12466 Nov 26 15:46 12466 Dec 10 03:41	30°R∏ 27°∏50'45 29°∏43'48 0°© 10°©36'48 0°Ω 0°Ω30'48 0°™ 0°™ 13°™45'27 0°%	
evening rise	12464 Feb 07 00:04 12464 Feb 18 17:07 12464 Feb 29 19:28 12464 Mar 02 07:43 12464 Mar 26 14:44 12464 Apr 19 21:02 12464 May 14 03:54 12464 Jun 07 14:18 12464 Jun 10 10:37 12464 Jul 02 08:59 12464 Jul 27 20:25	0° ¥ 14° ¥26'44 28° ¥08'08 0° Y 0° ¥ 0° II 0° \$ 0° \$ 3° \$\Omega 28'27 0° \$\mathrm{m}\$ 0° \$\Omega\$		direct greatest brilliancy desc. node morning max el	12466 Jun 28 02:25 12466 Jul 08 08:23 12466 Jul 18 07:51 12466 Aug 05 17:47 12466 Aug 27 06:44 12466 Aug 27 19:05 12466 Sep 24 10:28 12466 Oct 20 16:18 12466 Nov 15 03:22 12466 Nov 26 15:46	30°R II 27° II 50'45 29° II 43'48 0° II 10° II 36'48 0° II 0° II 0° II 13° II 45'27	

	12467 Feb 21 17:47	0° <b>)</b> {		minimum elong	12469 Aug 30 06:52	19° <b>m</b> 55'46	0°44'42
morning set	12467 Feb 24 01:11	2° <b>¥</b> 50'51		min. Earth dist.	12469 Aug 29 22:46	20° m/08'10	0.27140 AU
desc. node	12467 Mar 18 07:21	0° <b>Υ</b> 21'46		desc. node	12469 Sep 02 03:28	18° m) 11'51	
	12467 Mar 18 00:19	$0^{\circ}\Upsilon$		morning rise	12469 Sep 05 12:36	16° m) 17'25	
max. Earth dist.	12467 Mar 31 18:29	17° <b>Y</b> ′03′28	1.72402 AU	direct	12469 Sep 20 00:25	12° m) 13'12	
				greatest brilliancy	12469 Sep 29 18:26	13° <b>m</b> 58'14	-4.8m
superior conj	12467 Apr 03 15:30	20° <b>Ƴ</b> 37'44	-0°38'21	,	12469 Oct 25 02:11	0∘ <b>⊽</b>	
minimum elong	12467 Apr 03 06:57	20° <b>Y</b> 11'12	0°38'11	morning max el	12469 Nov 08 08:02	12° <b>≏</b> 57'13	46°04'48
	12467 Apr 11 04:23	0°8			12469 Nov 25 02:57	$0^{\circ}$ M	
	12467 May 05 06:00	$\Pi$ $^{\circ}0$			12469 Dec 22 09:04	0° <b>∡</b> ¹	
evening rise	12467 May 12 19:46	9° <b>Ⅱ</b> 27'47		asc. node	12469 Dec 24 03:57	2° <b>҂</b> ′02'00	
	12467 May 29 06:00	0			12470 Jan 17 06:01	ರ°ರ	
	12467 Jun 22 06:11	$0^{\circ}\Omega$			12470 Feb 11 09:38	0° <b>≈</b>	
asc. node	12467 Jul 08 22:47	20° <b>Ω</b> 47'21			12470 Mar 08 03:02	0° <b>∀</b>	
	12467 Jul 16 08:52	0° <b>™</b>			12470 Apr 01 13:46	0° <b>Υ</b>	
	12467 Aug 09 16:45	0∘ <b>⊽</b>		desc. node	12470 Apr 14 21:28	16° <b>Y</b> ′27'43	
	12467 Sep 03 09:42	0°M			12470 Apr 25 19:23	0° <b>8</b>	
	12467 Sep 28 19:09	0° <b>∡</b> 7		morning set	12470 May 07 13:53	14° <b>8</b> 39'17	
	12467 Oct 25 13:57	0°る			12470 May 19 20:48	0°II	
desc. node	12467 Oct 28 20:27	3° <b>る</b> 29'13	45050100	E d E d	12470 Jun 12 19:19	0°©	1 71 420 411
evening max el	12467 Nov 13 07:47	19°る13'05 0°≈	45°58'00	max. Earth dist.	12470 Jun 15 08:31	3° <b>©</b> 12'00	1.71420 AU
greatest brilliancy	12467 Nov 25 01:53 12467 Dec 22 10:04	0 ≈ 17°≈39'52	-4.7m	superior conj	12470 Jun 16 17:24	4° <b>©</b> 55'10	1°26'06
retrograde	12468 Jan 01 08:16	17 ≈3932 19°≈26'40	<del>-4</del> ./III	minimum elong	12470 Jun 16 21:37	5°908'24	
evening set	12468 Jan 18 00:33	14°≈07'07		minimum clong	12470 Jul 06 16:47	0°Ω	1 20 30
inferior conj	12468 Jan 22 17:13	11°≈14'20	-6°03'19	evening rise	12470 Jul 27 01:42	25° <b>Ω</b> 32'45	
minimum elong	12468 Jan 23 03:25	10°≈58'19	6°00'19	evening rise	12470 Jul 30 15:04	0° m)	
min. Earth dist.	12468 Jan 23 04:42	10°≈56'18	0.28750 AU	asc. node	12470 Aug 05 12:11	7° mg 21'29	
morning rise	12468 Jan 28 06:08	7° <b>≈</b> 52'29			12470 Aug 23 15:40	0∘ <b>⊽</b>	
direct	12468 Feb 13 03:02	3° <b>≈</b> 00'03			12470 Sep 16 20:08	0°M₊	
asc. node	12468 Feb 18 22:42	3° <b>≈</b> 39'01			12470 Oct 11 06:48	0° <b>∡</b> ¹	
greatest brilliancy	12468 Feb 23 23:50	5°≈10'32	-4.8m		12470 Nov 05 03:32	8°0	
	12468 Mar 29 04:23	0° <b>)</b> €		desc. node	12470 Nov 25 06:51	23° <b>る</b> 44'30	
morning max el	12468 Apr 02 17:11	4° <b>)</b> €23'54	46°09'39		12470 Nov 30 16:25	0° <b>≈</b>	
	12468 Apr 26 23:26	$0$ ° $\Upsilon$			12470 Dec 27 08:29	0° <b>∀</b>	
	12468 May 23 03:58	$9^{\circ}$ 8		evening max el	12471 Jan 23 10:01	28° <b>₩</b> 01'10	45°56'09
desc. node	12468 Jun 09 22:00	21° <b>8</b> 07'10			12471 Jan 25 11:41	$0^{\circ}$ Y	
	12468 Jun 17 06:38	$\Pi$ °0		greatest brilliancy	12471 Mar 03 15:56	26° <b>Ƴ</b> 43'53	-4.8m
	12468 Jul 11 19:57	0ა <b>ௐ</b>		retrograde	12471 Mar 13 12:34	28° <b>Y</b> ′31′50	
	12468 Aug 05 02:33	$0^{\circ}\Omega$		asc. node	12471 Mar 18 08:15	28° <b>Y</b> ′03'51	
	12468 Aug 29 06:32	0° m/y		evening set	12471 Mar 28 09:41	24° <b>Y</b> °12'54	
	12468 Sep 22 10:05	0∘ <b>⊽</b>		inferior conj	12471 Apr 03 12:49	20° <b>Y</b> 33'47	3°57'36
asc. node	12468 Sep 30 14:35	10° <b>Ω</b> 10'15		minimum elong	12471 Apr 03 04:31	20° <b>Y</b> 46'42	3°55'00
morning set	12468 Oct 05 00:27	15° <b>Ω</b> 38'51		min. Earth dist. morning rise	12471 Apr 03 15:19	20° <b>Y</b> 29'53 17° <b>Y</b> 16'52	0.27822 AU
	12468 Oct 16 13:55 12468 Nov 09 18:25	0° <b>M</b> 0°⊀		direct	12471 Apr 08 22:54 12471 Apr 24 13:11	$17^{\circ}$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	12400 NOV 09 10.23	U X.		greatest brilliancy	12471 Apr 24 13.11 12471 May 04 22:31	12 <b>γ</b> 29 31 14° <b>γ</b> 30'00	-4.8m
superior conj	12468 Nov 11 19:56	2° <b>∡</b> ³33'23	1°20'00	greatest orillativy	12471 May 04 22.31 12471 May 28 20:14	0° <b>8</b>	T.0111
minimum elong	12468 Nov 11 13:01	2° <b>×</b> 11'58	1°20'39	morning max el	12471 Jun 13 20:13	14° <b>8</b> 57'16	46°51'35
max. Earth dist.	12468 Nov 13 20:13	5° <b>₹</b> 102'54	1.72820 AU		12471 Jun 28 05:22	0° <b>Ⅱ</b>	
	12468 Dec 04 00:18	0°る		desc. node	12471 Jul 08 09:32	11° <b>Ⅱ</b> 13'07	
evening rise	12468 Dec 18 18:10	18° <b>ರ</b> 11'11			12471 Jul 24 19:26	0°95	
C	12468 Dec 28 08:36	0° <b>≈</b>			12471 Aug 19 03:47	$0^{\circ}\Omega$	
desc. node	12469 Jan 20 05:18	28° <b>≈</b> 01'46			12471 Sep 12 23:46	0° <b>™</b>	
	12469 Jan 21 19:58	0° <b>)</b> €			12471 Oct 07 14:17	0∘ <b>⊽</b>	
	12469 Feb 15 10:17	$0^{\circ}$ Y		asc. node	12471 Oct 29 04:28	26° <b>≏</b> 27'10	
	12469 Mar 12 03:17	$9^{\circ}$ 8			12471 Nov 01 01:50	$0^{\circ}$ M	
	12469 Apr 06 00:16	$\Pi^{\circ}0$			12471 Nov 25 11:15	0° <b>∡</b> 7	
	12469 May 01 06:09	0		morning set	12471 Dec 14 21:16	23° <b>∡</b> 56′07	
asc. node	12469 May 13 01:30	13° <b>©</b> 44'15			12471 Dec 19 19:14	0°ප	
	12469 May 27 09:11	$0^{\circ}\Omega$			12472 Jan 13 02:44	0° <b>≈</b>	
evening max el	12469 Jun 20 02:56	25° <b>Ω</b> 18′29	46°48'31				
	12469 Jun 24 21:10	0° my	4.0	superior conj	12472 Jan 20 14:51	9°≈15'36	1°01'16
greatest brilliancy	12469 Jul 29 21:39	25° Mp 46'03	-4.9m	minimum elong	12472 Jan 21 00:40		1°01'40
retrograde	12469 Aug 09 09:39	27° Mp 49'06		max. Earth dist.	12472 Jan 20 14:49	9° <b>≈</b> 15'29	1.73169 AU
evening set	12469 Aug 24 01:39	23° Mp 35'27	0.045122	daga mada	12472 Feb 06 10:26	0° <b>)</b> 14°¥00'25	
inferior conj	12469 Aug 30 05:06	19° <b>m</b> 58'28	0°45'32	desc. node	12472 Feb 17 19:00	14° <b>∺</b> 00′25	

evening rise	12472 Feb 27 10:59	25° <b>)</b> €55'44		greatest brilliancy	12474 Jul 15 20:10	27° <b>Ⅱ</b> 18'26	_4 9m
evening rise	12472 Mar 01 18:12	25 <b>γ</b> (35 <del>11</del>		greatest orimancy	12474 Jul 21 20:36	0°95	-4.7111
	12472 Mar 26 01:26	0°8		desc. node	12474 Aug 04 19:52	9° <b>5</b> 25'04	
	12472 Apr 19 08:01	0°II		morning max el	12474 Aug 25 09:26	28°9510'18	46°49'44
	12472 May 13 15:17	0.ಕಾ 			12474 Aug 27 05:04	$0^{\circ}\Omega$	
	12472 Jun 07 02:15	$0^{\circ}\Omega$			12474 Sep 24 02:24	0° m/y	
asc. node	12472 Jun 09 12:31	2° <b>Ω</b> 57'35			12474 Oct 20 05:45	0∘ <u>v</u>	
	12472 Jul 01 21:51	0° <b>m</b> y			12474 Nov 14 15:30	0°M	
	12472 Jul 27 11:01	0∘ <u>v</u>		asc. node	12474 Nov 25 17:45	13°M16'16	
	12472 Aug 23 16:06	$0^{\circ}$ M			12474 Dec 09 15:02	0° <b>∡</b> ¹	
evening max el	12472 Aug 30 18:48	7° <b>™</b> 15'40	46°29'52		12475 Jan 03 07:36	0°రె	
	12472 Sep 25 23:25	0°∡7			12475 Jan 27 19:29	0°≈	
desc. node	12472 Sep 29 12:49	2° <b>√</b> 19'51			12475 Feb 21 04:20	0° <b>)</b> €	
greatest brilliancy	12472 Oct 08 23:21	7° <b>∡</b> °07'24	-4.8m	morning set	12475 Feb 21 17:16	0° <b>)</b> 39′55	
retrograde	12472 Oct 19 20:10	9° <b>∡</b> 18'18		desc. node	12475 Mar 17 09:08	29° <b>) (</b> 54'39	
evening set	12472 Nov 06 04:01	3° <b>∡</b> ³35'16			12475 Mar 17 10:51	$0^{\circ}$ Y	
min. Earth dist.	12472 Nov 09 13:34	1° <b>∡</b> ′30′48	0.28581 AU	max. Earth dist.	12475 Mar 29 08:13	14° <b>Y</b> '44'21	1.72441 AU
inferior conj	12472 Nov 10 06:18	1° <b>₹</b> 04'44	-8°08'18				
minimum elong	12472 Nov 09 22:47	1° <b>∡</b> 16′27	8°06'41	superior conj	12475 Apr 01 05:25	18° <b>Y</b> 19'05	-0°35'02
	12472 Nov 12 00:00	30°RM		minimum elong	12475 Mar 31 21:30	17° <b>Y</b> ′54'33	0°34'52
morning rise	12472 Nov 13 17:45	28°M56'32			12475 Apr 10 14:59	$9^{\circ}$ 8	
direct	12472 Dec 01 11:45	23°M00'04			12475 May 04 16:41	$\Pi$ °0	
greatest brilliancy	12472 Dec 11 07:05	24°M44'29	-4.7m	evening rise	12475 May 10 08:24	7° <b>Ⅱ</b> 03'51	
	12472 Dec 22 03:46	0° <b>∡</b>			12475 May 28 16:48	0	
morning max el	12473 Jan 19 09:13	23° <b>₹</b> 05′28	45°42'27		12475 Jun 21 17:10	$0^{\circ}\Omega$	
asc. node	12473 Jan 20 14:48	24° <b>∡</b> 17′09		asc. node	12475 Jul 08 00:47	20° <b>Ω</b> 18'45	
	12473 Jan 26 08:51	0°ප			12475 Jul 15 20:10	0° <b>™</b>	
	12473 Feb 23 06:34	0° <b>≈</b>			12475 Aug 09 04:29	0∘ <b>⊽</b>	
	12473 Mar 21 06:33	0° <b>∀</b>			12475 Sep 02 22:10	$0^{\circ}$ M	
	12473 Apr 15 09:25	0° <b>Υ</b>			12475 Sep 28 08:59	0° <b>∡</b>	
	12473 May 10 00:03	0°8			12475 Oct 25 06:59	0°ප	
desc. node	12473 May 12 11:07	3° <b>8</b> 01'30		desc. node	12475 Oct 27 22:25	2° <b>る</b> 47'53	
	12473 Jun 03 06:40	0°П		evening max el	12475 Nov 10 23:15	17° <b>る</b> 01'24	45°58'45
	12473 Jun 27 08:09	0°95			12475 Nov 25 07:12	0° <b>≈</b>	
	12473 Jul 21 07:07	$0^{\circ}\Omega$		greatest brilliancy	12475 Dec 20 01:46	15° <b>≈</b> 30'01	-4.7m
morning set	12473 Jul 21 18:48	0° <b>£</b> 36'35		retrograde	12475 Dec 29 23:32	17°≈16′23	
	12473 Aug 14 05:45	0° <b>m</b>		evening set	12476 Jan 15 19:21	11°≈52'44	
				inferior conj	12476 Jan 20 09:11	9°≈03'50	
superior conj	12473 Aug 30 07:54	20° m 07'49		minimum elong	12476 Jan 20 19:25	8°≈47'45	
minimum elong	12473 Aug 30 09:37	20° Mp 13'12	0°06'54	min. Earth dist.	12476 Jan 20 20:20	8°≈46'19	0.28776 AU
behind sun begin	12473 Aug 29 10:59	19° Mp 02'25		morning rise	12476 Jan 25 19:21	5°≈45'32	
behind sun end	12473 Aug 31 08:16	21° Mp 23'59	1 71020 ATT	direct asc. node	12476 Feb 10 19:15	0°≈49'34 1°≈48'46	
max. Earth dist.	12473 Sep 01 10:32	22° Mp 46'02	1.71820 AU		12476 Feb 18 00:42	1°≈48°46 2°≈58'55	-4.8m
asc. node	12473 Sep 02 02:09 12473 Sep 07 05:29	23° <b>™</b> 34'49 0° <b>₽</b>		greatest brilliancy	12476 Feb 21 15:19 12476 Mar 29 03:24	2 ≈3633 0° <b>H</b>	-4.0111
	12473 Sep 07 03:29 12473 Oct 01 07:10	0° <b>m</b> .		morning max el	12476 Mar 31 07:48	2° <b>∺</b> 08'11	46°08'00
evening rise	12473 Oct 07 07:10 12473 Oct 07 21:09	8°ጤ10'54		morning max ci	12476 Apr 26 15:20	2 γ(0811 0° <b>γ</b>	40 08 00
evening rise	12473 Oct 07 21:09 12473 Oct 25 11:42	0°×7'			12476 May 22 17:28	%8 0°8	
	12473 Nov 18 20:37	°ਤ ਹ°ਤੇ		desc. node	12476 Jun 09 00:00	20° <b>8</b> 35'14	
	12473 Dec 13 11:52	0° <b>≈</b>			12476 Jun 16 18:59	20 <b>О</b> 33 14	
desc. node	12473 Dec 22 18:31	11° <b>≈</b> 11'40			12476 Jul 11 07:39	0.ee	
	12474 Jan 07 11:21	0° <b>)</b> €			12476 Aug 04 13:52	$0^{\circ}\Omega$	
	12474 Feb 01 21:16	0° <b>Υ</b>			12476 Aug 28 17:35	0° m)	
	12474 Feb 27 23:00	0°8			12476 Sep 21 20:56	0∘ <u>⊽</u>	
	12474 Mar 27 10:42	0°II		asc. node	12476 Sep 29 16:19	9° <b>≏</b> 42'03	
evening max el	12474 Apr 05 12:53	9° <b>Ⅱ</b> 14'30	46°26'03	morning set	12476 Oct 02 15:08	13° <b>≏</b> 21'59	
asc. node	12474 Apr 14 17:34	18° <b>Ⅱ</b> 00′52		C	12476 Oct 16 00:38	$0^{\circ}$ M	
	12474 Apr 29 02:13	0ಂತಾ			12476 Nov 09 05:02	0° <b>∡</b> ″	
greatest brilliancy	12474 May 15 21:08	9° <b>5</b> 25'14	-4.9m				
retrograde	12474 May 25 11:19	11° <b>©</b> 08'53		superior conj	12476 Nov 09 12:20	0° <b>∡</b> ¹22'36	1°18'41
evening set	12474 Jun 12 15:05	4° <b>©</b> 51'35		minimum elong	12476 Nov 09 04:52	29°M59'29	1°19'18
inferior conj	12474 Jun 15 02:55	3° <b>5</b> 20'03	9°08'07	max. Earth dist.	12476 Nov 11 13:01	2° <b>₹</b> 53'23	1.72788 AU
minimum elong	12474 Jun 15 06:06	3° <b>©</b> 15'07	9°07'03		12476 Dec 03 10:54	8°0	
min. Earth dist.	12474 Jun 15 11:12	3° <b>©</b> 07'17	0.27312 AU	evening rise	12476 Dec 16 10:39	16° <b>පි</b> 01'17	
morning rise	12474 Jun 17 21:07	1° <b>9</b> 38'53			12476 Dec 27 19:17	0° <b>≈</b>	
	12474 Jun 20 17:21	30°R∏		desc. node	12477 Jan 19 07:15	27° <b>≈</b> 34′26	
direct	12474 Jul 05 22:17	25° <b>Ⅱ</b> 26′29			12477 Jan 21 06:53	0° <b>)</b> €	

	12477 Feb 14 21:33	$0$ ° $\mathbf{\gamma}$		asc. node	12479 Oct 28 06:25	25° <b>≏</b> 58'33	
	12477 Mar 11 15:05	$_{0\circ}$ 8			12479 Oct 31 13:04	0° <b>M</b> ₊	
	12477 Apr 05 12:53	$\Pi$ $^{\circ}0$			12479 Nov 24 22:13	0° <b>≯</b> ¹	
	12477 Apr 30 20:12	$0$ $\circ$		morning set	12479 Dec 12 13:59	21° <b>∡</b> ¹46′10	
asc. node	12477 May 12 03:27	13° <b>5</b> 06'30			12479 Dec 19 06:04	0° <b>ට</b>	
	12477 May 27 02:07	$0^{\circ}\Omega$			12480 Jan 12 13:32	0° <b>≈</b>	
evening max el	12477 Jun 17 15:43	22° <b>Ω</b> 53'18	46°48'23				
<i>y</i>	12477 Jun 24 22:37	0° m		superior conj	12480 Jan 18 07:23	7° <b>≈</b> 05'15	1°03'34
greatest brilliancy	12477 Jul 27 13:04	23° Mp 24'33	-4.9m	minimum elong	12480 Jan 18 17:10	7°≈35'26	1°04'02
retrograde	12477 Aug 06 22:31	25° m/25'42	4.7111	max. Earth dist.	12480 Jan 18 10:55	7°≈16'10	1.73175 AU
•	Č			max. Earth dist.		0°¥	1./31/3 AU
evening set	12477 Aug 21 16:15	21° mp 10'37	1000110		12480 Feb 05 21:16		
inferior conj	12477 Aug 27 18:17	17° m 35'55	1°09'18	desc. node	12480 Feb 16 20:48	13° <b>¥</b> 32′26	
minimum elong	12477 Aug 27 20:58	17° <b>m</b> 31'48	1°08'09	evening rise	12480 Feb 25 02:39	23° <b>)</b> 42′24	
min. Earth dist.	12477 Aug 27 13:36	17° Mp 43'06	0.27114 AU		12480 Mar 01 05:08	$0^{\circ}$ Y	
desc. node	12477 Sep 01 05:22	14° <b>m</b> 55'42			12480 Mar 25 12:32	$9^{\circ}$ 8	
morning rise	12477 Sep 03 02:02	13° Mp 54'12			12480 Apr 18 19:24	$\Pi$ $^{\circ}0$	
direct	12477 Sep 17 12:46	9° <b>m</b> 50'39			12480 May 13 03:05	$0$ $\circ$ $\odot$	
greatest brilliancy	12477 Sep 27 08:39	11° <b>m</b> 36'59	-4.8m		12480 Jun 06 14:38	$0^{\circ}\Omega$	
· ·	12477 Oct 25 09:12	0∘ <del>⊽</del>		asc. node	12480 Jun 08 14:32	2° <b>Ω</b> 25'47	
morning max el	12477 Nov 05 20:58	10° <b>£</b> 36'12	46°06'18		12480 Jul 01 11:15	0° m/p	
morning man vi	12477 Nov 24 20:49	0°M	.0 00 10		12480 Jul 27 02:21	0∘ <del>⊽</del>	
	12477 Dec 21 23:16	0°×7			12480 Aug 23 12:17	o° <b>m</b> .	
4					•		46921104
asc. node	12477 Dec 23 05:55	1° <b>∡</b> 727′26		evening max el	12480 Aug 28 10:27	4°M59'44	46°31'04
	12478 Jan 16 18:35	0°ප			12480 Sep 27 01:19	0° <b>∡</b> ¹	
	12478 Feb 10 21:21	0° <b>≈</b>		desc. node	12480 Sep 28 14:49	0° <b>∡</b> 756'46	
	12478 Mar 07 14:18	0° <b>∀</b>		greatest brilliancy	12480 Oct 06 13:25	4° <b>₮</b> 50'47	-4.8m
	12478 Apr 01 00:48	$0$ ° $\mathbf{\gamma}$		retrograde	12480 Oct 17 12:18	7° <b>∡</b> 03'28	
desc. node	12478 Apr 13 23:17	15° <b>Ƴ</b> 59'29		evening set	12480 Nov 03 15:48	1° <b>≯</b> ¹25'40	
	12478 Apr 25 06:18	$9^{\circ}$ 8			12480 Nov 06 00:29	30°RM₊	
morning set	12478 May 05 01:48	12° <b>8</b> 12'47		min. Earth dist.	12480 Nov 07 03:32	29° <b>M</b> 18'07	0.28536 AU
	12478 May 19 07:41	$\Pi$ $^{\circ}0$		inferior conj	12480 Nov 07 21:29	28°ML50'13	-8°00'00
	12478 Jun 12 06:13	0ം <b>ತಾ</b>		minimum elong	12480 Nov 07 13:24	29°ML02'47	7°58'15
max. Earth dist.	12478 Jun 12 14:12	0°\$25'02	1.71439 AU	morning rise	12480 Nov 11 11:16	26°M38'52	
				direct	12480 Nov 29 03:02	20°M46'20	
superior conj	12478 Jun 14 05:07	2° <b>©</b> 27'09	-1°26'42	greatest brilliancy	12480 Dec 08 20:40	22°M29'50	-4.7m
minimum elong	12478 Jun 14 08:19	2°937'11		greatest orimancy		0° <b>₹</b>	- <del></del>
minimum crong		4 200111					
			1 2/30	mamina may al	12480 Dec 23 05:33		45942120
	12478 Jul 06 03:43	$0^{\circ}\Omega$	1 27 30	morning max el	12481 Jan 17 00:57	20° <b>∡</b> 53′23	45°42'20
evening rise	12478 Jul 06 03:43 12478 Jul 24 13:12	0° <b>Ω</b> 23° <b>Ω</b> 04'07	1 27 30	morning max el asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47	20° <b>₹</b> 53'23 23° <b>₹</b> 28'48	45°42'20
C	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03	0°Ω 23°Ω04'07 0°Mp	1 27 30	•	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37	20°ൂ <b>7</b> 53'23 23°ॄ <b>7</b> 28'48 0° <b>ठ</b>	45°42'20
evening rise asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59	0° <b>N</b> 23° <b>N</b> 04'07 0° <b>m</b> 6° <b>m</b> 52'41	1 27 30	•	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30	20° ₹53′23 23° ₹28′48 0° ₹ 0° ≈	45°42'20
C	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45	0° N 23° N 04'07 0° M 6° M 52'41 0° Ω	1 2730	•	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36	20°♂53'23 23°♂28'48 0°♂ 0°≈ 0°भ	45°42'20
C	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59	0° <b>N</b> 23° <b>N</b> 04'07 0° <b>m</b> 6° <b>m</b> 52'41	1 2730	•	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30	20° ₹53′23 23° ₹28′48 0° ₹ 0° ≈	45°42'20
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C	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24	0° N 23° N04'07 0° M 6° M 52'41 0° Ω 0° M	1 2730	•	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32	20° ₹ 53'23 23° ₹ 28'48 0° ₹ 0° ₩ 0° ₩ 0° Υ	45°42'20
C	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26	0° N 23° N04'07 0° M 6° M 52'41 0° Ω 0° M 0° N	1 2730	asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39	20°♂53'23 23°♂28'48 0°♂ 0°≈ 0°भ 0°भ 0°Y 0°∀	45°42'20
asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52	0°A 23°A04'07 0°M 6°M52'41 0°A 0°M 0°⊀ 0°S	1 2730	asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07	45°42'20
asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01	0° N 23° N04'07 0° M 6° M 52'41 0° Ω 0° M 0° ⊀ 0° ₹ 23° ₹ 11'55	1 2730	asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅱ 0° \$	45°42'20
asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46	0° N 23° N04'07 0° M 6° M 52'41 0° Ω 0° M 0° X 0° S 23° S11'55 0° ≈ 0° H		asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ♥32'07 0° Ⅲ 0° \$ 28° \$510'52	45°42'20
asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14	0°Ω 23°Ω04'07 0° m 6° m 52'41 0° Ω 0° M 0° ℤ' 0° ℤ 23° ℤ 11'55 0° ≈ 0° ℋ 25° ℋ 44'56		asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩ 2° ₩ 32'07 0° Ⅲ 0° \$ 28° \$\sigma 10'52 0° Ω	45°42'20
asc. node  desc. node  evening max el	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56	0° Ω 23° Ω04'07 0° m 6° m 52'41 0° Ω 0° m 0° π 0° π 23° ℧11'55 0° ≈ 0° ℋ 25° ℋ44'56 0° Υ	45°55'44	asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ♥32'07 0° Ⅲ 0° \$ 28° \$510'52	45°42'20
asc. node  desc. node  evening max el  greatest brilliancy	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04		asc. node  desc. node  morning set	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$10'52 0° \$ 0° \$ 0° \$ 0° \$	
asc. node  desc. node  evening max el  greatest brilliancy retrograde	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\approx\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45	45°55'44	asc. node  desc. node  morning set	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 20 18:08 12481 Jul 20 18:08 12481 Aug 13 16:42	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$32'07 0° Ⅲ 0° \$ 0° \$ 17° \$\mathrm{\text{m}}\text{44'43}	-0°10'27
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43	45°55'44	asc. node  desc. node  morning set  superior conj minimum elong	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42 12481 Aug 27 21:03 12481 Aug 27 23:42	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$\$ 17° \$\$ \$44'43 17° \$\$ \$53'00	-0°10'27
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$56'57	45°55'44 -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$\$ 17° \$\$ 17° \$\$ 17° \$\$ 153'00 16° \$\$ 153'41	-0°10'27
desc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$56'57 18° \$\mathcal{O}\$16'01	45°55'44 -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$5'7 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00	45°55'44 -4.8m 3°37'01 3°34'35	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$\$ 17° \$\$ 17° \$\$ 17° \$\$ 153'00 16° \$\$ 153'41	-0°10'27
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Mar 31 19:40 12479 Apr 01 06:13	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$56'57 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'35	45°55'44 -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$\$ \$44'43 17° \$\$ \$53'00 16° \$\$ \$53'41 18° \$\$ \$52'19 20° \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Mar 31 19:40	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$5'7 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00	45°55'44 -4.8m 3°37'01 3°34'35	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 30 01:16	20° ₹53'23 23° ₹28'48 0° ₹ 0° № 0° ¥ 0° ¥ 0° ¥ 2° ₹32'07 0° Ⅱ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$ \$ \$44'43 17° \$ \$ \$53'00 16° \$ \$ \$53'41 18° \$ \$ \$52'19 20° \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist.	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Mar 31 19:40 12479 Apr 01 06:13	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'43 21° \$\mathcal{O}\$56'57 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'35	45°55'44 -4.8m 3°37'01 3°34'35	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 Apr 14 21:32 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$\$ \$44'43 17° \$\$ \$53'00 16° \$\$ \$53'41 18° \$\$ \$52'19 20° \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$ \$\$	-0°10'27 0°10'37
asc. node  desc. node  evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Apr 01 06:13 12479 Apr 01 06:13	0°Ω 23°Ω04'07 0°™ 6°™52'41 0°Ω 0°™ 0°¾ 0°% 23°♂11'55 0°≈ 0°¾ 25°¾44'56 0°Υ 24°Υ26'04 26°Υ14'45 25°Υ26'43 21°Υ56'57 18°Υ16'01 18°Υ28'00 18°Υ11'35 14°Υ55'39	45°55'44 -4.8m 3°37'01 3°34'35	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist.	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 2° ₹32'07 0° \$ 0° \$ 28° \$10'52 0° \$ 0° \$ 17° \$ \$ \$44'43 17° \$ \$ \$53'41 18° \$ \$52'19 20° \$ \$ \$27'56 23° \$ \$ \$ \$06'19 0° \$	-0°10'27 0°10'37
asc. node  desc. node  evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Mar 31 19:40 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 06 16:06 12479 Apr 22 03:59	0°Ω 23°Ω04'07 0°™ 6°™52'41 0°Ω 0°™ 0°¾ 0°% 23°♂11'55 0°≈ 0°¾ 25°¾44'56 0°Υ 24°Υ26'04 26°Υ14'45 25°Υ26'43 21°Υ56'57 18°Υ16'01 18°Υ28'00 18°Υ28'00 18°Υ11'35 14°Υ55'39 10°Υ11'11	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 02 17:59 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 30 18:06	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 2° ₹32'07 0° Π 0° \$ 28° \$10'52 0° \$ 0° \$ 17° \$ \$44'43 17° \$ \$53'00 16° \$ \$53'41 18° \$ \$52'19 20° \$ \$27'56 23° \$ \$06'19 0° \$ 0° \$ \$ 0° \$ \$	-0°10'27 0°10'37
asc. node  desc. node  evening max el greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Mar 31 19:40 12479 Apr 01 06:13 12479 Apr 06 16:06 12479 Apr 02 03:59 12479 May 02 14:25	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'15'5130 0° \$\mathcal{O}\$0° \$\mathcal{O}\$11'11 12° \$\mathcal{O}\$13'00 0° \$\mathcal{O}\$	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 30 18:06 12481 Oct 05 12:29	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₹ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° ¥ 0° \$ 2° \$32'07 0° \$ 0° \$ 28° \$310'52 0° \$ 0° \$ 0° \$ 17° \$ \$44'43 17° \$ \$53'00 16° \$ \$53'41 18° \$ \$52'19 20° \$ \$27'56 23° \$ \$06'19 0° \$ 0° \$ 0° \$ \$\$ 0° \$ \$\$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 02 03:59 12479 May 02 14:25 12479 May 29 02:53	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\infty\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 18° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'15 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'11 12° \$\mathcal{O}\$13'00	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 11 13:08 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 28 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 30 18:06 12481 Oct 05 12:29 12481 Oct 24 22:42	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$\mathref{S}\$ 28° \$\mathref{S}\$10'52 0° \$\mathref{Q}\$ 0° \$\mathref{m}\$ 17° \$\mathref{m}\$44'43 17° \$\mathref{m}\$53'00 16° \$\mathref{m}\$53'41 18° \$\mathref{m}\$52'19 20° \$\mathref{m}\$27'56 23° \$\mathref{m}\$06'19 0° \$\mathref{L}\$ 0° \$\mathref{L}\$ 0° \$\mathref{L}\$ 5° \$\mathref{L}\$55'32 0° \$\mathref{Z}\$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Mar 31 19:40 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 02 03:59 12479 May 02 14:25 12479 May 29 02:53 12479 Jun 11 11:16 12479 Jun 27 23:26	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\approx\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'11 12° \$\mathcal{O}\$13'00 0° \$\mathcal{O}\$ 12° \$\mathcal{O}\$38'52 0° \$\mathcal{I}\$	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node  evening rise	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 01 11:308 12481 Jun 02 17:59 12481 Jun 02 17:59 12481 Jun 19 07:18 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Oct 05 12:29 12481 Oct 05 12:29 12481 Nov 18 07:48 12481 Dec 12 23:24	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 0° \$ 17° \$ \$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 02 14:25 12479 May 02 14:25 12479 May 29 02:53 12479 Jun 11 11:16 12479 Jun 27 23:26 12479 Jul 07 11:34	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\approx\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'56'57 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'13 12° \$\mathcal{O}\$13'00 0° \$\mathcal{O}\$ 12° \$\mathcal{O}\$38'52 0° \$\mathcal{I}\$ 10° \$\mathcal{I}\$32'40	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 01 11:308 12481 Jun 02 17:59 12481 Jun 02 17:59 12481 Jun 19 07:18 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 29 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 06 16:24 12481 Oct 24 22:42 12481 Nov 18 07:48 12481 Dec 12 23:24 12481 Dec 12 23:24	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅲ 0° \$ 28° \$510'52 0° \$ 0° \$ 17° \$ \$44'43 17° \$ \$53'00 16° \$ \$53'41 18° \$ \$52'19 20° \$ \$27'56 23° \$ \$06'19 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 0° \$ 10° \$ 28° \$ \$42'10	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 17 10:08 12479 Mar 31 19:40 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 06 16:06 12479 Apr 07 06:13 12479 May 02 14:25 12479 May 02 14:25 12479 May 29 02:53 12479 Jun 11 11:16 12479 Jun 27 23:26 12479 Jul 07 11:34 12479 Jul 24 10:07	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\approx\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'01 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'13 12° \$\mathcal{O}\$13'00 0° \$\mathcal{O}\$ 12° \$\mathcal{O}\$38'52 0° \$\mathcal{I}\$ 10° \$\mathcal{I}\$32'40 0° \$\mathcal{O}\$	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node  evening rise	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 01 11:308 12481 Jun 02 17:59 12481 Jun 02 17:59 12481 Jun 19 07:18 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 29 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 06 16:24 12481 Oct 05 12:29 12481 Oct 04 22:42 12481 Nov 18 07:48 12481 Dec 12 23:24 12481 Dec 21 20:28 12482 Jan 06 23:33	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅲ 0° \$\text{\$\text{\$\sigma}\$} 28° \$\text{\$\sigma}\$10'52 0° \$\$\text{\$	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 01 05:46 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 25 22:46 12479 Apr 01 03:22 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 06 16:06 12479 Apr 02 03:59 12479 May 02 14:25 12479 May 02 14:25 12479 Jun 11 11:16 12479 Jun 27 23:26 12479 Jul 07 11:34 12479 Jul 24 10:07 12479 Aug 18 16:55	0°Ω 23°Ω04'07 0°™ 6°™52'41 0°Ω 0°™ 0°♂ 23°♂11'55 0°≈ 0°∀ 25°∀44'56 0°Υ 24°Υ26'04 26°Υ14'45 25°Υ26'43 21°Υ56'57 18°Υ16'01 18°Υ28'00 18°Υ11'35 14°Υ55'39 10°Υ11'11 12°Υ13'00 0°℧ 12°℧38'52 0°Ⅲ 10°Ⅲ32'40 0°© 0°Ω	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node  evening rise	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 01 11:308 12481 Jun 02 17:59 12481 Jun 26 19:17 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 29 18:41 12481 Aug 20 10:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 06 16:24 12481 Oct 05 12:29 12481 Oct 05 12:29 12481 Oct 02 24 22:42 12481 Nov 18 07:48 12481 Dec 12 23:24 12481 Dec 21 20:28 12482 Jan 06 23:33 12482 Feb 01 10:36	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₩32'07 0° Ⅲ 0° \$\mathbb{G} 28° \$\mathbb{G}\$10'52 0° \$\mathbb{G}\$ 0° \$\mathbb{G}\$ 17° \$\mathbb{M}\$44'43 17° \$\mathbb{M}\$52'19 20° \$\mathbb{M}\$27'56 23° \$\mathbb{M}\$06'19 0° \$\mathbb{G}\$ 0°	-0°10'27 0°10'37
asc. node  desc. node  evening max el  greatest brilliancy retrograde asc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy morning max el	12478 Jul 06 03:43 12478 Jul 24 13:12 12478 Jul 30 02:03 12478 Aug 04 13:59 12478 Aug 23 02:45 12478 Sep 16 07:24 12478 Oct 10 18:26 12478 Nov 04 15:52 12478 Nov 24 08:52 12478 Nov 30 06:01 12478 Dec 27 00:46 12479 Jan 21 00:14 12479 Jan 25 11:56 12479 Mar 11 03:06 12479 Mar 17 10:08 12479 Mar 17 10:08 12479 Mar 31 19:40 12479 Apr 01 06:13 12479 Apr 01 06:13 12479 Apr 06 16:06 12479 Apr 07 06:13 12479 May 02 14:25 12479 May 02 14:25 12479 May 29 02:53 12479 Jun 11 11:16 12479 Jun 27 23:26 12479 Jul 07 11:34 12479 Jul 24 10:07	0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$04'07 0° \$\mathcal{O}\$ 6° \$\mathcal{O}\$52'41 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 0° \$\mathcal{O}\$ 23° \$\mathcal{O}\$11'55 0° \$\approx\$ 0° \$\mathcal{O}\$ 25° \$\mathcal{O}\$44'56 0° \$\mathcal{O}\$ 24° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'04 26° \$\mathcal{O}\$14'45 25° \$\mathcal{O}\$26'01 18° \$\mathcal{O}\$16'01 18° \$\mathcal{O}\$28'00 18° \$\mathcal{O}\$11'13 12° \$\mathcal{O}\$13'00 0° \$\mathcal{O}\$ 12° \$\mathcal{O}\$38'52 0° \$\mathcal{I}\$ 10° \$\mathcal{I}\$32'40 0° \$\mathcal{O}\$	45°55'44 -4.8m 3°37'01 3°34'35 0.27846 AU -4.8m	asc. node  desc. node  morning set  superior conj minimum elong behind sun begin behind sun end max. Earth dist. asc. node  evening rise	12481 Jan 17 00:57 12481 Jan 19 16:47 12481 Jan 26 04:37 12481 Feb 22 21:30 12481 Mar 20 19:36 12481 May 09 11:39 12481 May 01 11:308 12481 Jun 02 17:59 12481 Jun 02 17:59 12481 Jul 19 07:18 12481 Jul 20 18:08 12481 Aug 13 16:42  12481 Aug 27 21:03 12481 Aug 27 23:42 12481 Aug 27 04:44 12481 Aug 27 04:44 12481 Aug 28 18:41 12481 Aug 29 18:41 12481 Aug 30 01:16 12481 Sep 01 03:57 12481 Sep 06 16:24 12481 Sep 06 16:24 12481 Oct 05 12:29 12481 Oct 04 22:42 12481 Nov 18 07:48 12481 Dec 12 23:24 12481 Dec 21 20:28 12482 Jan 06 23:33	20° ₹53'23 23° ₹28'48 0° ₹ 0° ₩ 0° ₩ 0° ₩ 0° ₩ 2° ₹32'07 0° Ⅲ 0° \$\text{\$\text{\$\sigma}\$} 28° \$\text{\$\sigma}\$10'52 0° \$\$\text{\$	-0°10'27 0°10'37

