						=	
superior conj	13600 Jan 15 19:41	6° ≈ 10′29	1°29'12	asc. node	13600 Dec 12 19:44	15° ∡ ¹24'28	
minimum elong	13600 Jan 15 21:29	6° ≈ 20'06	1°29'57		13600 Dec 20 11:47	0°ಕ	
max. Earth dist.	13600 Jan 19 11:59	13° ≈ 52'18	1.33975 AU	morning set	13600 Dec 23 07:02	5° る 53'57	
evening rise	13600 Jan 23 23:04	22° ≈ 47'55					
	13600 Jan 27 18:24	0° ∀		superior conj	13600 Dec 30 02:33	20° ⋜ 46′06	1°36'39
desc. node	13600 Jan 28 17:06	1°)(43'49		minimum elong	13600 Dec 30 03:19	20° る 50'18	1°37'38
	13600 Feb 15 11:28	$0^{\circ}\mathbf{\Upsilon}$		max. Earth dist.	13601 Jan 01 10:27	25° る 49'06	1.32564 AU
evening max el	13600 Feb 27 18:57	14° Y 35'31	27°04'22		13601 Jan 03 09:34	0° ≈	
retrograde	13600 Mar 12 04:34	22° Y '02'59		evening rise	13601 Jan 06 14:14	6° ≈ 36'21	
evening set	13600 Mar 18 18:51	19° Ƴ 30'47		desc. node	13601 Jan 14 13:48	21° ≈ 49'28	
min. Earth dist.	13600 Mar 22 17:17	15° Y 43′26	0.65510 AU	***************************************	13601 Jan 19 08:05	0° ₩	
asc. node	13600 Mar 23 19:43	14° Υ 29'02	0.00010110	evening max el	13601 Feb 09 07:26	27° ¥ 52'20	27°31'21
inferior conj	13600 Mar 24 22:56	13° Υ 11'17	0°21'38	evening man er	13601 Feb 11 16:09	0°Υ	2, 3121
minimum elong	13600 Mar 24 22:20	13° Y 12'58	0°21'16	retrograde	13601 Feb 23 01:47	5° Υ 19'15	
morning rise	13600 Mar 24 22:20 13600 Mar 31 03:23	7° Υ 38'57	0 21 10	evening set	13601 Mar 01 22:00	2° Υ '52'57	
direct	13600 Apr 02 22:00	6° Y 57'29		evening set	13601 Mar 05 06:58	30°R ₩	
morning max el	13600 Apr 02 22:00 13600 Apr 09 06:17	10° Υ 16'22	18°02'46	min. Earth dist.	13601 Mar 05 16:58	29° ₩ 35'29	0.63678 AU
morning max ci	13600 Apr 03 03:25	0°8	18 02 40		13601 Mar 08 09:46	26°\(\frac{1}{49}\)'32	
11.		4° 8 20'13		inferior conj		26° X 49'52	
desc. node	13600 Apr 25 19:24	•		minimum elong	13601 Mar 08 11:12		0°44'15
morning set	13600 Apr 27 14:42	7° 8 16'43		asc. node	13601 Mar 10 17:11	24°) 32′56	
	13600 May 11 18:21	Π $^{\circ}$ 0		morning rise	13601 Mar 15 02:44	21°) (31'51	
				direct	13601 Mar 17 13:02	21° ∺ 02'46	
superior conj	13600 May 12 06:35	0° Ⅱ 48'12		morning max el	13601 Mar 23 23:53	24°) €21'27	17°47'28
minimum elong	13600 May 11 21:29	0° Ⅱ 12'22			13601 Mar 28 15:12	0° Υ	
max. Earth dist.	13600 May 15 05:07	5° Ⅱ 24'59	1.45702 AU	morning set	13601 Apr 09 13:25	19° Y ′24'54	
evening rise	13600 May 28 09:02	25° Ⅱ 50′23		desc. node	13601 Apr 12 15:59	24° Y ′42'26	
	13600 May 31 01:51	$0 {\circ} \mathfrak{S}$			13601 Apr 15 19:14	$0^{\circ}S$	
greatest brilliancy	13600 Jun 10 09:28	15° © 40'22	-0.7m				
asc. node	13600 Jun 19 17:16	28° © 26'47		superior conj	13601 Apr 22 08:54	10° 8 51'19	