evening max el	12482 Apr 03 03:24	6° <b>Ⅱ</b> 54'49	46024151		12484 Sep 21 07:48	0∘ <b>⊽</b>	
asc. node	12482 Apr 13 19:40	17° <b>Д</b> 01'25	40 24 31	asc. node	12484 Sep 28 18:15	0 <u>⊶</u> 9° <b>≏</b> 14'31	
asc. node	12482 Apr 30 00:46	17 <b>п</b> от 23		morning set	12484 Sep 30 06:08	9 <b>2</b> 14 31 11° <b>2</b> 06′02	
greatest brilliancy	12482 Apr 30 00:40 12482 May 13 09:58	0 S 7°S01'06	-4.9m	morning set	12484 Oct 15 11:20	0°M	
-	12482 May 23 00:25	8°9544'35	-4.7111		12464 Oct 13 11.20	O IIG	
retrograde evening set	12482 Jun 10 04:56	2°\$26'26		aumorior aoni	12484 Nov 07 05:02	28°M12'43	1°17'16
inferior conj	12482 Jun 12 16:06	0°\$55'42	9°10'50	superior conj			1°17'10 1°17'50
-				minimum elong	12484 Nov 06 21:04	2/°11L4804 0° <b>√</b> 1	1-17-50
minimum elong	12482 Jun 12 18:19	0°552'15	9°09'52	Fauth 4:-4	12484 Nov 08 15:39		1.727(0 AII
min. Earth dist.	12482 Jun 12 23:40	0°544'00	0.27327 AU	max. Earth dist.	12484 Nov 09 04:49		1.72760 AU
	12482 Jun 14 04:15	30°RⅡ			12484 Dec 02 21:32	0°る	
morning rise	12482 Jun 15 07:42	29° <b>Ⅱ</b> 18'13		evening rise	12484 Dec 14 03:20	13°る51'54	
direct	12482 Jul 03 11:55	23° <b>I</b> I02'05			12484 Dec 27 06:03	0° <b>≈</b>	
greatest brilliancy	12482 Jul 13 08:46	24° <b>Ⅱ</b> 52'56	-4.9m	desc. node	12485 Jan 18 09:02	27°≈06'21	
	12482 Jul 23 14:04	$0$ $\circ$			12485 Jan 20 17:52	0° <b>∀</b>	
desc. node	12482 Aug 03 21:46	8° <b>©</b> 14'33			12485 Feb 14 08:54	0° <b>Ƴ</b>	
morning max el	12482 Aug 22 22:45	25° <b>©</b> 46'31	46°50'40		12485 Mar 11 02:58	0°8	
	12482 Aug 27 02:46	$0$ $\circ$ $\Omega$			12485 Apr 05 01:38	$\Pi$ °0	
	12482 Sep 23 18:20	0° <b>m</b> y			12485 Apr 30 10:27	$0$ $\circ$ $\odot$	
	12482 Oct 19 19:23	0∘ <b>亚</b>		asc. node	12485 May 11 05:29	12° <b>5</b> 28'36	
	12482 Nov 14 03:55	0° <b>M</b> .			12485 May 26 19:27	$0^{\circ}\Omega$	
asc. node	12482 Nov 24 19:42	12° <b>M</b> ₊46′00		evening max el	12485 Jun 15 04:11	20° <b>Ω</b> 27'14	46°48'15
	12482 Dec 09 02:44	0° <b>∡</b> ¹			12485 Jun 25 01:32	0° <b>m</b> )	
	12483 Jan 02 18:50	8°0		greatest brilliancy	12485 Jul 25 04:14	21° <b>m</b> 02'44	-4.9m
	12483 Jan 27 06:26	0° <b>≈</b>		retrograde	12485 Aug 04 11:43	23° Mp 02'42	
morning set	12483 Feb 19 09:12	28° <b>≈</b> 27'35		evening set	12485 Aug 19 07:05	18° <b>m</b> 45'35	
-	12483 Feb 20 15:10	0° <b>∀</b>		inferior conj	12485 Aug 25 07:30	15° m 13'33	1°32'57
desc. node	12483 Mar 16 10:57	29° <b>¥</b> 26'42		minimum elong	12485 Aug 25 11:05	15° m/08'05	1°31'30
	12483 Mar 16 21:42	$0^{\circ}\Upsilon$		min. Earth dist.	12485 Aug 25 04:21	15° <b>m</b> ) 18'23	0.27088 AU
max. Earth dist.	12483 Mar 26 21:14	12° <b>Y</b> ′22'14	1.72481 AU	desc. node	12485 Aug 31 07:23	11° <b>m</b> ) 42'23	
		-		morning rise	12485 Aug 31 15:19	11° <b>m</b> )31'46	
superior conj	12483 Mar 29 19:19	15° <b>Y</b> ′59'36	-0°31'40	direct	12485 Sep 15 01:10	7° m) 28'14	
minimum elong	12483 Mar 29 12:05	15° <b>Υ</b> 37'11	0°31'30	greatest brilliancy	12485 Sep 24 22:51	9° Mp 16'11	-4.8m
minimum crong	12483 Apr 10 01:53	0°8	0 3130	greatest orimaney	12485 Oct 25 13:48	0∘ <del>ت</del>	1.0111
	12483 May 04 03:39	0°II		morning max el	12485 Nov 03 10:37	ა <b>–</b> 8° <b>≏</b> 17'24	46°07'58
evening rise	12483 May 07 21:07	4° <b>Ⅱ</b> 39'15		morning max cr	12485 Nov 24 14:02	0°M	40 07 30
evening rise	12483 May 07 21:07 12483 May 28 03:53	0°95			12485 Dec 21 13:07	0° <b>⊼</b> ¹	
	12483 Jun 21 04:25	0° <b>U</b>		asc. node	12485 Dec 22 07:49	0° <b>₹</b> ¹53'32	
	12483 Jul 07 02:37			asc. node		0 x 33 32 0°る	
asc. node		19° <b>Ω</b> 49'00			12486 Jan 16 06:56	0° <b>≈</b>	
	12483 Jul 15 07:40	0° <b>m</b> )			12486 Feb 10 08:56		
	12483 Aug 08 16:24	0∘ <b>亚</b>			12486 Mar 07 01:28	0° <b>ℋ</b> 0° <b>Ƴ</b>	
	12483 Sep 02 10:49	0°M			12486 Mar 31 11:44		
	12483 Sep 27 23:07	0° <b>∡</b> ¹		desc. node	12486 Apr 13 01:17	15° <b>Y</b> ′32′04	
	12483 Oct 25 00:38	0°る			12486 Apr 24 17:06	0° <b>8</b>	
desc. node	12483 Oct 27 00:27	2°る05'40		morning set	12486 May 02 13:46	9° <b>8</b> 46'56	
evening max el	12483 Nov 08 13:50	14° <b>る</b> 46'48	45°59'21		12486 May 18 18:26	0°Щ	
	12483 Nov 25 15:14	0° <b>≈</b>		max. Earth dist.	12486 Jun 09 23:11	27° <b>Ⅱ</b> 48'52	1.71461 AU
greatest brilliancy	12483 Dec 17 17:43	13° <b>≈</b> 19′25	-4.7m				
retrograde	12483 Dec 27 14:33	15° <b>≈</b> 05'21		superior conj	12486 Jun 11 16:46	29° <b>Ⅱ</b> 59'18	
evening set	12484 Jan 13 14:06	9° <b>≈</b> 37'26		minimum elong	12486 Jun 11 18:56	0° <b>5</b> 06'06	1°28'03
inferior conj	12484 Jan 18 01:09	6° <b>≈</b> 52'35			12486 Jun 11 16:59	ი°©	
minimum elong	12484 Jan 18 11:20	6° <b>≈</b> 36'33	6°28'57		12486 Jul 05 14:32	$0^{\circ}\Omega$	
min. Earth dist.	12484 Jan 18 12:09	6° <b>≈</b> 35'16	0.28803 AU	evening rise	12486 Jul 22 00:42	20° <b>Ω</b> 35'55	
morning rise	12484 Jan 23 08:25	3° <b>≈</b> 38′07			12486 Jul 29 12:55	0° <b>m</b> y	
	12484 Jan 31 04:50	30°Ŗ₹		asc. node	12486 Aug 03 15:50	6° Mg 24′24	
direct	12484 Feb 08 11:00	28° <b>る</b> 38'12			12486 Aug 22 13:42	0∘ <b>ত</b>	
asc. node	12484 Feb 17 02:36	0° <b>≈</b> 01'42			12486 Sep 15 18:31	0° <b>M</b>	
	12484 Feb 17 00:25	0° <b>≈</b>			12486 Oct 10 05:54	0° <b>∡</b> ¹	
greatest brilliancy	12484 Feb 19 07:17	0° <b>≈</b> 47'11	-4.8m		12486 Nov 04 03:58	0°ප	
morning max el	12484 Mar 28 21:52	29° <b>≈</b> 50′28	46°06'29	desc. node	12486 Nov 23 10:51	22° <b>る</b> 39'59	
	12484 Mar 29 01:44	0° <b>∀</b>			12486 Nov 29 19:24	0° <b>≈</b>	
	12484 Apr 26 07:09	$0^{\circ}$ Y			12486 Dec 26 16:59	0° <b>)</b>	
	12484 May 22 07:01	0°8		evening max el	12487 Jan 18 15:24	23° <b>)</b> 32′00	45°55'12
desc. node	12484 Jun 08 01:54	20° <b>8</b> 02'38			12487 Jan 25 13:03	$0^{\circ}$ Y	
	12484 Jun 16 07:26	$\Pi$ $^{\circ}$ 0		greatest brilliancy	12487 Feb 26 19:25	22° <b>Y</b> ′09'00	-4.8m
	12484 Jul 10 19:28	0ಂತಾ		retrograde	12487 Mar 08 18:02	23° <b>Y</b> ′58'25	
	12484 Aug 04 01:15	$0^{\circ}\Omega$		asc. node	12487 Mar 16 12:16	22° <b>Y</b> '45'08	
	12484 Aug 28 04:41	0° <b>m</b>		evening set	12487 Mar 23 12:12	19° <b>Ƴ</b> 41'43	
		-		J			

	1040734 20 17 50	1.5000.5010.1	201 (100	1.11.1	12400 4 26 01 00	1.60 m. 0.010 4	
inferior conj	12487 Mar 29 17:59	15° <b>Y</b> 59'01		behind sun end	12489 Aug 26 01:09	16° Mp 09'24	1 71750 444
minimum elong	12487 Mar 29 10:54	16° <b>Y</b> 10′00	3°13'53	max. Earth dist.	12489 Aug 27 16:02	18° Mp 10'59	1.71759 AU
min. Earth dist.	12487 Mar 29 20:58	15° <b>Y</b> 54′22	0.27873 AU	asc. node	12489 Aug 31 05:51	22° m/39'12	
morning rise	12487 Apr 04 09:14	12° <b>Y</b> 35′25			12489 Sep 06 02:58	0∘ <b>⊽</b>	
direct	12487 Apr 19 19:18	7° <b>Y</b> 53'49			12489 Sep 30 04:40	0° <b>M</b>	
greatest brilliancy	12487 Apr 30 05:53	9° <b>Y</b> 56'15	-4.8m	evening rise	12489 Oct 03 03:37	3°M40'33	
	12487 May 29 07:12	0° <b>8</b>			12489 Oct 24 09:21	0° <b>∡</b> ¹	
morning max el	12487 Jun 09 02:46	10° <b>8</b> 22'24	46°49'30		12489 Nov 17 18:37	0°₹	
	12487 Jun 27 16:49	$\Pi$ $^{\circ}0$			12489 Dec 12 10:35	0° <b>≈</b>	
desc. node	12487 Jul 06 13:29	9° <b>Ⅱ</b> 53'06		desc. node	12489 Dec 20 22:18	10° <b>≈</b> 13'31	
	12487 Jul 24 00:21	0ංම			12490 Jan 06 11:21	0° <b>∀</b>	
	12487 Aug 18 05:41	$0$ $^{\circ}\Omega$			12490 Jan 31 23:31	0° <b>Υ</b>	
	12487 Sep 11 23:55	0° <b>m</b> )			12490 Feb 27 05:29	$9^{\circ}$ 8	
	12487 Oct 06 13:15	0∘ <b>⊽</b>			12490 Mar 27 03:29	$\Pi$ °0	
asc. node	12487 Oct 27 08:20	25° <b>≏</b> 30'43		evening max el	12490 Mar 31 16:56	4° <b>Ⅱ</b> 34'13	46°23'27
	12487 Oct 30 23:59	0° <b>M</b>		asc. node	12490 Apr 12 21:38	16° <b>Ⅱ</b> 01'43	
	12487 Nov 24 08:52	0° <b>⊀</b> 7			12490 May 01 07:07	$0$ $\circ$ $\odot$	
morning set	12487 Dec 10 07:08	19° <b>∡</b> ³38'35		greatest brilliancy	12490 May 10 23:15	4° <b>5</b> 38'38	-4.9m
	12487 Dec 18 16:32	0°ಕ		retrograde	12490 May 20 12:58	6°521'26	
	12488 Jan 11 23:57	0° <b>≈</b>		evening set	12490 Jun 07 18:11	0° <b>ട്ട</b> 03'21	
					12490 Jun 07 20:24	30°RⅡ	
superior conj	12488 Jan 16 00:22	4° <b>≈</b> 57'25	1°05'45	inferior conj	12490 Jun 10 05:18	28° <b>Ⅲ</b> 32'29	9°12'31
minimum elong	12488 Jan 16 10:03	5° <b>≈</b> 27'18	1°06'15	minimum elong	12490 Jun 10 06:32	28° <b>Ⅲ</b> 30'34	9°11'35
max. Earth dist.	12488 Jan 16 08:34	5° <b>≈</b> 22'42	1.73179 AU	min. Earth dist.	12490 Jun 10 12:32	28° <b>Ⅲ</b> 21′18	0.27349 AU
	12488 Feb 05 07:43	0° <b>∀</b>		morning rise	12490 Jun 12 18:54	26° <b>Ⅱ</b> 57'49	
desc. node	12488 Feb 15 22:42	13° <b>₩</b> 05'51		direct	12490 Jul 01 01:06	20° <b>Ⅱ</b> 38'30	
evening rise	12488 Feb 22 18:37	21° <b>∺</b> 31′04		greatest brilliancy	12490 Jul 10 22:09	22° <b>II</b> 29'03	-4.9m
	12488 Feb 29 15:44	$0^{\circ}$ $\Upsilon$			12490 Jul 24 18:24	$0$ $\circ$ $\odot$	
	12488 Mar 24 23:22	$0^{\circ}$ 8		desc. node	12490 Aug 02 23:48	7° <b>5</b> 06'59	
	12488 Apr 18 06:33	$\Pi^{\circ}0$		morning max el	12490 Aug 20 11:17	23° <b>5</b> 21'17	46°51'35
	12488 May 12 14:38	0ං <b>ව</b>			12490 Aug 26 23:27	$0^{\circ}\Omega$	
	12488 Jun 06 02:48	$0^{\circ}\Omega$			12490 Sep 23 09:45	0° <b>m</b>	
asc. node	12488 Jun 07 16:23	1° <b>Ω</b> 54'14			12490 Oct 19 08:36	0∘ <b>⊽</b>	
	12488 Jul 01 00:27	0° <b>m</b> p			12490 Nov 13 15:56	0°M₊	
	12488 Jul 26 17:36	0∘ <b>⊽</b>		asc. node	12490 Nov 23 21:29	12°M16'20	
	12488 Aug 23 08:46	0° <b>M</b>			12490 Dec 08 14:01	0° <b>∡</b> 7	
evening max el	12488 Aug 26 02:26	2°M45'27	46°32'10		12491 Jan 02 05:41	0°ಕ	
desc. node	12488 Sep 27 16:56	29°M32'01			12491 Jan 26 17:01	0° <b>≈</b>	
	12488 Sep 28 13:26	0° <b>∡</b> 7		morning set	12491 Feb 17 01:31	26° <b>≈</b> 17'35	
greatest brilliancy	12488 Oct 04 04:03	2° <b>҂</b> ³35'42	-4.8m		12491 Feb 20 01:38	0° <b>)</b> €	
retrograde	12488 Oct 15 04:20	4° <b>∡</b> ¹49'15		desc. node	12491 Mar 15 12:55	29° <b>)</b> €00'29	
	12488 Oct 30 21:48	30°RML			12491 Mar 16 08:08	$0^{\circ}$ Y	
evening set	12488 Nov 01 03:33	29°M17'06		max. Earth dist.	12491 Mar 24 12:12	10° <b>Ƴ</b> 07'28	1.72520 AU
min. Earth dist.	12488 Nov 04 17:35	27°ML06'08	0.28485 AU				
inferior conj	12488 Nov 05 12:37	26°M36'34	-7°51'01	superior conj	12491 Mar 27 09:45	13° <b>Y</b> 43'07	-0°28'19
minimum elong	12488 Nov 05 04:01	26°M49'56	7°49'06	minimum elong	12491 Mar 27 03:13	13° <b>Y</b> 22'54	0°28'07
morning rise	12488 Nov 09 04:50	24°M21'44			12491 Apr 09 12:21	$9^{\circ}$ 8	
direct	12488 Nov 26 18:22	18°MJ33'45			12491 May 03 14:13	$\Pi$ °0	
greatest brilliancy	12488 Dec 06 09:53	20°M15'44	-4.8m	evening rise	12491 May 05 10:18	2° <b>Ⅱ</b> 17'32	
	12488 Dec 23 23:46	0° <b>∡</b> ¹			12491 May 27 14:37	0ංම	
morning max el	12489 Jan 14 16:05	18° <b>∡</b> ¹41'17	45°42'24		12491 Jun 20 15:23	$0^{\circ}\Omega$	
asc. node	12489 Jan 18 18:40	22° <b>∡¹</b> 42'27		asc. node	12491 Jul 06 04:28	19° <b>Ω</b> 20′08	
	12489 Jan 25 23:16	0°ಕ			12491 Jul 14 18:57	0° <b>™</b>	
	12489 Feb 22 11:43	0° <b>≈</b>			12491 Aug 08 04:09	0∘ <b>亚</b>	
	12489 Mar 20 08:05	0° <b>∀</b>			12491 Sep 01 23:21	$0^{\circ}$ M	
	12489 Apr 14 09:11	$0$ ° $\mathbf{\gamma}$			12491 Sep 27 13:11	0° <b>∡</b> ¹	
	12489 May 08 22:53	$0^{\circ}$ 8			12491 Oct 24 18:28	0° <b>ට</b>	
desc. node	12489 May 10 14:59	2° <b>8</b> 03'22		desc. node	12491 Oct 26 02:25	1° <b>る</b> 23'19	
	12489 Jun 02 04:58	$\Pi$ °0		evening max el	12491 Nov 06 03:33	12° <b>る</b> 30'38	46°00'09
	12489 Jun 26 06:06	$0$ $\circ$ $\odot$			12491 Nov 26 01:51	0° <b>≈</b>	
morning set	12489 Jul 16 19:25	25° <b>©</b> 44'54		greatest brilliancy	12491 Dec 15 09:25	11° <b>≈</b> 09'11	-4.7m
	12489 Jul 20 04:49	$0^{\circ}\Omega$		retrograde	12491 Dec 25 05:49	12° <b>≈</b> 55′14	
	12489 Aug 13 03:18	0° <b>m</b>		evening set	12492 Jan 11 08:47	7° <b>≈</b> 22'40	
				inferior conj	12492 Jan 15 17:04	4° <b>≈</b> 42'04	-6°45'14
superior conj	12489 Aug 25 09:53	15° <b>m</b> 21'38	-0°14'10	minimum elong	12492 Jan 16 03:09	4° <b>≈</b> 26′12	6°42'30
minimum elong	12489 Aug 25 13:27	15° <b>m</b> 32'47	0°14'19	min. Earth dist.	12492 Jan 16 03:56	4° <b>≈</b> 24'58	0.28826 AU
behind sun begin	12489 Aug 25 01:44	14° <b>m</b> 56'10		morning rise	12492 Jan 20 21:20	1° <b>≈</b> 31'50	

	12402 I 22 16.47	2005		1-	12404 4 02 17:47	50 m 50155	
	12492 Jan 23 16:47	30°Rる		asc. node	12494 Aug 02 17:47	5° m 56'55	
direct	12492 Feb 06 02:26	26° <b>පි</b> 27'26			12494 Aug 22 00:32	0∘ <b>ಹ</b>	
asc. node	12492 Feb 16 04:43	28° <b>る</b> 19'27			12494 Sep 15 05:36	0° <b>M</b>	
greatest brilliancy	12492 Feb 16 23:29	28° <b>る</b> 36'39	-4.8m		12494 Oct 09 17:24	0° <b>∡</b> ¹	
	12492 Feb 20 05:56	0° <b>≈</b>			12494 Nov 03 16:12	0°る	
morning max el	12492 Mar 26 12:32	27° <b>≈</b> 35'18	46°05'15	desc. node	12494 Nov 22 12:42	22° <b>る</b> 07'14	
<i>S</i>	12492 Mar 28 22:48	0° <b>)</b> €			12494 Nov 29 09:02	0° <b>≈</b>	
	12492 Apr 25 22:18	0° <b>Υ</b>			12494 Dec 26 09:41	0° <b>)</b> €	
	•	0°8				21° <b>H</b> 20'07	15051117
	12492 May 21 20:02	_		evening max el	12495 Jan 16 07:06		45°54'47
desc. node	12492 Jun 07 03:47	19° <b>8</b> 31'21			12495 Jan 25 15:47	0° <b>Υ</b>	
	12492 Jun 15 19:25	$\Pi$ $^{\circ}0$		greatest brilliancy	12495 Feb 24 09:12	19° <b>Ƴ</b> 51'52	-4.8m
	12492 Jul 10 06:54	$0$ $\circ$ $\odot$		retrograde	12495 Mar 06 08:46	21° <b>Y</b> 41'30	
	12492 Aug 03 12:22	$0^{\circ}\Omega$		asc. node	12495 Mar 15 14:14	19° <b>Ƴ</b> 58'07	
	12492 Aug 27 15:34	0° m		evening set	12495 Mar 21 01:49	17° <b>Y</b> 25′56	
	12492 Sep 20 18:30	0∘ <u>⊽</u>		inferior conj	12495 Mar 27 08:29	13° <b>Ƴ</b> 41'36	2°54'56
morning set	12492 Sep 27 20:36	ა — 8° <b>ჲ</b> 48'44		minimum elong	12495 Mar 27 02:06	13° <b>Υ</b> 51'32	
asc. node	•	8° <b>-</b> 47'18		min. Earth dist.	12495 Mar 27 11:36	13° <b>Υ</b> 36'46	0.27896 AU
asc. node	12492 Sep 27 20:08						0.27890 AU
	12492 Oct 14 21:53	0° <b>M</b> ₊		morning rise	12495 Apr 02 02:06	10° <b>Y</b> 14'47	
				direct	12495 Apr 17 10:42	5° <b>Ƴ</b> 36'13	
superior conj	12492 Nov 04 21:11	26°M01'37	1°15'43	greatest brilliancy	12495 Apr 27 20:48	7° <b>Ƴ</b> 38′28	-4.8m
minimum elong	12492 Nov 04 12:45	25°M35'27	1°16'13		12495 May 29 09:54	$9^{\circ}$ 8	
max. Earth dist.	12492 Nov 06 19:18	28°M24'31	1.72731 AU	morning max el	12495 Jun 06 18:04	8° <b>8</b> 05'23	46°48'28
	12492 Nov 08 02:07	0° <b>≯</b> ¹		C	12495 Jun 27 09:52	$\Pi^{\circ}$	
	12492 Dec 02 08:01	0°ਰ		desc. node	12495 Jul 05 15:27	9° <b>Ⅱ</b> 14'01	
evening rise	12492 Dec 11 19:43	11°₹42'08		dese. Hode	12495 Jul 23 14:25	0. ೧.ಪ	
evening rise							
	12492 Dec 26 16:39	0° <b>≈</b>			12495 Aug 17 18:20	0°N	
desc. node	12493 Jan 17 10:58	26° <b>≈</b> 39'14			12495 Sep 11 11:45	0° <b>m</b>	
	12493 Jan 20 04:43	0° <b>∀</b>			12495 Oct 06 00:33	0∘ <b>⊽</b>	
	12493 Feb 13 20:06	$0$ ° $\Upsilon$		asc. node	12495 Oct 26 10:05	25° <b>≏</b> 02'14	
	12493 Mar 10 14:42	$0^{\circ}$ 8			12495 Oct 30 10:57	0°M₊	
	12493 Apr 04 14:13	$\Pi^{\circ}$			12495 Nov 23 19:37	0° <b>⊼</b> ¹	
	12493 Apr 30 00:33	0°€		morning set	12495 Dec 07 23:58	17° <b>∡</b> 29'33	
asc. node	12493 May 10 07:24	11°951'01			12495 Dec 18 03:11	0°ਰ	
ase. Houe	12493 May 26 12:48	0°Ω			12496 Jan 11 10:33	0° <b>≈</b>	
	12493 May 20 12.46	0 06			12490 Jan 11 10.55	0 ~~	
. 1	10400 I 10 17 01	100 002115	46040105				
evening max el	12493 Jun 12 17:01	18° <b>Ω</b> 03'15	46°48'05				
-	12493 Jun 25 05:45	0° <b>m</b>		superior conj	12496 Jan 13 16:58	2° <b>≈</b> 47'50	
evening max el greatest brilliancy	12493 Jun 25 05:45 12493 Jul 22 18:33			superior conj minimum elong	12496 Jan 13 16:58 12496 Jan 14 02:29	2°≈47'50 3°≈17'12	
-	12493 Jun 25 05:45	0° <b>m</b>					
greatest brilliancy	12493 Jun 25 05:45 12493 Jul 22 18:33	0° Mp 18° Mp 40'36		minimum elong	12496 Jan 14 02:29	3°≈17'12	1°08'24
greatest brilliancy retrograde evening set	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00	0° m/ 18° m/40'36 20° m/40'12 16° m/20'29	-4.9m	minimum elong	12496 Jan 14 02:29 12496 Jan 14 04:32	3°≈17'12 3°≈23'33	1°08'24
greatest brilliancy retrograde evening set inferior conj	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37	0° m/ 18° m/40'36 20° m/40'12 16° m/20'29 12° m/51'14	-4.9m 1°56'36	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35	3°≈17'12 3°≈23'33 0°¥ 12°¥38'39	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25	-4.9m 1°56'36 1°54'49	minimum elong max. Earth dist.	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06	3°≈17'12 3°≈23'33 0°¥ 12°¥38'39 19°¥17'46	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15	-4.9m 1°56'36	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31	3°≈17'12 3°≈23'33 0°₩ 12°₩38'39 19°₩17'46 0°Υ	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53	-4.9m 1°56'36 1°54'49	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23	3°≈17'12 3°≈23'33 0°¥ 12°¥38'39 19°¥17'46 0°Y 0°8	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21	-4.9m 1°56'36 1°54'49	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 Apr 17 17:53	3°≈17'12 3°≈23'33 0° ₩ 12° ₩38'39 19° ₩17'46 0° ₩ 0° ₩ 0° ₩	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'41	-4.9m 1°56'36 1°54'49 0.27074 AU	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 Apr 17 17:53 12496 May 12 02:23	3°≈17'12 3°≈23'33 0°¥ 12°¥38'39 19°¥17'46 0°Y 0°¥ 0°II 0°©	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56 12493 Sep 22 12:37	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'4'16	-4.9m 1°56'36 1°54'49 0.27074 AU	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 May 12 02:23 12496 Jun 05 15:12	3°≈17'12 3°≈23'33 0° ₩ 12° ₩38'39 19° ₩17'46 0° ₩ 0° ₩ 0° ₩ 0° ₩	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'41	-4.9m 1°56'36 1°54'49 0.27074 AU	minimum elong max. Earth dist. desc. node	12496 Jan 14 02:29 12496 Jan 14 04:32 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 Apr 17 17:53 12496 May 12 02:23	3°≈17'12 3°≈23'33 0°¥ 12°¥38'39 19°¥17'46 0°Y 0°¥ 0°II 0°©	1°08'24
greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56 12493 Sep 22 12:37	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'4'16	-4.9m 1°56'36 1°54'49 0.27074 AU	minimum elong max. Earth dist. desc. node evening rise	12496 Jan 14 02:29 12496 Feb 04 18:22 12496 Feb 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 May 12 02:23 12496 Jun 05 15:12	3°≈17'12 3°≈23'33 0° ₩ 12° ₩38'39 19° ₩17'46 0° ₩ 0° ₩ 0° ₩ 0° ₩	1°08'24
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy morning max el asc. node  desc. node	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 23 01:04 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56 12493 Sep 22 12:37 12493 Oct 25 16:42 12493 Nov 01 01:13 12493 Nov 24 06:56 12493 Dec 21 09:47 12493 Dec 21 02:51 12494 Jan 15 19:11 12494 Feb 09 20:25 12494 Mar 06 12:32 12494 Mar 30 22:34 12494 Apr 12 03:02 12494 Apr 24 03:49 12494 Apr 30 01:57 12494 May 18 05:06	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'41 6° my 54'51 0° Ω 6° Ω 00'43 0° m. 0° ¾ 19'55 0° ¾ 0° % 0° ¥ 0° ¥ 15° Y 04'07 0° ℧ 7° ℧ 22'05 0° П	-4.9m 1°56'36 1°54'49 0.27074 AU -4.8m 46°09'30	minimum elong max. Earth dist.  desc. node evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde  evening set min. Earth dist. inferior conj	12496 Jan 14 02:29 12496 Feb 04 18:22 12496 Feb 05 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 Mar 17 17:53 12496 Jun 05 15:12 12496 Jun 05 15:12 12496 Jun 06 18:18 12496 Jun 30 13:55 12496 Jun 26 09:11 12496 Aug 23 06:04 12496 Aug 23 18:12 12496 Sep 26 18:49 12496 Sep 30 22:00 12496 Oct 01 19:17 12496 Oct 12 19:57 12496 Oct 24 04:08 12496 Oct 29 15:23 12496 Nov 02 08:04 12496 Nov 02 08:04	3°≈17'12 3°≈23'33 0° H 12° H38'39 19° H17'46 0° Y 0° B 0° II 0° © 0° II 0° © 0° II 2° II	1°08'24 1.73180 AU 46°33'16 -4.8m 0.28436 AU -7°41'14
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greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct greatest brilliancy morning max el asc. node  desc. node morning set max. Earth dist.	12493 Jun 25 05:45 12493 Jul 22 18:33 12493 Aug 02 01:18 12493 Aug 16 22:00 12493 Aug 22 20:37 12493 Aug 22 18:38 12493 Aug 22 18:38 12493 Aug 29 04:21 12493 Aug 30 09:29 12493 Sep 12 13:56 12493 Sep 22 12:37 12493 Oct 25 16:42 12493 Nov 01 01:13 12493 Nov 24 06:56 12493 Dec 21 09:47 12493 Dec 21 09:47 12493 Dec 21 02:51 12494 Jun 15 19:11 12494 Feb 09 20:25 12494 Mar 30 22:34 12494 Apr 12 03:02 12494 Apr 24 03:49 12494 Apr 30 01:57 12494 May 18 05:06 12494 Jun 09 04:43 12494 Jun 09 04:43 12494 Jun 09 05:49	0° my 18° my 40'36 20° my 40'12 16° my 20'29 12° my 51'14 12° my 44'25 12° my 54'15 9° my 09'53 8° my 32'21 5° my 05'41 6° my 54'51 0° Ω 6° Ω 00'43 0° m. 0° ¾ 19'55 0° ¾ 0° ♂ 0° ₩ 0° Y 15° Y 04'07 0° ੴ 7° ₩ 22'05 0° Ⅲ 25° Ⅲ 20'40 27° Ⅲ 32'45 27° Ⅲ 36'14	-4.9m  1°56'36 1°54'49 0.27074 AU  -4.8m  46°09'30  1.71476 AU -1°27'24	minimum elong max. Earth dist.  desc. node evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde  evening set min. Earth dist. inferior conj minimum elong morning rise	12496 Jan 14 02:29 12496 Feb 04 18:22 12496 Feb 05 15 00:35 12496 Feb 20 10:06 12496 Feb 29 02:31 12496 Mar 24 10:23 12496 Mar 24 10:23 12496 Mar 17 17:53 12496 Jun 05 15:12 12496 Jun 06 18:18 12496 Jun 30 13:55 12496 Jul 26 09:11 12496 Aug 23 06:04 12496 Aug 23 18:12 12496 Sep 26 18:49 12496 Sep 30 22:00 12496 Oct 01 19:17 12496 Oct 12 19:57 12496 Oct 24 04:08 12496 Oct 29 15:23 12496 Nov 02 08:04 12496 Nov 02 08:04 12496 Nov 02 18:48 12496 Nov 02 18:48 12496 Nov 06 22:36 12496 Nov 24 09:42 12496 Nov 24 09:42 12496 Nov 24 09:42	3°≈17'12 3°≈23'33 0° ★ 12° ★38'39 19° ★17'46 0° ℉ 0° ₭ 0° ₭ 0° ₭ 0° ₭ 0° ₭ 0° ₭ 0° № 0° № 0° № 0° № 0° № 0° № 0° № 0° №	1°08'24 1.73180 AU 46°33'16 -4.8m 0.28436 AU -7°41'14
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	12497 Feb 22 02:07	0°æ			12400 San 27 02:47	0° <b>∡</b> ¹	
		0 ≈ 0°¥			12499 Sep 27 03:47	0°중	
	12497 Mar 19 20:50	0° <b>Υ</b>		1 1	12499 Oct 24 13:06		
	12497 Apr 13 21:06			desc. node	12499 Oct 25 04:22	0°る39'29	46001110
	12497 May 08 10:22	0°8		evening max el	12499 Nov 03 17:37	10° <b>♂</b> 14'36	46°01'10
desc. node	12497 May 09 16:49	1° <b>8</b> 33'44			12499 Nov 26 16:34	0° <b>≈</b>	
	12497 Jun 01 16:11	0° <b>I</b>		greatest brilliancy	12499 Dec 13 00:37	8°≈57'58	-4.7m
	12497 Jun 25 17:10	0°9		retrograde	12499 Dec 22 21:42	10°≈44'55	
morning set	12497 Jul 14 07:28	23° <b>©</b> 17'53		evening set	12500 Jan 09 03:34	5° <b>≈</b> 07'30	
	12497 Jul 19 15:46	$0$ $\circ$ $\Omega$		inferior conj	12500 Jan 13 09:08	2° <b>≈</b> 31'09	
	12497 Aug 12 14:10	0° <b>m</b>		minimum elong	12500 Jan 13 19:05	2°≈15'32	
				min. Earth dist.	12500 Jan 13 19:35	2°≈14'45	0.28852 AU
superior conj	12497 Aug 22 22:53	12° <b>m</b> 58'18			12500 Jan 17 10:55	30°R₹	
minimum elong	12497 Aug 23 03:21	13°M)12'16	0°18'00	morning rise	12500 Jan 18 10:23	29° <b>る</b> 25'28	
max. Earth dist.	12497 Aug 25 04:35	15°Mp46'15	1.71722 AU	direct	12500 Feb 03 18:08	24° <b>る</b> 16'14	
asc. node	12497 Aug 30 07:42	22°Mp11'10		greatest brilliancy	12500 Feb 14 15:41	26° <b>る</b> 25'45	-4.8m
	12497 Sep 05 13:47	0∘ <b>⊽</b>		asc. node	12500 Feb 15 06:40	26° <b>පි</b> 40'15	
	12497 Sep 29 15:28	$0^{\circ}$ M.			12500 Feb 22 02:35	0° <b>≈</b>	
evening rise	12497 Sep 30 18:55	1°M25'20		morning max el	12500 Mar 25 04:09	25° <b>≈</b> 21'33	46°03'46
	12497 Oct 23 20:14	0° <b>∡</b>			12500 Mar 29 19:33	0° <b>∀</b>	
	12497 Nov 17 05:42	0°る			12500 Apr 26 13:43	$0^{\circ}\mathbf{\Upsilon}$	
	12497 Dec 11 22:04	0° <b>≈</b>			12500 May 22 09:27	$8^{\circ}$ 0	
desc. node	12497 Dec 20 00:17	9° <b>≈</b> 44'22		desc. node	12500 Jun 07 05:47	18° <b>8</b> 59'02	
	12498 Jan 05 23:34	0° <b>)</b> €			12500 Jun 16 07:51	0°II	
	12498 Jan 31 12:58	$0^{\circ}\Upsilon$			12500 Jul 10 18:45	0ಂಣ	
	12498 Feb 26 21:17	0°8			12500 Aug 03 23:51	$0^{\circ}\Omega$	
	12498 Mar 27 01:13	0°II			12500 Aug 28 02:47	0° mp	
evening max el	12498 Mar 29 05:40	2° <b>I</b> I10'20	46°22'12		12500 Sep 21 05:31	0∘ <b>ರ್</b> ೧.1%	
asc. node	12498 Apr 11 23:34	14° <b>I</b> I59'07	10 22 12	morning set	12500 Sep 26 11:02	° <b>-</b> 230'13	
use. Hode	12498 May 03 04:55	0°95		asc. node	12500 Sep 27 21:53	8° <b>£</b> 18'34	
greatest brilliancy	12498 May 08 12:46	2°S15'09	4 0m	ase. node	12500 Oct 15 08:45	0°M	
retrograde	12498 May 18 01:21	3°957'16	-4.7111		12300 Oct 13 08.43	O IIG	
retrograde	12498 Jun 01 04:52	30°RⅡ		superior conj	12500 Nov 03 13:25	23°M49'38	1°14'02
avanina aat		27° <b>Ⅱ</b> 39'58				23°M22'08	1°14'02 1°14'29
evening set	12498 Jun 05 06:47		0012110	minimum elong	12500 Nov 03 04:33		
inferior conj	12498 Jun 07 18:31	26° <b>Ⅱ</b> 08'09 26° <b>Ⅱ</b> 07'46	9°12'15	max. Earth dist.	12500 Nov 05 10:41	26° <b>I</b> L09'57 0° <b>∡</b> 1	1.72701 AU
minimum elong	12498 Jun 07 18:46				12500 Nov 08 12:55		
min. Earth dist.	12498 Jun 08 01:37	25°II57'08	0.27369 AU		12500 Dec 02 18:49	0°る	
morning rise	12498 Jun 10 06:42	24° <b>Ⅱ</b> 35'28		evening rise	12500 Dec 10 12:23	9° <b>ප</b> 32'18	
direct	12498 Jun 28 13:52	18° <b>Ⅱ</b> 13'34			12500 Dec 27 03:33	0° <b>≈</b>	
greatest brilliancy	12498 Jul 08 11:58	20° <b>Ⅱ</b> 04'37	-4.9m	desc. node	12501 Jan 17 12:54	26°≈11'19	
	12498 Jul 25 15:35	0°©			12501 Jan 20 15:50	0° <b>∀</b>	
desc. node	12498 Aug 02 01:52	6° <b>©</b> 00'15			12501 Feb 14 07:35	0° <b>Ƴ</b>	
morning max el	12498 Aug 17 23:52	20°954'58	46°52'36		12501 Mar 11 02:48	0°8	
	12498 Aug 26 19:50	$0$ $^{\circ}\Omega$			12501 Apr 05 03:17	$\Pi^{\circ}0$	
	12498 Sep 23 01:16	0° <b>m</b> )			12501 Apr 30 15:17	$0$ $\circ$ $\odot$	
	12498 Oct 18 22:01	0∘ <b>⊽</b>		asc. node	12501 May 10 09:22	11°911'47	
	12498 Nov 13 04:11	0°M₊			12501 May 27 07:09	$0^{\circ}\Omega$	
asc. node	12498 Nov 22 23:29	11°M46'30		evening max el	12501 Jun 11 06:48	15° <b>Ω</b> 40′10	46°47'53
	12498 Dec 08 01:34	0° <b>∡</b> ¹			12501 Jun 26 12:47	0° <b>m</b>	
	12499 Jan 01 16:48	0°₹		greatest brilliancy	12501 Jul 21 08:27	16°M) 16'18	-4.9m
	12499 Jan 26 03:56	0° <b>≈</b>		retrograde	12501 Jul 31 15:15	18° <b>M</b> 15'43	
morning set	12499 Feb 14 17:46	24° <b>≈</b> 06′12		evening set	12501 Aug 15 12:58	13° <b>m</b> 53'20	
	12499 Feb 19 12:29	0° <b>∀</b>		inferior conj	12501 Aug 21 09:31	10° Mp 27′00	2°20'11
desc. node	12499 Mar 14 14:42	28° <b>)</b> 32′22		minimum elong	12501 Aug 21 14:50	10° Mp 18′52	2°18'05
	12499 Mar 15 19:00	$0^{\circ}$ $\Upsilon$		min. Earth dist.	12501 Aug 21 08:27	10° <b>m</b> 28'37	0.27056 AU
max. Earth dist.	12499 Mar 22 04:09	7° <b>Ƴ</b> 54'26	1.72563 AU	morning rise	12501 Aug 27 16:57	6° Mp 46′28	
				desc. node	12501 Aug 30 11:22	5° <b>№</b> 24'38	
superior conj	12499 Mar 24 23:54	11° <b>Y</b> 24'27	-0°24'52	direct	12501 Sep 11 02:57	2°Mp41'28	
minimum elong	12499 Mar 24 18:07	11° <b>Y</b> 06'33	0°24'40	greatest brilliancy	12501 Sep 21 01:32	4° Mp 31′08	-4.8m
	12499 Apr 08 23:16	$8^{\circ 0}$			12501 Oct 26 18:31	0∘ <b>⊽</b>	
evening rise	12499 May 02 23:13	29° <b>8</b> 53'42		morning max el	12501 Oct 30 16:11	3° <b>≏</b> 44'03	46°11'05
-	12499 May 03 01:14	0°II		Ç	12501 Nov 24 23:46	0° <b>M</b>	
	12499 May 27 01:46	0ංම _		asc. node	12501 Dec 21 11:45	29°M45'47	
	12499 Jun 20 02:46	0°N			12501 Dec 21 16:41	0° <b>∡</b> ¹	
asc. node	12499 Jul 05 06:28	18° <b>Ω</b> 50'28			12502 Jan 16 07:36	0°ਰ	
<del></del>	12499 Jul 14 06:39	0° m)			12502 Feb 10 08:05	0° <b>≈</b>	
	12499 Aug 07 16:20	0∘ <b>⊽</b>			12502 Mar 06 23:46	0° <b>∀</b>	
	12499 Sep 01 12:21	0° <b>M</b> ₊			12502 Mar 31 09:34	0° <b>Υ</b>	
	.2.77 Sop 01 12.21	∪ IIU			12002 Min 51 07.54	V 1	

	10500 1 10 04 54	1 40000 515 4			105040 . 15 11 00	200-W	
desc. node	12502 Apr 12 04:54	14° <b>Y</b> 35'54			12504 Oct 15 11:03	30°RM	
	12502 Apr 24 14:44	0° <b>8</b>		evening set	12504 Oct 28 02:59	24°M59'03	
morning set	12502 Apr 28 14:23	4° <b>8</b> 57'25		min. Earth dist.	12504 Oct 31 22:48	22°M39'31	0.28381 AU
	12502 May 18 16:01	$\Pi$ $^{\circ}$ 0		inferior conj	12504 Nov 01 18:51	22°M08'16	-7°30'36
max. Earth dist.	12502 Jun 05 20:57	22° <b>Ⅱ</b> 48'13	1.71499 AU	minimum elong	12504 Nov 01 09:25	22°M22'59	7°28'26
				morning rise	12504 Nov 05 16:15	19° <b>M</b> 45'37	
superior conj	12502 Jun 07 16:28	25° <b>Ⅱ</b> 04'42	-1°27'30	direct	12504 Nov 23 00:14	14° <b>M</b> 07'31	
minimum elong	12502 Jun 07 16:29	25° <b>Ⅱ</b> 04'47	1°28'24	greatest brilliancy	12504 Dec 02 13:22	15° <b>M</b> 47′05	-4.8m
	12502 Jun 11 14:35	0ංම			12504 Dec 25 23:46	0° <b>∡</b> ¹	
	12502 Jul 05 12:12	$0^{\circ}\Omega$		morning max el	12505 Jan 10 19:57	14° <b>₹</b> 09'31	45°42'25
evening rise	12502 Jul 17 23:53	15° <b>Ω</b> 39'48		asc. node	12505 Jan 17 22:42	21° <b>∡</b> 11′03	
	12502 Jul 29 10:41	0° <b>m</b> )			12505 Jan 26 11:38	0° <b>ප</b>	
asc. node	12502 Aug 02 19:34	5° <b>m</b> 27'53			12505 Feb 22 16:12	0° <b>≈</b>	
	12502 Aug 22 11:42	0∘ <b>⊽</b>			12505 Mar 20 09:19	0° <b>₩</b>	
	12502 Sep 15 16:59	0°M₊			12505 Apr 14 08:48	$0^{\circ}$ Y	
	12502 Oct 10 05:11	0° <b>∡</b> ¹			12505 May 08 21:37	0°8	
	12502 Nov 04 04:43	0°ප		desc. node	12505 May 09 18:47	1° <b>8</b> 05'11	
desc. node	12502 Nov 22 14:44	21° <b>ට</b> 34'19			12505 Jun 02 03:10	0°II	
dese. Hode	12502 Nov 29 22:58	0°≈			12505 Jun 26 03:58	0°©	
	12502 Dec 27 02:51	0° <b>₩</b>		morning set	12505 Jul 12 19:45	20°952'18	
evening max el	12503 Jan 14 23:10	19° <b>∺</b> 08'56	45°54'26	morning set	12505 Jul 20 02:29	0°Ω	
evening max ci	12503 Jan 26 20:15	19 <b>γ</b> (08 30	43 34 20		12505 Aug 13 00:50	0° <b>m</b> )	
arantant brillianav	12503 Feb 22 23:51	17° <b>Υ</b> 36'17	-4.8m		12303 Aug 13 00.30	עוויט	
greatest brilliancy		$19^{\circ}$ <b>Y</b> 25'23	-4.8m		10505 A 21 11.52	100 m 25120	0021121
retrograde	12503 Mar 04 23:23			superior conj	12505 Aug 21 11:53	10° Mp 35'30	
asc. node	12503 Mar 15 16:08	17° <b>Y</b> 07'30		minimum elong	12505 Aug 21 17:13	10° m 52'10	
evening set	12503 Mar 19 16:00	15° <b>Y</b> 10′56		max. Earth dist.	12505 Aug 23 14:37		1.71694 AU
inferior conj	12503 Mar 25 23:20	11° <b>Y</b> 25′15		asc. node	12505 Aug 30 09:30	21° <b>m</b> 43'25	
minimum elong	12503 Mar 25 17:41	11° <b>Y</b> '34'05			12505 Sep 06 00:27	0∘ <b>ত</b>	
min. Earth dist.	12503 Mar 26 02:47		0.27919 AU	evening rise	12505 Sep 29 09:52	29° <b>≏</b> 09'21	
morning rise	12503 Mar 31 19:04	7° <b>Y</b> 55'14			12505 Sep 30 02:10	0° <b>M</b>	
direct	12503 Apr 16 02:15	3° <b>Y</b> 19'47			12505 Oct 24 06:59	0° <b>∡</b> ¹	
greatest brilliancy	12503 Apr 26 12:05	5° <b>Y</b> 21'43	-4.8m		12505 Nov 17 16:39	0°ಕ	
	12503 May 30 11:08	$0^{\circ}S$			12505 Dec 12 09:26	0° <b>≈</b>	
morning max el	12503 Jun 05 08:39	5° <b>8</b> 46'38	46°47'06	desc. node	12505 Dec 20 02:11	9° <b>≈</b> 15'30	
	12503 Jun 28 02:40	$\Pi$ $\circ 0$			12506 Jan 06 11:38	0° <b>∀</b>	
desc. node	12503 Jul 05 17:27	8° <b>Ⅱ</b> 35′05			12506 Feb 01 02:17	$0$ ° $\Upsilon$	
	12503 Jul 24 04:31	$0$ $\circ$ $\odot$			12506 Feb 27 13:04	$0^{\circ}$ 8	
	12503 Aug 18 07:08	$0^{\circ}\Omega$			12506 Mar 27 23:27	$\Pi^{\circ}$ 0	
	12503 Sep 11 23:45	0° <b>m</b> )		evening max el	12506 Mar 27 18:21	29° <b>8</b> 47'25	46°21'03
	12503 Oct 06 12:01	0∘ <b>ट</b>		asc. node	12506 Apr 12 01:40	13° <b>Ⅱ</b> 56'19	
asc. node	12503 Oct 26 12:03	24° <b>₽</b> 34'01		greatest brilliancy	12506 May 07 02:09	29° <b>Ⅱ</b> 52'51	-4.9m
	12503 Oct 30 22:02	0° <b>M</b> .		· ·	12506 May 07 10:35	0ം <b>ഉ</b>	
	12503 Nov 24 06:27	0° <b>∡</b> ¹		retrograde	12506 May 16 14:15	1° <b>©</b> 34'58	
morning set	12503 Dec 06 16:43	15° <b>₹</b> ¹20'03			12506 May 25 10:11	30°R <b>Ⅱ</b>	
8	12503 Dec 18 13:52	0°ರ		evening set	12506 Jun 03 18:54	25° <b>Ⅱ</b> 19'12	
	12504 Jan 11 21:11	0° <b>≈</b>		inferior conj	12506 Jun 06 07:54	23° <b>II</b> 45'33	9°12'41
	1200.0001 11 21.11			minimum elong	12506 Jun 06 07:10	23° <b>I</b> I46'42	9°11'47
superior conj	12504 Jan 12 09:45	0° <b>≈</b> 38'48	1°09'52	min. Earth dist.	12506 Jun 06 14:47	23° <b>I</b> I34'54	0.27388 AU
minimum elong	12504 Jan 12 19:03		1°10'26	morning rise	12506 Jun 08 19:24	22° <b>I</b> 13'57	0.27500710
max. Earth dist.	12504 Jan 12 23:16	1°≈20'27	1.73177 AU	direct	12506 Jun 27 02:43	15° <b>I</b> I50'17	
max. Lartii dist.	12504 Feb 05 05:02	0° <b>∺</b>	1.73177 AU	greatest brilliancy	12506 Jul 07 01:58	17° <b>Ⅱ</b> 42'08	-4 9m
desc. node	12504 Feb 15 02:22	12° <b>∺</b> 11'06		greatest offinality	12506 Jul 27 06:36	0°95	-4.9111
evening rise	12504 Feb 19 01:53	17° <b>H</b> 05'21		desc. node	12506 Aug 02 03:43	4°956'14	
evening rise		0° <b>Υ</b>			•		46952121
	12504 Feb 29 13:19			morning max el	12506 Aug 16 13:20	18°932'16	46°53'31
	12504 Mar 24 21:23	0° <b>B</b>			12506 Aug 27 15:06	0° <b>N</b>	
	12504 Apr 18 05:10	0°II			12506 Sep 23 16:09	0° <b>m</b> )	
	12504 May 12 14:06	0°©			12506 Oct 19 11:00	ია <b>ო</b>	
_	12504 Jun 06 03:36	0° <b>Ω</b>		_	12506 Nov 13 16:06	0°M	
asc. node	12504 Jun 06 20:20	0° <b>Ω</b> 50'44		asc. node	12506 Nov 23 01:23	11°ML17'12	
	12504 Jul 01 03:29	0° <b>m</b> )			12506 Dec 08 12:49	0° <b>∡</b> ¹	
	12504 Jul 27 01:07	0∘ <b>⊽</b>			12507 Jan 02 03:38	0°ಕ	
evening max el	12504 Aug 22 09:12	28° <b>≙</b> 12'43	46°34'10		12507 Jan 26 14:32	0° <b>≈</b>	
	12504 Aug 24 04:24	0°M₊		morning set	12507 Feb 13 09:58	21° <b>≈</b> 55'45	
desc. node	12504 Sep 26 20:50	$26^{\circ}$ MJ $32'08$			12507 Feb 19 22:59	0° <b>)</b>	
greatest brilliancy	12504 Sep 30 11:03	28°MJ06'17	-4.8m	desc. node	12507 Mar 14 16:30	28° <b>米</b> 05′29	
	12504 Oct 07 09:03	0° <b>∡</b> ¹			12507 Mar 16 05:29	$0^{\circ}$ Y	
retrograde	12504 Oct 11 10:59	0° <b>∡</b> 19'16		max. Earth dist.	12507 Mar 20 22:16	5° <b>Ƴ</b> 49'18	1.72602 AU

Supprise of   1250 Mar 2   1407   9"P0709   0"P1739   decent   1250 Sep 0   1621   0"B1850   1250 Mar 2   1250 Mar 0   1153   0"E   1250 Mar 0   10.55   0"E   1250 Mar 0
evening rise   12507 Apr 09 09.49   0°28   12500 Apr 09 09.49   0°28   12500 Apr 01 12500 Apr 0
Per coming rise   12.907 May 01 12.29   72.80211   morning max 01 12.290 Nov 2 8 16.54   97.80 Nov 2 1 15.40   97.80 Nov 2 1 15.4
1250 Nay 03 11:53   0°II
Second   12507 May 27 1234
Seconde   12507 Jun 20 13.45   0°\( \)   18°\( \) 2213   3   5   0°\( \)   12510 Feb   0° 1924   0°\( \)   0°\( \)   12510 Feb   0° 1924   0°\( \)   0°\( \)   1250 Feb   0° 1924   0°\( \)   1250 Feb   15°\( \)   0°\( \)   0°\( \)   1250 Feb   15°\( \)   0°\( \)   0°\( \)   1350 Feb   15°\( \)   0°\( \)   0°\( \)   1250 Feb   15°\( \)   1250 Feb   15
Section   1907   1908   1908   1908   1908   1909
Part
Part
Contact   Con
desc. node   12507 Sep   27 1 8.07   0°F   7 1 8.07   12510 Apr 2 4 01.19   10°F   12510 Apr 2 4 01.29   10°F   12510 Apr 2 1
desc. node   12507 Oct 25 06.25   29°,85619   moming set   12510 Apr 24 01.19   0°8   3270 Nov 02 08.36   8°501'44   4°02'00   max. Earth dist.   12510 Jun 03 05.45   20°III 20°   171520 AU 12507 Nov 02 08.36   8°501'44   4°02'00   max. Earth dist.   12510 Jun 03 05.45   20°III 20°   171520 AU 12507 Nov 12 11 15.08   8°≈46'35   4-7m   minimum elong 12507 Doc 21 13.49   8°≈84'38   superior conj   12510 Jun 05 04:12   22°II37'46   1727'25   22°II37'46   1727'25   12510 Jun 05 04:12   22°II37'46   1727'25   12500 Jun 105 04:12   12500 Jun 105 04:
evening max el   12507 Nov 2 8 17.59   %   %   %   maming set   12510 Apr 2 6 02.43   2° 8333   %   12507 Nov 2 8 17.59   %   %   max. Earth dist.   12510 Jun 3 8 02.55   0° 11   17520 AU   12507 Nov 2 8 17.59   %   %   max. Earth dist.   12510 Jun 0 50.412   22° 13.74   1° 27° 125   12507 Dec 2 1 13.69   6° 846356   4.7m   12507 Dec 2 1 13.69   6° 846356   4.7m   12508 Jun 0 5 04.12   22° 13.74   1° 27° 125   12508 Jun 0 5 04.12   22° 13.74   1° 27° 125   12508 Jun 1 5 04.12   22° 13.74   1° 27° 125   12508 Jun 1 5 04.12   22° 13.74   1° 27° 125   12508 Jun 1 1 01.11   0° 1208 Jun 1 2 10.46   0° 840521   7°0725   12510 Jun 1 1 01.11   13° 21° 115   13° 21° 21° 21° 21° 21° 21° 21° 21° 21° 21
Percenting max el   12507 Nov 02 08:36   8°-501'44   4°02'02'0   max. Earth dist.   12510 May 18 02:35   0°H   17507 Nov 21 12570 Nov 21 15:08   6°846'36   47.m   max. Earth dist.   12510 Jun 03 05:45   2°H12'09   1,71520 AU   1,71520
12507 Nov 28 11:59    0°se
geratest brilliancy   12507 Dec   11   15:08   6 % A636   4.7m   7   12507 proce   12507 proc   21   13:49   8 % A3458   5   5 minimum clong   12510 Jun   05   04:10   22° IT 3478   1° 27° 12° 12° 16° 16° 10° 10° 12° 12° 12° 10° 10° 10° 10° 10° 10° 10° 10° 10° 10
Petrograde   12507 Dec   21 1349   8% 345   Superior conj   12510 Jun   05 04:12   22° 13746   1° 27'25   1° 28'19   10 16'10'10' 05'31' 10' 12' 12' 12' 12' 12' 12' 12' 12' 12' 12
Pereing set   12508 Jan 07 22-11   22-∞5234   minimum clong   12510 Jun 05 03:10   22- T34'32   128'19   inferior conj   12508 Jan 12 10:40   0∞80'524   0.28877 AU   evening rise   12510 Jun 11 10 10 10 10 10 10 10 10 10 10 10 10
minimum elong   12508 Jan   12 01:02   0°≈2037 -7°0956
minimum clong min. Earth dist.
min. Earth dist.   12508 Jan 12 10:44   0% ≈05°24   0.28877 AU   evening rise   12510 Jul 15 11:10   13°Ω11'15   1.70   1.2508 Jan 12 14:11   1.27°G19'4   asc. node   12510 Aug 21 22:32   0°™   1.2508 Feb 13 07:17   24°G14'57   4.8m   12510 Aug 21 12:32   0°™   1.2508 Feb 13 07:17   24°G14'57   4.8m   12510 Aug 21 12:32   0°™   1.2508 Feb 13 07:17   24°G14'57   4.8m   12510 Nov 03 16:55   0°™   1.2508 Feb 14 08:19   0°%   1.2508 Feb 14 08:19   0°%   1.2508 Feb 14 08:19   0°%   1.2510 Nov 03 16:55   0°™   1.2510 Nov 03 16:55
morning rise   12508 Jan   12 14:11   30°R°B   sec. node   12510 Jul   28 21:23   0°R°D   sec. node   12510 Aug   12:25   5°R°D0008   sec. node   12510 Aug   12:25   5°R°D0008   sec. node   12508 Feb   12 0°17:17   24°B1457   4.8m   12510 Cet   12510 Cet   0; 16:38   0°R°B   sec. node   12508 Feb   13 0°17:17   24°B1457   4.8m   12510 Cet   0; 16:38   0°R°B   sec. node   12508 Feb   12 0°81   25°S 50°S 7   12510 Cet   0; 16:38   0°R°B   sec. node   12508 Mar   22 0°27   23°s≈10°44   46°02′25   desc. node   12510 Nov   21 16:40   21°S 20′204   sec. node   12508 Mar   22 0°27   23°s≈10°44   46°02′25   desc. node   12510 Nov   21 16:40   21°S 20′204   sec. node   12508 Mar   22 0°27   23°s≈10°44   46°02′25   desc. node   12510 Nov   21 16:40   21°S 20′204   sec. node   12508 Mar   22 15:12   0°R°B   sec. node   12510 Nov   21 16:40   21°S 20′204   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K 56′42   45°S 3′51   sec. node   12511 Mar   21 14:28   16°K
moming rise direct   12508 Jan 16 23:11   27° 51944   sac. node   12510 Aug 01 21:25   5° \$\particle{\
direct   12508 Feb 13 07:17   22°B05'32   12510 Aug 21 2:232   0°B   12
Provided By Companies   12508 Feb 13 07:17   24°B14'57   4.8m   12510 Sep 15 04:03   0°M   12510 Sep 15 04:03   0°M   12510 Sep 15 04:04   0°M   12511 Sep 15 04:04   0°M   12510 Sep 15 04:04   0°M   12511 S
Sec. node   12508 Feb 15 08:35   25°\$05'07     12510 Nov 29 16:38   0°\$\$\frac{\chi}{\chi}\$   12508 Feb 15 08:35   0°\$\$\frac{\chi}{\chi}\$   12508 Mar 22 20:27   23°\$\sin\text{23}\sin\text{23}\sin\text{4}   46°02'25   desc. node   12510 Nov 29 16:36   0°\$\$\frac{\chi}{\chi}\$   12508 Mar 29 15:12   0°\$\frac{\chi}{\chi}\$   0°\$\frac{\chi}{\chi}\$   12510 Dec 26 20:01   0°\$\frac{\chi}{\chi}\$   12508 Mar 29 12:39   0°\$\sin\text{4}   12508 Mar 29 12:32   16:40   0°\$\sin\text{4}   12508 Mar 29 12:32
Morning max el   12508 Feb 24 08:19   0°≈   23°≈10'44   46°02'25   desc. node   12510 Nov 23 16:45   21°€02'04   12508 Mar 22 20:27   23°≈10'44   46°02'25   desc. node   12510 Nov 29 16:40   21°€02'04   12508 Mar 29 15:12   0°°\cap   12500 Nov 29 12:39   0°°\cap   12500 Nov 29 12:39   0°°\cap   12508 Mar 29 12:218   0°°\cap   12500 Mar 21 22:18   0°°\cap   12510 Dec 26 20:01   0°°\cap   12508 Mar 21 22:18   0°°\cap   12508 Mar 21 22:18   0°°\cap   12510 Dec 26 20:01   0°°\cap   12508 Mar 21 22:18   0°°\cap   12508 Mar 21 22:18   0°°\cap   12511 Jan 12 14:28   16°\cap 56:42   45°53'51   45°50 Jan 15 19'45   0°°\cap   12511 Jan 12 14:28   16°\cap 56:42   45°53'51   12508 Jun 16 06:07   0°\cap   12508 Jun 16 19'45   0°°\cap   12511 Jan 12 14:28   16°\cap 56:42   45°53'51   12508 Jun 16 06:07   0°\cap   12508 Jun 16 19'45   0°°\cap   12511 Jan 12 14:28   16°\cap 56:42   45°53'51   12508 Jun 16 06:07   0°\cap   12508 Jun 16 19'45   0°°\cap   12508 Jun 16 19'45   0°\cap   12508 Jun 16 19'45   0°\cap   1
Morning max el   12508 Mar 22 20:27   23°≈10'44 46°02'25   desc. node   12510 Nov 21 16:40   21°G02'04   12508 Mar 29 15:12   0°H   12508 Nov 29 12:39   0°≈   12510 Nov 29 12:39   16°×56'42   45°53'51 Nov 29 12'02   0°°
12508 Mar 29 15:12   0°\(\overline{\chi}\)   12508 Mar 26 04:27   0°\(\overline{\chi}\)   22508 Mar 26 04:27   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   2510 Dec 26 20:01   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12508 Mar 21 22:18   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12510 Dec 26 20:01   0°\(\overline{\chi}\)   12508 Mar 21 12:18   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12508 Mar 21 12:18   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12511 Jan 27 0:27   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12508 Jul 10 06:07   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12511 Feb 20 14:48   15°\(\overline{\chi}\)   13:16   17°\(\overline{\chi}\)   12508 Aug 03 10:52   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12508 Aug 27 13:33   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12508 Sep 20 16:04   0°\(\overline{\chi}\)   12508 Sep 20 16:04   0°\(\overline{\chi}\)   0°\(\overline{\chi}\)   12511 Mar 13 14:16   12°\(\overline{\chi}\)   12°\(\overline{\chi}\)   12°\(\overline{\chi}\)   12°\(\overline{\chi}\)   12511 Mar 23 19:05   0°\(\overline{\chi}\)   0°\(\chi
12508 Apr 26 04:27   0°Ψ   evening max el   12510 Dec 26 20:01   0°H   45°54'2   45°53'51     12508 May 21 22:18   0°B   evening max el   12511 Jan 12 14:28   16°H5642   45°53'51     12508 Jun 16 19:45   0°H   greatest brilliancy   12511 Feb 20 14:48   15°Ψ21'25   4.8m     12508 Jun 15 19:45   0°H   retrograde   12511 Mar 02 13:16   17°Ψ0'926   4.8m     12508 Aug 03 10:52   0°Ω   asc. node   12511 Mar 14 18:16   14°Ψ1'11'56     12508 Sep 20 16:04   0°Ω   evening set   12511 Mar 23 14:02   9°Ψ0'910   2°12'02     morning set   12508 Sep 24 01:43   4°Ω13'56   minimum elong   12511 Mar 23 18:15   9°Ψ0'916   2°10'29     asc. node   12508 Nov 01 05:42   21°III.39'06   1°12'14   greatest brilliancy   12511 Mar 23 18:15   9°Ψ0'336   0.27945 AU     superior conj   12508 Nov 01 05:42   21°III.0'29   1°12'39   morning max el   12511 Mar 23 18:15   3°Ψ0'53'59     max. Earth dist.   12508 Nov 03 04:24   24°III.0'29   1°12'39   morning max el   12511 Jun 27 18:56   0°H     12508 Nov 07 23:16   0°Ψ   desc. node   12511 Jun 27 18:56   0°H     12508 Dec 02 05:13   0°Ψ   desc. node   12511 Jun 27 18:56   0°H     12508 Dec 26 14:06   0°∞   12508 Nov 03 04:24   24°III.0'29 1°12'39   12511 Jun 27 18:56   0°H     12508 Dec 02 05:13   0°Ψ   desc. node   12511 Jun 17 19:34   0°Ω     desc. node   12509 Jan 16 14:40   25°8×43'56   46°45'52   12511 Jun 17 19:34   0°Ω     12509 Jan 16 14:40   25°8×43'56   48c. node   12511 Jun 17 19:34   0°Ω     12509 Feb 13 18:45   0°Ψ   48°0×1
desc. node   12508 May 21   22:18   0°8   evening max el   12511 Jan 12   14:28   16°¥5642   45°53′51   12510 Jan 12   14:28   16°¥56′42   45°53′51   12510 Jan 12   14:28   16°¥56′42   45°53′51   12511 Jan 12   14:28   16°¥56′42   48'8   12511 Jan 12   14:28   16°¥56′42   48'8   12511 Jan 12   14:28   16°¥56′42   48'8   12508 Jan 12   12508 Jan 12   12508 Jan 12   14:28   12511 Jan 12   14:28   16°¥56′42   48'8   12508 Jan 12   14:28   12511 Jan 12   14:28   16°¥56′42   48'8   12508 Jan 12   14:28   16°¥6′45   12511 Jan 12   14:28   16°¥6′45   12'10
desc. node   12508 Jun 06 07:38   18°827'43   greatest brilliancy   12511 Jun 27 02:27   0°¶   4.8m     12508 Jun 15 19:45   0°¶   greatest brilliancy   12511 Feb 20 14:48   15°¶ 21'25   4.8m     12508 Aug 03 10:52   0°β   asc. node   12511 Mar 02 13:16   17°¶ 09'26     12508 Aug 03 10:52   0°β   asc. node   12511 Mar 14 18:16   14°¶ 11'56     12508 Aug 27 13:33   0°¶   evening set   12511 Mar 17 06:12   12°¶ 55'46     12508 Sep 20 16:04   0°¶   evening set   12511 Mar 23 14:02   9°¶ 09'10   2°12'02     morning set   12508 Sep 24 01:43   4°¶ 13'56   minimum elong   12511 Mar 23 18:15   9°¶ 09'10   2°12'02     asc. node   12508 Sep 26 23:49   7°¶ 13'15   morning rise   12511 Mar 23 18:15   9°¶ 09'10   2°10'29     asc. node   12508 Sep 26 23:49   0°¶   1°12'14   greatest brilliancy   12511 Mar 23 18:15   9°¶ 03'36   0.27945 AU     asc. node   12508 Nov 01 05:42   21°¶ 139'06   1°12'14   greatest brilliancy   12511 Mar 23 18:15   9°¶ 03'36   0.27945 AU     minimum elong   12508 Nov 01 05:42   21°¶ 10'29   1°12'39   reatest brilliancy   12511 Mar 23 11:40   0°¶ 0°¶     max. Earth dist.   12508 Nov 03 04:24   24°¶ 10'356   1.72676 AU   morning max el   12511 Jun 02 22:12   3°♥ 25'40   46°45'52     evening rise   12508 Dec 08 05:03   7°₹ 23'39   desc. node   12511 Jun 04 19:21   7°¶ 156'50     evening rise   12508 Dec 26 14:06   0°♥   desc. node   12511 Jun 17 19:34   0°¶ 0°¶     desc. node   12509 Jan 16 14:40   25°≈43'56   Ele 11 11:06   0°¶ 12511 Mar 17 19:34   0°¶ 0°¶     desc. node   12509 Jan 16 14:40   25°≈43'56   Ele 11 11:06   0°¶ 12511 Mar 17 19:34   0°¶ 0°¶ 12509 Jan 20 02:37   0°¶   12509 Jan 20 02:37   0°¶ 12509 Jan 20 02:37   0°¶ 12509 Jan 20 02:37   0°¶ 12509 Jan 16 14:40   25°≈43'56   12511 Mar 17 10:25   13:56   24°¶ 06'14   12509 Jan 20 02:37   0°¶ 1
12508 Jun   15   19:45   0° Π   greatest brilliancy   12511 Feb   20   14:48   15° γ° 21'25   -4.8m     12508 Aug   03   10:52   0° Ω   asc. node   12511 Mar   12   13:16   17° γ° 09'26     12508 Aug   27   13:33   0° ү   evening set   12511 Mar   14   18:16   14° γ° 11'56     12508 Sep   20   16:04   0° Ω   inferior conj   12511 Mar   23   14:02   9° γ° 09'10   2° 12'02     morning set   12508 Sep   24   01:43   4° Ω 13'56   minimum elong   12511 Mar   23   14:02   9° γ° 09'10   2° 12'02     asc. node   12508 Sep   26   23:49   7° Ω 51'54   minimum elong   12511 Mar   23   18:15   9° γ° 02'36   0.27945 AU     asc. node   12508 Nov   01   05:42   21°
12508 Jul 10 06:07 0°\$ retrograde   12511 Mar 02 13:16   17°°\$\(\cap{0}\)2026   12508 Aug 03 10:52   0°\$\(\Omega\)   asc. node   12511 Mar 14 18:16   14°°\$\(\cap{1}\)1'56   12508 Aug 27 13:33   0°\$\(\omega\)   evening set   12511 Mar 17 06:12   12°°\$\(\chi\)5'46   12508 Sep 20 16:04   0°\$\(\Omega\)   inferior conj   12511 Mar 23 14:02   9°\$\(\chi\)0'90'10   2°12'02   asc. node   12508 Sep 24 01:43   4°\$\(\Omega\)1'56   minimum elong   12511 Mar 23 14:02   9°\$\(\Omega\)0'90'10   2°12'02   asc. node   12508 Sep 26 23:49   7°\$\(\Omega\)5'154   minimum elong   12511 Mar 23 18:15   9°\$\(\Omega\)0'236   0.27945 AU   12508 Oct 14 19:10   0°\$\(\Omega\)   morning rise   12511 Mar 23 18:15   9°\$\(\Omega\)0'236   0.27945 AU   morning rise   12511 Mar 29 11:43   5°\$\(\Omega\)3'559   direct   12511 Apr 13 17:14   1°\$\(\Omega\)0'326   0.27945 AU   morning minimum elong   12508 Nov 01 05:42   21°\$\(\Omega\)1'10'29   1°12'39   reatest brilliancy   12511 Mar 24 03:55   3°\$\(\Omega\)0'543   -4.8m   minimum elong   12508 Nov 03 04:24   24°\$\(\Omega\)10'10'29   1°12'39   max. Earth dist.   12511 Jun 02 22:12   3°\$\(\omega\)2'50'3   0°\$\(\Omega\)   max. Earth dist.   12508 Nov 07 23:16   0°\$\(\Omega\)   24°\$\(\Omega\)0'556   1.72676 AU   morning max el   12511 Jun 02 22:12   3°\$\(\omega\)2'50'3   46°45'52   evening rise   12508 Dec 08 05:03   7°\$\(\omega\)2'3'39   desc. node   12511 Jul 04 19:21   7°\$\(\omega\)5'50   evening rise   12508 Dec 08 05:03   7°\$\(\omega\)2'3'39   desc. node   12511 Aug 17 19:34   0°\$\(\Omega\)   0°\$\(\Omega\)   desc. node   12511 Aug 17 19:34   0°\$\(\Omega\)   0°\$\(\Omega\)   12509 Feb 13 18:45   0°\$\(\Omega\)
12508 Aug 03 10:52   0°\(\hat{\alpha}\)   asc. node   12511 Mar 14 18:16   14°\(\hat{\alpha}\)1156   evening set   12518 Mar 17 06:12   12°\(\hat{\alpha}\)5546   evening set   12518 Mar 17 06:12   12°\(\hat{\alpha}\)5546   evening set   12518 Mar 23 14:02   9°\(\hat{\alpha}\)07   2°12'02   morning set   12508 Sep 24 01:43   4°\(\hat{\alpha}\)13'56   minimum elong   12511 Mar 23 09:08   9°\(\hat{\alpha}\)16:05   2°10'29   asc. node   12508 Sep 26 23:49   7°\(\hat{\alpha}\)51'54   minimum elong   12511 Mar 23 18:15   9°\(\hat{\alpha}\)07   2°10'29   asc. node   12508 Oct 14 19:10   0°\(\hat{\alpha}\)   10°\(\hat{\alpha}\)   12511 Mar 23 18:15   9°\(\hat{\alpha}\)07   2°10'29   superior conj   12508 Nov 01 05:42   21°\(\hat{\alpha}\)39'6   1°12'14   greatest brilliancy   12511 Apr 24 03:55   3°\(\hat{\alpha}\)53   48m   asc. node   12508 Nov 03 04:24   24°\(\hat{\alpha}\)03'56   1.72676 AU   morning max el   12511 May 30 11:00   0°\(\hat{\alpha}\)   40°\(\hat{\alpha}\)   40°\
12508 Aug 27 13:33   0° m   evening set   12511 Mar 17 06:12   12° Y55'46   12508 Sep 20 16:04   0° \(\Delta\)   inferior conj   12511 Mar 23 14:02   9° Y09'10   2° 12'02   12508 Sep 24 01:43   4° \(\Delta\) 13'56   minimum elong   12511 Mar 23 09:08   9° Y16'50   2° 10'29   12508 Sep 26 23:49   7° \(\Delta\) 5'54   minimum elong   12511 Mar 23 09:08   9° Y16'50   2° 10'29   12508 Oct 14 19:10   0° m   morning rise   12511 Mar 23 18:15   9° Y02'36   0.27945 AU   12508 Oct 14 19:10   0° m   morning rise   12511 Mar 29 11:43   5° Y35'59   12508 Oct 31 20:28   21° m 10'29   1° 12'39   12511 Mar 30 11:00   0° \(\Delta\)   12511 Mar 30 11:00   0° \(\Delta\)   12508 Nov 07 23:16   0° \(\Delta\)   12'14   greatest brilliancy   12511 Mar 30 11:00   0° \(\Delta\)   4' 9° Y05'43   4.8m   4' \(\Delta\)   12508 Nov 07 23:16   0° \(\Delta\)   12'14   12511 Jun 02 22:12   3° \(\Delta\) 25'54   46° 45'52   12508 Nov 07 23:16   0° \(\Delta\)   12'14   12511 Jun 02 22:12   3° \(\Delta\) 25'54   46° 45'52   12508 Nov 07 23:16   0° \(\Delta\)   12'14
12508 Sep 20 16:04
morning set 12508 Sep 24 01:43 4°£13'56 minimum elong asc. node 12508 Sep 26 23:49 7°£51'54 min. Earth dist. 12511 Mar 23 09:08 9°Υ16'50 2°10'29 asc. node 12508 Oct 14 19:10 0°
asc. node    12508 Sep 26 23:49   7° \( \overline{\Pi} \) 51'54   min. Earth dist.   12511 Mar 23 18:15   9° \( \pi \) 0'2'36   0.27945 AU     12508 Oct 14 19:10   0° \( \overline{\Pi} \)   morning rise   12511 Mar 29 11:43   5° \( \pi \) 35'59     superior conj   12508 Nov 01 05:42   21° \( \overline{\Pi} \) 39'06   1°12'14   greatest brilliancy   12511 Apr 13 17:14   1° \( \pi \) 0'326     superior conj   12508 Oct 31 20:28   21° \( \overline{\Pi} \) 10'29   1°12'39   12511 May 30 11:00   0° \( \overline{\Pi} \)     max. Earth dist.   12508 Nov 03 04:24   24° \( \overline{\Pi} \) 0'356   1.72676 AU   morning max el   12511 Jun 02 22:12   3° \( \overline{\Pi} \) 25'40   46° 45'52     12508 Dec 02 05:13   0° \( \overline{\Pi} \)   desc. node   12511 Jul 04 19:21   7° \( \overline{\Pi} \) 56'50     evening rise   12508 Dec 08 05:03   7° \( \overline{\Pi} \) 23'39     46° \( \overline{\Pi} \)   40° \( \overline{\Pi} \)   40° \( \overline{\Pi} \)   46° \( \overline{\Pi} \)   40° \( \overline{\Pi} \)   46° \( \overline{\Pi} \)   40° \
12508 Oct 14 19:10   0°肌   morning rise direct   12511 Mar 29 11:43   5°Ŷ35'59   superior conj   12508 Nov 01 05:42   21°M39'06   1°12'14   greatest brilliancy   12511 Apr 24 03:55   3°Ŷ05'43 -4.8m   minimum elong   12508 Oct 31 20:28   21°M10'29   1°12'39   12511 May 30 11:00   0°뭥   12511 May 30 11:00   0°뭥   12508 Nov 03 04:24   24°M03'56   1.72676 AU   morning max el   12511 Jun 02 22:12   3°❸25'40   46°45'52   12508 Nov 07 23:16   0°⊀   12508 Dec 02 05:13   0°♂   desc. node   12511 Jul 04 19:21   7°M56'50   evening rise   12508 Dec 02 05:13   0°♂   desc. node   12511 Jul 04 19:21   7°M56'50   12511 Aug 17 19:34   0°∿   0°∿   12511 Aug 17 19:34   0°∿   0°∿   0°∿   12511 Aug 17 19:34   0°∿
superior conj 12508 Nov 01 05:42 21°M39'06 1°12'14 greatest brilliancy 12511 Apr 13 17:14 1°Y03'26 greatest brilliancy 12511 Apr 24 03:55 3°Y05'43 -4.8m 12511 May 30 11:00 0°8 max. Earth dist. 12508 Nov 03 04:24 24°M03'56 1.72676 AU morning max el 12511 Jun 02 22:12 3°825'40 46°45'52 12508 Nov 07 23:16 0°₹ desc. node 12511 Jun 27 18:56 0°M evening rise 12508 Dec 02 05:13 0°₹ desc. node 12511 Jul 04 19:21 7°M56'50 evening rise 12508 Dec 26 14:06 0°≈ 12511 Jul 23 18:13 0°€ desc. node 12511 Jul 23 18:13 0°€ desc. node 12511 Jul 04 19:21 7°M56'50 evening rise 12509 Jan 16 14:40 25°≈43'56 12511 Sep 11 11:26 0°M esc. node 12510 Oct 05 23:12 0°€ desc. node 12510 Oct 05 23:12 0°€ des
superior conj 12508 Nov 01 05:42 21°M39'06 1°12'14 greatest brilliancy 12511 Apr 24 03:55 3°Y05'43 -4.8m minimum elong 12508 Oct 31 20:28 21°M10'29 1°12'39 12511 May 30 11:00 0°∀ 12511 Jun 02 22:12 3°∀25'40 46°45'52 12511 Jun 02 22:12 3°∀25'40 46°45'52 12511 Jun 02 22:12 3°∀25'40 46°45'52 12511 Jun 02 12:11 Jun 02 22:12 3°∀25'40 46°45'52 12511 Jun 02 12:11 Jun 02 18:16 0° II 12508 Dec 02 05:13 0°♂ desc. node 12511 Jun 02 18:13 0° II 12511 Jun 02 18:13 0° II 12508 Dec 02 05:13 0° II 12509 Jan 16 14:40 25° 43'56 12511 Sep 11 11:26 0° II 12511 Sep 11 11:26 0° II 12509 Jan 20 02:37 0° H 12510 Oct 05 23:12 0° II 12511 Oct 05 23:12 0° II 12509 Jan 16 14:40 12509 Jan 20 02:37 0° H 12510 Oct 05 23:12 0° II 12510 Oct 05 23:12 0° II 12509 Jan 20 02:37 0° H 12509 Jan 18:45 0° Y asc. node 12511 Oct 25 13:56 24° II 16 0ct 05 23:12 0° II 12509 Jan 20 02:37 0° H 12509 J
superior conj 12508 Nov 01 05:42 21°M39'06 1°12'14 greatest brilliancy 12511 Apr 24 03:55 3°Y05'43 -4.8m minimum elong 12508 Oct 31 20:28 21°M10'29 1°12'39 12511 May 30 11:00 0°∀ 12511 May 30 11:00 0°∀ 12511 May 30 11:00 0°∀ 12511 Jun 02 22:12 3°∀25'40 46°45'52 12508 Nov 07 23:16 0°√ 12508 Dec 02 05:13 0°♂ 12508 Dec 02 05:03 7°♂23'39 12511 Jul 04 19:21 7°I56'50 12508 Dec 02 05:03 7°♂23'39 12511 Jul 04 19:21 7°I56'50 12511 Jul 04 19:21 7°I56'50 12511 Jul 05:03 12511 Jul
minimum elong max. Earth dist.
max. Earth dist.
12508 Nov 07 23:16 0° ₹ 12511 Jun 27 18:56 0° ∏ 12508 Dec 02 05:13 0° ₹ desc. node 12511 Jul 04 19:21 7° ∏56'50  evening rise 12508 Dec 08 05:03 7° ₹23'39 12511 Jul 23 18:13 0° ♀  desc. node 12509 Jan 16 14:40 25° ≈43'56 12511 Sep 11 11:26 0° 顶 12509 Jan 20 02:37 0° ₹ 12509 Feb 13 18:45 0° ♀ asc. node 12511 Oct 25 13:56 24° £06'14
12508 Dec 02 05:13 0°δ desc. node   12511 Jul 04 19:21 7° II 56'50     12508 Dec 08 05:03 7° II 23'39   12511 Jul 23 18:13 0°S     12508 Dec 26 14:06 0°≈   12511 Aug 17 19:34 0°Ω     desc. node   12509 Jan 16 14:40   25°≈43'56   12511 Sep 11 11:26 0° II 12509 Jan 20 02:37 0° H     12509 Feb 13 18:45 0°
evening rise  12508 Dec 08 05:03 7°₹23'39  12508 Dec 26 14:06 0°≈  12511 Aug 17 19:34 0°Ω  desc. node  12509 Jan 16 14:40 25°≈43'56  12509 Jan 20 02:37 0°升  12509 Feb 13 18:45 0°Υ  asc. node  12511 Oct 05 23:12 0°Ω  12511 Oct 25 13:56 24°Ω06'14
12508 Dec 26 14:06 0°≈ 12511 Aug 17 19:34 0°Ω  desc. node 12509 Jan 16 14:40 25°≈43'56 12511 Sep 11 11:26 0° №  12509 Jan 20 02:37 0° ℋ 12511 Oct 05 23:12 0° Ω  12509 Feb 13 18:45 0° Υ asc. node 12511 Oct 25 13:56 24° Ω06'14
desc. node 12509 Jan 16 14:40 25°≈43'56 12511 Sep 11 11:26 0° M 12509 Jan 20 02:37 0° ℋ 12511 Oct 05 23:12 0° Ω 12509 Feb 13 18:45 0° ❤ asc. node 12511 Oct 25 13:56 24° Ω06'14
12509 Jan 20 02:37 $0^{\circ}$ H       12511 Oct 05 23:12 $0^{\circ}$ \(\overline{\Omega}\)         12509 Feb 13 18:45 $0^{\circ}$ \(\overline{\Omega}\)       asc. node       12511 Oct 25 13:56 $24^{\circ}$ \(\overline{\Omega}\)06'14
12509 Feb 13 18:45 0° <b>γ</b> asc. node 12511 Oct 25 13:56 24° <b>Ω</b> 06'14
1/2/11/10/01/10/10/10/10/10/10/10/10/10/10/
12509 Apr 04 16:02 0° <b>I</b> 12511 Nov 23 17:03 0° <b>✓</b>
12509 Apr 30 05:47 0°5 morning set 12511 Dec 04 09:33 13° x 11'30
asc. node 12509 May 09 11:23 10°€33'37 12511 Dec 18 00:19 0°€
12509 May 27 01:29 0° \$\mathcal{O}\$
evening max el 12509 Jun 08 21:29 13° \( \infty 20'45 \) 46°47'37 superior conj 12512 Jan 10 02:48 28° \( \operatorname{3}31'13 \) 1°11'45
12509 Jun 26 21:45 0°M minimum elong 12512 Jan 10 11:49 28°\(\overline{5}59'02 \) 1°12'22
greatest brilliancy 12509 Jul 18 22:27 13° Mp53'36 -4.9m max. Earth dist. 12512 Jan 10 17:08 29° T15'25 1.73176 AU
retrograde 12509 Jul 29 05:10 15° 10/52'28 12512 Jan 11 07:35 0° 12512 Jan 12512 Jan 11 07:35 0° 12512 Jan
evening set 12509 Aug 13 04:12 11° Mp 27'32 12512 Feb 04 15:31 0° H
inferior conj 12509 Aug 18 22:27 8° Mp 04'07 2°43'27 desc. node 12512 Feb 14 04:17 11° ★ 44'30
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minimum elong 12509 Aug 19 04:36 7° № 54'44 2°41'06 evening rise 12512 Feb 16 17:47 14° ¥ 53'56 min. Earth dist. 12509 Aug 18 22:11 8° № 04'31 0.27038 AU 12512 Feb 28 23:58 0° ♀
desc. node 12509 Aug 29 13:24 2° Mp 22'41 12512 Apr 17 16:25 0° Ⅲ