	13600 Jun 21 02:04	0 $^{\circ}\Omega$		minimum elong	13601 Apr 22 01:48	_	1°10'17
evening max el	13600 Jun 22 03:49	1° Ω 07'15	19°27'31	max. Earth dist.	13601 Apr 27 23:52	19° 8 53'12	1.44883 AU
retrograde	13600 Jun 29 07:32	5° Ω 07'58			13601 May 04 10:48	Π °0	
evening set	13600 Jul 02 23:21	3° Ω 50′05		evening rise	13601 May 07 20:14	5° Ⅱ 13'31	
	13600 Jul 06 18:24	30° ℝ ∽			13601 May 24 11:42	0 \circ \mathfrak{S}	
inferior conj	13600 Jul 08 08:27	27° © 57'03	3°07'34	evening max el	13601 Jun 05 06:02	14° 9 56'16	20°27'48
minimum elong	13600 Jul 08 09:24	27° © 53'57	3°06'30	asc. node	13601 Jun 06 14:18	16° © 12'55	
min. Earth dist.	13600 Jul 09 15:31	26°914'37	0.67266 AU	retrograde	13601 Jun 13 06:23	19° 5 32'49	
morning rise	13600 Jul 13 18:55	21° © 32'52		evening set	13601 Jun 17 08:12	17° © 58'04	
direct	13600 Jul 19 18:21	18° © 56'12		inferior conj	13601 Jun 22 14:33	11° © 52'42	3°12'15
desc. node	13600 Jul 22 18:59	19° © 30'12		minimum elong	13601 Jun 22 14:28	11° © 53'01	3°11'12
morning max el	13600 Aug 01 01:53	26°9518'54	25°33'43	min. Earth dist.	13601 Jun 23 07:37	10° © 54'07	0.68295 AU
	13600 Aug 04 11:32	0 ° Ω		morning rise	13601 Jun 27 20:26	5° © 31'48	
	13600 Aug 25 21:30	0° m		direct	13601 Jul 03 08:20	3°506'28	
morning set	13600 Sep 06 01:13	19° m 01'44		desc. node	13601 Jul 09 16:15	5° © 34'27	
max. Earth dist.	13600 Sep 09 16:23	25° m 44'57	1.35980 AU	morning max el	13601 Jul 14 12:01	9° © 47'10	24°07'15
	13600 Sep 11 21:48	0∘ ⊽			13601 Jul 30 11:57	$0^{\circ}\Omega$	
				morning set	13601 Aug 18 21:57	0° m 34'19	
superior conj	13600 Sep 15 18:28	7° ≏ 36'14	-0°00'03		13601 Aug 18 13:57	0° m)	
minimum elong	13600 Sep 15 18:28	7° ≏ 36'14	0°00'01	max. Earth dist.	13601 Aug 22 14:24	7° ™ 01'27	1.38255 AU
behind sun begin	13600 Sep 15 13:07	7° ي 09'27					
behind sun end	13600 Sep 15 23:49	8° ≏ 03'04		superior conj	13601 Aug 29 22:14	20° m 32'24	-0°33'44
asc. node	13600 Sep 15 18:34	7° £ 36'46		minimum elong	13601 Aug 30 00:36	20° m 43'37	
evening rise	13600 Sep 23 17:08	23° ♀ 50'19		asc. node	13601 Sep 02 15:08	27° m) 41'58	
3	13600 Sep 26 18:15	0° M ,			13601 Sep 03 19:17	0∘ <u>⊽</u>	
evening max el	13600 Oct 11 11:10	23°ML06'14	20°03'38	evening rise	13601 Sep 07 18:04	ი — 7° ჲ 48'12	
desc. node	13600 Oct 18 15:12	27°M49'09	20 03 20	evening rise	13601 Sep 20 06:51	0°M	
retrograde	13600 Oct 18 13:12 13600 Oct 21 23:27	28°M20'13		evening max el	13601 Sep 24 04:31	4° ™ 40'44	19°02'50
evening set	13600 Oct 21 23:27 13600 Oct 23 23:45	28°ML09'35		retrograde	13601 Oct 03 01:48	9° M .08'01	17 02 30
inferior conj	13600 Nov 01 21:32	24°M11'08	-4°14'56	evening set	13601 Oct 03 01.48	8°M57'04	
minimum elong	13600 Nov 01 21:32	24°M26'06	4°11'07	desc. node	13601 Oct 04 22:31 13601 Oct 05 12:37	8°M49'16	
min. Earth dist.	13600 Nov 01 11.33 13600 Nov 03 16:37	23°M06'19	0.54937 AU	inferior conj	13601 Oct 03 12.37 13601 Oct 13 08:08	4°M42'30	_2°27'57
		20°M02'21	U.JT/J / MU	·		4°M53'20	
morning rise	13600 Nov 09 22:15			minimum elong	13601 Oct 13 01:50		
direct	13600 Nov 14 16:58	19°M12'34	24015126	min. Earth dist.	13601 Oct 16 04:31	2° M 45'13 29° ₽ 59'44	0.56243 AU
morning max el	13600 Nov 28 08:38 13600 Dec 02 04:44	25°M56'32 0° ∡'	24 13 30	morning rise	13601 Oct 21 02:18 13601 Oct 21 02:03	29° ≥≥ 39°44	
	13000 DCC 02 04.44	· ^			13001 OCt 21 02.03	30 Ŋ <u>==</u>	

direct	13601 Oct 26 16:35	28° Ω 46'33		direct	13602 Oct 08 06:04	8° £ 58'57	
direct	13601 Nov 01 07:19	28 = 4033		morning max el	13602 Oct 08 00:04	6 = 3637 16° £ 35'48	27°13'31
morning max el	13601 Nov 09 19:44	6°M00'22	25°57'08	morning max ci	13602 Nov 02 14:11	0°M	27 1331
morning max ci	13601 Nov 27 07:27	0°×7	23 37 00	asc. node	13602 Nov 16 13:33	23°M40'00	
asc. node	13601 Nov 29 16:41	4° ∡ 18'50		asc. node	13602 Nov 10 13:33	23 11 0 +0 00	
morning set	13601 Dec 07 18:14	20° ₹ 33'17		morning set	13602 Nov 19 17:23 13602 Nov 22 02:57	5°×701'29	
morning set	13601 Dec 07 18:14 13601 Dec 12 01:41	0°る		morning set	13002 1407 22 02.37	3 × 012)	
	13001 Dec 12 01.41	0 0		superior conj	13602 Nov 29 00:20	20° х 10'49	1°33'14
superior conj	13601 Dec 14 12:47	5° る 28'32	1°37'54	minimum elong	13602 Nov 28 23:03		1°34'10
minimum elong	13601 Dec 14 12:28	5°₹26'44		max. Earth dist.	13602 Nov 28 23:39	20° ₹ 06'58	1.31210 AU
max. Earth dist.	13601 Dec 11 12:26	7°る56'18	1.31634 AU	max. Dartif dist.	13602 Dec 03 10:26	0°る	1.51210110
evening rise	13601 Dec 21 13:44	20°る45'03	1.5105.110	evening rise	13602 Dec 05 19:03	5° る 06'29	
e vennig 1150	13601 Dec 26 03:38	0°≈		evening rise	13602 Dec 18 19:43	0°≈	
desc. node	13602 Jan 01 10:35	11° ≈ 34'14		desc. node	13602 Dec 19 07:29	0°≈48'42	
dese. node	13602 Jan 13 11:21	0° ∀		evening max el	13603 Jan 04 19:50	22° ≈ 29'43	26°49'27
evening max el	13602 Jan 22 16:43	10°) 34′59	27°27'39	retrograde	13603 Jan 18 18:49	29° ≈ 39'55	
retrograde	13602 Feb 05 15:00	17°) 54'38	_, _, _,	evening set	13603 Jan 25 10:36	27° ≈ 48'28	
evening set	13602 Feb 12 12:26	15°) (41'57		min. Earth dist.	13603 Jan 29 09:50	25°≈10'05	0.59424 AU
min. Earth dist.	13602 Feb 16 06:49	12°) (48'42	0.61605 AU	inferior conj	13603 Feb 01 14:20	22°≈38'59	
inferior conj	13602 Feb 19 08:08	10° ₩ 02'27		minimum elong	13603 Feb 01 21:42	22°≈24'22	3°22'17
minimum elong	13602 Feb 19 12:26	9° H 52'41	1°59'54	morning rise	13603 Feb 09 11:54	17°≈59'45	3 22 17