	12512 May 12 01:48	0°ಅ			12515 Jan 01 14:39	ი∘ჳ	
asc. node	12512 Jun 05 22:09	0°Ω18'38			12515 Jan 26 01:21	0° <b>≈</b>	
	12512 Jun 05 15:59	0°N		morning set	12515 Feb 11 02:32	19° <b>≈</b> 45'43	
	12512 Jun 30 17:06	0°m)		<i>8 3 3 3 3 3 3 3 3 3 3</i>	12515 Feb 19 09:43	0° <b>)</b> €	
	12512 Jul 26 17:11	0∘ <u>⊽</u>		desc. node	12515 Mar 13 18:29	27° <b>)</b> € 38'28	
evening max el	12512 Aug 19 23:13	25° <b>≙</b> 52'54	46°35'10		12515 Mar 15 16:12	$0^{\circ}$ $\Upsilon$	
Č	12512 Aug 24 03:31	0° <b>M</b> .		max. Earth dist.	12515 Mar 18 17:27	3° <b>Y</b> 46'48	1.72636 AU
desc. node	12512 Sep 25 22:55	24°M57'24					
greatest brilliancy	12512 Sep 28 02:53	25°M51'37	-4.8m	superior conj	12515 Mar 21 04:41	6° <b>Ƴ</b> 50'19	-0°17'54
retrograde	12512 Oct 09 01:49	28°ML04'08		minimum elong	12515 Mar 21 00:29	6° <b>Ƴ</b> 37'18	0°17'43
evening set	12512 Oct 25 14:34	22°M49'37			12515 Apr 08 20:35	$0$ $\circ$ 8	
min. Earth dist.	12512 Oct 29 13:51	20°M25'14		evening rise	12515 Apr 29 02:05	25° <b>8</b> 11'08	
inferior conj	12512 Oct 30 09:53	19°M54'02			12515 May 02 22:46	$\Pi$ °0	
minimum elong	12512 Oct 30 00:06	20°M 09'17	7°16'57		12515 May 26 23:37	0°9	
morning rise	12512 Nov 03 10:00	17°M27'17			12515 Jun 20 01:04	0°N	
direct	12512 Nov 20 14:17	11°M54'00	4.0	asc. node	12515 Jul 04 10:10	17° <b>Ω</b> 51'48	
greatest brilliancy	12512 Nov 30 03:59	13°M33'31	-4.8m		12515 Jul 14 05:35	0° <b>m</b> )	
mamina may al	12512 Dec 26 07:04 12513 Jan 08 09:31	0° <b>∡¹</b> 11° <b>∡¹</b> 52'57	45°42'44		12515 Aug 07 16:15	0° <b>Մ</b>	
morning max el asc. node	12513 Jan 08 09.31 12513 Jan 17 00:37	20° <b>x</b> 26'26	43 42 44		12515 Sep 01 14:00 12515 Sep 27 09:01	0 IIC 0° <b>∡</b> 7	
asc. node	12513 Jan 26 05:00	20 <b>メ</b> ・20 20		desc. node	12515 Sep 27 09:01 12515 Oct 24 08:22	0 <b>x</b> ⁴ 29° <b>x</b> ¹11'17	
	12513 Feb 22 06:02	0°≈		dese. Hode	12515 Oct 25 03:33	0° <b>る</b>	
	12513 Mar 19 21:41	0° <b>₩</b>		evening max el	12515 Oct 31 00:19	5° <b>る</b> 49'42	46°03'01
	12513 Apr 13 20:27	0°Υ		evening mun er	12515 Nov 29 15:17	0°≈	.0 05 01
	12513 May 08 08:54	0°8		greatest brilliancy	12515 Dec 09 05:27	4° <b>≈</b> 34'24	-4.8m
desc. node	12513 May 08 20:38	0° <b>8</b> 36'08		retrograde	12515 Dec 19 06:07	6° <b>≈</b> 24'14	
	12513 Jun 01 14:14	0°II		evening set	12516 Jan 05 16:52	0° <b>≈</b> 37'26	
	12513 Jun 25 14:53	0ಂಣ			12516 Jan 06 17:43	30°Ŗる	
morning set	12513 Jul 10 07:31	18°524'41		inferior conj	12516 Jan 09 16:59	28° <b>る</b> 09'18	-7°21'25
	12513 Jul 19 13:17	$0^{\circ}\Omega$		minimum elong	12516 Jan 10 02:26	27° <b>る</b> 54'27	7°19'01
	12513 Aug 12 11:35	0° <b>m</b>		min. Earth dist.	12516 Jan 10 01:36	27° <b>る</b> 55'47	0.28897 AU
				morning rise	12516 Jan 14 11:55	25° <b>る</b> 13'19	
superior conj	12513 Aug 19 00:31	8° <b>m</b> )11'19		direct	12516 Jan 31 02:38	19° <b>る</b> 54'13	
minimum elong	12513 Aug 19 06:42	8° <b>m</b> 30'39		greatest brilliancy	12516 Feb 10 22:17	22° <b>ろ</b> 02'42	-4.8m
max. Earth dist.	12513 Aug 20 23:14	10° m <sub>2</sub> 37'31	1.71664 AU	asc. node	12516 Feb 14 10:43	23° <b>る</b> 32'41	
asc. node	12513 Aug 29 11:25	21° mp 15'57			12516 Feb 25 06:07	0° <b>≈</b>	
	12513 Sep 05 11:09	0° <b>⊽</b>		morning max el	12516 Mar 20 13:06	21°≈00'00	46°01'06
evening rise	12513 Sep 27 00:40	26° <b>♀</b> 52'47			12516 Mar 29 10:35	0° <b>∀</b> 0° <b>Υ</b>	
	12513 Sep 29 12:53 12513 Oct 23 17:49	0° <b>™</b> 0° <i>⊼</i> ′			12516 Apr 25 19:18	0.8 0.1	
	12513 Oct 25 17.49 12513 Nov 17 03:43	0°る		desc. node	12516 May 21 11:21 12516 Jun 05 09:33	17° <b>8</b> 55'50	
	12513 Nov 17 03:45 12513 Dec 11 20:55	0°≈		uese. Houe	12516 Jun 15 07:55	0°Ⅱ	
desc. node	12513 Dec 11 20:35 12513 Dec 19 04:02	8°≈46'06			12516 Jul 09 17:47	0°©	
acce. noue	12514 Jan 05 23:51	0° <b>∀</b>			12516 Aug 02 22:14	0°N	
	12514 Jan 31 15:48	0°Υ			12516 Aug 27 00:42	0° mp	
	12514 Feb 27 05:11	0°8			12516 Sep 20 03:02	0∘ <u>⊽</u>	
evening max el	12514 Mar 25 07:17	27° <b>8</b> 25'04	46°19'49	morning set	12516 Sep 21 16:04	1° <b>≏</b> 55'11	
	12514 Mar 27 22:46	$\Pi$ °0		asc. node	12516 Sep 26 01:42	7° <b>≏</b> 23'45	
asc. node	12514 Apr 11 03:36	12° <b>Ⅱ</b> 51′02			12516 Oct 14 05:59	$0^{\circ}$ M.	
greatest brilliancy	12514 May 04 14:36	27° <b>Ⅱ</b> 28'50	-4.8m				
retrograde	12514 May 14 03:22	29° <b>Ⅱ</b> 11'48		superior conj	12516 Oct 29 21:34	19° <b>M</b> 25'57	1°10'19
evening set	12514 Jun 01 06:12	22° <b>I</b> 58'07		minimum elong	12516 Oct 29 12:02	18° <b>M</b> ⋅56'22	1°10'40
inferior conj	12514 Jun 03 21:07	21° <b>Ⅱ</b> 21'44	9°11'12	max. Earth dist.	12516 Oct 31 23:11	21°M 59'51	1.72644 AU
minimum elong	12514 Jun 03 19:24	21° <b>II</b> 24'25	9°10'17		12516 Nov 07 10:02	0° <b>∡</b> ¹	
min. Earth dist.	12514 Jun 04 03:29 12514 Jun 06 08:33	21° <b>Ⅱ</b> 11'53 19° <b>Ⅱ</b> 50'22	0.27412 AU		12516 Dec 01 16:00 12516 Dec 05 21:31	0°궁 5° <b>궁</b> 13'11	
morning rise direct	12514 Jun 24 16:02	19 <b>II</b> 30 22 13° <b>II</b> 25'41		evening rise	12516 Dec 05 21:31 12516 Dec 26 01:01	0°≈	
greatest brilliancy	12514 Jul 04 15:37	15 <b>Ⅱ</b> 2541 15° <b>Ⅱ</b> 18'13	-4 9m	desc. node	12517 Jan 15 16:38	0 ≈ 25°≈16'01	
Sicurest billiancy	12514 Jul 27 18:18	0°©	7.7111	dose, flour	12517 Jan 19 13:48	0° <b>\</b>	
desc. node	12514 Aug 01 05:48	3°953'12			12517 Feb 13 06:21	0° <b>Υ</b>	
morning max el	12514 Aug 14 03:41	16°9510'46	46°54'25		12517 Mar 10 02:47	0°8	
<i>5</i> 22	12514 Aug 27 10:12	0° <b>Ω</b>	-		12517 Apr 04 05:15	0°II	
	12514 Sep 23 07:09	0° <b>m</b> )			12517 Apr 29 20:49	0°ಅ	
	12514 Oct 19 00:07	0∘ <del>⊽</del>		asc. node	12517 May 08 13:19	9° <b>©</b> 53'52	
	12514 Nov 13 04:10	$0^{\circ}$ M			12517 May 26 20:38	$0^{\circ}\Omega$	
asc. node	12514 Nov 22 03:12	10°M47'09		evening max el	12517 Jun 06 12:16	11° <b>Q</b> 00'41	46°47'13
	12514 Dec 08 00:13	0° <b>∡</b> ¹			12517 Jun 27 10:19	0° <b>™</b>	

greatest brilliancy	12517 Jul 16 12:46	11° <b>m</b> y 30'31	-4.9m		12519 Dec 17 11:04	ರ°0	
retrograde	12517 Jul 26 18:42	13° <b>m</b> )28'11					
evening set	12517 Aug 10 19:41	9° Mp 00'42		superior conj	12520 Jan 07 19:48	26° <b>る</b> 22'34	1°13'32
inferior conj	12517 Aug 16 11:28	5° <b>m</b> 40'18	3°06'25	minimum elong	12520 Jan 08 04:31	26° <b>る</b> 49'25	1°14'10
minimum elong	12517 Aug 16 18:23	5° <b>™</b> 29'44	3°03'50	max. Earth dist.	12520 Jan 08 09:47	27° <b>る</b> 05'40	1.73174 AU
min. Earth dist.	12517 Aug 16 12:06	5° <b>m</b> 39'19	0.27025 AU		12520 Jan 10 18:18	0° <b>≈</b>	
morning rise	12517 Aug 22 17:24	2°m/01'52			12520 Feb 04 02:18	0° <b>∀</b>	
	12517 Aug 27 01:23	30°R <b>Ω</b>		desc. node	12520 Feb 13 06:10	11° <b>∺</b> 17'01	
desc. node	12517 Aug 28 15:30	29° <b>Ω</b> 24'34		evening rise	12520 Feb 14 09:39	12° <b>)</b> 41′37	
direct	12517 Sep 06 05:48	27° <b>Ω</b> 55'16			12520 Feb 28 10:54	0° <b>Υ</b>	
greatest brilliancy	12517 Sep 16 03:00	29° <b>Ω</b> 44'25	-4.8m		12520 Mar 23 19:28	0°₽	
	12517 Sep 16 20:09	0° <b>m</b> )			12520 Apr 17 03:55	0°П	
morning max el	12517 Oct 25 20:50	29° Mp 08'45	46°14'07		12520 May 11 13:47	$0$ $\circ$ $60$	
	12517 Oct 26 17:50	0∘ <b>⊽</b>		asc. node	12520 Jun 05 00:06	29° <b>5</b> 46'02	
	12517 Nov 24 07:58	0° <b>M</b> ₊			12520 Jun 05 04:43	$0$ ° $\Omega$	
asc. node	12517 Dec 19 15:37	28°M39'14			12520 Jun 30 07:07	0° <b>m</b> )	
	12517 Dec 20 19:31	0° <b>∡</b> ¹			12520 Jul 26 09:48	0∘ <b>⊽</b>	
	12518 Jan 15 07:53	0°ಕ		evening max el	12520 Aug 17 13:04	23° <b>≏</b> 32'06	46°36'15
	12518 Feb 09 06:59	0° <b>≈</b>			12520 Aug 24 03:57	0°M₊	
	12518 Mar 05 21:55	0° <b>∀</b>		desc. node	12520 Sep 25 00:49	23° <b>™</b> 18'40	
	12518 Mar 30 07:18	$0^{\circ}$ Y		greatest brilliancy	12520 Sep 25 18:15	23°M35'59	-4.8m
desc. node	12518 Apr 10 08:37	13° <b>Y</b> 40′19		retrograde	12520 Oct 06 16:56	25° <b>™</b> 48'59	
morning set	12518 Apr 23 15:17	0° <b>8</b> 09'19		evening set	12520 Oct 23 02:16	20°M39'39	
	12518 Apr 23 12:17	0° <b>8</b>		min. Earth dist.	12520 Oct 27 04:55	18° <b>M</b> ₊10'51	0.28276 AU
	12518 May 17 13:32	$\Pi$ °0		inferior conj	12520 Oct 28 01:01	17°M39'36	
max. Earth dist.	12518 May 31 11:45	17° <b>Ⅱ</b> 26'17	1.71540 AU	minimum elong	12520 Oct 27 14:56	17°M55'16	7°04'45
				morning rise	12520 Nov 01 03:56	15° <b>™</b> 08'50	
superior conj	12518 Jun 02 16:19	20° <b>Ⅱ</b> 11′02		direct	12520 Nov 18 04:21	9° <b>™</b> 40'07	
minimum elong	12518 Jun 02 14:15	20° <b>Ⅱ</b> 04'33	1°28'03	greatest brilliancy	12520 Nov 27 18:57	11°M20'09	-4.8m
	12518 Jun 10 12:07	0ංම			12520 Dec 26 12:18	0° <b>∡</b> ¹	
	12518 Jul 04 09:47	$0$ $^{\circ}\Omega$		morning max el	12521 Jan 05 23:49	9° <b>⋌</b> ³37'41	45°43'02
evening rise	12518 Jul 12 22:41	10° <b>Ω</b> 42'31		asc. node	12521 Jan 16 02:41	19° <b>∡</b> ¹42'19	
_	12518 Jul 28 08:24	0° <b>m</b> )			12521 Jan 25 22:12	0°る	
asc. node	12518 Jul 31 23:23	4° <b>m</b> <sub>2</sub> 31'48			12521 Feb 21 19:58	0° <b>≈</b>	
	12518 Aug 21 09:42	0° <b>∞</b>			12521 Mar 19 10:12	0° <b>)</b> €	
	12518 Sep 14 15:28	0° <b>M</b> ₊			12521 Apr 13 08:15	0° <b>Υ</b>	
	12518 Oct 09 04:31	0° <b>∡</b> ¹		desc. node	12521 May 07 22:29	0° <b>8</b> 06'45	
	12518 Nov 03 05:36	0°る			12521 May 07 20:17	0° <b>B</b>	
desc. node	12518 Nov 20 18:33	20° <b>පි</b> 28'10			12521 Jun 01 01:23	0°II	
	12518 Nov 29 02:56	0° <b>≈</b>			12521 Jun 25 01:54	0.22 0.22	
	12518 Dec 26 14:04	0° <b>∀</b>	45050100	morning set	12521 Jul 07 19:14	15°\$56'29	
evening max el	12519 Jan 10 04:58	14° <b>)</b> 41′28	45°53'28		12521 Jul 19 00:14	0° <b>Q</b>	
	12519 Jan 27 11:40	0°Υ 120 <b>20</b> 0 (11.7	4.0		12521 Aug 11 22:28	0° <b>m</b> )	
greatest brilliancy	12519 Feb 18 06:08	13° <b>℃</b> 06'17	-4.8m		12521 4 16 12 00	50m 46127	0020146
retrograde	12519 Feb 28 03:09	14° <b>Y</b> 53'19		superior conj	12521 Aug 16 13:09	5° m/46'37	
asc. node	12519 Mar 13 20:13	11° <b>Υ</b> 12'14		minimum elong	12521 Aug 16 20:09	6° Mp 08'32	
evening set	12519 Mar 14 20:46	10° <b>Y</b> 39'49 6° <b>Y</b> 52'50	1950127	max. Earth dist.	12521 Aug 18 07:44	7° Mp 59'54	1.71636 AU
inferior conj minimum elong	12519 Mar 21 04:57 12519 Mar 21 00:49	6° <b>Y</b> 52'50	1°50'26 1°49'08	asc. node	12521 Aug 28 13:15 12521 Sep 04 22:00	20°Mp47'46 0°Ω	
•		6° <b>Y</b> 44'48			•		
min. Earth dist. morning rise	12519 Mar 21 10:05 12519 Mar 27 04:25	6°° <b>Y</b> °44'48 3° <b>Y</b> °16'45	0.27972 AU	evening rise	12521 Sep 24 15:36 12521 Sep 28 23:43	24° <b>£</b> 36'15 0° <b>I</b> L	
morning rise		3° 1 1643 30° R <del>X</del>			•	0°11L 0° <b>∡</b> 7	
direct	12519 Apr 03 13:33	30 KA 28° <b>∺</b> 46'37			12521 Oct 23 04:43	0°る	
direct	12519 Apr 11 07:58	28 <del>χ</del> 463/ 0° <b>Υ</b>			12521 Nov 16 14:50	0°≈	
	12519 Apr 19 08:48	0° <b>Υ</b> 50'01	-4.8m	JJ.	12521 Dec 11 08:29	0°≈ 8°≈17'00	
greatest brilliancy	12519 Apr 21 20:28	0° <b>8</b>	-4.8m	desc. node	12521 Dec 18 06:03 12522 Jan 05 12:12	8° <b>≈</b> 1700	
mamina may al	12519 May 30 10:10		16914140			0 K 0°Υ	
morning max el	12519 May 31 11:41	1° <b>8</b> 03'35 0° <b>Ⅱ</b>	+0 ++ +0		12522 Jan 31 05:32	0° <b>႘</b>	
dana mada	12519 Jun 27 11:15	0°Ц 7° <b>Ц</b> 18'15		ovenina ma1	12522 Feb 26 21:41		16010111
desc. node	12519 Jul 03 21:21	% П18.12		evening max el	12522 Mar 22 21:21	25° <b>8</b> 05'31 0° <b>Ⅱ</b>	46°18'44
	12519 Jul 23 08:05			asa nodo	12522 Mar 27 23:17		
	12519 Aug 17 08:12	0° <b>Ω</b>		asc. node	12522 Apr 10 05:34	11° <b>Ⅱ</b> 43'53	1 0
	12519 Sep 10 23:19	0° <b>m</b> )		greatest brilliancy	12522 May 02 02:38	25° <b>Ⅱ</b> 04'42	-4.8m
000 m-J-	12519 Oct 05 10:37	0° <u>დ</u>		retrograde	12522 May 11 17:02	26° <b>Ⅱ</b> 49'01	
asc. node	12519 Oct 24 15:42	23° <b>△</b> 37'21		evening set	12522 May 29 17:08	20° <b>Ⅱ</b> 38'13	9°08'45
	12519 Oct 29 19:58	0° <b>M</b> 0° <i>⊀</i> 7		inferior conj	12522 Jun 01 10:29	18° <b>Ⅱ</b> 58'16	9°08'45 9°07'46
morning set	12519 Nov 23 03:56 12519 Dec 02 02:19	0° <b>×</b> ′ 11° <b>×</b> ′01'44		minimum elong min. Earth dist.	12522 Jun 01 07:48 12522 Jun 01 15:55	19° <b>Ⅱ</b> 02'24 18° <b>Ⅱ</b> 49'52	9°07'46 0.27435 AU
morning set	12317 DCC 02 02.19	11 X:01 44		mm. Darm dist.	12322 Juli VI 13.33	10 Д4932	0.27433 AU

morning rise	12522 Jun 03 22:26	17° <b>Ⅱ</b> 26'15			12524 Nov 06 20:36	0° <b>∡</b> ¹	
direct	12522 Jun 22 06:03	17 <b>Ⅱ</b> 2013			12524 Dec 01 02:36	0°ਰ	
greatest brilliancy	12522 Jul 02 04:47	12° <b>Д</b> 54'09	-4.9m	evening rise	12524 Dec 03 13:59	3° <b>そ</b> 03'13	
greatest orimancy	12522 Jul 28 02:51	0°95	4.7III	evening rise	12524 Dec 25 11:43	0°≈	
desc. node	12522 Jul 31 07:51	2° <b>©</b> 51'50		desc. node	12525 Jan 14 18:33	24°≈48'44	
morning max el	12522 Aug 11 18:37	13°950'57	46°55'04	dese. node	12525 Jan 19 00:43	0° <b>∀</b>	
morning man vi	12522 Aug 27 04:46	0°Ω	.0 22 0 .		12525 Feb 12 17:40	0° <b>Υ</b>	
	12522 Sep 22 21:56	0° mp			12525 Mar 09 14:46	0°8	
	12522 Oct 18 13:08	0∘ <b>⊽</b>			12525 Apr 03 18:18	0°II	
	12522 Nov 12 16:08	0°M₊			12525 Apr 29 11:49	0°9	
asc. node	12522 Nov 21 05:11	10°M17'43		asc. node	12525 May 07 15:17	9° <b>©</b> 14'26	
	12522 Dec 07 11:33	0° <b>⊼</b>			12525 May 26 16:10	0°N	
	12523 Jan 01 01:35	8°0		evening max el	12525 Jun 04 02:09	8° <b>Ω</b> 38'44	46°46'41
	12523 Jan 25 12:05	0° <b>≈</b>		C	12525 Jun 28 02:59	0° <b>m</b> )	
morning set	12523 Feb 08 19:14	17° <b>≈</b> 36′24		greatest brilliancy	12525 Jul 14 03:34	9° <b>m</b> )08'12	-4.9m
C	12523 Feb 18 20:22	0° <b>∀</b>		retrograde	12525 Jul 24 07:35	11° <b>m</b> 03'54	
desc. node	12523 Mar 12 20:15	27° <b>)</b> 10′56		evening set	12525 Aug 08 11:12	6° m 33'45	
	12523 Mar 15 02:52	$0^{\circ}\mathbf{Y}$		inferior conj	12525 Aug 14 00:21	3° m/ 16'44	3°29'11
max. Earth dist.	12523 Mar 16 11:39	1° <b>Y</b> 41'28	1.72672 AU	minimum elong	12525 Aug 14 08:00	3° m/05'02	3°26'22
				min. Earth dist.	12525 Aug 14 02:11	-	0.27013 AU
superior conj	12523 Mar 18 19:13	4° <b>Y</b> 33'33	-0°14'24		12525 Aug 19 13:52	30°RΩ	
minimum elong	12523 Mar 18 15:51	4° <b>Υ</b> 23'05	0°14'12	morning rise	12525 Aug 20 05:04	29° <b>Ω</b> 39'31	
behind sun begin	12523 Mar 18 04:28	3° <b>Y</b> 47'51		desc. node	12525 Aug 27 17:22	26° <b>Ω</b> 31'50	
behind sun end	12523 Mar 19 03:13	4° <b>Y</b> 58'20		direct	12525 Sep 03 18:35	25° <b>Ω</b> 31'52	
	12523 Apr 08 07:19	0°8		greatest brilliancy	12525 Sep 13 16:10	27° <b>Ω</b> 21′07	-4.8m
evening rise	12523 Apr 26 15:31	22° <b>8</b> 49'42			12525 Sep 19 16:52	0° mp	
C	12523 May 02 09:36	0°II		morning max el	12525 Oct 23 09:38	26° Mp 47'09	46°15'36
	12523 May 26 10:37	0ം <b>ತಾ</b>		C	12525 Oct 26 15:57	0∘ <del>ত</del>	
	12523 Jun 19 12:18	$0^{\circ}\Omega$			12525 Nov 23 23:37	0° <b>M</b> .	
asc. node	12523 Jul 03 12:09	17° <b>Ω</b> 22'37		asc. node	12525 Dec 18 17:33	28°M06'23	
	12523 Jul 13 17:10	0° <b>m</b>			12525 Dec 20 08:43	0° <b>∡</b> ¹	
	12523 Aug 07 04:23	0∘ <b>⊽</b>			12526 Jan 14 19:51	0°ප	
	12523 Sep 01 03:06	$0^{\circ}$ M			12526 Feb 08 18:16	0° <b>≈</b>	
	12523 Sep 27 00:03	0° <b>≯</b> 7			12526 Mar 05 08:48	0° <b>)</b> €	
desc. node	12523 Oct 23 10:21	28° <b>₹</b> 25'53			12526 Mar 29 17:59	$0^{\circ}$ Y	
	12523 Oct 24 23:48	8°0		desc. node	12526 Apr 09 10:30	13° <b>Y</b> 13'11	
evening max el	12523 Oct 28 16:31	3°₹39'00	46°04'03	morning set	12526 Apr 21 04:00	27° <b>Y</b> 46'40	
	12523 Dec 01 06:18	0° <b>≈</b>			12526 Apr 22 22:54	$9^{\circ}$ 8	
greatest brilliancy	12523 Dec 06 20:08	2° <b>≈</b> 23'07	-4.8m		12526 May 17 00:08	$\Pi^{\circ}0$	
retrograde	12523 Dec 16 22:17	4°≈13'52		max. Earth dist.	12526 May 28 16:52	14° <b>Ⅲ</b> 38'44	1.71569 AU
	12523 Dec 31 15:41	30°Rる					
evening set	12524 Jan 03 11:32	28° <b>る</b> 22'55		superior conj	12526 May 31 04:22	17° <b>Ⅱ</b> 45′07	-1°26'46
inferior conj	12524 Jan 07 08:55	25° <b>る</b> 58'36	-7°32'16	minimum elong	12526 May 31 01:16	17° <b>Ⅱ</b> 35′24	1°27'37
minimum elong	12524 Jan 07 18:04	25° <b>⋜</b> 44'16	7°29'59		12526 Jun 09 22:46	$0$ $\circ$ $\odot$	
min. Earth dist.	12524 Jan 07 16:23	25° <b>⋜</b> 46'54	0.28912 AU		12526 Jul 03 20:29	$0^{\circ}\Omega$	
morning rise	12524 Jan 12 00:34	23° <b>る</b> 07'30		evening rise	12526 Jul 10 09:49	8° <b>Ω</b> 13'17	
direct	12524 Jan 28 19:18	17° <b>る</b> 43'51			12526 Jul 27 19:10	0° <b>m</b> )	
greatest brilliancy	12524 Feb 08 12:48	19° <b>る</b> 50'38	-4.8m	asc. node	12526 Jul 31 01:10	4° Mg 03′40	
asc. node	12524 Feb 13 12:38	22° <b>る</b> 03'47			12526 Aug 20 20:37	0∘ <b>ত</b>	
	12524 Feb 25 21:50	0° <b>≈</b>			12526 Sep 14 02:38	0° <b>M</b> ₊	
morning max el	12524 Mar 18 04:57	18° <b>≈</b> 48′01	45°59'39		12526 Oct 08 16:07	0° <b>∡</b> ¹	
	12524 Mar 29 05:12	0° <b>)</b> €			12526 Nov 02 18:02	0°ප	
	12524 Apr 25 09:47	$0$ ° $\Upsilon$		desc. node	12526 Nov 19 20:36	19° <b>る</b> 55'26	
	12524 May 21 00:10	$9^{\circ}$ 8			12526 Nov 28 17:04	0°≈	
desc. node	12524 Jun 04 11:32	17° <b>8</b> 24'39			12526 Dec 26 08:13	0° <b>∀</b>	
	12524 Jun 14 19:53	$\Pi$ °0		evening max el	12527 Jan 07 18:46	12° <b>)</b> 25′34	45°53'11
	12524 Jul 09 05:16	0			12527 Jan 27 23:34	$0^{\circ}$ Y	
	12524 Aug 02 09:23	$0$ ° $\Omega$		greatest brilliancy	12527 Feb 15 21:20	10° <b>Y</b> 52′10	-4.8m
	12524 Aug 26 11:36	0° m		retrograde	12527 Feb 25 17:18	12° <b>Y</b> 38'43	
morning set	12524 Sep 19 06:16	29° <b>m</b> 36'44		evening set	12527 Mar 12 11:32	8° <b>Y</b> 24'47	
	12524 Sep 19 13:45	0。 <b>ಹ</b>		asc. node	12527 Mar 12 22:09	8° <b>Y</b> 10'18	
asc. node	12524 Sep 25 03:25	6° <b>£</b> 55'50		inferior conj	12527 Mar 18 19:54	4° <b>Y</b> 37'53	1°28'39
	12524 Oct 13 16:36	$0^{\circ}$ M		minimum elong	12527 Mar 18 16:33	4° <b>Ƴ</b> 43'07	1°27'38
				min. Earth dist.	12527 Mar 19 01:57	4° <b>Ƴ</b> 28'25	0.27998 AU
superior conj	12524 Oct 27 13:22	17° <b>M</b> 13'11	1°08'16	morning rise	12527 Mar 24 21:02	0° <b>Ƴ</b> 59'22	
minimum elong	12524 Oct 27 03:35	16°M42'49	1°08'35		12527 Mar 26 17:44	30° <b>₹</b> ₩	
max. Earth dist.	12524 Oct 29 17:41	19°M55'32	1.72612 AU	direct	12527 Apr 08 22:33	26° <b>∺</b> 31′06	