asc. node	13602 Feb 25 14:37	5° ¥ 25'40	1 0,0.	direct	13603 Feb 11 12:52	17° ≈ 44'25	
morning rise	13602 Feb 26 15:20	5° ₩ 02'22		asc. node	13603 Feb 12 12:03	17° ≈ 47'59	
direct	13602 Feb 28 19:26	4°) (41'56		morning max el	13603 Feb 19 05:26	21°≈33'20	18°11'44
morning max el	13602 Mar 07 16:47	8° ₩ 10'39	17°50'01	monning man vi	13603 Feb 25 16:15	0° ∀	10 11
morning man er	13602 Mar 21 23:14	0°Υ	1, 2001	morning set	13603 Mar 06 21:04	16° ¥ 24'06	
morning set	13602 Mar 23 09:33	2° Υ 33'40		morning sec	13603 Mar 14 03:59	0°Υ	
desc. node	13602 Mar 30 12:31	15° Υ 13'19			15005 1144 11 05.59	• •	
dese. node	15002 1141 50 12.51	10 (101)		superior conj	13603 Mar 16 12:00	4° Ƴ 14'17	0°07'02
superior conj	13602 Apr 03 10:54	22°Υ00'58	-0°30'38	minimum elong	13603 Mar 16 12:32	4°Υ16'43	0°06'58
minimum elong	13602 Apr 03 08:02	21°Υ48'45	0°30'28	behind sun begin	13603 Mar 16 05:41	3°Υ45'54	0 0000
minimum viong	13602 Apr 08 05:02	0°8	0 30 20	behind sun end	13603 Mar 16 19:22	4° Υ 47'28	
max. Earth dist.	13602 Apr 10 15:35	3° 8 59'58	1.43428 AU	desc. node	13603 Mar 17 09:00	5° Υ 48'31	
evening rise	13602 Apr 17 13:12	14° 8 59'21		max. Earth dist.	13603 Mar 24 02:50	17° Y '31'20	1.41479 AU
e vennig rise	13602 Apr 27 10:08	0°Ⅱ		evening rise	13603 Mar 28 23:23	25° Y 33'18	1.111//
evening max el	13602 May 19 02:37	28° I I45'54	21°39'58	evening rise	13603 Mar 31 17:53	0°8	
e venning man er	13602 May 20 09:26	0°©	21 33 00		13603 Apr 21 05:11	0°II	
asc. node	13602 May 24 11:26	3° © 01'48		evening max el	13603 May 01 18:48	12° ∏ 36′22	22°59'25
retrograde	13602 May 28 04:42	4°904'59		asc. node	13603 May 11 08:39	18° ∏ 36'57	22 37 23
evening set	13602 Jun 01 17:16	2° © 13'47		retrograde	13603 May 12 01:02	18° ∏ 39'05	
evening sec	13602 Jun 03 22:03	30°R∏		evening set	13603 May 17 00:57	16° Ⅲ 32'54	
inferior conj	13602 Jun 06 23:25	25° ∏ 57'41	3°05'34	inferior conj	13603 May 22 09:04	10° Ⅱ 08'15	2°48'26
minimum elong	13602 Jun 06 22:24	26° Ⅱ 01'14	3°04'26	minimum elong	13603 May 22 07:20	10° Ⅱ 14'17	2°47'10
min. Earth dist.	13602 Jun 07 03:05	25° I I44'53	0.68845 AU	min. Earth dist.	13603 May 21 23:51	10° Ⅱ 40'13	0.68912 AU
morning rise	13602 Jun 12 03:19	19° Ⅲ 42'22	0.000 10 110	morning rise	13603 May 27 13:37	3° П 59'53	0.00912110
direct	13602 Jun 17 02:35	17° Ⅲ 33'57		direct	13603 Jun 01 00:01	2° П 11'32	
desc. node	13602 Jun 26 13:25	22° I 58'46		morning max el	13603 Jun 09 15:05	7° П 09'56	21°13'23
morning max el	13602 Jun 26 23:22	23° I I23'29	22°37'45	desc. node	13603 Jun 13 10:29	11° ∏ 21'50	21 13 23
	13602 Jul 02 19:02	0°9	/		13603 Jun 27 03:14	0°95	
	13602 Jul 23 20:27	$0^{\circ}\Omega$		morning set	13603 Jul 10 15:57	20° © 31'23	