greatest brilliancy	12527 Apr 19 13:13	28° <b>∺</b> 36'09	-4.8m		12529 Dec 10 19:53	0°æ	
8	12527 Apr 22 20:22	0° <b>Ƴ</b>		desc. node	12529 Dec 17 07:56	7° <b>≈</b> 48'03	
morning max el	12527 May 29 01:28	28° <b>Ƴ</b> 43'46	46°43'25		12530 Jan 05 00:24	0° <b>∀</b>	
C	12527 May 30 07:50	0°B			12530 Jan 30 19:10	$0^{\circ}$ Y	
	12527 Jun 27 02:50	$\Pi^{\circ}0$			12530 Feb 26 14:19	0°8	
desc. node	12527 Jul 02 23:21	6° <b>Ⅱ</b> 41'12		evening max el	12530 Mar 20 12:06	22° <b>8</b> 48'18	46°17'36
	12527 Jul 22 21:28	$0$ $\circ$ $\odot$			12530 Mar 28 00:51	$\Pi^{\circ}0$	
	12527 Aug 16 20:27	$0^{\circ}\Omega$		asc. node	12530 Apr 09 07:40	10° <b>Ⅲ</b> 35'40	
	12527 Sep 10 10:54	0° <b>m</b> )		greatest brilliancy	12530 Apr 29 14:38	22° <b>Ⅱ</b> 41′18	-4.8m
	12527 Oct 04 21:44	0∘ <b>⊽</b>		retrograde	12530 May 09 06:50	24° <b>Ⅲ</b> 26'42	
asc. node	12527 Oct 23 17:41	23° <b>≏</b> 10′06		evening set	12530 May 27 03:38	18° <b>Ⅱ</b> 19'49	
	12527 Oct 29 06:45	$0^{\circ}$ M		inferior conj	12530 May 29 23:48	16° <b>Ⅱ</b> 35′28	9°05'21
	12527 Nov 22 14:29	0° <b>∡</b> ¹		minimum elong	12530 May 29 20:13	16° <b>Ⅱ</b> 41′00	9°04'18
morning set	12527 Nov 29 18:42	8° <b>∡</b> 751'42		min. Earth dist.	12530 May 30 04:11	16° <b>Ⅱ</b> 28'42	0.27450 AU
	12527 Dec 16 21:29	0°ಕ		morning rise	12530 Jun 01 12:46	15° <b>Ⅱ</b> 01'54	
				direct	12530 Jun 19 20:09	8° <b>Ⅱ</b> 38'53	
superior conj	12528 Jan 05 12:36			greatest brilliancy	12530 Jun 29 17:22	10° <b>Ⅲ</b> 30′16	-4.9m
minimum elong	12528 Jan 05 20:55	24°₹39'54	1°15'53		12530 Jul 28 08:34	0.@	
max. Earth dist.	12528 Jan 06 03:00	24° <b>る</b> 58'38	1.73174 AU	desc. node	12530 Jul 30 09:43	1°952'24	46055145
	12528 Jan 10 04:42	0° <b>€</b>		morning max el	12530 Aug 09 09:15	11°531'24	46°55'45
	12528 Feb 03 12:47	10° <b>∺</b> 30'13			12530 Aug 26 22:30	0° <b>Ω</b> 0° <b>m</b>	
evening rise desc. node	12528 Feb 12 01:29 12528 Feb 12 07:57	10° <b>X</b> 30°13 10° <b>X</b> 50'07			12530 Sep 22 12:13 12530 Oct 18 01:47	0ം <b>⊽</b>	
desc. node	12528 Feb 12 07.37 12528 Feb 27 21:32	10 <b>χ</b> 3007			12530 Oct 18 01.47 12530 Nov 12 03:51	0°M	
	12528 Mar 23 06:19	0°8		asc. node	12530 Nov 20 07:05	9°M48'45	
	12528 Apr 16 15:04	0°II		asc. node	12530 Nov 20 07:03 12530 Dec 06 22:41	0° <b>⊼</b>	
	12528 May 11 01:24	0.2e			12530 Dec 31 12:23	0°ਤ	
asc. node	12528 Jun 04 02:07	29°9514'44			12531 Jan 24 22:41	0° <b>≈</b>	
	12528 Jun 04 17:07	0°N		morning set	12531 Feb 06 11:46	15° <b>≈</b> 27'01	
	12528 Jun 29 20:52	0° m)		5 5 5	12531 Feb 18 06:54	0° <b>)</b> €	
	12528 Jul 26 02:24	0∘ <u>v</u>		desc. node	12531 Mar 11 22:05	26° <b>)</b> 44′03	
evening max el	12528 Aug 15 03:07	21° <b>≏</b> 12'30	46°37'11	max. Earth dist.	12531 Mar 14 04:33	29° <b>¥</b> 32'37	1.72706 AU
	12528 Aug 24 05:25	$0^{\circ}$ M			12531 Mar 14 13:24	$0^{\circ}$ Y	
greatest brilliancy	12528 Sep 23 08:49	21°M19'22	-4.8m				
desc. node	12528 Sep 24 02:51	21°M36'22		superior conj	12531 Mar 16 09:39	2° <b>Y</b> 16'57	-0°10'51
retrograde	12528 Oct 04 08:09	23°M33'30		minimum elong	12531 Mar 16 07:06	2° <b>Y</b> 09'05	0°10'41
evening set	12528 Oct 20 13:39	18° <b>M</b> 29′05		behind sun begin	12531 Mar 15 12:53	1° <b>Y</b> 12'41	
min. Earth dist.	12528 Oct 24 19:23	15°M56'17	0.28224 AU	behind sun end	12531 Mar 17 01:19	3° <b>Y</b> 05'29	
inferior conj	12528 Oct 25 15:46	15°M24'41			12531 Apr 07 17:55	0°8	
minimum elong	12528 Oct 25 05:29	15°M40'39	6°51'35	evening rise	12531 Apr 24 04:54	20° <b>8</b> 28'30	
morning rise	12528 Oct 29 21:40	12°M49'58			12531 May 01 20:21	$\Pi$ $\circ$ 0	
direct	12528 Nov 15 18:22	7° <b>M</b> 25'44			12531 May 25 21:33	0°9	
greatest brilliancy	12528 Nov 25 09:18	9°M06'15	-4.8m		12531 Jun 18 23:28	0°N	
	12528 Dec 26 15:26	0° <b>⊼</b> ¹	45042125	asc. node	12531 Jul 02 13:57	16° <b>Ω</b> 53'10	
morning max el	12529 Jan 03 14:38	7° <b>×</b> <sup>7</sup> 24'23	45°43'25		12531 Jul 13 04:38	0° <b>m</b> )	
asc. node	12529 Jan 15 04:38 12529 Jan 25 14:44	18° <b>メ</b> *59'12 0°る			12531 Aug 06 16:22	0∘ <b>™</b>	
		0°≈			12531 Aug 31 16:04	0° <b>™</b> 0° <i>≯</i> 7	
	12529 Feb 21 09:27 12529 Mar 18 22:21	0° <b>∺</b>		desc. node	12531 Sep 26 15:05 12531 Oct 22 12:23	0° <b>x</b> ' 27° <b>x</b> '40'22	
	12529 Apr 12 19:43	0° <b>Υ</b>		dese. Hode	12531 Oct 22 12:23 12531 Oct 24 20:33	0°る	
desc. node	12529 Apr 12 19:43 12529 May 07 00:27	29° <b>Υ</b> 38'43		evening max el	12531 Oct 24 20:33 12531 Oct 26 08:24	0 8 1° <b>る</b> 27'55	46°04'51
dese. Hode	12529 May 07 00:27	0° <b>8</b>		evening max er	12531 Dec 03 21:14	0°≈	40 0431
	12529 May 31 12:12	0°II		greatest brilliancy	12531 Dec 04 11:24	0° <b>≈</b> 12'42	-4.8m
	12529 Jun 24 12:33	0°ಅ		retrograde	12531 Dec 14 14:01	2° <b>≈</b> 03'36	
morning set	12529 Jul 05 07:16	13° <b>©</b> 30'27			12531 Dec 24 18:19	30°Ŗ₹	
Ü	12529 Jul 18 10:48	$0^{\circ}\Omega$		evening set	12532 Jan 01 06:11	26° <b>පි</b> 08'49	
	12529 Aug 11 09:00	0° <b>m</b> )		inferior conj	12532 Jan 05 00:56	23° <b>ප්</b> 48'10	-7°42'21
	-			minimum elong	12532 Jan 05 09:41	23° <b>る</b> 34'25	7°40'12
superior conj	12529 Aug 14 01:52	3° <b>m</b> 23'09	-0°32'19	min. Earth dist.	12532 Jan 05 07:24	23° <b>る</b> 37'59	0.28927 AU
minimum elong	12529 Aug 14 09:38	3° <b>m</b> 47'29	0°32'26	morning rise	12532 Jan 09 13:12	21° <b>පි</b> 01'48	
max. Earth dist.	12529 Aug 15 19:05	5° <b>m</b> 32'13	1.71614 AU	direct	12532 Jan 26 11:46	15° <b>る</b> 33'46	
asc. node	12529 Aug 27 15:04	$20^\circ$ m $20^\circ$ 34		greatest brilliancy	12532 Feb 06 03:31	17° <b>る</b> 38'44	-4.8m
	12529 Sep 04 08:32	0∘ <b>亚</b>		asc. node	12532 Feb 12 14:35	20° <b>る</b> 37'49	
evening rise						0.0	
	12529 Sep 22 06:25	22° <b>₽</b> 20'13			12532 Feb 26 09:28	0° <b>≈</b>	
	12529 Sep 28 10:17	0° <b>M</b> ₊		morning max el	12532 Mar 15 19:55	16° <b>≈</b> 33'46	45°58'13
	12529 Sep 28 10:17 12529 Oct 22 15:24	0° <b>M</b> 0° <b>⊀</b>		morning max el	12532 Mar 15 19:55 12532 Mar 28 23:20	16° <b>≈</b> 33'46 0° <b>)</b> €	45°58'13
	12529 Sep 28 10:17	0° <b>M</b> ₊		morning max el	12532 Mar 15 19:55	16° <b>≈</b> 33'46	45°58'13

	12532 May 20 12:54	0°B			12534 Nov 28 07:31	0° <b>≈</b>	
desc. node	12532 Jun 03 13:24	16° <b>8</b> 53'13			12534 Nov 28 07:31 12534 Dec 26 03:02	0° <b>∺</b>	
dese. Hode	12532 Jun 14 07:49	0°Ⅱ		evening max el	12535 Jan 05 08:41	10° <b>∺</b> 09'38	45°52'56
	12532 Jul 08 16:44	0°©		evening max er	12535 Jan 28 15:56	0°Υ	43 32 30
	12532 Aug 01 20:32	0° <b>Ω</b>		greatest brilliancy	12535 Feb 13 12:00	8° <b>Y</b> 36'57	-4.8m
	12532 Aug 25 22:29	0° m/y		retrograde	12535 Feb 23 07:57	10° <b>Y</b> 23'44	
morning set	12532 Sep 16 20:51	27° m 19'24		evening set	12535 Mar 10 02:33	6° <b>Ƴ</b> 08'48	
S	12532 Sep 19 00:27	0∘ <u>⊽</u>		asc. node	12535 Mar 12 00:16	5° <b>Y</b> ′04'36	
asc. node	12532 Sep 24 05:23	6° <b>≙</b> 28'47		inferior conj	12535 Mar 16 10:54	2° <b>Y</b> '22'11	1°06'45
	12532 Oct 13 03:10	0° <b>M</b> .		minimum elong	12535 Mar 16 08:22	2° <b>Y</b> '26'08	1°06'02
				min. Earth dist.	12535 Mar 16 17:39	2° <b>Y</b> 11'39	0.28033 AU
superior conj	12532 Oct 25 05:32	15°ML01'43	1°06'08		12535 Mar 20 07:17	30° <b>₹</b> ₩	
minimum elong	12532 Oct 24 19:35	14°MJ30'48	1°06'25	morning rise	12535 Mar 22 13:36	28° <b>)</b> 41′40	
max. Earth dist.	12532 Oct 27 11:57	17°M50'36	1.72578 AU	direct	12535 Apr 06 13:34	24° <b>)</b> 14'41	
	12532 Nov 06 07:07	0° <b>∡</b> ¹		greatest brilliancy	12535 Apr 17 05:56	26° <b>∺</b> 21'25	-4.8m
	12532 Nov 30 13:10	0°ප			12535 Apr 24 19:27	$0^{\circ}$ Y	
evening rise	12532 Dec 01 06:43	0° <b>ප</b> 54'08		morning max el	12535 May 26 16:20	26° <b>Y</b> 25'31	46°42'09
	12532 Dec 24 22:27	0° <b>≈</b>			12535 May 30 05:11	$0^{\circ}S$	
desc. node	12533 Jan 13 20:19	24° <b>≈</b> 20'46			12535 Jun 26 18:35	$\Pi$ $^{\circ}0$	
	12533 Jan 18 11:43	0° <b>∀</b>		desc. node	12535 Jul 02 01:13	6° <b>Ⅱ</b> 02'58	
	12533 Feb 12 05:07	$0^{\circ}$ Y			12535 Jul 22 11:05	$0$ $\circ$	
	12533 Mar 09 02:55	0°8			12535 Aug 16 08:59	$0^{\circ}\Omega$	
	12533 Apr 03 07:36	$\Pi$ °0			12535 Sep 09 22:47	0° <b>m</b> )	
	12533 Apr 29 03:11	ი <sub>ა</sub> ფ			12535 Oct 04 09:11	0∘ <b>ত</b>	
asc. node	12533 May 06 17:18	8° <b>9</b> 34'14		asc. node	12535 Oct 22 19:31	22° <b>≏</b> 41'20	
	12533 May 26 12:29	$0$ $\circ$ $\Omega$			12535 Oct 28 17:52	0° <b>M</b>	
evening max el	12533 Jun 01 14:55	6° <b>Ω</b> 13'30	46°46'05		12535 Nov 22 01:21	0° <b>∡</b> 7	
	12533 Jun 29 01:51	0° Mp	4.0	morning set	12535 Nov 27 11:19	6° <b>∡</b> 741'17	
greatest brilliancy	12533 Jul 11 18:41	6° Mp 45'33	-4.9m		12535 Dec 16 08:13	0°₹	
retrograde	12533 Jul 21 20:04	8° m/39'09			12526 1 02 05 44	22070(100	1016145
evening set	12533 Aug 06 02:48	4° Mp 05'50	2051122	superior conj	12536 Jan 03 05:44	22°る06'00 22°る30'25	1°16'45 1°17'28
inferior conj	12533 Aug 11 13:13	0° Mp 52'39	3°51'33 3°48'32	minimum elong max. Earth dist.	12536 Jan 03 13:39 12536 Jan 03 22:33	22° <b>る</b> 57'54	1.73169 AU
minimum elong min. Earth dist.	12533 Aug 11 21:32 12533 Aug 11 16:31	0° Mp 39'54 0° Mp 47'36	0.27002 AU	max. Earm dist.	12536 Jan 09 15:24	22 <b>3</b> 3734 0° <b>≈</b>	1./3109 AU
iiiii. Eartii dist.	12533 Aug 11 10.51 12533 Aug 12 23:41	0 11/4730 30°RΩ	0.27002 AU		12536 Feb 02 23:33	0 <b>≈</b> 0° <b>∺</b>	
morning rise	12533 Aug 17 16:26	27° <b>Ω</b> 16'59		evening rise	12536 Feb 09 17:44	8° <b>∺</b> 19'14	
desc. node	12533 Aug 26 19:26	23°Ω43'46		desc. node	12536 Feb 11 09:52	10° <b>)</b> 22'44	
direct	12533 Sep 01 06:53	23° <b>Ω</b> 07'39		dese. Hode	12536 Feb 27 08:30	0° <b>Υ</b>	
greatest brilliancy	12533 Sep	24° <b>Ω</b> 57'44	-4.8m		12536 Mar 22 17:33	0°8	
greatest offinally	12533 Sep 21 11:03	0° mp			12536 Apr 16 02:40	0°II	
morning max el	12533 Oct 20 22:08	24° Mp 24'16	46°17'24		12536 May 10 13:32	0°©	
S	12533 Oct 26 13:21	0∘ <u>⊽</u>		asc. node	12536 Jun 03 03:56	28°9541'14	
	12533 Nov 23 15:05	0° <b>M</b>			12536 Jun 04 06:03	$0^{\circ}\Omega$	
asc. node	12533 Dec 17 19:27	27°M33'23			12536 Jun 29 11:15	0° <b>m</b> )	
	12533 Dec 19 21:52	0° <b>∡</b> ¹			12536 Jul 25 19:51	0∘ <b>⊽</b>	
	12534 Jan 14 07:51	ರ°0		evening max el	12536 Aug 12 17:51	18° <b>≏</b> 53'22	46°38'14
	12534 Feb 08 05:39	0° <b>≈</b>			12536 Aug 24 08:56	$0^{\circ}$ M	
	12534 Mar 04 19:52	0° <b>∀</b>		greatest brilliancy	12536 Sep 20 23:05	19° <b>M</b> .01'01	-4.8m
	12534 Mar 29 04:54	$0$ ° $\Upsilon$		desc. node	12536 Sep 23 04:54	19° <b>M</b> 48'49	
desc. node	12534 Apr 08 12:27	12° <b>Ƴ</b> 45'31		retrograde	12536 Oct 01 23:50	21°M16'31	
morning set	12534 Apr 18 16:39	25° <b>Y</b> 23′05		evening set	12536 Oct 18 01:06	16° <b>M</b> ₊16'53	
	12534 Apr 22 09:45	$0^{\circ}S$		min. Earth dist.	12536 Oct 22 09:33	13°M40'29	0.28169 AU
	12534 May 16 10:59	$\Pi$ °0		inferior conj	12536 Oct 23 06:27	13°ML08'10	
max. Earth dist.	12534 May 26 00:37	11° <b>Ⅱ</b> 58'41	1.71601 AU	minimum elong	12536 Oct 22 20:00	13°M24'19	6°37'45
		_		morning rise	12536 Oct 27 15:19	10° <b>M</b> 29'34	
superior conj	12534 May 28 16:19	15° <b>Ⅱ</b> 18'13		direct	12536 Nov 13 08:49	5° <b>™</b> 09'54	
minimum elong	12534 May 28 12:12	15° <b>Ⅱ</b> 05'21	1°27'00	greatest brilliancy	12536 Nov 22 23:03	6°M50'19	-4.8m
	12534 Jun 09 09:38	0° <b>©</b>			12536 Dec 26 17:31	0° <b>∡</b> 7	45042150
	12534 Jul 03 07:24	0°Ω 5°Ω42119		morning max el	12537 Jan 01 06:03	5° 🗷 11'31	45°43'58
evening rise	12534 Jul 07 20:55	5° <b>Ω</b> 43'18		asc. node	12537 Jan 14 06:32	18° <b>∡</b> 15'31	
ago mad-	12534 Jul 27 06:13	0°M)			12537 Jan 25 07:19	5°0	
asc. node	12534 Jul 30 03:02 12534 Aug 20 07:49	3° <b>™</b> 34'59 0° <b>₽</b>			12537 Feb 20 23:08 12537 Mar 18 10:45	0° <b>Ж</b>	
	12534 Aug 20 07:49 12534 Sep 13 14:06	0° <b>™</b>			12537 Mar 18 10:45 12537 Apr 12 07:28	0° <b>Υ</b> 0° <b>Υ</b>	
	12534 Sep 13 14.06 12534 Oct 08 04:01	0° <b>⊼</b>		desc. node	12537 Apr 12 07.28 12537 May 06 02:15	0 1 29° <b>Υ</b> 09'05	
	12534 Nov 02 06:45	0°る		acse. Houc	12537 May 06 02:13 12537 May 06 18:46	0° <b>8</b>	
desc. node	12534 Nov 18 22:31	0 0 19° <b>る</b> 21'35			12537 May 30 23:25	0°II	
dose. Hode	1200 11107 10 22.01	1, 02133			1200, Iviay 50 25.25	V <u>н</u>	

	12537 Jun 23 23:40	0° <b>©</b>		evening set	12539 Dec 30 00:37	23° <b>る</b> 53'45	
marning sat	12537 Jul 23 23:40 12537 Jul 02 18:57	11° <b>©</b> 01'53		•	12540 Jan 02 16:51	23 <b>3</b> 3343 21° <b>3</b> 36'44	7051140
morning set	12537 Jul 02 18:57 12537 Jul 17 21:50	0°Ω		inferior conj minimum elong	12540 Jan 03 01:08	21° <b>る</b> 3044	7°49'49
	12537 Aug 10 20:00	oor o°Mp		min. Earth dist.	12540 Jan 02 22:37	21 <b>3</b> 2341 21° <b>3</b> 27'39	0.28937 AU
	12337 Aug 10 20.00	עוו ט			12540 Jan 07 01:40	18°る55'10	0.28937 AU
superior coni	12527 Aug 11 14:06	0° m 56'44	0°25'50	morning rise direct	12540 Jan 24 03:34	18 <b>3</b> 33 10	
superior conj	12537 Aug 11 14:06	0° Mp 56'44 1° Mp 23'20				15° <b>る</b> 22'34	-4.8m
minimum elong max. Earth dist.	12537 Aug 11 22:35	3°My 06'30	1.71589 AU	greatest brilliancy asc. node	12540 Feb 03 18:30	13 <b>32</b> 6 14 19° <b>る</b> 13'53	-4.6111
asc. node	12537 Aug 13 07:32 12537 Aug 26 16:59		1./1369 AU	asc. node	12540 Feb 11 16:42 12540 Feb 26 18:21	0°≈	
asc. node	Č	19° m 52'21					45057102
	12537 Sep 03 19:30	0° <b>⊽</b>		morning max el	12540 Mar 13 10:13	14°≈17'14	45°5/03
evening rise	12537 Sep 19 20:54	20° <b>Ω</b> 01'44			12540 Mar 28 17:13	0° <b>)</b> €	
	12537 Sep 27 21:17	0°M			12540 Apr 24 14:21	0° <b>Υ</b>	
	12537 Oct 22 02:30	0° <b>∡</b> 7			12540 May 20 01:38	0° <b>8</b>	
	12537 Nov 15 13:08	0°る		desc. node	12540 Jun 02 15:17	16° <b>8</b> 21'45	
	12537 Dec 10 07:43	0° <b>≈</b>			12540 Jun 13 19:46	0°Щ	
desc. node	12537 Dec 16 09:47	7°≈17'43			12540 Jul 08 04:15	0ංඔ	
	12538 Jan 04 13:02	0° <b>∀</b>			12540 Aug 01 07:46	$0$ $^{\circ}$ $\Omega$	
	12538 Jan 30 09:16	$0^{\circ}$ Y			12540 Aug 25 09:31	0° <b>m</b> )	
	12538 Feb 26 07:33	$9^{\circ}$ 8		morning set	12540 Sep 14 10:55	24° <b>m</b> 59'49	
evening max el	12538 Mar 18 02:58	20° <b>8</b> 30'45	46°16'24		12540 Sep 18 11:19	0。 <b>ಹ</b>	
	12538 Mar 28 04:14	$\Pi$ °0		asc. node	12540 Sep 23 07:14	6° <b>≙</b> 00'44	
asc. node	12538 Apr 08 09:35	9° <b>Ⅱ</b> 24'24			12540 Oct 12 13:57	0° <b>M</b>	
greatest brilliancy	12538 Apr 27 03:07	20° <b>Ⅱ</b> 17′53	-4.8m				
retrograde	12538 May 06 20:21	22° <b>Ⅱ</b> 03'35		superior conj	12540 Oct 22 21:07	12° <b>M</b> 47'45	1°03'52
evening set	12538 May 24 13:47	16° <b>Ⅱ</b> 01'36		minimum elong	12540 Oct 22 11:03	12° <b>M</b> 16'29	1°04'05
inferior conj	12538 May 27 13:14	14° <b>Ⅱ</b> 12'03	9°00'52	max. Earth dist.	12540 Oct 25 03:01	15° <b>M</b> ₊35'05	1.72543 AU
minimum elong	12538 May 27 08:46	14° <b>Ⅱ</b> 18'58	8°59'44		12540 Nov 05 17:51	0° <b>∡</b> ¹	
min. Earth dist.	12538 May 27 16:44	14° <b>Ⅱ</b> 06'37	0.27470 AU	evening rise	12540 Nov 28 22:56	28° <b>∡</b> ¹42'52	
morning rise	12538 May 30 03:44	12° <b>Ⅲ</b> 36′00		C	12540 Nov 29 23:56	0°ჳ	
direct	12538 Jun 17 10:18	6° <b>Ⅱ</b> 15'19			12540 Dec 24 09:20	0° <b>≈</b>	
greatest brilliancy	12538 Jun 27 06:23	8° <b>Ⅱ</b> 05'38	-4.9m	desc. node	12541 Jan 12 22:17	23°≈52'54	
8	12538 Jul 28 12:58	0ಂತಾ			12541 Jan 17 22:53	0° <b>)</b> €	
desc. node	12538 Jul 29 11:46	0°953'18			12541 Feb 11 16:45	0° <b>Υ</b>	
morning max el	12538 Aug 06 23:10	9°508'29	46°56'10		12541 Mar 08 15:15	0°8	
morning max or	12538 Aug 26 16:23	0° <b>Ω</b>	10 30 10		12541 Apr 02 21:03	0°II	
	12538 Sep 22 02:50	0° mp			12541 Apr 28 18:45	0°©	
	12538 Oct 17 14:47	0∘ <b>⊽</b>		asc. node	12541 May 05 19:13	7° <b>9</b> 53'28	
	12538 Nov 11 15:54	0° <b>m</b> .		asc. node	12541 May 26 09:21	0°Ω	
asc. node	12538 Nov 11 13.54 12538 Nov 19 08:53	9°M18'23		evening max el	12541 May 30 03:02	3° <b>Ω</b> 47'06	16915127
asc. node	12538 Nov 19 08.55 12538 Dec 06 10:09	9 IIC1623 0° <b>√</b>		evening max er	•	0°m)	40 43 37
		0°ਤ		areatest brillianav	12541 Jun 30 09:08		4.0
	12538 Dec 30 23:29			greatest brilliancy	12541 Jul 09 09:35	4° m) 23'23	-4.9m
. ,	12539 Jan 24 09:36	0°≈		retrograde	12541 Jul 19 08:47	6° Mp 15'31	
morning set	12539 Feb 04 04:31	13°≈17'19		evening set	12541 Aug 03 18:38	1° m/38'22	
	12539 Feb 17 17:43	0° <b>)</b> {			12541 Aug 06 14:37	30°R€	4012115
desc. node	12539 Mar 11 00:01	26° <b>)</b> €16'44		inferior conj	12541 Aug 09 02:16	28° <b>Ω</b> 29'21	4°13'15
max. Earth dist.	12539 Mar 11 20:19	27° <b>) (</b> 19′30	1.72734 AU	minimum elong	12541 Aug 09 11:12	28°Ω15'40	4°10'06
				min. Earth dist.	12541 Aug 09 06:55	28° <b>£</b> 22′13	0.27000 AU
superior conj	12539 Mar 14 00:35	0° <b>Υ</b> 01'12		morning rise	12541 Aug 15 03:47	24° <b>Ω</b> 55'44	
minimum elong	12539 Mar 13 22:52	29° <b>¥</b> 55'55	0°07'11	desc. node	12541 Aug 25 21:29	21° <b>Ω</b> 02'18	
behind sun begin	12539 Mar 13 01:07	28° <b>)</b> 48′37		direct	12541 Aug 29 19:11	20° <b>Ω</b> 43'57	
behind sun end	12539 Mar 14 20:37	1° <b>Y</b> 03'14		greatest brilliancy	12541 Sep 08 19:49	22° <b>Ω</b> 35′19	-4.8m
	12539 Mar 14 00:12	0° <b>Υ</b>			12541 Sep 22 15:59	0° <b>m</b> )	
	12539 Apr 07 04:45	$0^{\circ}S$		morning max el	12541 Oct 18 11:28	22° <b>m</b> 03'15	46°18'58
evening rise	12539 Apr 21 18:48	18° <b>8</b> 08'18			12541 Oct 26 10:01	0∘ <b>⊽</b>	
	12539 May 01 07:18	$\Pi$ °0			12541 Nov 23 06:23	0° <b>M</b>	
	12539 May 25 08:43	0		asc. node	12541 Dec 16 21:25	27° <b>M</b> 00'35	
	12539 Jun 18 10:53	$0$ $^{\circ}$ $\Omega$			12541 Dec 19 10:59	0° <b>∡</b> ¹	
asc. node	12539 Jul 01 15:53	16° <b>Ω</b> 23'09			12542 Jan 13 19:50	ರ∘8	
	12539 Jul 12 16:26	0° <b>m</b>			12542 Feb 07 17:00	0° <b>≈</b>	
	12539 Aug 06 04:46	0∘ <b>ত</b>			12542 Mar 04 06:52	0° <b>∀</b>	
	12539 Aug 31 05:32	$0^{\circ}$ M			12542 Mar 28 15:44	$0^{\circ}$ Y	
	12539 Sep 26 06:47	0°⊀		desc. node	12542 Apr 07 14:10	12° <b>Y</b> 17'25	
desc. node	12539 Oct 21 14:19	26° <b>₹</b> 52'41		morning set	12542 Apr 16 05:24	23° <b>Y</b> ′00'07	
evening max el	12539 Oct 23 23:15	29° <b>∡</b> 12'55	46°05'47		12542 Apr 21 20:31	$0^{\circ}$ 8	
	12539 Oct 24 18:35	ರ°0			12542 May 15 21:43	$\Pi$ $\circ$ 0	
greatest brilliancy						_	
Breatest offinally	12539 Dec 02 03:08	28° <b>る</b> 01'36	-4.8m	max. Earth dist.	12542 May 23 10:49	9° <b>Ⅱ</b> 26'43	1.71629 AU
retrograde	12539 Dec 02 03:08 12539 Dec 12 05:18	28° <b>る</b> 01'36 29° <b>る</b> 52'11	-4.8m	max. Earth dist.	12542 May 23 10:49	9°Д26'43	1.71629 AU

superior conj	12542 May 26 04:27	12° <b>∏</b> 52'17	1°25'25	direct	12544 Nov 10 23:45	2°M56'12	
minimum elong	12542 May 25 23:24	12 <b>П</b> 3217 12° <b>П</b> 36'27		greatest brilliancy	12544 Nov 20 12:21	4°M35'39	4 9m
minimum elong	12542 Jun 08 20:21	12 <b>п</b> 3627	1 2015	greatest orimancy		4 11633 39 0° <b>√</b> 1	-4.6111
					12544 Dec 26 17:37		45044114
	12542 Jul 02 18:09	0°N		morning max el	12544 Dec 29 21:27	3° <b>₹</b> 00'02	45°44'14
evening rise	12542 Jul 05 08:23	3° <b>Ω</b> 15'07		asc. node	12545 Jan 13 08:37	17° <b>∡</b> ³34′09	
	12542 Jul 26 17:02	0° m)			12545 Jan 24 23:09	0°₹	
asc. node	12542 Jul 29 04:59	3° m 07'16			12545 Feb 20 12:21	0° <b>≈</b>	
	12542 Aug 19 18:48	0∘ <b>⊽</b>			12545 Mar 17 22:47	0° <b>)</b> €	
	12542 Sep 13 01:21	0° <b>M</b> .			12545 Apr 11 18:52	0°Υ	
	12542 Oct 07 15:46	0° <b>∡</b>		desc. node	12545 May 05 04:09	28° <b>Y</b> ′40′53	
	12542 Nov 01 19:27	0°ಕ			12545 May 06 05:47	0°B	
desc. node	12542 Nov 18 00:25	18° <b>る</b> 47'40			12545 May 30 10:14	0°Щ	
	12542 Nov 27 22:06	0° <b>≈</b>			12545 Jun 23 10:22	$0$ $\circ$	
	12542 Dec 25 22:22	0° <b>∀</b>		morning set	12545 Jun 30 06:32	8° <b>5</b> 34'17	
evening max el	12543 Jan 02 23:23	7° <b>¥</b> 55'51	45°52'48		12545 Jul 17 08:29	$0$ $\circ$ $\Omega$	
	12543 Jan 29 13:59	0° <b>Υ</b>				_	
greatest brilliancy	12543 Feb 11 02:09	6° <b>Y</b> 21′29	-4.8m	superior conj	12545 Aug 09 02:20	28° <b>Ω</b> 31′28	
retrograde	12543 Feb 20 23:01	8° <b>Y</b> '08'53		minimum elong	12545 Aug 09 11:29	29° <b>Ω</b> 00'11	0°39'27
evening set	12543 Mar 07 17:41	3° <b>Y</b> 52'50			12545 Aug 10 06:35	0° <b>m</b> )	
asc. node	12543 Mar 11 02:12	1° <b>Y</b> ′56'57		max. Earth dist.	12545 Aug 10 19:57		1.71562 AU
inferior conj	12543 Mar 14 01:46	0° <b>Y</b> ′06′37	0°44'50	asc. node	12545 Aug 25 18:48	19° <b>m</b> 25'02	
minimum elong	12543 Mar 14 00:03	0° <b>Ƴ</b> 09'16	0°44'23		12545 Sep 03 06:03	0∘ <b>ত</b>	
	12543 Mar 14 06:00	30°Ŗ <b>ℋ</b>		evening rise	12545 Sep 17 11:23	17° <b>≏</b> 44'34	
min. Earth dist.	12543 Mar 14 08:55	29° <b>¥</b> 55′27	0.28065 AU		12545 Sep 27 07:49	0° <b>M</b> ₊	
morning rise	12543 Mar 20 05:53	26° <b>)</b> € 24′27			12545 Oct 21 13:09	0° <b>∡</b> ¹	
direct	12543 Apr 04 04:50	21° <b>¥</b> 58'36			12545 Nov 15 00:02	0° <b>ප</b>	
greatest brilliancy	12543 Apr 14 21:55	24° <b>∺</b> 06′20	-4.8m		12545 Dec 09 19:06	0° <b>≈</b>	
	12543 Apr 26 02:45	$0^{\circ}$ Y		desc. node	12545 Dec 15 11:48	6° <b>≈</b> 49'16	
morning max el	12543 May 24 08:04	24° <b>Y</b> 10'17	46°40'52		12546 Jan 04 01:18	0° <b>)</b> €	
	12543 May 30 01:32	0°8			12546 Jan 29 23:08	$0^{\circ}\mathbf{\Upsilon}$	
	12543 Jun 26 09:49	$\Pi$ $^{\circ}0$			12546 Feb 26 00:51	0°8	
desc. node	12543 Jul 01 03:13	5° <b>Ⅱ</b> 26'11		evening max el	12546 Mar 15 17:24	18° <b>8</b> 12'59	46°15'04
	12543 Jul 22 00:17	$0$ $\circ$ 20			12546 Mar 28 09:05	$\Pi^{\circ}0$	
	12543 Aug 15 21:07	$0^{\circ}\Omega$		asc. node	12546 Apr 07 11:34	8° <b>Ⅱ</b> 11'53	
	12543 Sep 09 10:15	0° <b>m</b> y		greatest brilliancy	12546 Apr 24 16:13	17° <b>Ⅲ</b> 55'57	-4.8m
	12543 Oct 03 20:13	0∘ <b>⊽</b>		retrograde	12546 May 04 09:15	19° <b>Ⅱ</b> 41'13	
asc. node	12543 Oct 21 21:18	22° <b>₽</b> 13'34		evening set	12546 May 21 23:34	13° <b>Ⅱ</b> 44'52	
	12543 Oct 28 04:36	0°M		inferior conj	12546 May 25 02:38	11° <b>Ⅱ</b> 49'39	8°55'33
	12543 Nov 21 11:53	0° <b>∡</b> ″		minimum elong	12546 May 24 21:17	11° <b>Ⅱ</b> 57'57	8°54'17
morning set	12543 Nov 25 03:53	4° <b>∡</b> ′31'43		min. Earth dist.	12546 May 25 05:39	11° <b>Ⅱ</b> 44'57	0.27486 AU
S	12543 Dec 15 18:39	5°0		morning rise	12546 May 27 18:59	10° <b>Ⅱ</b> 10'32	
				direct	12546 Jun 14 23:54	3° <b>Ⅱ</b> 52'45	
superior conj	12543 Dec 31 22:39	19° <b>る</b> 57'50	1°18'12	greatest brilliancy	12546 Jun 24 19:51	5° <b>Ⅱ</b> 42'33	-4.9m
minimum elong	12544 Jan 01 06:07	20° <b>る</b> 20'50	1°18'57	desc. node	12546 Jul 28 13:50	29° <b>Ⅱ</b> 56'42	
max. Earth dist.	12544 Jan 01 18:48	20° <b>る</b> 59'59	1.73168 AU		12546 Jul 28 15:13	0°©	
	12544 Jan 09 01:51	0° <b>≈</b>		morning max el	12546 Aug 04 12:05	6° <b>©</b> 44'12	46°56'37
	12544 Feb 02 10:05	0° <b>)</b> €			12546 Aug 26 09:26	0°N	
evening rise	12544 Feb 07 09:38	6° <b>)</b> €07'58			12546 Sep 21 16:49	0° m)	
desc. node	12544 Feb 10 11:45	9° <b>)</b> €56'00			12546 Oct 17 03:15	0∘ <del>⊽</del>	
	12544 Feb 26 19:12	0°Υ			12546 Nov 11 03:27	0°M	
	12544 Mar 22 04:30	0°8		asc. node	12546 Nov 18 10:53	8° <b>™</b> 50'04	
	12544 Apr 15 13:59	0°II		uov. nouv	12546 Dec 05 21:07	0° <b>⊼</b> 7	
	12544 May 10 01:23	0°©			12546 Dec 30 10:07	°ੁਠ	
asc. node	12544 Jun 02 05:54	28° <b>©</b> 09'04			12547 Jan 23 20:04	0° <b>≈</b>	
ase. Hode	12544 Jun 03 18:45	0°Ω		morning set	12547 Feb 01 21:27	11° <b>≈</b> 09'31	
	12544 Jun 29 01:25	0° m)		morning sec	12547 Feb 17 04:07	0° <b>∀</b>	
	12544 Jul 25 13:12	0∘ <del>ت</del> مار		max. Earth dist.	12547 Mar 09 11:27	25° <b>∺</b> 05'36	1.72771 AU
evening max el	12544 Aug 10 09:39	0 <u>—</u> 16° <u>Ф</u> 38'17	46°39'22	desc. node	12547 Mar 10 01:47	25° <b>)</b> (49'55	1.72771710
evening max er	12544 Aug 24 13:34	0°M	40 39 22	desc. flode	1234/ Wai 10 01.4/	23 7(4933	
greatest brilliancy	12544 Sep 18 13:36	16°M44'48	-4.8m	superior conj	12547 Mar 11 15:35	27° <b>)</b> 46′50	-0°03'51
desc. node	12544 Sep 18 15.36 12544 Sep 22 06:48	17°M58'59	T.0111	minimum elong	12547 Mar 11 13.33 12547 Mar 11 14:42	27° <del>X</del> 44'06	
retrograde	12544 Sep 22 06:48 12544 Sep 29 15:48	17°1163839		behind sun begin	12547 Mar 11 14:42 12547 Mar 10 15:12	26° <b>)</b> € 31'24	0 0340
evening set	12544 Sep 29 15:48 12544 Oct 15 12:55	14°M06'30		behind sun begin	12547 Mar 10 15:12 12547 Mar 12 14:13	28° <b>H</b> 56'49	
min. Earth dist.			0.28112 AU	ocimia sun ena		28°π36'49 0° <b>Υ</b>	
inferior conj	12544 Oct 19 23:44 12544 Oct 20 21:16	11°M26'44 10°M53'29			12547 Mar 13 10:38 12547 Apr 06 15:18	0° <b>8</b>	
·		10°11633'29 11°11609'44		avaning rise	•	15° <b>8</b> 48'31	
minimum elong	12544 Oct 20 10:45	11 II609'44	0 23 21	evening rise	12547 Apr 19 08:30		
morning rise	12544 Oct 25 09:07	8°M10'56			12547 Apr 30 18:00	$\Pi$ $^{\circ}$ 0	

	12547 May 24 19:36	0°ಲ		asc. node	12549 Dec 15 23:21	26°M28'18	
	12547 Jun 17 22:01	$0^{\circ}\Omega$			12549 Dec 18 23:51	0° <b>∡</b> ¹	
asc. node	12547 Jun 30 17:51	15° <b>Ω</b> 54'15			12550 Jan 13 07:38	9°5	
	12547 Jul 12 03:56	0° m			12550 Feb 07 04:11	0° <b>≈</b>	
	12547 Aug 05 16:53	0∘ <b>⊽</b>			12550 Mar 03 17:43	0° <b>)</b> €	
	12547 Aug 05 10:55 12547 Aug 30 18:46	0° <b>M</b>			12550 Mar 28 02:26	0° <b>Υ</b>	
	•						
	12547 Sep 25 22:20	0° <b>∡</b>		desc. node	12550 Apr 06 16:05	11°Υ50'23	
desc. node	12547 Oct 20 16:20	26° <b>≯</b> 05'42		morning set	12550 Apr 13 18:45	20° <b>Ƴ</b> 39'29	
evening max el	12547 Oct 21 13:36	26° <b>₹</b> 57'52	46°06'51		12550 Apr 21 07:10	$9^{\circ}$ 8	
	12547 Oct 24 17:00	0°る			12550 May 15 08:23	$\Pi$ $\circ 0$	
greatest brilliancy	12547 Nov 29 19:11	25° <b>る</b> 52'25	-4.8m	max. Earth dist.	12550 May 20 23:35	7° <b>Ⅱ</b> 03'00	1.71664 AU
retrograde	12547 Dec 09 20:46	27° <b>る</b> 42'57					
evening set	12547 Dec 27 19:09	21° <b>ප්</b> 40'49		superior conj	12550 May 23 16:44	10° <b>Ⅱ</b> 26′56	-1°24'31
inferior conj	12547 Dec 31 09:01	19° <b>る</b> 27'25	-8°00'31	minimum elong	12550 May 23 10:46	10° <b>Ⅱ</b> 08'15	1°25'16
minimum elong	12547 Dec 31 16:49		7°58'39		12550 Jun 08 07:04	0ంల	
min. Earth dist.	12547 Dec 31 14:14	19° <b>ろ</b> 19'12			12550 Jul 02 04:57	$0 {\circ} \Omega$	
		16°る50'41	0.20743 AU	avanina riaa		0° <b>Ω</b> 46'08	
morning rise	12548 Jan 04 14:27			evening rise	12550 Jul 02 19:40		
direct	12548 Jan 21 19:12	11°る13'20			12550 Jul 26 03:58	0° <b>m</b> )	
greatest brilliancy	12548 Feb 01 10:08	13° <b>る</b> 16'22	-4.8m	asc. node	12550 Jul 28 06:45	2° Mp 38'39	
asc. node	12548 Feb 10 18:36	17° <b>る</b> 54'01			12550 Aug 19 05:54	0∘ <b>⊽</b>	
	12548 Feb 27 00:01	0° <b>≈</b>			12550 Sep 12 12:44	0° <b>M</b> ₊	
morning max el	12548 Mar 11 00:36	12° <b>≈</b> 02'14	45°55'49		12550 Oct 07 03:38	0° <b>⊼</b> ¹	
	12548 Mar 28 10:16	0° <b>∀</b>			12550 Nov 01 08:16	0° <b>ප</b>	
	12548 Apr 24 04:10	$0^{\circ}\mathbf{\Upsilon}$		desc. node	12550 Nov 17 02:29	18° <b>る</b> 13'55	
	12548 May 19 14:05	0°8			12550 Nov 27 12:55	0° <b>≈</b>	
desc. node	12548 Jun 01 17:18	15° <b>8</b> 51'21			12550 Dec 25 18:19	0° <b>)</b> €	
dese. Hode	12548 Jun 13 07:31	0° <b>I</b>		evening max el	12550 Dec 31 15:10	5° <b>)</b> 44'55	45°52'47
		0°©		evening max er		3 <b>Λ</b> 44 33	43 3247
	12548 Jul 07 15:34				12551 Jan 30 20:22		4.0
	12548 Jul 31 18:46	$0$ $\circ$ $\Omega$		greatest brilliancy	12551 Feb 08 16:30	4° <b>Y</b> 06'57	-4.8m
	12548 Aug 24 20:18	0° <b>m</b>		retrograde	12551 Feb 18 14:24	5° <b>Y</b> 54'47	
morning set	12548 Sep 12 00:48	22° Mp 40'24		evening set	12551 Mar 05 09:19	1° <b>Ƴ</b> 37'43	
	12548 Sep 17 21:57	0∘ <b>⊽</b>			12551 Mar 08 05:33	30° <b>Ŗ</b> ₩	
asc. node	12548 Sep 22 08:59	5° <b>₽</b> 33'13		asc. node	12551 Mar 10 04:10	28° <b>)</b> 48′59	
	12548 Oct 12 00:29	0° <b>M</b> .		inferior conj	12551 Mar 11 16:52	27° <b>¥</b> 51′56	0°22'59
				minimum elong	12551 Mar 11 15:59	27° <b>¥</b> 53'18	0°22'49
superior conj	12548 Oct 20 12:45	10°M34'41	1°01'30	min. Earth dist.	12551 Mar 12 00:13	27° <b>)</b> 40′28	0.28094 AU
minimum elong	12548 Oct 20 02:36	10°ML03'10	1°01'40	morning rise	12551 Mar 17 22:13	24° <b>)</b> €08'18	
max. Earth dist.	12548 Oct 22 16:24		1.72509 AU	direct	12551 Apr 01 20:43	19° <b>)</b> 43'38	
max. Earth dist.			1.72309 AU				4.0
	12548 Nov 05 04:21	0° <b>∡</b> 7		greatest brilliancy	12551 Apr 12 13:30	21° <b>)</b> 51'31	-4.8m
evening rise	12548 Nov 26 15:26	26° <b>₹</b> 33'16			12551 Apr 27 00:53	0° <b>Υ</b>	
	12548 Nov 29 10:27	0°₹		morning max el	12551 May 22 00:02	21° <b>Y</b> 56'02	46°39'25
	12548 Dec 23 19:58	0° <b>≈</b>			12551 May 29 21:10	$9^{\circ}$ 8	
desc. node	12549 Jan 12 00:12	23° <b>≈</b> 25'42			12551 Jun 26 00:51	$\Pi$ °0	
	12549 Jan 17 09:48	0° <b>∀</b>		desc. node	12551 Jun 30 05:12	4° <b>Ⅱ</b> 49'36	
	12549 Feb 11 04:07	$0^{\circ}$ $\Upsilon$			12551 Jul 21 13:29	$0$ $\circ$ $\odot$	
	12549 Mar 08 03:22	$8^{\circ}$ 0			12551 Aug 15 09:23	$0^{\circ}\Omega$	
	12549 Apr 02 10:24	$\Pi^{\circ}0$			12551 Sep 08 21:56	0° m	
	12549 Apr 28 10:26	0ಂತ			12551 Oct 03 07:29	0∘ <del>⊽</del>	
asc. node	12549 May 04 21:14	7°912'47		asc. node	12551 Oct 20 23:17	21° <b>≏</b> 45'46	
uoe. noue	12549 May 26 06:59	0° <b>Ω</b>		use. noue	12551 Oct 27 15:33	0°M	
avaning may al	12549 May 27 15:22	1° <b>Ω</b> 21'21	46°44'59		12551 Nov 20 22:37	0° <b>⊼</b> ¹	
evening max el			40 44 39				
	12549 Jul 02 07:47	0° m/	4.0	morning set	12551 Nov 22 20:13	2° <b>∡</b> <sup>7</sup> 20'52	
greatest brilliancy	12549 Jul 06 23:56	2° m/00'00	-4.9m		12551 Dec 15 05:16	0°₹	
retrograde	12549 Jul 16 21:46	3° Mp 51'17					
	12549 Jul 30 21:05	$30^\circ$ R $\Omega$		superior conj	12551 Dec 29 15:33	17° <b>る</b> 49'04	1°19'32
evening set	12549 Aug 01 10:24	29° <b>Ω</b> 09'49		minimum elong	12551 Dec 29 22:29	18° <b>る</b> 10'29	1°20'19
inferior conj	12549 Aug 06 15:05	26° <b>Ω</b> 05′15	4°34'44	max. Earth dist.	12551 Dec 30 15:48	19° <b>ට</b> 03'55	1.73160 AU
minimum elong	12549 Aug 07 00:34	25° <b>Ω</b> 50'44	4°31'26		12552 Jan 08 12:27	0° <b>≈</b>	
min. Earth dist.	12549 Aug 06 20:55	25° <b>Ω</b> 56'19	0.27000 AU		12552 Feb 01 20:48	0° <b>∀</b>	
morning rise	12549 Aug 12 14:42	22° <b>Ω</b> 34'20		evening rise	12552 Feb 05 01:42	3° <b>¥</b> 56'41	
desc. node	12549 Aug 24 23:23	18° <b>Ω</b> 25'58		desc. node	12552 Feb 09 13:32	9° <b>∺</b> 28′26	
direct	12549 Aug 27 07:28	18° <b>Ω</b> 19'23			12552 Feb 26 06:04	0° <b>Υ</b>	
greatest brilliancy	12549 Aug 27 07.28 12549 Sep 06 09:23	20°Ω12'04	1 8m		12552 Mar 21 15:36	0°8	
greatest of inflaticy	-		- <del></del> .0111				
	12549 Sep 23 13:07	0° M)	46020141		12552 Apr 15 01:26	0°Ⅱ	
morning max el	12549 Oct 16 01:34	19° <b>m</b> 44'13	46~20'41	_	12552 May 09 13:23	0°©	
	12549 Oct 26 05:56	0∘ <b>ত</b>		asc. node	12552 Jun 01 07:55	27°536'32	
	12549 Nov 22 21:21	0°M₊			12552 Jun 03 07:39	$0$ $^{\circ}\Omega$	

evening set	12557 Jul 30 02:17	26° <b>Ω</b> 40'07			12559 Dec 14 15:54	8°0	
inferior conj	12557 Aug 04 03:50	23°Ω40'05	4°55'42		12337 BCC 14 13.54	ů O	
minimum elong	12557 Aug 04 13:50	23° <b>Ω</b> 24'50	4°52'18	superior conj	12559 Dec 27 08:38	15° <b>ප්</b> 40'51	1°20'45
min. Earth dist.	12557 Aug 04 10:30	23° <b>£</b> 29'55	0.27002 AU	minimum elong	12559 Dec 27 15:00	16° <b>පි</b> 00'31	1°21'33
morning rise	12557 Aug 10 01:20	20° <b>£</b> 12′20		max. Earth dist.	12559 Dec 28 12:06	17° <b>る</b> 05'36	1.73148 AU
desc. node	12557 Aug 24 01:29	15° <b>Ω</b> 54'34			12560 Jan 07 23:05	0° <b>≈</b>	
direct	12557 Aug 24 20:18	15° <b>Ω</b> 53'50			12560 Feb 01 07:30	0° <b>)</b> €	
greatest brilliancy	12557 Sep 03 22:23	17° <b>Ω</b> 47'14	-4.8m	evening rise	12560 Feb 02 17:50	1° <b>)</b> 45′39	
	12557 Sep 24 05:11	0° <b>m</b> )		desc. node	12560 Feb 08 15:28	9° <b>∺</b> 01'19	
morning max el	12557 Oct 13 16:29	17° <b>m</b> 26'26	46°22'26		12560 Feb 25 16:58	$0^{\circ}\Upsilon$	
	12557 Oct 26 01:29	0∘ <b>亚</b>			12560 Mar 21 02:46	$9^{\circ}$ 8	
	12557 Nov 22 12:18	0°M₊			12560 Apr 14 13:00	$\Pi$ °0	
asc. node	12557 Dec 15 01:14	25°M55'24			12560 May 09 01:32	$0$ $\circ$	
	12557 Dec 18 12:50	0° <b>∡</b> ¹		asc. node	12560 May 31 09:44	27° <b>©</b> 02'58	
	12558 Jan 12 19:35	0°ಕ			12560 Jun 02 20:43	$0$ $\circ$ $\Omega$	
	12558 Feb 06 15:35	0° <b>≈</b>			12560 Jun 28 06:39	0° <b>m</b> )	
	12558 Mar 03 04:50	0° <b>)</b> €			12560 Jul 25 01:46	0∘ <b>⊽</b>	
	12558 Mar 27 13:25	0° <b>Υ</b>		evening max el	12560 Aug 05 16:45	12° <b>≏</b> 04'28	46°40'53
desc. node	12558 Apr 05 18:02	11° <b>Y</b> ′22'32			12560 Aug 25 07:01	0°M	
morning set	12558 Apr 11 07:53	18° <b>Y</b> 17′24		greatest brilliancy	12560 Sep 13 20:03	12°M10'16	-4.8m
	12558 Apr 20 18:05	0° <b>B</b>		desc. node	12560 Sep 20 10:55	14°M02'40	
	12558 May 14 19:17	0° <b>Ц</b>	1.71604 ATT	retrograde	12560 Sep 24 21:57	14°M25'44	
max. Earth dist.	12558 May 18 11:56	4°Д3/18	1.71694 AU	evening set min. Earth dist.	12560 Oct 10 12:20	9°M41'06 6°M53'17	0.27995 AU
superior conj	12558 May 21 04:43	8° <b>Ⅱ</b> 00'02	1023125	inferior conj	12560 Oct 15 04:42 12560 Oct 16 02:15	6°M19'55	
minimum elong	12558 May 20 21:53	7° <b>П</b> 38'39		minimum elong	12560 Oct 15 02:15	6°M36'02	
minimum clong	12558 Jun 07 17:59	0°95	1 2409	morning rise	12560 Oct 15 15:50 12560 Oct 20 19:58	3°M28'55	3 32 08
evening rise	12558 Jun 30 06:49	28°9516'10		morning risc	12560 Oct 28 05:27	30°R <u>Ω</u>	
evening rise	12558 Jul 01 15:56	0°Ω		direct	12560 Nov 06 04:39	28° <b>≏</b> 24'42	
	12558 Jul 25 15:05	0° <b>m</b> )		greatest brilliancy	12560 Nov 15 15:11	0°M02'24	-4.8m
asc. node	12558 Jul 27 08:39	2° Mp 09'49		greatest orimaney	12560 Nov 15 12:17	0°M	1.0111
ase. noue	12558 Aug 18 17:12	0∘ <del>⊽</del>		morning max el	12560 Dec 25 01:34	28°M28'17	45°45'17
	12558 Sep 12 00:19	0° <b>M</b> .			12560 Dec 26 15:31	0° <b>⊼</b>	
	12558 Oct 06 15:43	0° <b>∡</b> ¹		asc. node	12561 Jan 11 12:29	16° <b>∡</b> 10′26	
	12558 Oct 31 21:19	ರ°0			12561 Jan 24 06:37	ರ°0	
desc. node	12558 Nov 16 04:24	17° <b>පි</b> 39'10			12561 Feb 19 14:53	0° <b>≈</b>	
	12558 Nov 27 04:03	0° <b>≈</b>			12561 Mar 16 23:02	0° <b>)</b>	
	12558 Dec 25 15:05	0° <b>)</b> €			12561 Apr 10 17:55	$0^{\circ}$ Y	
evening max el	12558 Dec 29 07:16	3° <b>¥</b> 34′21	45°52'37	desc. node	12561 May 03 07:54	27° <b>Y</b> ′43'21	
	12559 Feb 01 17:44	$0^{\circ}$ Y			12561 May 05 04:10	$0^{\circ}$ 8	
greatest brilliancy	12559 Feb 06 06:56	1° <b>Y</b> 52'01	-4.8m		12561 May 29 08:14	$\Pi$ $^{\circ}0$	
retrograde	12559 Feb 16 05:17	3° <b>Ƴ</b> 39'45			12561 Jun 22 08:09	$0$ $\circ$ $50$	
	12559 Mar 01 20:07	30° <b>₹</b> ₩		morning set	12561 Jun 25 05:59	3° <b>©</b> 38'48	
evening set	12559 Mar 03 01:02	29° <b>∺</b> 21'41			12561 Jul 16 06:09	$0$ $\circ$ $\Omega$	
inferior conj	12559 Mar 09 07:51	25° <b>)</b> 36′26	0°01'00				
minimum elong	12559 Mar 09 07:49	25° <b>¥</b> 36'30	0°01'09	superior conj	12561 Aug 04 02:56	23° <b>Ω</b> 40′09	
transit middle	12559 Mar 09 07:49	25° <b>∺</b> 36'30	0°01'09	minimum elong	12561 Aug 04 13:11	24°Ω12'17	
transit begin	12559 Mar 09 03:46	25°\(\frac{1}{42}\)49		max. Earth dist.	12561 Aug 05 17:05	25° <b>Ω</b> 39'43	1.71514 AU
transit end	12559 Mar 09 11:51	25° <b>¥</b> 30′12		1	12561 Aug 09 04:09	0° M)	
asc. node	12559 Mar 09 06:16	25° <b> ∺</b> 38'55 25° <b> ∺</b> 24'33	0.20126 ATT	asc. node	12561 Aug 23 22:33	18° <b>™</b> 29'25 0° <b>₽</b>	
min. Earth dist. morning rise	12559 Mar 09 15:29 12559 Mar 15 14:13	23 <b>K</b> 24 33 21° <b>H</b> 51'23	0.28126 AU	evening rise	12561 Sep 02 03:36 12561 Sep 12 15:47	0 <u>≈</u> 13° <b>Ω</b> 06'36	
direct	12559 Mar 30 12:40	17°\(\frac{1}{27}\)'56		evening rise	12561 Sep 26 05:28	0° <b>™</b>	
greatest brilliancy	12559 Apr 10 04:56	19° <b>X</b> 35'34	-4 8m		12561 Oct 20 11:06	0° <b>⊼</b> ¹	
greatest offinality	12559 Apr 10 04:30 12559 Apr 27 17:39	0° <b>Υ</b>	- <del>4</del> .0111		12561 Nov 13 22:34	%ਰ	
morning max el	12559 May 19 15:20	19° <b>Ƴ</b> 39'24	46°37'54		12561 Dec 08 18:39	0° <b>≈</b>	
morning man vi	12559 May 29 16:29	0°8		desc. node	12561 Dec 13 15:33	5° <b>≈</b> 49'15	
	12559 Jun 25 15:52	0°II			12562 Jan 03 02:38	0° <b>∀</b>	
desc. node	12559 Jun 29 07:06	4° <b>Ⅱ</b> 12'34			12562 Jan 29 03:51	0° <b>Υ</b>	
	12559 Jul 21 02:42	0ంత			12562 Feb 25 13:08	0°8	
	12559 Aug 14 21:38	0°N		evening max el	12562 Mar 10 20:00	13° <b>8</b> 31'13	46°12'41
	12559 Sep 08 09:37	0° <b>m</b> )		-	12562 Mar 29 02:11	0°II	
	12559 Oct 02 18:45	0∘ <b>⊽</b>		asc. node	12562 Apr 05 15:35	5° <b>Ⅱ</b> 39'43	
asc. node	12559 Oct 20 01:07	21° <b>≏</b> 17'23		greatest brilliancy	12562 Apr 19 19:20	13° <b>Ⅱ</b> 12'54	-4.8m
	12559 Oct 27 02:31	0° <b>M</b> ₊		retrograde	12562 Apr 29 10:51	14° <b>Ⅱ</b> 57'28	
	12559 Nov 20 09:22	0° <b>∡</b> ¹		evening set	12562 May 16 18:47	9° <b>Ⅱ</b> 12'47	
morning set	12559 Nov 20 12:38	0° <b>∡</b> 10′06		inferior conj	12562 May 20 05:55	7° <b>Ⅱ</b> 05'35	8°41'55

minimum elong min. Earth dist.	12562 May 19 22:59 12562 May 20 08:46	7° <b>П</b> 16'21 7° <b>П</b> 01'09	8°40'24 0.27521 AU	minimum elong max. Earth dist.	12564 Oct 15 09:48 12564 Oct 17 21:45	5°M35'54 8°M42'11	0°56'32 1.72445 AU
morning rise	12562 May 23 03:06 12562 Jun 03 13:43 12562 Jun 10 02:26	5°用18'55 30°R <b>と</b> 29° <b>と</b> 07'37		evening rise	12564 Nov 04 01:33 12564 Nov 22 00:32 12564 Nov 28 07:43	0°♂ 22°♂13'34 0°♂	
greatest brilliancy desc. node	12562 Jun 16 20:04 12562 Jun 20 01:01 12562 Jul 26 17:46	0°П 0°П58'55 28°П06'01	-4.9m	desc. node	12564 Dec 22 17:34 12565 Jan 10 03:58 12565 Jan 16 08:02	0° <b>≈</b> 22° <b>≈</b> 29'56 0° <b>¥</b>	
morning max el	12562 Jul 28 16:04 12562 Jul 30 13:50	0°ତ 1°©54'19	46°57'31		12565 Feb 10 03:22 12565 Mar 07 04:10	0₀ <b>႙</b> 0₀ <b>႓</b>	
	12562 Aug 25 18:48 12562 Sep 20 20:44 12562 Oct 16 04:21	0∘ <b>ⴀ</b> 0∘₥ 0∘ଫ		asc. node	12565 Apr 01 13:45 12565 Apr 27 18:48 12565 May 03 01:10	0°Ⅱ 0°© 5°©49'17	
asc. node	12562 Nov 10 02:54 12562 Nov 16 14:35 12562 Dec 04 19:33	0°ጤ 7°ጤ51'15 0° <i>ኣ</i>		evening max el greatest brilliancy	12565 May 22 18:45 12565 May 26 05:05 12565 Jul 02 02:54	26°€36'52 0°\$\Omega\$ 27°\$\Omega\$11'45	46°43'56 -4.9m
	12562 Dec 29 07:56 12563 Jan 22 17:30	0°ठ %°		retrograde evening set	12565 Jul 12 00:50 12565 Jul 27 18:25	29° <b>Ω</b> 02'53 24° <b>Ω</b> 12'17	
morning set max. Earth dist.	12563 Jan 28 06:55 12563 Feb 16 01:24 12563 Mar 04 21:40	6°≈50'59 0°¥ 20°¥48'43	1.72834 AU	inferior conj minimum elong min. Earth dist.	12565 Aug 01 16:43 12565 Aug 02 03:07 12565 Aug 01 23:49	$21^{\circ}\Omega 16'41$ $21^{\circ}\Omega 00'49$ $21^{\circ}\Omega 05'51$	5°15'54 5°12'27 0.27006 AU
superior conj	12563 Mar 06 21:36	23° <b>)</b> 16'54	0°03'16	morning rise direct	12565 Aug 07 11:50 12565 Aug 22 09:46	17° <b>Ω</b> 52'24 13° <b>Ω</b> 30'16	
minimum elong behind sun begin behind sun end	12563 Mar 06 22:24 12563 Mar 05 22:54 12563 Mar 07 21:54	23°¥19'24 22°¥06'44 24°¥32'03	0°03'25	desc. node greatest brilliancy	12565 Aug 23 03:29 12565 Sep 01 10:58 12565 Sep 24 16:32	$13^{\circ} \Omega 30'55$ $15^{\circ} \Omega 23'32$ $0^{\circ} \mathbb{N}$	-4.9m
desc. node	12563 Mar 08 05:35 12563 Mar 12 07:56	24°¥55'48 0° <b>Y</b> 0° <b>∀</b>		morning max el	12565 Oct 11 07:31 12565 Oct 25 20:04	15° Mp 10'10 0° <u>മ</u> 0° NL	46°23'56
evening rise	12563 Apr 05 12:46 12563 Apr 14 12:35 12563 Apr 29 15:46	11° <b>8</b> 10'15 0° <b>П</b>		asc. node	12565 Nov 22 02:43 12565 Dec 14 03:12 12565 Dec 18 01:24	25°M23'54 0°⊀	
asc. node	12563 May 23 17:45 12563 Jun 16 20:42 12563 Jun 28 21:35	0°© 0°Ω 14°Ω54'28			12566 Jan 12 07:09 12566 Feb 06 02:36 12566 Mar 02 15:33	0°ಕ 0°≈ 0°¥	
use. Houe	12563 Jul 11 03:25 12563 Aug 04 17:41	0 <b>ಂರ</b> 0 <b>ಂಗು</b>		desc. node	12566 Mar 27 00:00 12566 Apr 04 19:44	0° <b>Υ</b> 10° <b>Υ</b> 55'06	
evening max el	12563 Aug 29 21:57 12563 Sep 25 06:41 12563 Oct 16 17:54	0°M₁ 0°♐ 22°♐25'16	46°08'59	morning set	12566 Apr 08 21:12 12566 Apr 20 04:38 12566 May 14 05:49	15° <b>Y</b> 57'08 0° <b>と</b> 0°耳	
desc. node	12563 Oct 18 20:18 12563 Oct 24 17:43	24° <b>メ</b> 27'45 0°る	4.0	max. Earth dist.	12566 May 15 21:46		1.71724 AU
greatest brilliancy retrograde evening set	12563 Nov 25 01:06 12563 Dec 05 04:22 12563 Dec 23 07:19	21°る29'14 23°る22'06 17°る12'29	-4.8m	superior conj minimum elong	12566 May 18 16:57 12566 May 18 09:20 12566 Jun 07 04:33	5°Ⅲ35'03 5°Ⅲ11'14 0°©	
inferior conj minimum elong min. Earth dist.	12563 Dec 26 16:59 12563 Dec 26 23:38 12563 Dec 26 20:41	15°る05'52 14°る55'24 15°る00'03	-8°15'43 8°14'08 0.28963 AU	evening rise	12566 Jun 27 18:11 12566 Jul 01 02:34 12566 Jul 25 01:48	25°\$48'03 0° <b>Ω</b> 0° <b>™</b>	
morning rise direct	12563 Dec 30 15:56 12564 Jan 17 02:10	12°る39'05 6°る51'40		asc. node	12566 Jul 26 10:35 12566 Aug 18 04:05	1° <b>m</b> 42'23 0° <b>Ω</b>	
greatest brilliancy asc. node	12564 Jan 27 17:27 12564 Feb 08 22:42 12564 Feb 27 06:35	8°♂54'40 15°♂19'56 0°≈	-4.7m		12566 Sep 11 11:30 12566 Oct 06 03:28 12566 Oct 31 10:08	0°M 0°ダ 0°る	
morning max el	12564 Mar 06 07:34 12564 Mar 27 19:49	7°≈36'10 0°¥ 0°Υ	45°53'42	desc. node	12566 Nov 15 06:17 12566 Nov 26 19:06 12566 Dec 25 12:15	17° <b>ප්</b> 05'05 0°≈ 0° <b>ਮ</b>	
desc. node	12564 Apr 23 07:45 12564 May 18 15:01 12564 May 30 21:02 12564 Jun 12 07:03	0°8 14°849'28 0°用		evening max el greatest brilliancy	12566 Dec 26 23:09 12567 Feb 03 22:07 12567 Feb 04 23:24	1° <b>ℋ</b> 24'11 29° <b>ℋ</b> 39'14 0° <b>Ƴ</b>	45°52'32 -4.8m
	12564 Jul 06 14:16 12564 Jul 30 16:55	$0$ ಂ ${\cal U}$		retrograde	12567 Feb 13 19:56 12567 Feb 22 07:22	1° <b>Υ</b> 26'12 30° <b>Ŗℋ</b>	
morning set	12564 Aug 23 18:03 12564 Sep 07 04:46 12564 Sep 16 19:25	0° Mg 18° Mg 01'07 0° <u>Ω</u>		evening set inferior conj minimum elong	12567 Feb 28 17:08 12567 Mar 06 23:03 12567 Mar 06 23:49	27°¥07'02 23°¥22'35 23°¥21'22	
asc. node	12564 Sep 20 12:46 12564 Oct 10 21:45	4° <b>£</b> 38′20 0° <b>M</b>		min. Earth dist.	12567 Mar 07 07:07 12567 Mar 08 08:11	23°\cdot\09'58 22°\cdot\30'52 19°\cdot\36'09	0.28157 AU
superior conj	12564 Oct 15 19:53	6° <b>™</b> 07'16	0°56'27	morning rise direct	12567 Mar 13 06:10 12567 Mar 28 04:28	19° <b>X</b> 36′09 15° <b>X</b> 13′57	