morning set	13602 Jul 30 19:18	11° Ω 04'46		morning set	13603 Jul 16 14:36	0°Ω	
max. Earth dist.	13602 Aug 04 13:40	19° Ω 00'46	1.40610 AU	max. Earth dist.	13603 Jul 17 18:38		1.42750 AU
max. Lartii dist.	13602 Aug 10 21:18	0° m	1.40010710	max. Earth dist.	15005 341 17 10.50	1 003402	1.42/30/10
	13002 Hug 10 21.10	پي. پ		superior conj	13603 Jul 25 00:46	14° Ω 00'37	-1°41'26
superior conj	13602 Aug 12 09:49	2° m 43'48	-1°08'52	minimum elong	13603 Jul 25 07:56	14° Ω 31'13	
minimum elong	13602 Aug 12 14:59	3°M)07'09	1°08'39	Crong	13603 Aug 03 03:38	0° m)	
asc. node	13602 Aug 20 11:43	17° m) 41'48	1 00 37	evening rise	13603 Aug 05 12:58	برا 4° ال 17'31	
evening rise	13602 Aug 20 11:43	21°M)20'41		asc. node	13603 Aug 07 08:21	7° mp 32'29	
2 , ching 1150	13602 Aug 27 01:17	ე∘ <u>ი</u>		abe. Houe	13603 Aug 07 08:21 13603 Aug 21 22:44	0° ʊ	
evening max el	13602 Sep 07 08:54	0 = 16° £ 59'30	18°23'37	evening max el	13603 Aug 21 22:44 13603 Aug 21 20:11	29° Mp 53'44	18°04'50
retrograde	13602 Sep 07 08.34 13602 Sep 14 23:30	20° £ 50'38	10 23 3 /	retrograde	13603 Aug 21 20:11 13603 Aug 28 15:04	3° £ 22'32	10 07 20
evening set	13602 Sep 14 23:30 13602 Sep 17 00:42	20° ⊆ 30'38 20° ⊆ 34'35		evening set	13603 Aug 28 13.04 13603 Aug 30 23:39	2° £ 57'31	
desc. node	13602 Sep 17 00.42 13602 Sep 22 10:08	20 2 34 33		evening set	13603 Aug 30 23.39 13603 Sep 04 16:47	2 ==3/31 30°R, Mp	
inferior conj	13602 Sep 22 10.08 13602 Sep 24 16:15	17 2 44 17 15° 2 59'00	-0°42'41	inferior conj	13603 Sep 04 16.47 13603 Sep 06 21:20	אָרואָ 30 אָרואָ 100 (28° מוּער) 28° מוּער	0°44'12
minimum elong	13602 Sep 24 16.13 13602 Sep 24 14:37	15 2 3900	0°41'51	minimum elong	13603 Sep 06 21:20 13603 Sep 06 22:41	28 my 58'25	0°43'34
min. Earth dist.	=	13° £ 02'16		desc. node	13603 Sep 06 22:41 13603 Sep 09 07:40	27° m/ 44'43	0 43 34
min. Earth dist.	13602 Sep 27 22:55 13602 Oct 02 01:04	13° 1 21′21′10° 1 39′04	0.58177 AU	min. Earth dist.	13603 Sep 09 07:40 13603 Sep 10 02:07	25° m 02'56	0.60422 AU
morning rise	13002 Oct 02 01.04	10 == 39 04		mm. Earth dist.	13003 Sep 10 02.0/	25 الإلا 25	0.00422 AU

momming michael 1360 Sep 20 652 20 20196450 meming max of 1360 Sep 20 652 20 20196400 meming max of 1360 Sep 20 652 20 20196400 meming max of 1360 Sep 20 652 20 20 20 10 11 20 20 20 20 20 20 20 20 20 20 20 20 20								
Manual	morning rise	13603 Sep 13 18:40	22° Mp 11'05		min. Earth dist.	•	7° ™ 43'48	0.62691 AU
1908 Oct 00 1422 0°A					•	•		
1940 Sec. 12 90.00 1978 Sec. 10	morning max el	13603 Oct 04 15:21	27° m 58'22	27°53'24	desc. node	13604 Aug 26 05:12	4° ™ 31'15	
Machine Mach		13603 Oct 06 14:32	0∘ ರ		direct	13604 Sep 01 21:25	2° m)04'17	
manuface 1360 Novo 1072 1975 1361 1360 1360 1060 1360		13603 Oct 27 09:02	0° M		morning max el	13604 Sep 15 22:48	10° Mp 05'56	27°54'18
max Sand No Poly meming set 1.5601 Cet 20 mg 3 mg 1 mg 2 mg	asc. node	13603 Nov 03 10:20	13°M20'48			13604 Oct 01 12:23		
max. Earth date 1908 Nov 12 072 27 24 249 1311 AU mc. roard for 1908 1908 14 19 19 244 1908	morning set	13603 Nov 06 07:24	19°M14'27			13604 Oct 18 16:16	0° M	
Superior Curi 1560 Nov 15 126		13603 Nov 11 07:22	0° ∡ ¹		morning set	13604 Oct 20 05:22	3°M06'24	
Supplication 1,960 Nov 1,1125 4,74819 122247 supplication 1,960 Nov 2,7 1207 1,971,125 1,973 1,973 1,973 1,974 1,9	max. Earth dist.	13603 Nov 12 07:25	2° ҂ 12'49	1.31311 AU	asc. node	13604 Oct 20 07:01	3° ™ 14'47	
minimal boll 350 No. Vo. 10 ebb 4 × 2 × 17.13 1/2 × 22 superior conj 1.540 No. Vo. 20 ebb 9 × 2 × 2 × 2 × 2 1.540 No. Vo. 20 ebb 9 × 2 × 2 × 2 1.540 No. Vo. 20 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb 1.540 No. Vo. 10 ebb 1.540 No. Vo. 10 ebb 9 × 2 × 2 1.540 No. Vo. 10 ebb					max. Earth dist.	13604 Oct 25 10:43	14°M03'24	1.31946 AU
Section 1908 Nov 20 04-09 99°81955 minimum elong 1904 Oct 27 1750 99°80255 100°850 100°850 13600 Nov 13 1500 470°800 13600 Nov 13 1500	superior conj	13603 Nov 13 11:26	4° ∡ ¹48'19	1°22'47				
1969 1969	minimum elong	13603 Nov 13 09:26	4° 渘 37'13	1°23'27	superior conj	13604 Oct 27 20:07	19° M 15'25	1°06'37
Seeling the condition 1900 Dec 60 64-32 98-2013 5 1960	evening rise	13603 Nov 20 04:09	19° х 35′52		minimum elong	13604 Oct 27 17:50	19° ™ 02'55	1°06'59
1909 1909		13603 Nov 25 04:08	5°0			13604 Nov 01 17:25	0° ∡ ″	
Cereing maxed 13603 Dec 7 1437 98-81 10 28-88 7 10 10 10 10 10 10 10	desc. node	13603 Dec 06 04:32	19° る 21'35		evening rise	13604 Nov 03 15:04	4° ₮ 08'01	
Integrate 1360 Bee 31 H.158 078-81/20 cerning max 13604 Dec 11 H.634 20°54175 cerning max 13604 Dec 12 H.324 13°54184 cerning max 13604 Dec 12 H.324		13603 Dec 14 05:28	0° ≈			13604 Nov 17 06:05	0°る	
Persigned 1360 1	evening max el	13603 Dec 17 14:37	3° ≈ 31'01	25°38'07	desc. node	13604 Nov 22 01:41	6° る 57'09	
min End dist. 13604 Jan 1 1 0 305 6%-2073 0 57348 AU evening set minimum clong 13604 Jan 1 4 0049 4%-20746 4°4535 min End dist. 13604 Dec 21 1325 16°54701 0.5564 AU morning rie 13604 Jan 2 2 0956 0*8e1250 minimum clong 13604 Dec 21 4154 18°53018 5°43714 direct 13604 Jan 2 1 259 0*8e1250 morning ris 13605 Jan 0 4 171 18°13348 5°4174 direct 13604 Jan 2 1 259 0*75075 morning min clong 13605 Jan 0 4 171 18°13348 5°4174 asc. node 13604 Jan 2 0 055 4°48130 18°45150 morning min clong 13605 Jan 1 0 1710 18°5170 19°5950 asc. node 13604 Feb 18 1030 0*4 **8 morning set 13605 Feb 0 0 002 15°84170 19°8510 superior conj 13604 Feb 18 1030 0*74 **8 superior conj 13605 Feb 0 0 002 15°84170 19°4154 19°410 superior conj 13604 Mar 0 5 053 0*74194 13228 AU **9 13605 Feb 0 0 050 0**11154 19°4154<	retrograde	13603 Dec 31 11:58	10° ≈ 31'20		evening max el	13604 Nov 28 02:08	13° る 48'07	24°03'10