greatest brilliancy	12567 Apr 07 20:41	17° <b>∺</b> 21'19	1 9m		12569 Oct 19 22:00	0° <b>∡</b> ¹	
greatest offinancy	12567 Apr 07 20.41 12567 Apr 28 05:32	17 <b>γ</b> (2119	-4.0111		12569 Nov 13 09:45	0°る	
morning max el	12567 May 17 05:46	17° <b>Υ</b> 21'40	46°36'18		12569 Dec 08 06:22	0°≈	
morning max er		0° <b>8</b>	40 30 18	desc. node		0 ≈ 5°≈19'55	
	12567 May 29 10:53			desc. node	12569 Dec 12 17:34		
	12567 Jun 25 06:21	0°II			12570 Jan 02 15:19	0° <b>)</b> €	
desc. node	12567 Jun 28 09:04	3° <b>Ⅱ</b> 37'00			12570 Jan 28 18:24	0° <b>Υ</b>	
	12567 Jul 20 15:31	0°©			12570 Feb 25 07:59	0° <b>8</b>	
	12567 Aug 14 09:33	0° <b>N</b>		evening max el	12570 Mar 08 09:07	11° <b>8</b> 10'10	46°11'32
	12567 Sep 07 20:57	0° <b>m</b>			12570 Mar 29 15:34	0°Щ	
	12567 Oct 02 05:41	0∘ <b>ত</b>		asc. node	12570 Apr 04 17:33	4° <b>Ⅱ</b> 19'57	
asc. node	12567 Oct 19 02:54	20° <b>≏</b> 49'51		greatest brilliancy	12570 Apr 17 08:15	10° <b>Ⅲ</b> 50'41	-4.8m
	12567 Oct 26 13:10	0° <b>™</b>		retrograde	12570 Apr 27 00:06	12° <b>Ⅲ</b> 35'57	
morning set	12567 Nov 18 05:07	28°M00'23		evening set	12570 May 14 04:03	6° <b>Ⅱ</b> 56'58	
	12567 Nov 19 19:50	0° <b>∡</b>		inferior conj	12570 May 17 19:33	4° <b>Ⅱ</b> 43'32	
	12567 Dec 14 02:18	0°ප		minimum elong	12570 May 17 11:53	4° <b>Ⅱ</b> 55'25	
				min. Earth dist.	12570 May 17 22:02	4° <b>Ⅱ</b> 39'40	0.27541 AU
superior conj	12567 Dec 25 01:45	13° <b>る</b> 33'28	1°21'50	morning rise	12570 May 20 19:37	2° <b>Ⅱ</b> 52'39	
minimum elong	12567 Dec 25 07:32	13° <b>る</b> 51'19	1°22'40		12570 May 25 23:44	30° <b>₹႘</b>	
max. Earth dist.	12567 Dec 26 06:27	15° <b>පි</b> 02'01	1.73138 AU	direct	12570 Jun 07 15:55	26° <b>8</b> 44'54	
	12568 Jan 07 09:30	0° <b>≈</b>		greatest brilliancy	12570 Jun 17 15:29	28° <b>8</b> 37'13	-4.9m
evening rise	12568 Jan 31 09:52	29° <b>≈</b> 34'53			12570 Jun 21 00:20	$\Pi^{\circ}$ 0	
	12568 Jan 31 18:01	0° <b>∀</b>		desc. node	12570 Jul 25 19:46	27° <b>Ⅱ</b> 12'21	
desc. node	12568 Feb 07 17:19	8° <b>)</b> 34′34		morning max el	12570 Jul 28 03:41	29° <b>Ⅱ</b> 31'45	46°57'50
	12568 Feb 25 03:39	$0$ ° $\mathbf{\Upsilon}$			12570 Jul 28 14:54	$0$ $\circ$ $\odot$	
	12568 Mar 20 13:44	$0^{\circ}$ 8			12570 Aug 25 11:05	$0^{\circ}\Omega$	
	12568 Apr 14 00:23	$\Pi^{\circ}0$			12570 Sep 20 10:32	0° <b>m</b> þ	
	12568 May 08 13:33	$0$ $\circ$ $\odot$			12570 Oct 15 16:52	0∘ <b>ऌ</b>	
asc. node	12568 May 30 11:43	26° <b>©</b> 30'19			12570 Nov 09 14:37	0° <b>M</b>	
	12568 Jun 02 09:44	$0^{\circ}\Omega$		asc. node	12570 Nov 15 16:34	7° <b>M</b> 22'13	
	12568 Jun 27 21:25	o° mp			12570 Dec 04 06:45	0° <b>∡</b> ¹	
	12568 Jul 24 20:36	0∘ <b>⊽</b>			12570 Dec 28 18:48	0°రె	
evening max el	12568 Aug 03 07:13	9° <b>≏</b> 45'10	46°41'41		12571 Jan 22 04:12	0° <b>≈</b>	
	12568 Aug 25 20:15	0° <b>M</b> .		morning set	12571 Jan 25 23:58	4° <b>≈</b> 42'39	
	•			-			
greatest brilliancy	12568 Sep 11 11:56	9° <b>™</b> 54'21	-4.8m		12571 Feb 15 12:03	0° <b>∀</b>	
greatest brilliancy desc. node	12568 Sep 11 11:56 12568 Sep 19 12:48	9°M54'21 11°M58'22	-4.8m	max. Earth dist.	12571 Feb 15 12:03 12571 Mar 02 17:29	0° <b>\</b> 18° <b>\</b> 48'34	1.72868 AU
	=		-4.8m	max. Earth dist.			1.72868 AU
desc. node retrograde	12568 Sep 19 12:48	11° <b>M</b> 58'22	-4.8m				1.72868 AU 0°06'44
desc. node	12568 Sep 19 12:48 12568 Sep 22 12:26	11°M58'22 12°M08'48	-4.8m 0.27935 AU	max. Earth dist. superior conj minimum elong	12571 Mar 02 17:29	18° <b>¥</b> 48'34	
desc. node retrograde evening set min. Earth dist.	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46	0.27935 AU	superior conj minimum elong	12571 Mar 02 17:29 12571 Mar 04 12:50	18°¥48'34 21°¥02'34	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08	0.27935 AU -5°38'37	superior conj minimum elong behind sun begin	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40	18°¥48'34 21°¥02'34 21°¥07'33 20°¥00'13	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45	11°M58'22 12°M08'48 7°M28'48 4°M36'46 4°M04'08 4°M20'04	0.27935 AU -5°38'37	superior conj minimum elong behind sun begin behind sun end	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27	18°¥48'34 21°¥02'34 21°¥07'33	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22	11°M58'22 12°M08'48 7°M28'48 4°M36'46 4°M04'08 4°M20'04 1°M08'59	0.27935 AU -5°38'37	superior conj minimum elong behind sun begin	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14	18°\(\pm\)48'34 21°\(\pm\)02'34 21°\(\pm\)07'33 20°\(\pm\)00'13 22°\(\pm\)14'54	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06	11°M58'22 12°M08'48 7°M28'48 4°M36'46 4°M04'08 4°M20'04	0.27935 AU -5°38'37	superior conj minimum elong behind sun begin behind sun end	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38	18° <del>\</del> \(48'34\) 21° <del>\</del> \(\) \(02'34\) 21° <del>\</del> \(\) \(07'33\) 20° <del>\</del> \(\) \(00'13\) 22° <del>\</del> \(\) \(14'54\) 24° <del>\</del> \(\) \(28'10\) 0° <b>\</b> \(\)	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 13 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω09'48	0.27935 AU -5°38'37	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36	18° \(\pma48'34\) 21° \(\pma02'34\) 21° \(\pma07'33\) 20° \(\pma00'13\) 22° \(\pma14'54\) 24° \(\pma28'10\) 0° \(\pma'\) 0° \(\pma\)	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06	11°ጤ58'22 12°ጤ08'48 7°ጤ28'48 4°ጤ36'46 4°ጤ04'08 4°ጤ20'04 1°ጤ08'59 30°RΩ 26°Ω09'48 27°Ω47'29	0.27935 AU -5°38'37 5°35'42	superior conj minimum elong behind sun begin behind sun end	12571 Mar 02 17:29 12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47	18° \(\pma48'34\) 21° \(\pma02'34\) 21° \(\pma07'33\) 20° \(\pma00'13\) 22° \(\pma14'54\) 24° \(\pma28'10\) 0° \(\pma\) 0° \(\pma\) 8° \(\pma55'133\)	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise  direct greatest brilliancy	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R. 26° \overline{O}09'48 27° \overline{O}47'29 0°M.	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45	18° ★48'34 21° ★02'34 21° ★07'33 20° ★00'13 22° ★14'54 24° ★28'10 0° ❤ 0° ❤ 0° ❤ 8° ₭55'33 0° Ⅲ	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R. 26° \Omega 09'48 27° \Omega 47'29 0°M. 26°M.10'55	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° ♀ 0° ¥ 8° ♥51'33 0° Ⅲ 0° ♀	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° \$\mathfrak{Z}\$	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10	18° ★48'34  21° ★02'34 21° ★07'33 20° ★00'13 22° ★14'54 24° ★28'10 0° ♀ 0° ௧ 8° ʊ♂51'33 0° Ⅲ 0° ☞ 0° ௳	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise  direct greatest brilliancy	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° ₹ 15° ₹30'23	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32	18° \(\pm\)48'34 21° \(\pm\)02'34 21° \(\pm\)07'33 20° \(\pm\)00'13 22° \(\pm\)14'54 24° \(\pm\)28'10 0° \(\pm\) 0° \(\pm\) 0° \(\pm\) 0° \(\pm\) 0° \(\pm\) 14° \(\Omega\)24'24	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46	11° ጤ58'22 12° ጤ08'48 7° ጤ28'48 4° ጤ36'46 4° ጤ04'08 4° ጤ20'04 1° ጤ08'59 30° ዪ Ω 26° Ω09'48 27° Ω47'29 0° ጤ 26° ጤ10'55 0° ґ 15° ґ 30'23 0° ጜ	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19	18° ★48'34  21° ★02'34 21° ★07'33 20° ★00'13 22° ★14'54 24° ★28'10 0° ❤ 0° Ზ 8° Ზ51'33 0° Ⅲ 0° ☞ 0° Ω 14° Ω24'24 0° ₥	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🗷 30'23 0° ጜ 0° ≈	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19	18° ¥48'34  21° ¥02'34  21° ¥07'33  20° ¥00'13  22° ¥14'54  24° ¥28'10  0° Ŷ  0° ¥  8° ₺51'33  0° Ⅱ  0° ©  14° Ω24'24  0° ₥  0° Ω	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🗷 30'23 0° 🕏 0° ≈ 0° ※	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55	18° \ 48'34  21° \ 02'34  21° \ 07'33  20° \ 00'13  22° \ 14'54  24° \ 28'10  0° \ 0° \ 8° \ 551'33  0° \ 10° \ 14° \ \ 024'24  0° \ 10° \ 0° \ \ 0° \ \ 10° \ \ 10° \ \	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Apr 10 05:16	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🗷 30'23 0° 🕏 0° ≈ 0° 升 0° Υ	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32	18° ★48'34  21° ★02'34  21° ★07'33  20° ★00'13  22° ★14'54  24° ★28'10  0° Ƴ  0° ♉  8° ♉51'33  0° Ⅲ  0° ♋  14° ₤24'24  0° ♍  0° শ  0° শ  0° শ	0°06'44 0°06'54
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🛪 15° 🛪 30'23 0°S 0°≈ 0°)€ 0°Y 27°Υ15'04	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11	18° ★48'34  21° ★02'34  21° ★07'33  20° ★00'13  22° ★14'54  24° ★28'10  0° Ƴ  0° ♉  8° ♉51'33  0° Ⅲ  0° ♋  0° Ὠ  14° Ո24'24  0° ♍  0° শ  0° শ  20° ♐ 11'12	0°06'44
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🛪 15° 🛪 30'23 0°S 0°≈ 0°H 0°Y 27°Υ15'04 0°℧	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node evening rise	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17	18° ★48'34  21° ★02'34  21° ★07'33  20° ★00'13  22° ★14'54  24° ★28'10  0° ♀  0° ϒ  0° ϒ  0° ϒ  0° Ω  14° Ω24'24  0° 协  0° ♠  0° ♠  20° ♣11'12  23° ♣37'00	0°06'44 0°06'54
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 28 19:06	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🛪'30'23 0°S 0°% 0°Y 27°Y15'04 0°S 0°H	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17	18° ¥48'34  21° ¥02'34  21° ¥07'33  20° ¥00'13  22° ¥14'54  24° ¥28'10  0° ♀  0° ♥  0° ♥  14° £24'24  0° ₱  0° ♠  0° ♠  20° ₹11'12  23° ₹37'00  0° ♥	0°06'44 0°06'54 46°10'11
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° ₹ 15° ₹30'23 0°₹ 0° € 0° ¥ 0° Y 27° Y 15'04 0° 8 0° II 0° ©	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Nov 22 15:18	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° と 8° と51'33 0° II 0° の 0° の 14° £24'24 0° m 0° を 0° M 0° を 20° ₹11'12 23° ₹37'00 0° 云 19° ጜ16'24	0°06'44 0°06'54 46°10'11
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 May 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57 12569 Jun 21 18:57	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🗷 30'23 0° 🛪 0° 🛠 0° Ƴ 27° ♈ 15'04 0° ♉ 0° ៕ 0° ৩ ☐ 1° ໑ ☐ 1° ໑ ☐ 1° ໑ ☐ 1° ໑ ☐	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Nov 22 15:18 12571 Dec 02 20:45	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° と 8° と51'33 0° II 0° の 14° Ω24'24 0° ID 0° № 0° № 0° № 0° № 10°	0°06'44 0°06'54 46°10'11
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° ₹ 15° ₹30'23 0°₹ 0° € 0° ¥ 0° Y 27° Y 15'04 0° 8 0° II 0° ©	0.27935 AU -5°38'37 5°35'42 -4.8m	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Nov 22 15:18 12571 Dec 02 20:45 12571 Dec 02 20:45	18° 米48'34 21° 米02'34 21° 米07'33 20° 米00'13 22° 米14'54 24° 米28'10 0° Y 0° と 8° と51'33 0° 川 0° の 14° Ω24'24 0° M 0° ふ 20° メ11'12 23° メ37'00 0° 云 19° 云16'24 21° 云11'13 14° 云58'16	0°06'44 0°06'54 46°10'11 -4.8m
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node  desc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57 12569 Jun 22 17:20 12569 Jul 15 16:54	11°M58'22 12°M08'48 7°M28'48 4°M36'46 4°M04'08 4°M20'04 1°M08'59 30°R	0.27935 AU -5°38'37 5°35'42 -4.8m 45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 02 20:45 12571 Dec 21 01:05 12571 Dec 21 01:05	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° ₺ 8° ₺51'33 0° Ⅱ 0° ⑤ 0° ᠒ 14° Ω24'24 0° ₱ 0° ₤ 0° № 0° № 10° № 10° № 11'12 23° ₹37'00 0° ♂ 19° ♂ 16'24 21° ♂ 11'13 14° ♂ 58'16 12° ♂ 54'35	0°06'44 0°06'54 46°10'11 -4.8m
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 12 19:45 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57 12569 Jun 22 17:20 12569 Aug 01 15:01	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.Ω 26°Ω.09'48 27°Ω.47'29 0°M. 26°M.10'55 0° 🗷 15° 🗷 30'23 0° 🕏 0° 🛠 0° Y 27° Y 15'04 0° S 0° Ω 1° © 10'09 0° Ω 21° Ω 13'58	0.27935 AU -5°38'37 5°35'42  -4.8m 45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 02 20:45 12571 Dec 21 01:05 12571 Dec 24 08:54 12571 Dec 24 14:56	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° ¥ 8° ₺51'33 0° 用 0° ⑤ 14° £024'24 0° m 0° ♣ 20° ♣ 11'12 23° ♣ 37'00 0° ♂ 19° ♂ 16'24 21° ♂ 11'13 14° ♂ 58'16 12° ♂ 54'35 12° ♂ 45'08	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 Mar 10 05:16 12569 May 02 09:47 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57 12569 Jun 21 18:57 12569 Jun 15 16:54	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.2 26° 209'48 27° 247'29 0°M. 26°M.10'55 0° 37 15° 3730'23 0° 35 0° 36 0° 37 0° 37 15° 3730'23 0° 37 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 15° 3730'23 0° 37 16° 3730'23 16° 3730'23 16° 3730'23 16° 3730'23	0.27935 AU -5°38'37 5°35'42  -4.8m  45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist.	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Mar 27 23:32 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 02 20:45 12571 Dec 21 01:05 12571 Dec 24 08:54 12571 Dec 24 14:56 12571 Dec 24 11:16	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° ℧ 8° ℧51'33 0° 爪 0° 亞 0° 凡 14° Д24'24 0° 順 0° 亞 0° 爪 0° ズ 20° ズ 11'12 23° ズ 37'00 0° ℧ 19° ℧ 16'24 21° ℧ 11'13 14° ℧ 58'16 12° ℧ 54'35 12° ℧ 45'08 12° ℧ 55'53	0°06'44 0°06'54 46°10'11 -4.8m
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 13 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 May 02 09:47 12569 May 04 15:12 12569 May 04 15:12 12569 May 28 19:06 12569 Jun 21 18:57	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.2 26° 209'48 27° 247'29 0°M. 26°M.10'55 0° % 15° %30'23 0° % 0° % 0° Y 27° Y 15'04 0° 8 0° H 0° 9 1° 2010'09 0° \lambda 21° \lambda 13'58 21° \lambda 47'33 22° \lambda 55'37	0.27935 AU -5°38'37 5°35'42  -4.8m 45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 May 23 04:56 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 24 08:54 12571 Dec 24 08:54 12571 Dec 24 14:56 12571 Dec 24 11:16 12571 Dec 28 04:46	18° ¥48'34  21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° ℧ 8° ℧51'33 0° Ⅲ 0° 亞 0° № 14° №24'24 0° № 0° 丞 20° ¾11'12 23° ¾37'00 0° ℧ 19° ℧16'24 21° ℧11'13 14° ℧558'16 12° ℧554'35 12° ℧45'08 12° ℧50'53 10° ℧32'43	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise  direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong max. Earth dist.	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 Mar 10 05:16 12569 Mary 02 09:47 12569 May 04 15:12 12569 May 04 15:12 12569 May 04 15:12 12569 Jan 21 18:57 12569 Jan 21 18:57 12569 Jan 22 17:20 12569 Jun 21 18:57 12569 Jun 22 17:20 12569 Aug 01 15:01 12569 Aug 02 01:44 12569 Aug 02 01:44 12569 Aug 02 23:27 12569 Aug 08 04:53	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R. 26° .09'48 27° .47'29 0°M. 26°M.10'55 0° .7 15° .730'23 0° .7 0° .7 0° .7 27° .715'04 0° .7 0° .7 21° .613'58 21° .647'33 22° .655'37 0° .	0.27935 AU -5°38'37 5°35'42  -4.8m  45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Apr 29 02:45 12571 Jun 16 08:10 12571 Jun 16 08:10 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 24 08:54 12571 Dec 24 14:56 12571 Dec 24 11:16 12571 Dec 28 04:46 12572 Jan 14 18:18	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Y 0° ℧ 8° ℧51'33 0° II 0° ⑤ 0° Ω 14° Ω24'24 0° 协 0° 丞 20° ¾11'12 23° ¾37'00 0° ℧ 19° ℧16'24 21° ℧11'13 14° ℧58'16 12° ℧554'35 12° ℧45'08 12° ℧50'53 10° ℧32'43 4° ℧40'35	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48 0.28965 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 13 13:22 12568 Oct 13 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 Mar 16 10:57 12569 Mar 00:16 12569 Mar 00:16 12569 Mar 00:16 12569 Mar 00:16 12569 Jan 21 18:57 12569 Jan 22 17:20 12569 Jan 23 11:46 12569 Jan 23 11:46 12569 Jan 00:16 12569 Jan 00:16 12569 Mar 00:16 12569 Aug 01 15:01 12569 Aug 02 01:44 12569 Aug 02 01:44 12569 Aug 03 00:20	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.2 26° 209'48 27° 47'29 0°M. 26°M.10'55 0° % 15° %30'23 0° % 0° % 0° Y 27° Y 15'04 0° Y 27° Y 15'04 0° S 1° \$\infty 10'09 0° \infty 21° \infty 13'58 21° \infty 47'33 22° \infty 55'37 0° M 18° Mp01'26	0.27935 AU -5°38'37 5°35'42  -4.8m  45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Jun 16 08:10 12571 Jun 16 08:10 12571 Jun 17 13:38 12571 Jun 18:19 12571 Jun 18:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 24 08:54 12571 Dec 24 08:54 12571 Dec 24 11:16 12571 Dec 28 04:46 12571 Dec 28 04:46 12572 Jan 14 18:18 12572 Jan 25 08:15	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Ŷ 0° ♉ 8° Წ51'33 0° Ⅲ 0° ፵ 0° শ 14° £024'24 0° № 0° শ 20° ¾11'12 23° ¾37'00 0° ♂ 19° ♂16'24 21° ♂11'13 14° ♂58'16 12° ♂54'35 12° ♂54'35 12° ♂54'5'08 12° ♂50'53 10° ♂32'43 4° ♂40'35 6° ♂42'52	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48 0.28965 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise  direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong max. Earth dist. asc. node	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 13 06:33 12568 Oct 18 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 Mar 10 05:16 12569 Mar 00:16 12569 Mar 00:16 12569 Mar 01 15:01 12569 Jun 21 18:57 12569 Jun 22 17:20 12569 Jul 15 16:54	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.2 26° 209'48 27° 247'29 0°M. 26°M.10'55 0° \$7 15° \$730'23 0° \$3 0° \$4 0° \$Y 27° \$Y 15'04 0° \$3 0° \$3 1° \$210'09 0° \$3 21° \$\Partial 31'58 21° \$\Partial 47'33 22° \$\Partial 55'37 0° \$\mathred{m}\$ 18° \$\mathred{m}\$01'26 0° \$\sigma\$	0.27935 AU -5°38'37 5°35'42  -4.8m  45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 03 16:40 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Mar 27 23:32 12571 Jun 16 08:10 12571 Jun 27 23:32 12571 Jul 10 15:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Sep 24 23:32 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 24 12:51 12571 Dec 24 08:54 12571 Dec 24 11:16 12571 Dec 28 04:46 12572 Jan 14 18:18 12572 Jan 25 08:15 12572 Feb 08 00:34	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° ♀ 0° ♥ 0° ₺ 8° ₺51'33 0° Ⅲ 0° ₽ 0° № 0° ₽ 20° ₹11'12 23° ₹37'00 0° ₺ 19° ₹16'24 21° ₹11'13 14° ₹58'16 12° ₹54'35 12° ₹45'08 12° ₹32'43 4° ₹40'35 6° ₹42'52 14° ₹05'57	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48 0.28965 AU
desc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise  direct greatest brilliancy morning max el asc. node  desc. node  superior conj minimum elong max. Earth dist.	12568 Sep 19 12:48 12568 Sep 22 12:26 12568 Oct 08 00:19 12568 Oct 13 16:50 12568 Oct 13 06:33 12568 Oct 13 13:22 12568 Oct 13 13:22 12568 Oct 20 16:06 12568 Nov 03 18:30 12568 Nov 13 05:31 12568 Nov 18 15:06 12568 Dec 22 14:47 12568 Dec 26 12:47 12569 Jan 10 14:32 12569 Jan 23 21:46 12569 Feb 19 03:50 12569 Mar 16 10:57 12569 Mar 16 10:57 12569 Mar 00:16 12569 Mar 00:16 12569 Mar 00:16 12569 Mar 00:16 12569 Jan 21 18:57 12569 Jan 22 17:20 12569 Jan 23 11:46 12569 Jan 23 11:46 12569 Jan 00:16 12569 Jan 00:16 12569 Mar 00:16 12569 Aug 01 15:01 12569 Aug 02 01:44 12569 Aug 02 01:44 12569 Aug 03 00:20	11°M.58'22 12°M.08'48 7°M.28'48 4°M.36'46 4°M.04'08 4°M.20'04 1°M.08'59 30°R.2 26° 209'48 27° 47'29 0°M. 26°M.10'55 0° % 15° %30'23 0° % 0° % 0° Y 27° Y 15'04 0° Y 27° Y 15'04 0° S 1° \$\infty 10'09 0° \infty 21° \infty 13'58 21° \infty 47'33 22° \infty 55'37 0° M 18° Mp01'26	0.27935 AU -5°38'37 5°35'42  -4.8m  45°45'52	superior conj minimum elong behind sun begin behind sun end desc. node  evening rise  asc. node  evening max el desc. node  greatest brilliancy retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct greatest brilliancy	12571 Mar 02 17:29  12571 Mar 04 12:50 12571 Mar 04 14:27 12571 Mar 05 12:14 12571 Mar 07 07:20 12571 Mar 11 18:38 12571 Apr 04 23:36 12571 Apr 12 02:47 12571 Apr 29 02:45 12571 Jun 16 08:10 12571 Jun 16 08:10 12571 Jun 17 13:38 12571 Jun 18:19 12571 Jun 18:19 12571 Aug 04 06:19 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Aug 29 11:55 12571 Oct 14 09:11 12571 Oct 17 22:17 12571 Oct 24 20:19 12571 Dec 24 08:54 12571 Dec 24 08:54 12571 Dec 24 11:16 12571 Dec 28 04:46 12571 Dec 28 04:46 12572 Jan 14 18:18 12572 Jan 25 08:15	18° ¥48'34 21° ¥02'34 21° ¥07'33 20° ¥00'13 22° ¥14'54 24° ¥28'10 0° Ŷ 0° ♉ 8° Წ51'33 0° Ⅲ 0° ፵ 0° শ 14° £024'24 0° № 0° শ 20° ¾11'12 23° ¾37'00 0° ♂ 19° ♂16'24 21° ♂11'13 14° ♂58'16 12° ♂54'35 12° ♂54'35 12° ♂54'5'08 12° ♂50'53 10° ♂32'43 4° ♂40'35 6° ♂42'52	0°06'44 0°06'54 46°10'11 -4.8m -8°22'16 8°20'48 0.28965 AU -4.7m

	12572 Mar 27 12:11	0° <b>₩</b>			12574 Nov 26 10:55	0°æ	
	12572 Apr 22 21:28	0° <b>Υ</b>		evening max el	12574 Dec 24 14:02	0 ∞ 29°≈10'04	45°52'26
	12572 May 18 03:34	0.8 0 1		evening max er	12574 Dec 25 10:54	0° <b>∺</b>	43 32 20
desc. node	12572 May 29 23:01	14° <b>8</b> 18'27		greatest brilliancy	12575 Feb 01 13:49	27° <b>∺</b> 25'36	-4.8m
dese. node	12572 Jun 11 18:59	0°II		retrograde	12575 Feb 11 10:14	29° <b>)</b> 11'22	
	12572 Jul 06 01:48	0°ಅ		evening set	12575 Feb 26 09:20	24° <b>)</b> 50'46	
	12572 Jul 30 04:10	$0^{\circ}\Omega$		inferior conj	12575 Mar 04 14:13	21° <b>¥</b> 07'36	-0°42'22
	12572 Aug 23 05:06	0° m/p		minimum elong	12575 Mar 04 15:49	21° <b>¥</b> 05'07	0°41'39
morning set	12572 Sep 04 18:26	15° <b>m</b> ) 39'47		min. Earth dist.	12575 Mar 04 23:04	20° <b>)</b> 53'45	0.28185 AU
	12572 Sep 16 06:21	0∘ <b>⊽</b>		asc. node	12575 Mar 07 10:10	19° <b>¥</b> 22'00	
asc. node	12572 Sep 19 14:32	4° <b>£</b> 09'52		morning rise	12575 Mar 10 21:53	17° <b>∺</b> 19'58	
	12572 Oct 10 08:37	0°M₊		direct	12575 Mar 25 19:40	12° <b>)</b> 58'42	
				greatest brilliancy	12575 Apr 05 12:50	15° <b>)</b> €06'24	-4.8m
superior conj	12572 Oct 13 11:00	3°M51'19	0°53'45		12575 Apr 28 14:45	$0^{\circ}$ Y	
minimum elong	12572 Oct 13 01:02	3°M20'19	0°53'47	morning max el	12575 May 14 19:14	15° <b>Y</b> ′00'34	46°34'52
max. Earth dist.	12572 Oct 15 14:36	6°MJ31'43	1.72414 AU		12575 May 29 05:10	$0^{\circ}$ 8	
	12572 Nov 03 12:22	0° <b>∡</b> ¹			12575 Jun 24 20:59	$\Pi$ °0	
evening rise	12572 Nov 19 16:53	20° <b>∡</b> 02'18		desc. node	12575 Jun 27 11:02	3° <b>Ⅱ</b> 00'43	
	12572 Nov 27 18:36	0°ಕ			12575 Jul 20 04:37	$0$ $\circ$	
	12572 Dec 22 04:37	0° <b>≈</b>			12575 Aug 13 21:49	$0$ ° $\Omega$	
desc. node	12573 Jan 09 05:50	22° <b>≈</b> 01'21			12575 Sep 07 08:42	0° <b>m</b>	
	12573 Jan 15 19:23	0° <b>∀</b>			12575 Oct 01 17:03	0∘ <b>⊽</b>	
	12573 Feb 09 15:14	0°Υ		asc. node	12575 Oct 18 04:53	20° <b>≏</b> 21'37	
	12573 Mar 06 16:50	0° <b>8</b>			12575 Oct 26 00:13	0° <b>M</b> ₊	
	12573 Apr 01 03:49	0°II		morning set	12575 Nov 15 21:09	25° <b>M</b> 47'58	
	12573 Apr 27 11:43	0ංම			12575 Nov 19 06:41	0° <b>∡</b> ¹	
asc. node	12573 May 02 03:09	5°506'09			12575 Dec 13 13:05	0°ප	
evening max el	12573 May 20 09:09	24°515'34	46°43'07		10555 00 10 10		1000110
1 - 212	12573 May 26 06:12	0°N	4.0	superior conj	12575 Dec 22 18:40	11° <b>る</b> 24'18	
greatest brilliancy	12573 Jun 29 16:18	24° <b>Ω</b> 46'22	-4.9m	minimum elong	12575 Dec 22 23:49	11°る40'13	
retrograde	12573 Jul 09 14:04	26° <b>Ω</b> 36'53 21° <b>Ω</b> 41'57		max. Earth dist.	12575 Dec 23 23:11	12°る52'21 0°≈	1.73127 AU
evening set	12573 Jul 25 10:29 12573 Jul 30 05:21	$18^{\circ} \Omega 50'49$	5°35'44	avanina riaa	12576 Jan 06 20:18 12576 Jan 29 01:50	0°≈ 27°≈22'51	
inferior conj minimum elong	12573 Jul 30 05.21 12573 Jul 30 16:05	18° <b>Ω</b> 34'26	5°32'16	evening rise	12576 Jan 29 01:50	27 <b>≈</b> 22 31 0° <b>H</b>	
min. Earth dist.	12573 Jul 30 10:03	$18^{\circ} \Omega 39'20$	0.27010 AU	desc. node	12576 Feb 06 19:06	8° <b>∺</b> 06′23	
morning rise	12573 Aug 04 21:46	$15^{\circ} \Omega 30'12$	0.27010 AU	desc. Hode	12576 Feb 24 14:44	ο γ 0°γ	
direct	12573 Aug 19 23:07	13° <b>Ω</b> 04'28			12576 Mar 20 01:05	0°8	
desc. node	12573 Aug 22 05:22	11° <b>Ω</b> 10'34			12576 Apr 13 12:08	0°II	
greatest brilliancy	12573 Aug 29 23:12	12° <b>Ω</b> 57'08	-4.9m		12576 May 08 01:54	0°©	
greatest offinaley	12573 Sep 25 01:39	0° m)	1.5111	asc. node	12576 May 29 13:43	25°956'54	
morning max el	12573 Oct 08 21:26	12° <b>m</b> ) 49'24	46°25'27	use. Houe	12576 Jun 01 23:03	0° <b>Ω</b>	
5 5	12573 Oct 25 14:41	0∘ <u>⊽</u>			12576 Jun 27 12:36	0° m/y	
	12573 Nov 21 17:25	0° <b>M</b> .			12576 Jul 24 16:16	0∘ <u>⊽</u>	
asc. node	12573 Dec 13 05:09	24°ML51'10		evening max el	12576 Jul 31 20:40	7° <b>≏</b> 22'23	46°42'18
	12573 Dec 17 14:19	0° <b>∡</b> 7		C	12576 Aug 26 14:42	0° <b>M</b>	
	12574 Jan 11 19:07	ರ∘ರ		greatest brilliancy	12576 Sep 09 03:33	7°M36'32	-4.8m
	12574 Feb 05 14:01	0° <b>≈</b>		desc. node	12576 Sep 18 14:53	9° <b>M</b> 47'41	
	12574 Mar 02 02:41	0° <b>∀</b>		retrograde	12576 Sep 20 02:46	9° <b>M</b> ₅50'20	
	12574 Mar 26 10:59	$0^{\circ}\Upsilon$		evening set	12576 Oct 05 12:14	5° <b>M</b> 14′22	
desc. node	12574 Apr 03 21:40	10° <b>Ƴ</b> 27'14		min. Earth dist.	12576 Oct 10 10:50	2°M18'16	0.27880 AU
morning set	12574 Apr 06 10:53	13° <b>Ƴ</b> 36'56		inferior conj	12576 Oct 11 07:15	1°M46'40	-5°21'22
	12574 Apr 19 15:33	$0^{\circ}S$		minimum elong	12576 Oct 10 21:11	2°M02'16	5°18'26
max. Earth dist.	12574 May 13 06:37	29° <b>8</b> 28'22	1.71759 AU		12576 Oct 14 04:57	30° <b>₹</b> Ω	
	12574 May 13 16:44	$\Pi$ $^{\circ}$ 0		morning rise	12576 Oct 16 06:39	28° <b>≏</b> 47'27	
		_		direct	12576 Nov 01 07:50	23° <b>Ω</b> 52'56	
superior conj	12574 May 16 05:25	3° <b>Ⅱ</b> 09'44		greatest brilliancy	12576 Nov 10 20:15	25° <b>△</b> 31'27	-4.8m
minimum elong	12574 May 15 21:06	2° <b>Ⅱ</b> 43'43	1°21′26		12576 Nov 20 11:50	0°M,	15016106
avaniei	12574 Jun 06 15:32	0°ಅ		morning max el	12576 Dec 20 04:08	23°M52'44	45°46'36
evening rise	12574 Jun 25 05:25	23°©18'01		aga nede	12576 Dec 26 09:43	0° <b>√</b> 14° <b>√</b> 40'28	
	12574 Jul 30 13:39	0° <b>Ω</b> 0° <b>m</b>		asc. node	12577 Jan 09 16:26	14° <b>メ</b> *49'28 0°る	
asc. node	12574 Jul 24 13:01 12574 Jul 25 12:21	0°110/ 1°10/12'49			12577 Jan 23 13:01 12577 Feb 18 16:58	0° <b>©</b>	
asc. nouc	12574 Jul 25 12.21 12574 Aug 17 15:30	1 111/1249			12577 Feb 18 16.38 12577 Mar 15 23:03	0 <b>≈</b> 0° <b>∺</b>	
	12574 Rug 17 13:30 12574 Sep 10 23:13	0° <b>™</b>			12577 Apr 09 16:49	0° <b>Υ</b>	
	12574 Oct 05 15:45	0° <b>⊼</b> ¹		desc. node	12577 May 01 11:43	26° <b>Y</b> ′46′17	
	12574 Oct 30 23:33	0°ਤ			12577 May 04 02:26	0°8	
desc. node	12574 Nov 14 08:21	16° <b>ට</b> 29'49			12577 May 28 06:09	0°II	
ucsc. Houc					,		

		_				_	
morning set	12577 Jun 20 05:02	28° <b>Ⅱ</b> 42'06		greatest brilliancy	12579 Nov 20 05:37	17° <b>る</b> 04'46	-4.8m
	12577 Jun 21 05:53	0ංම		retrograde	12579 Nov 30 13:17	19° <b>ට</b> 01'12	
	12577 Jul 15 03:45	$0 {\circ} \mathcal{\Omega}$		evening set	12579 Dec 18 18:48	12° <b>る</b> 45'25	
				inferior conj	12579 Dec 22 00:55	10° <b>る</b> 44'14	-8°28'05
superior conj	12577 Jul 30 03:26	18° <b>Ω</b> 48'31	-0°52'19	minimum elong	12579 Dec 22 06:18	10° <b>る</b> 35'47	8°26'44
minimum elong	12577 Jul 30 14:32	19° <b>Ω</b> 23'18	0°52'33	min. Earth dist.	12579 Dec 22 01:43	10°る42'58	0.28968 AU
max. Earth dist.	12577 Jul 31 07:02	20° <b>Ω</b> 15′04	1.71475 AU	morning rise	12579 Dec 25 17:52	8° <b>පි</b> 26'56	
	12577 Aug 08 01:41	0° <b>m</b> y		direct	12580 Jan 12 10:53	2° <b>る</b> 30'39	
asc. node	12577 Aug 22 02:11	17° <b>m</b> 33'26		greatest brilliancy	12580 Jan 22 22:38	4° <b>る</b> 31'20	-4.7m
	12577 Sep 01 01:07	0∘ <b>ত</b>		asc. node	12580 Feb 07 02:34	12° <b>る</b> 55'03	
evening rise	12577 Sep 07 19:52	8° <b>≙</b> 27'41			12580 Feb 27 07:18	0° <b>≈</b>	
	12577 Sep 25 03:07	0° <b>M</b> .		morning max el	12580 Mar 01 16:06	3° <b>≈</b> 14'44	45°51'30
	12577 Oct 19 09:03	0° <b>∡</b> ¹			12580 Mar 27 04:03	0° <b>∀</b>	
	12577 Nov 12 21:07	0°రె			12580 Apr 22 10:51	$0^{\circ}\mathbf{\Upsilon}$	
	12577 Dec 07 18:17	0° <b>≈</b>			12580 May 17 15:49	$8^{\circ 0}$	
desc. node	12577 Dec 11 19:25	4° <b>≈</b> 49'31		desc. node	12580 May 29 00:52	13° <b>8</b> 47'54	
	12578 Jan 02 04:15	0° <b>₩</b>			12580 Jun 11 06:36	$\Pi$ $^{\circ}0$	
	12578 Jan 28 09:18	$0^{\circ}\mathbf{\Upsilon}$			12580 Jul 05 13:02	0°ಅ	
	12578 Feb 25 03:32	0°8			12580 Jul 29 15:09	$0^{\circ}\Omega$	
evening max el	12578 Mar 05 22:49	8° <b>8</b> 50'26	46°10'28		12580 Aug 22 15:54	0° m	
v , v 8 v.	12578 Mar 30 09:43	0°II		morning set	12580 Sep 02 08:19	13° m/20'01	
asc. node	12578 Apr 03 19:39	2° <b>I</b> 57'28		<i>5 2 1 1 1 1 1 1 1 1 1 1</i>	12580 Sep 15 16:59	0∘ <del>⊽</del>	
greatest brilliancy	12578 Apr 14 20:39	8° <b>Ⅱ</b> 27'41	-4.8m	asc. node	12580 Sep 18 16:30	ა — 3° <b>ჲ</b> 42'56	
retrograde	12578 Apr 24 13:53	10° <b>I</b> I14'11	1.0111	use. Houe	12580 Oct 09 19:07	0° <b>M</b> .	
evening set	12578 May 11 13:15	4° <b>Ⅱ</b> 40'52			12300 000 07 17.07	0 110	
inferior conj	12578 May 15 09:07	2° <b>I</b> I21'07	8°24'30	superior conj	12580 Oct 11 02:22	1°MJ37'12	0°50'59
minimum elong	12578 May 15 00:48	2° <b>I</b> 33'59	8°22'39	minimum elong	12580 Oct 11 02:22 12580 Oct 10 16:36	1°M06'48	0°50'59
min. Earth dist.	12578 May 15 00:48	2° <b>Ⅱ</b> 18'11	0.27558 AU	max. Earth dist.	12580 Oct 10 10:30 12580 Oct 13 09:09	4°M27'34	1.72377 AU
morning rise	12578 May 18 12:15	2 <b>П</b> 1811 0° <b>П</b> 25'48	0.27338 AU	max. Earm dist.	12580 Nov 02 22:50	4 1162734 0° <b>√</b>	1.72377 AU
morning rise	•	30°R <b>8</b>		avanina riaa		0 <b>x</b> ⁴ 17° <b>x</b> 753'11	
J: 4	12578 May 19 05:32	24° <b>8</b> 21'59		evening rise	12580 Nov 17 09:34	0°중	
direct	12578 Jun 05 05:49	_	4.0		12580 Nov 27 05:07		
greatest brilliancy	12578 Jun 15 05:23	26° <b>8</b> 14'44	-4.9m	1 1	12580 Dec 21 15:19	0°≈	
	12578 Jun 23 04:07	0°II		desc. node	12581 Jan 08 07:40	21°≈33'40	
desc. node	12578 Jul 24 21:38	26° <b>Ⅱ</b> 19'32	460,5014.6		12581 Jan 15 06:26	0° <b>∀</b>	
morning max el	12578 Jul 25 18:25	27° <b>Ⅱ</b> 11'37	46°58'16		12581 Feb 09 02:49	0° <b>Υ</b>	
	12578 Jul 28 12:47	0° <b>©</b>			12581 Mar 06 05:16	0°8	
	12578 Aug 25 02:58	$0^{\circ}\Omega$			12581 Mar 31 17:43	0°II	
	12578 Sep 20 00:04	0° <b>m</b> )			12581 Apr 27 04:36	0ංම	
	12578 Oct 15 05:10	0∘ <b>⊽</b>		asc. node	12581 May 01 05:09	4°523'30	
	12578 Nov 09 02:12	0° <b>M</b> ₊		evening max el	12581 May 17 23:06	21° <b>©</b> 54'10	46°42'15
asc. node	12578 Nov 14 18:25	6°M53′08			12581 May 26 08:13	$0^{\circ}\Omega$	
	12578 Dec 03 17:52	0° <b>∡</b> ¹		greatest brilliancy	12581 Jun 27 06:16	22° <b>Ω</b> 22'54	-4.9m
	12578 Dec 28 05:38	0°ಕ		retrograde	12581 Jul 07 02:56	24° <b>Ω</b> 12'03	
	12579 Jan 21 14:52	0° <b>≈</b>		evening set	12581 Jul 23 02:44	19° <b>Ω</b> 12'50	
morning set	12579 Jan 23 16:54	2° <b>≈</b> 34'09		inferior conj	12581 Jul 27 18:06	16° <b>Ω</b> 26'18	5°54'57
	12579 Feb 14 22:38	0° <b>∀</b>		minimum elong	12581 Jul 28 05:04	16° <b>Ω</b> 09'30	5°51'28
max. Earth dist.	12579 Feb 28 13:42	16° <b>∺</b> 49'50	1.72897 AU	min. Earth dist.	12581 Jul 28 02:14	16° <b>Ω</b> 13'51	0.27015 AU
				morning rise	12581 Aug 02 07:29	13° <b>Ω</b> 09′28	
superior conj	12579 Mar 02 03:57	18° <b>¥</b> 48′02	0°10'13	direct	12581 Aug 17 12:07	8° <b>Ω</b> 39'57	
minimum elong	12579 Mar 02 06:22	18° <b>¥</b> 55'31	0°10'22	desc. node	12581 Aug 21 07:30	8° <b>Ω</b> 57'00	
behind sun begin	12579 Mar 01 11:59	17° <b>)</b> 58'44		greatest brilliancy	12581 Aug 27 11:48	10° <b>Ω</b> 32'08	-4.9m
behind sun end	12579 Mar 03 00:44	19° <b>¥</b> 52'18			12581 Sep 25 07:47	0° Mp	
desc. node	12579 Mar 06 09:13	24° <b>∺</b> 01′06		morning max el	12581 Oct 06 10:37	10° <b>№</b> 27'49	46°27'07
	12579 Mar 11 05:16	$0$ ° $\Upsilon$			12581 Oct 25 08:24	0° <b>⊽</b>	
	12579 Apr 04 10:21	$9^{\circ}$ 8			12581 Nov 21 07:28	$0^{\circ}$ M	
evening rise	12579 Apr 09 16:59	6° <b>8</b> 33'04		asc. node	12581 Dec 12 07:00	24°M19'48	
	12579 Apr 28 13:40	$\Pi$ $\circ$ 0			12581 Dec 17 02:39	0° <b>∡</b> ¹	
	12579 May 22 16:04	$0$ $\circ$ $\odot$			12582 Jan 11 06:33	8°0	
	12579 Jun 15 19:34	$0^{\circ}\Omega$			12582 Feb 05 00:58	0° <b>≈</b>	
asc. node	12579 Jun 27 01:20	13° <b>Ω</b> 54'12			12582 Mar 01 13:24	0° <b>)</b>	
	12579 Jul 10 03:08	0° <b>m</b> y			12582 Mar 25 21:35	$0^{\circ}\mathbf{\Upsilon}$	
	12579 Aug 03 18:50	0∘ <b>⊽</b>		desc. node	12582 Apr 02 23:36	10° <b>Y</b> 00′25	
	12579 Aug 29 01:44	0°M		morning set	12582 Apr 04 00:36	11° <b>Y</b> 17'54	
	12579 Sep 24 16:21	0° <b>∡</b> ¹		-	12582 Apr 19 02:07	0°8	
evening max el	12579 Oct 12 01:12	17° <b>∡</b> ¹59'51	46°11'19	max. Earth dist.	12582 May 10 14:24	26° <b>8</b> 49'41	1.71796 AU
desc. node	12579 Oct 17 00:20	22° <b>∡</b> ¹46'27			12582 May 13 03:18	$\Pi^{\circ}0$	
	12579 Oct 25 00:06	ರ∘ರ					