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max. Earth dist. 13604 Jun 29 05:49 15°©33'38 1.44443 AU superior conj 13605 Jun 14 09:55 3°©41'57 -2°13'33 superior conj 13604 Jul 04 15:59 24°©16'43 -2°05'23 minimum elong 13605 Jun 14 09:19 3°©39'38 2°14'36 minimum elong 13604 Jul 04 21:46 24°©40'15 2°06'04 evening rise 13605 Jun 29 07:33 27°©33'31 -2°14'36 evening rise 13604 Jul 17 21:44 16° Ω 25'13 asc. node 13605 Jul 19 00:15 26° Ω 48'15 18°23'40 evening rise 13604 Jul 24 05:02 27° Ω 08'48 evening max el 13605 Jul 19 00:15 26° Ω 48'15 18°23'40 evening max el 13604 Jul 25 22:21 0° Ω retrograde 13605 Jul 25 10:03 0° Ω 13'51 retrograde 13604 Aug 10 20:01 16° Ω 3'11 18°05'12 retrograde 13605 Jul 25 10:03 0° Ω 1'15'15'15 evening set 13604 Aug 10 12:02 1	morning set				max. Earm dist.			1.43313 AU
superior conj 13604 Jul 04 15:59 24°S16'43 -2°05'23 minimum elong 13605 Jun 14 09:55 3°S39'38 2°14'36 minimum elong 13604 Jul 04 21:46 24°S40'15 2°06'04 evening rise 13605 Jun 29 07:33 27°S33'31 -2°03'35 2°14'36 evening rise 13604 Jul 17 21:44 16°Ω25'13 asc. node 13605 Jul 19 10:49 16°Ω25'15 -2°03'34'16	F4b 4i-4			1 44442 ATT		13005 Jun 12 01:23	0.50	
superior conj 13604 Jul 04 15:59 24°\$16'43 -2°05'23 minimum elong 13605 Jun 14 09:19 3°\$39'38 2°14'36 minimum elong 13604 Jul 04 21:46 24°\$40'15 2°06'04 evening rise 13605 Jun 30 19:32 0°\$\Omega\$ evening rise 13604 Jul 17 21:44 16°\$\Omega\$25'13 asc. node 13605 Jul 11 01:49 16°\$\Omega\$25'15 asc. node 13604 Jul 24 05:02 27°\$\Omega\$08'48 evening max el 13605 Jul 19 00:15 26°\$\Omega\$48'15 18°23'40 evening max el 13604 Jul 25 22:21 0°\$\textstyle{m}\$ retrograde 13605 Jul 23 19:51 0°\$\textstyle{m}\$ evening max el 13604 Aug 04 10:25 13°\$\textstyle{m}\$12'46 18°05'12 retrograde 13605 Jul 25 10:03 0°\$\textstyle{m}\$13'51 retrograde 13604 Aug 13 12:52 15°\$\textstyle{m}\$5'5'53 evening set 13605 Jul	max. Earth dist.	13004 Jun 29 05:49	15-93538	1.44443 AU		12(05 1 14 00.55	206241157	2012122