superior conj	12582 May 13 17:52	0°∏45'30	-1°19'17	greatest brilliancy	12584 Nov 08 10:47	23° <b>£</b> 15'55	-4 8m
minimum elong	12582 May 13 08:53	0° <b>П</b> 17'26		greatest of financy	12584 Nov 21 17:50	0° <b>™</b>	- <del>4</del> .0111
minimum crong	12582 Jun 06 02:09	0°95	1 1/01	morning max el	12584 Dec 17 18:22	21°MJ37'35	45°47'32
evening rise	12582 Jun 22 16:33	20°5948'55		morning mun er	12584 Dec 26 05:35	0° <b>×</b> 7	
	12582 Jun 30 00:21	0°Ω		asc. node	12585 Jan 08 18:23	14° <b>√</b> 10'09	
	12582 Jul 23 23:52	0° m			12585 Jan 23 03:40	0°ප	
asc. node	12582 Jul 24 14:16	0° m 44'54			12585 Feb 18 05:36	0° <b>≈</b>	
	12582 Aug 17 02:33	0∘ <u>v</u>			12585 Mar 15 10:42	0° <b>∀</b>	
	12582 Sep 10 10:36	0°M			12585 Apr 09 03:57	0° <b>Υ</b>	
	12582 Oct 05 03:43	0° <b>∡</b> ¹		desc. node	12585 Apr 30 13:31	26° <b>Ƴ</b> 18'12	
	12582 Oct 30 12:37	ರ°0			12585 May 03 13:18	0°B	
desc. node	12582 Nov 13 10:16	15° <b>る</b> 55'22			12585 May 27 16:54	$\Pi^{\circ}0$	
	12582 Nov 26 02:26	0°≈		morning set	12585 Jun 17 16:26	26° <b>Ⅱ</b> 13'55	
evening max el	12582 Dec 22 04:12	26° <b>≈</b> 55'58	45°52'27		12585 Jun 20 16:35	0ංම	
	12582 Dec 25 09:48	0° <b>)</b> €			12585 Jul 14 14:24	$0^{\circ}\Omega$	
greatest brilliancy	12583 Jan 30 05:36	25° <b>)</b> 14′06	-4.8m				
retrograde	12583 Feb 09 00:40	26° <b>¥</b> 59'04		superior conj	12585 Jul 27 15:18	16° <b>Ω</b> 21'52	-0°55'22
evening set	12583 Feb 24 01:52	22° <b>)</b> ₹36′22		minimum elong	12585 Jul 28 02:41	16° <b>Ω</b> 57'34	0°55'37
inferior conj	12583 Mar 02 05:39	18° <b>¥</b> 54'54	-1°03'49	max. Earth dist.	12585 Jul 28 14:51	17° <b>Ω</b> 35'44	1.71461 AU
minimum elong	12583 Mar 02 08:02	18° <b>¥</b> 51′09	1°02'48		12585 Aug 07 12:18	0° <b>m</b> )	
min. Earth dist.	12583 Mar 02 15:20	18° <b>)</b> 39′42	0.28220 AU	asc. node	12585 Aug 21 04:06	17° <b>M</b> 06'09	
asc. node	12583 Mar 06 12:16	16° <b>) 1</b> 6′59			12585 Aug 31 11:45	0∘ <b>亚</b>	
morning rise	12583 Mar 08 13:41	15° <b>)</b> €06′23		evening rise	12585 Sep 05 09:29	6° <b>ჲ</b> 07'20	
direct	12583 Mar 23 10:48	10° <b>)</b> 45′25			12585 Sep 24 13:49	0°M₊	
greatest brilliancy	12583 Apr 03 05:45	12° <b>¥</b> 54'12	-4.8m		12585 Oct 18 19:56	0° <b>∡</b> ¹	
	12583 Apr 28 20:49	$0^{\circ}$ Y			12585 Nov 12 08:18	0°ಕ	
morning max el	12583 May 12 09:09	12° <b>Y</b> 41'41	46°33'19		12585 Dec 07 06:02	0° <b>≈</b>	
	12583 May 28 22:38	0°8		desc. node	12585 Dec 10 21:19	4° <b>≈</b> 19'48	
	12583 Jun 24 11:07	$\Pi^{\circ}0$			12586 Jan 01 17:02	0° <b>∀</b>	
desc. node	12583 Jun 26 12:56	2° <b>Ⅱ</b> 25'29			12586 Jan 28 00:06	0° <b>Υ</b>	
	12583 Jul 19 17:16	0ა <b>ௐ</b>			12586 Feb 24 23:18	0°8	
	12583 Aug 13 09:40	0° <b>N</b>		evening max el	12586 Mar 03 13:39	6° <b>8</b> 34'47	46°09'34
	12583 Sep 06 20:01	0° my			12586 Mar 31 09:29	0°П	
	12583 Oct 01 03:59	0° <b>⊽</b>		asc. node	12586 Apr 02 21:33	1° <b>Ⅱ</b> 33'23	4.0
asc. node	12583 Oct 17 06:41	19° <b>Ω</b> 53'57		greatest brilliancy	12586 Apr 12 08:57	6°Ⅱ06'23	-4.8m
	12583 Oct 25 10:53	0°M		retrograde	12586 Apr 22 04:08	7° <b>Ⅱ</b> 54'08	
morning set	12583 Nov 13 13:15	23°M36'50		evening set	12586 May 08 22:44	2° <b>I</b> I26'38	001.412.0
	12583 Nov 18 17:10	0° <b>∡</b> 7		inferior conj	12586 May 12 22:55		8°14'30
	12583 Dec 12 23:28	0°₹		minimum elong	12586 May 12 14:03		8°12'30
superior conj	12583 Dec 20 11:53	9° <b>る</b> 17'20	1022120	min. Earth dist.	12586 May 12 23:11 12586 May 12 23:58	30°R <b>と</b> 29° <b>と</b> 58'48	0.27577 AU
minimum elong	12583 Dec 20 16:23	9° <b>る</b> 31'12		morning rise	12586 May 16 05:18	29 <b>8</b> 00'19	0.27377 AU
max. Earth dist.	12583 Dec 20 10:25	9 <b>3</b> 31 12 10° <b>3</b> 42'19	1.73112 AU	direct	12586 Jun 02 20:24	22° <b>8</b> 01'01	
max. Latin dist.	12584 Jan 06 06:40	0°≈	1.73112 AU	greatest brilliancy	12586 Jun 12 19:00	23° <b>8</b> 53'19	-4.9m
evening rise	12584 Jan 26 18:15	0 ∞ 25°≈13'39		greatest offinaley	12586 Jun 24 13:32	0°Ⅱ	-4.7111
evening rise	12584 Jan 30 15:22	0° <b>∀</b>		morning max el	12586 Jul 23 09:32	24° <b>I</b> 53'08	46°58'15
desc. node	12584 Feb 05 21:04	7° <b>₩</b> 40'10		desc. node	12586 Jul 23 23:45	25° <b>I</b> I28'56	10 30 13
dese. node	12584 Feb 24 01:22	0° <b>Υ</b>		uese. noue	12586 Jul 28 09:39	0°9	
	12584 Mar 19 12:02	0°8			12586 Aug 24 18:30	0°N	
	12584 Apr 12 23:32	0°II			12586 Sep 19 13:27	0° m/y	
	12584 May 07 13:58	0 ಲ			12586 Oct 14 17:23	0∘ <b>⊽</b>	
asc. node	12584 May 28 15:32	25° <b>©</b> 23'38			12586 Nov 08 13:41	0° <b>M</b> .	
	12584 Jun 01 12:11	$0^{\circ}\Omega$		asc. node	12586 Nov 13 20:16	6° <b>M</b> 24'16	
	12584 Jun 27 03:43	0° <b>m</b>			12586 Dec 03 04:54	0° <b>∡</b> ¹	
	12584 Jul 24 12:15	0∘ <del>⊽</del>			12586 Dec 27 16:22	ರ°0	
evening max el	12584 Jul 29 09:55	4° <b>Ω</b> 59'59	46°43'04	morning set	12587 Jan 21 09:52	0° <b>≈</b> 25'59	
-	12584 Aug 27 15:19	$0^{\circ}$ M		-	12587 Jan 21 01:26	0° <b>≈</b>	
greatest brilliancy	12584 Sep 06 18:36	5° <b>™</b> 18'40	-4.8m		12587 Feb 14 09:10	0° <b>)</b>	
retrograde	12584 Sep 17 17:18	7°M32'35		max. Earth dist.	12587 Feb 26 08:51	14° <b>¥</b> 48′07	1.72918 AU
desc. node	12584 Sep 17 16:54	7°M32'35					
evening set	12584 Oct 03 00:12	3°M00'02		superior conj	12587 Feb 27 19:18	16° <b>¥</b> 34'36	0°13'40
min. Earth dist.	12584 Oct 08 01:38	0°M00'24	0.27826 AU	minimum elong	12587 Feb 27 22:30	16° <b>)</b> 44′28	0°13'48
	12584 Oct 08 01:53	30° <b>₹</b> Ω		behind sun begin	12587 Feb 27 10:22	16° <b>米</b> 06′57	
inferior conj	12584 Oct 08 21:32	29° <b>ჲ</b> 29'42		behind sun end	12587 Feb 28 10:38	17° <b>米</b> 21′59	
minimum elong	12584 Oct 08 11:44	29° <b>≏</b> 44'49	5°00'30	desc. node	12587 Mar 05 11:08	23° <b>)</b> 34′25	
morning rise	12584 Oct 13 23:46	26° <b>£</b> 26'43			12587 Mar 10 15:50	0° <b>Υ</b>	
direct	12584 Oct 29 21:10	21° <b>≏</b> 36′23			12587 Apr 03 20:59	$0^{\circ}$ 8	

evening rise	12587 Apr 07 07:30	4° <b>8</b> 16'05		asc. node	12589 Dec 11 09:00	23°M47'56	
	12587 Apr 28 00:27	$\Pi^{\circ}$ 0			12589 Dec 16 15:16	0° <b>∡</b> ¹	
	12587 May 22 03:02	$0$ $\circ$ $\odot$			12590 Jan 10 18:18	ರ°0	
	12587 Jun 15 06:52	0°Ω			12590 Feb 04 12:14	0° <b>≈</b>	
1							
asc. node	12587 Jun 26 03:18	13° <b>Ω</b> 24'43			12590 Mar 01 00:24	0° <b>∀</b>	
	12587 Jul 09 14:57	0° <b>m</b> )			12590 Mar 25 08:28	$0^{\circ}$ Y	
	12587 Aug 03 07:27	0∘ <b>⊽</b>		morning set	12590 Apr 01 14:09	8° <b>Y</b> 57'31	
	12587 Aug 28 15:49	0° <b>M</b> ₊		desc. node	12590 Apr 02 01:18	9° <b>Y</b> 32'04	
	12587 Sep 24 09:44	0° <b>∡</b> ¹			12590 Apr 18 12:56	0°B	
evening max el	12587 Oct 09 17:11	15° <b>∡</b> ¹47'37	46°12'25	max. Earth dist.	12590 May 07 23:17		1.71833 AU
desc. node	12587 Oct 16 02:16	21° <b>x</b> 4757	40 12 23	max. Earth dist.	12370 May 07 23.17	24 019 90	1.71033710
desc. node					10.500 \$4. 11.06 10	2001 120120	1015105
	12587 Oct 25 06:12	0°ಕ		superior conj	12590 May 11 06:18	28° <b>8</b> 20'29	
greatest brilliancy	12587 Nov 17 20:24	14° <b>る</b> 52'42	-4.8m	minimum elong	12590 May 10 20:44	27° <b>8</b> 50'35	1°18'07
retrograde	12587 Nov 28 05:21	16° <b>る</b> 49'48			12590 May 12 14:09	$\Pi^{\circ}0$	
evening set	12587 Dec 16 12:04	10° <b>る</b> 31'57			12590 Jun 05 13:02	0∘ <b>©</b>	
inferior conj	12587 Dec 19 16:42	8° <b>る</b> 32'48	-8°33'13	evening rise	12590 Jun 20 03:52	18° <b>©</b> 19'42	
		8°る25'26	8°31'58	evening rise		0°Ω	
minimum elong	12587 Dec 19 21:23				12590 Jun 29 11:19		
min. Earth dist.	12587 Dec 19 16:05	8° <b>පි</b> 33'46	0.28963 AU		12590 Jul 23 10:57	0° <b>m</b> )	
morning rise	12587 Dec 23 06:48	6° <b>る</b> 19'42		asc. node	12590 Jul 23 16:11	0° Mp 16′21	
direct	12588 Jan 10 03:07	0° <b>る</b> 19'48			12590 Aug 16 13:48	0∘ <b>ত</b>	
greatest brilliancy	12588 Jan 20 12:27	2° <b>る</b> 18'21	-4.7m		12590 Sep 09 22:12	0°M₊	
asc. node	12588 Feb 06 04:41	11° <b>る</b> 45'50			12590 Oct 04 15:58	0° <b>∡</b> ¹	
ase. node	12588 Feb 27 06:03	0° <b>≈</b>			12590 Oct 30 02:08	0°ਰ	
			45°50'29	44.		15° <b>る</b> 19'35	
morning max el	12588 Feb 28 07:30	1°≈01'51	45-50-29	desc. node	12590 Nov 12 12:11		
	12588 Mar 26 19:46	0° <b>∀</b>			12590 Nov 25 18:41	0° <b>≈</b>	
	12588 Apr 22 00:11	$0^{\circ}$ Y		evening max el	12590 Dec 19 18:01	24° <b>≈</b> 39'41	45°52'28
	12588 May 17 04:00	$9^{\circ}$ 8			12590 Dec 25 10:27	0° <b>∀</b>	
desc. node	12588 May 28 02:47	13° <b>8</b> 17'36		greatest brilliancy	12591 Jan 27 20:55	23° <b>)</b> €00'20	-4.8m
	12588 Jun 10 18:10	$\Pi$ $^{\circ}0$		retrograde	12591 Feb 06 15:17	24° <b>)</b> 45′04	
	12588 Jul 05 00:14	0°©		evening set	12591 Feb 21 18:21	20° <b>¥</b> 19'47	
		0° <b>U</b>		•	12591 Feb 27 20:52	16° <b>)</b> 40'21	1005!11
	12588 Jul 29 02:07			inferior conj			
	12588 Aug 22 02:44	0° <b>m</b> )		minimum elong	12591 Feb 28 00:03	16° <b>)</b> ₹35′22	
morning set	12588 Aug 30 22:06	10° <b>m</b> 59'40		min. Earth dist.	12591 Feb 28 07:22	16° <b>∺</b> 23'55	0.28256 AU
	12588 Sep 15 03:43	0∘ <b>亚</b>		asc. node	12591 Mar 05 14:09	13° <b>¥</b> 12′20	
asc. node	12588 Sep 17 18:18	3° <b>₽</b> 15′06		morning rise	12591 Mar 06 05:09	12° <b>¥</b> 51′27	
				direct	12591 Mar 21 01:44	8° <b>)</b> 30′12	
superior conj	12588 Oct 08 17:22	29° <b>₽</b> 21'22	0°48'05	greatest brilliancy	12591 Mar 31 22:32	10° <b>)</b> 40′28	-4.8m
minimum elong	12588 Oct 08 07:53	28° <b>£</b> 51'51	0°48'04	8	12591 Apr 29 01:25	0° <b>Υ</b>	
minimum ciong	12588 Oct 09 05:48	0°M	0 40 04	marning may al	12591 May 09 23:46	10° <b>Υ</b> 23'28	46021152
F 41 F 4			1 702 42 ATT	morning max el	•		40 31 32
max. Earth dist.	12588 Oct 11 02:08		1.72343 AU		12591 May 28 16:06	0° <b>8</b>	
	12588 Nov 02 09:29	0° <b>∡</b> ¹			12591 Jun 24 01:26	$\Pi$ °0	
evening rise	12588 Nov 15 01:45	15° <b>∡</b> ¹41'44		desc. node	12591 Jun 25 14:56	1° <b>Ⅱ</b> 49'49	
	12588 Nov 26 15:51	0°ರ			12591 Jul 19 06:10	$0$ $\circ$ $\odot$	
	12588 Dec 21 02:15	0° <b>≈</b> ≈			12591 Aug 12 21:46	$0^{\circ}\Omega$	
desc. node	12589 Jan 07 09:38	21° <b>≈</b> 05'44			12591 Sep 06 07:35	0° <b>m</b>	
dese. node	12589 Jan 14 17:44	0° <b>)</b> €			12591 Sep 30 15:09	0∘ <b>⊽</b>	
					-		
	12589 Feb 08 14:40	0° <b>Y</b>		asc. node	12591 Oct 16 08:30	19° <b>Ω</b> 25'34	
	12589 Mar 05 18:00	$0$ $\circ$ 8			12591 Oct 24 21:47	$0^{\circ}$ M	
	12589 Mar 31 07:57	$\Pi$ °0		morning set	12591 Nov 11 05:26	21°M25'03	
	12589 Apr 26 22:01	$0$ $\circ$ $\mathfrak{S}$			12591 Nov 18 03:56	0° <b>∡</b> ¹	
asc. node	12589 Apr 30 07:05	3° <b>5</b> 39'47			12591 Dec 12 10:11	8°0	
evening max el	12589 May 15 12:19	19° <b>5</b> 30'39	46°41'30				
evening max er	•	0°Ω	40 41 30		10501 D 10 05:01	7° <b>る</b> 08'54	1024122
	12589 May 26 11:54		4.0	superior conj	12591 Dec 18 05:01		
greatest brilliancy	12589 Jun 24 20:54	20° <b>Ω</b> 00'30	-4.9m	minimum elong	12591 Dec 18 08:50	7° <b>る</b> 20'41	1°25'16
retrograde	12589 Jul 04 15:34	21° <b>Ω</b> 47'52		max. Earth dist.	12591 Dec 19 08:41	8° <b>る</b> 34'21	1.73105 AU
evening set	12589 Jul 20 19:17	16° <b>Ω</b> 44'09			12592 Jan 05 17:26	0° <b>≈</b>	
inferior conj	12589 Jul 25 07:07	14° <b>Ω</b> 02'28	6°13'12	evening rise	12592 Jan 24 10:25	23° <b>≈</b> 02′26	
minimum elong	12589 Jul 25 18:15	13° <b>Ω</b> 45'23	6°09'46		12592 Jan 30 02:15	0° <b>∀</b>	
min. Earth dist.	12589 Jul 25 16:03	13° <b>Ω</b> 48'45	0.27021 AU	desc. node	12592 Feb 04 22:54	7° <b>)</b> 12'14	
	12589 Jul 30 17:15	10°Ω49'37	J.2, J21 MU	aose. node	12592 Feb 23 12:26	0°Υ	
morning rise							
direct	12589 Aug 15 00:47	6° <b>Ω</b> 15'53			12592 Mar 18 23:25	0°8	
desc. node	12589 Aug 20 09:29	6° <b>Ω</b> 49'11			12592 Apr 12 11:23	$\Pi$ °0	
greatest brilliancy	12589 Aug 25 01:05	$8^{\circ}\Omega 08'08$	-4.9m		12592 May 07 02:31	$0$ $\circ$ $\mathfrak{s}$	
	12589 Sep 25 11:59	0° <b>m</b> )		asc. node	12592 May 27 17:33	24° <b>5</b> 49'38	
morning max el	12589 Oct 03 23:21	8° Mp 04'33	46°28'34		12592 Jun 01 01:50	$0^{\circ}\Omega$	
- C	12589 Oct 25 01:54	0∘ <u>⊽</u>			12592 Jun 26 19:27	0° m)	
	12589 Nov 20 21:39	0° <b>™</b>			12592 Jul 24 09:20	0∘ <b>⊽</b>	
		o no			. 20/2 Jun 27 U/.2U	~ <b>—</b>	

evening max el	12592 Jul 27 00:08	2° <b>£</b> 38'59	46°43'56	morning set	12595 Jan 19 03:11	28° <b>る</b> 18'20	
evening max er	12592 Aug 29 02:42	0° <b>™</b> .	10 13 30	morning sec	12595 Jan 20 12:11	0°≈	
greatest brilliancy	12592 Sep 04 09:17	2°M59'28	-4.8m		12595 Feb 13 19:54	0° <b>∀</b>	
retrograde	12592 Sep 15 08:29	5° <b>M</b> ₊14'07		max. Earth dist.	12595 Feb 24 03:10	12° <b>)</b> 43′13	1.72945 AU
desc. node	12592 Sep 16 18:49	5°ML11'38					
evening set	12592 Sep 30 12:25	0°M44'37		superior conj	12595 Feb 25 10:54	14° <b>米</b> 21′16	0°17'04
	12592 Oct 01 20:10	30° <b>₹</b> Ω		minimum elong	12595 Feb 25 14:50	14° <b>¥</b> 33'25	0°17'12
min. Earth dist.	12592 Oct 05 16:09	27° <b>≏</b> 42'08	0.27770 AU	desc. node	12595 Mar 04 12:53	23° <b>∺</b> 06′29	
inferior conj	12592 Oct 06 11:50	27° <b>≙</b> 11'51			12595 Mar 10 02:38	0° <b>Υ</b>	
minimum elong	12592 Oct 06 02:23	27° <b>Ω</b> 26'25	4°42'04		12595 Apr 03 07:56	0°8	
morning rise	12592 Oct 11 16:53	24° <b>₽</b> 05'26		evening rise	12595 Apr 04 21:56	1° <b>8</b> 57'54	
direct	12592 Oct 27 10:55	19° <b>♀</b> 19'07	4.0		12595 Apr 27 11:33	0°II	
greatest brilliancy	12592 Nov 06 00:44	20° <b>£</b> 59'09 0° <b>I</b> L	-4.8m		12595 May 21 14:22	$0$ ಂ $\Omega$	
morning max el	12592 Nov 22 15:47 12592 Dec 15 09:28	19°ML23'50	45°48'20	asc. node	12595 Jun 14 18:31 12595 Jun 25 05:15	12° <b>Ω</b> 54'13	
morning max er	12592 Dec 26 01:08	19 IIC23 30 0° <b>√</b> 1	45 46 20	asc. node	12595 Jul	0° m)	
asc. node	12593 Jan 07 20:27	13° <b>∡</b> 30'41			12595 Aug 02 20:25	0∘ <b>⊽</b>	
asc. node	12593 Jan 22 18:30	0° <b>궁</b>			12595 Aug 28 06:16	o° <b>m</b> .	
	12593 Feb 17 18:34	0° <b>≈</b>			12595 Nag 26 00:16	0° <b>⊼</b> ⊓	
	12593 Mar 14 22:45	0° <b>)</b> €		evening max el	12595 Oct 07 08:52	13° <b>∡</b> ³33'59	46°13'32
	12593 Apr 08 15:30	0° <b>Υ</b>		desc. node	12595 Oct 15 04:17	21° <b>₹</b> '00'14	
desc. node	12593 Apr 29 15:26	25° <b>Ƴ</b> 49'12			12595 Oct 25 14:56	ರ°0	
	12593 May 03 00:35	$9^{\circ}$ 8		greatest brilliancy	12595 Nov 15 12:00	12° <b>る</b> 41'20	-4.8m
	12593 May 27 04:02	$\Pi^{\circ}0$		retrograde	12595 Nov 25 21:07	14° <b>る</b> 38'28	
morning set	12593 Jun 15 03:40	23° <b>Ⅱ</b> 44'10		evening set	12595 Dec 14 05:14	8° <b>る</b> 19'14	
	12593 Jun 20 03:37	$0$ $\circ$		inferior conj	12595 Dec 17 08:40	6° <b>る</b> 21'44	-8°37'34
	12593 Jul 14 01:23	$0$ $^{\circ}\Omega$		minimum elong	12595 Dec 17 12:37	6° <b>ප</b> 15'31	
		_		min. Earth dist.	12595 Dec 17 06:55	6° <b>る</b> 24'29	0.28952 AU
superior conj	12593 Jul 25 03:04	13° <b>Ω</b> 53'43		morning rise	12595 Dec 20 20:06	4°る12'27	
minimum elong	12593 Jul 25 14:40	14° <b>Ω</b> 30'07			12595 Dec 29 03:49	30°R <b>∡</b> 7	
max. Earth dist.	12593 Jul 26 01:08		1.71448 AU	direct	12596 Jan 07 19:07	28° <b>₹</b> '09'23	
	12593 Aug 06 23:16	0°M) 1.6°m>27!22			12596 Jan 17 19:58	0°る	4.7
asc. node	12593 Aug 20 05:53	16° Mp 37′23 0° <u>₽</u>		greatest brilliancy asc. node	12596 Jan 18 02:41 12596 Feb 05 06:31	0°る05'59 10°る38'08	-4.7m
evening rise	12593 Aug 30 22:44 12593 Sep 02 23:08	0 <u>≈</u> 3° <u>≈</u> 45'58		morning max el	12596 Feb 05 06.51 12596 Feb 25 22:05	10 03808 28° <b>る</b> 46'59	45°49'29
evening rise	12593 Sep 02 23:08 12593 Sep 24 00:52	0°M		morning max ci	12596 Feb 27 03:53	28 <b>○</b> 40 39	43 49 29
	12593 Oct 18 07:06	0° <b>⊼</b> ⊓			12596 Mar 26 11:16	0° <b>₩</b>	
	12593 Nov 11 19:47	ਰ°0			12596 Apr 21 13:31	0° <b>Υ</b>	
	12593 Dec 06 18:06	0° <b>≈</b>			12596 May 16 16:19	0°B	
desc. node	12593 Dec 09 23:22	3° <b>≈</b> 49'41		desc. node	12596 May 27 04:44	12° <b>8</b> 46'55	
	12594 Jan 01 06:14	0° <b>)</b> €			12596 Jun 10 05:55	$\Pi^{\circ}0$	
	12594 Jan 27 15:32	$0^{\circ}$ Y			12596 Jul 04 11:38	$0$ $\circ$ $\odot$	
	12594 Feb 24 20:17	$0^{\circ}$ 8			12596 Jul 28 13:17	$0^{\circ}\Omega$	
evening max el	12594 Mar 01 05:05	4° <b>8</b> 19'18	46°08'24		12596 Aug 21 13:42	0° <b>m</b>	
asc. node	12594 Apr 01 23:34	0° <b>Ⅱ</b> 04'46		morning set	12596 Aug 28 11:34	8° <b>m</b> 37'49	
	12594 Apr 01 20:11	$0$ ° $\Pi$			12596 Sep 14 14:34	0∘ <b>ত</b>	
greatest brilliancy	12594 Apr 09 21:31	3° <b>Ⅱ</b> 43'42	-4.8m	asc. node	12596 Sep 16 20:06	2° <b>≏</b> 46'55	
retrograde	12594 Apr 19 18:02	5° <b>Ⅱ</b> 32'00			12506 0 4 06 00 16	270 0 0 415 (	0045107
evening set	12594 May 06 08:05	0° <b>Ⅱ</b> 10'46		superior conj	12596 Oct 06 08:16	27° <b>₽</b> 04'56	0°45'07
inferior conj	12594 May 06 15:26 12594 May 10 12:34	30°R <b>と</b> 27° <b>と</b> 37'57	8°03'34	minimum elong max. Earth dist.	12596 Oct 05 23:07 12596 Oct 08 17:33	26° <b>£</b> 36′28 0° <b>™</b> 03′08	0°45'04 1.72305 AU
minimum elong	12594 May 10 12.34 12594 May 10 03:12	27° <b>8</b> 52'30	8°01'25	max. Earth dist.	12596 Oct 08 17:33	0°M	1.72303 AU
min. Earth dist.	12594 May 10 12:55	27° <b>8</b> 37'25	0.27592 AU		12596 Nov 01 20:13	0° <b>⊼</b> ″	
morning rise	12594 May 13 22:16	25° <b>8</b> 32'48	0.27372110	evening rise	12596 Nov 12 18:01	13° <b>∡</b> 30′20	
direct	12594 May 31 10:49	19° <b>8</b> 38'29			12596 Nov 26 02:38	0°ਰ	
greatest brilliancy	12594 Jun 10 08:22	21° <b>8</b> 29'59	-4.9m		12596 Dec 20 13:13	0° <b>≈</b>	
· ·	12594 Jun 25 14:06	$\Pi^{\circ}$		desc. node	12597 Jan 06 11:30	20° <b>≈</b> 37'28	
morning max el	12594 Jul 20 23:59	22° <b>Ⅱ</b> 31'51	46°58'15		12597 Jan 14 05:01	0° <b>)</b> €	
desc. node	12594 Jul 23 01:43	24° <b>Ⅱ</b> 37'49			12597 Feb 08 02:30	$0^{\circ}$ Y	
	12594 Jul 28 06:14	0ංම			12597 Mar 05 06:44	0°8	
	12594 Aug 24 10:07	$0$ ° $\Omega$			12597 Mar 30 22:19	$\Pi$ °0	
	12594 Sep 19 03:01	0° <b>m</b>			12597 Apr 26 15:53	0ංම	
	12594 Oct 14 05:49	0° <b>∞</b>		asc. node	12597 Apr 29 09:07	2°955'32	
	12594 Nov 08 01:24	0°M		evening max el	12597 May 13 00:33	17°904'21	46°40'26
asc. node	12594 Nov 12 22:14	5°M55'02			12597 May 26 17:43	0°Ω 17°Ω26142	4.0
	12594 Dec 02 16:08	0°⊀ 0° <b>≍</b>		greatest brilliancy	12597 Jun 22 11:26	17° <b>Ω</b> 36'43	-4.9m
	12594 Dec 27 03:17	0°ಕ		retrograde	12597 Jul 02 03:43	19° <b>Ω</b> 22'23	

evening set	12597 Jul 18 11:32	14° <b>Ω</b> 13'45			12600 Jan 05 03:53	0° <b>≈</b>	
inferior conj	12597 Jul 22 19:50	11° <b>Ω</b> 37'16	6°30'49	evening rise	12600 Jan 22 02:37	20° <b>≈</b> 52'18	
minimum elong	12597 Jul 23 07:02	11° <b>Ω</b> 20′04	6°27'29		12600 Jan 29 12:48	0° <b>ℋ</b>	
min. Earth dist.	12597 Jul 23 05:50	11° <b>Ω</b> 21'55	0.27033 AU	desc. node	12600 Feb 04 00:41	6° <b>)</b> 45′07	
morning rise	12597 Jul 28 02:28	8° <b>Ω</b> 28'54			12600 Feb 22 23:12	$0^{\circ}$ Y	
direct	12597 Aug 12 12:54	3° <b>Ω</b> 50′07			12600 Mar 19 10:29	$8^{\circ}$ 0	
desc. node	12597 Aug 19 11:22	4° <b>Ω</b> 45'07			12600 Apr 12 22:54	$\Pi^{\circ}$ 0	
greatest brilliancy	12597 Aug 22 14:38	5° <b>Ω</b> 43'19	-4 9m		12600 May 07 14:41	0ංම	
8	12597 Sep 25 14:44	0° m)		asc. node	12600 May 27 19:32	24°9516'42	
morning max el	12597 Oct 01 12:03	5° Mp 40'36	46°30'16	use. Houe	12600 Jun 01 15:08	0°Ω	
morning max ci	12597 Oct 01 12:03	0∘ <b>⊽</b>	40 30 10		12600 Jun 27 10:59	0° <b>m</b> )	
						-	
	12597 Nov 20 11:37	0°M,			12600 Jul 25 06:44	0∘ <b>ʊ</b>	16011120
asc. node	12597 Dec 10 10:54	23°M16'11		evening max el	12600 Jul 25 15:09	0° <b>ჲ</b> 21'08	46°44'29
	12597 Dec 16 03:42	0° <b>∡</b> 7			12600 Sep 01 08:38	0°M₊	
	12598 Jan 10 05:53	8°0		greatest brilliancy	12600 Sep 02 23:33	0°M40'13	-4.8m
	12598 Feb 03 23:21	0° <b>≈</b>		retrograde	12600 Sep 13 23:43	2°M55'29	
	12598 Feb 28 11:15	0° <b>∀</b>		desc. node	12600 Sep 16 20:53	2°M45'20	
	12598 Mar 24 19:10	$0^{\circ}\mathbf{\Upsilon}$			12600 Sep 26 01:03	30° <b>₽</b> Ω	
morning set	12598 Mar 30 04:17	6° <b>Ƴ</b> 39'33		evening set	12600 Sep 29 00:35	28° <b>≏</b> 28'58	
desc. node	12598 Apr 01 03:14	9° <b>Y</b> 05'00		min. Earth dist.	12600 Oct 04 06:22	25° <b>≏</b> 23'47	0.27718 AU
	12598 Apr 17 23:35	0°8		inferior conj	12600 Oct 05 01:51	24° <b>£</b> 53'50	
max. Earth dist.	12598 May 05 11:56	21° <b>8</b> 49'56	1.71876 AU	minimum elong	12600 Oct 03 01:31 12600 Oct 04 16:49	25° <b>⊆</b> 07'44	
max. Earm dist.	12396 Way 03 11.30	21 049 30	1./16/0 AU	· ·		23 <b>⊆</b> 07 44 21° <b>⊆</b> 44'02	4 22 30
	12700 14 00 10 00	050	1015146	morning rise	12600 Oct 10 09:40		
superior conj	12598 May 08 19:06	25° <b>8</b> 57'11		direct	12600 Oct 26 00:53	17° <b>≏</b> 01'47	4.0
minimum elong	12598 May 08 09:02	25° <b>8</b> 25'45	1°16'15	greatest brilliancy	12600 Nov 04 14:08	18° <b>≏</b> 41'48	-4.8m
	12598 May 12 00:49	$\Pi$ °0			12600 Nov 24 07:50	0°M₊	
	12598 Jun 04 23:48	0		morning max el	12600 Dec 14 00:46	17° <b>M</b> .11'13	45°49'13
evening rise	12598 Jun 17 15:21	15° <b>©</b> 51'20			12600 Dec 26 19:51	0° <b>∡</b> ¹	
	12598 Jun 28 22:12	$0^{\circ}\Omega$		asc. node	12601 Jan 07 22:19	12° <b>∡</b> ′51′58	
asc. node	12598 Jul 22 17:58	29° <b>Ω</b> 47'29			12601 Jan 23 08:47	0° <b>ප</b>	
	12598 Jul 22 21:59	o∘ <b>m</b> y			12601 Feb 18 07:03	0° <b>≈</b>	
	12598 Aug 16 01:02	0∘ <b>⊽</b>			12601 Mar 15 10:19	0° <b>₩</b>	
	12598 Sep 09 09:47	0°M			12601 Apr 09 02:35	$0^{\circ}\Upsilon$	
	12598 Oct 04 04:12	0° <b>⊼</b> 7		desc. node	12601 Apr 29 17:19	25° <b>Y</b> ′21′24	
	12598 Oct 29 15:38	ੈ°ਰ		dese. Hode	12601 May 03 11:25	0°8	
desc. node	12598 Nov 11 14:14	14°る44'24			12601 May 27 14:43	0°II	
desc. node		0°≈			•		
	12598 Nov 25 11:01		45050140	morning set	12601 Jun 13 15:23	21° <b>I</b> I17'22	
evening max el	12598 Dec 17 08:27	22°≈25'46	45°52'43		12601 Jun 20 14:13	0°99	
	12598 Dec 25 12:05	0° <b>∀</b>			12601 Jul 14 11:54	$0$ $^{\circ}\Omega$	
greatest brilliancy	12599 Jan 25 11:52	20° <b>)</b> 47′27	-4.8m				
retrograde	12599 Feb 04 06:37	22° <b>∺</b> 32'39		superior conj	12601 Jul 23 15:13	11° <b>Ω</b> 28'13	
evening set	12599 Feb 19 11:12	18° <b>∺</b> 04'29		minimum elong	12601 Jul 24 02:56	12° <b>Ω</b> 05′00	1°01'28
inferior conj	12599 Feb 25 12:17	14° <b>∺</b> 27'14	-1°46'12	max. Earth dist.	12601 Jul 24 13:46	12° <b>Ω</b> 39′00	1.71434 AU
minimum elong	12599 Feb 25 16:13	14° <b>¥</b> 21′04	1°44'40		12601 Aug 07 09:46	0° <b>m</b> )	
min. Earth dist.	12599 Feb 25 23:16	14° <b>) (</b> 10′03	0.28290 AU	asc. node	12601 Aug 20 07:45	16° <b>m</b> 10'18	
morning rise	12599 Mar 03 20:40	10° <b>¥</b> 38′27			12601 Aug 31 09:16	0∘ <b>ত</b>	
asc. node	12599 Mar 04 16:10	10° <b>¥</b> 12'08		evening rise	12601 Sep 01 12:54	1° <b>≏</b> 26'17	
direct	12599 Mar 18 17:13	6° <b>)</b> 16'32		<b>5</b> -	12601 Sep 24 11:30	0° <b>M</b>	
greatest brilliancy	12599 Mar 29 15:08	8° <b>\(\)</b> 28'04	-4.8m		12601 Oct 18 17:56	0° <b>∡</b> 7	
51 carest of financy	12599 Apr 29 03:46	0°Υ	1.0111		12601 Nov 12 06:57	% ਨ	
mamina may al	12599 May 07 15:28	8° <b>Υ</b> ′09'19	46°30'26			0°≈	
morning max el			40 30 20	1 1	12601 Dec 07 05:53		
	12599 May 28 08:47	0° <b>B</b>		desc. node	12601 Dec 10 01:10	3°≈19'46	
	12599 Jun 23 15:15	0°Щ			12602 Jan 01 19:10	0° <b>∀</b>	
desc. node	12599 Jun 24 16:52	1° <b>Ⅱ</b> 15′12					
	12599 Jul 18 18:41	$0$ $\circ$					
	12599 Aug 12 09:34	$0$ $\circ$ $\Omega$					
	12599 Sep 05 18:55	0° <b>™</b>					
	12599 Sep 30 02:09	0∘ <b>⊽</b>					
asc. node	12599 Oct 15 10:29	18° <b>≏</b> 58'14					
	12599 Oct 24 08:31	$0^{\circ}$ M					
morning set	12599 Nov 08 21:14	19° <b>™</b> 12'39					
<b>5</b> ·	12599 Nov 17 14:29	0° <b>⊼</b> ⊓					
	12599 Dec 11 20:39	0°ਰ					
	120,, 1000 11 20.3)	· •					
superior conj	12599 Dec 15 21:53	5° <b>る</b> 00'30	1°24'58				
	12599 Dec 15 21:35 12599 Dec 16 01:01	5°る10'08					
minimum elong							
max. Earth dist.	12599 Dec 17 03:51	0 03503	1.73091 AU				