minimum elong $13604 \text{ Jul} \ 04 \ 21:46 \ 24^{\circ} 340'15 \ 2^{\circ}06'04$ evening rise $13605 \text{ Jun} \ 29 \ 07:33 \ 27^{\circ} 33'31$ evening rise $13604 \text{ Jul} \ 08 \ 03:47 \ 0^{\circ} \Omega$ asc. node $13605 \text{ Jun} \ 30 \ 19:32 \ 0^{\circ} \Omega$ evening rise asc. node $13604 \text{ Jul} \ 10:49 \ 16^{\circ} \Omega 25'15$ asc. node $13604 \text{ Jul} \ 24 \ 05:02 \ 27^{\circ} \Omega 08'48$ evening max el $13605 \text{ Jul} \ 19 \ 00:15 \ 26^{\circ} \Omega 48'15 \ 18^{\circ} 23'40$ evening max el $13604 \text{ Jul} \ 25 \ 22:21 \ 0^{\circ} \text{ mp}$ retrograde $13604 \text{ Jul} \ 25 \ 20:01 \ 16^{\circ} \text{ mp} 33'11$ retrograde $13604 \text{ Aug} \ 10 \ 20:01 \ 16^{\circ} \text{ mp} 33'11$ evening set $13604 \text{ Aug} \ 19 \ 19:40 \ 10^{\circ} \text{ mp} 41'45 \ 1^{\circ} 48'44$ inferior conj $13605 \text{ Aug} \ 0 \ 07:10 \ 23^{\circ} \Omega 51'19 \ 2^{\circ} 32'36$		12604 1-1 04 15.50	2496-17142	2005122				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					-			2 14 30
evening rise 13604 Jul 17 21:44 16° Ω 25'13 asc. node 13605 Jul 11 01:49 16° Ω 25'15 asc. node 13604 Jul 24 05:02 27° Ω 08'48 evening max el 13605 Jul 19 00:15 26° Ω 48'15 18°23'40 evening max el 13604 Jul 25 22:21 0° Ω 0° Mp evening max el 13605 Jul 23 19:51 0° Ω 0° Mp evening max el 13604 Aug 10 20:01 16° Ω 03'11 retrograde 13605 Jul 25 10:03 0° Ω 0° Mp 13'51 evening set 13604 Aug 13 12:52 15° Ω 0° Mp 13'51 evening set 13604 Aug 19 19:40 10° Ω 0° Mp 14'45 1°48'44 inferior conj 13605 Aug 10 30'7:10 23° Ω 51'19 2°32'36	minimum elong			∠-00 04	evening rise			
asc. node 13604 Jul $24 \ 05:02$ $27^\circ \Omega 08'48$ evening max el 13605 Jul $19 \ 00:15$ $26^\circ \Omega 48'15$ $18^\circ 23'40$ evening max el 13604 Jul $25 \ 22:21$ 0° Try retrograde 13604 Aug $10:25$ $13^\circ \text{ Try} 12'46$ $18^\circ 05'12$ retrograde 13605 Jul $25 \ 10:03$ $0^\circ \text{ Try} 13'51$ retrograde 13604 Aug $10 \ 20:01$ $16^\circ \text{ Try} 33'11$ $10:00000000000000000000000000000000000$					1			
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evening max el 13604 Aug 04 10:25 13° m/12'46 18°05'12 retrograde 13605 Jul 25 10:03 0° m/13'51 retrograde 13604 Aug 10 20:01 16° m/33'11 13605 Jul 26 23:51 30° $_{\rm R}\Omega$ evening set 13604 Aug 13 12:52 15° m/55'53 evening set 13605 Jul 28 11:33 29° $_{\rm R}\Omega$ 1'46 inferior conj 13604 Aug 19 19:40 10° m/41'45 1° 48'44 inferior conj 13605 Aug 03 07:10 23° $_{\rm R}\Omega$ 5' 2° 32'36	asc. node				evening max el			18-25-40
retrograde 13604 Aug 10 20:01 16° m/33'11 13605 Jul 26 23:51 30° R Ω evening set 13604 Aug 13 12:52 15° m/55'53 evening set 13605 Jul 28 11:33 29° Ω 21'46 inferior conj 13604 Aug 19 19:40 10° m/41'45 1°48'44 inferior conj 13605 Aug 03 07:10 23° Ω 51'19 2°32'36				10005112	, ,			
evening set 13604 Aug 13 12:52 15° \mathfrak{m} 55'53 evening set 13605 Jul 28 11:33 29° \mathfrak{N} 21'46 inferior conj 13604 Aug 19 19:40 10° \mathfrak{m} 41'45 1° 48'44 inferior conj 13605 Aug 03 07:10 23° \mathfrak{N} 51'19 2° 32'36	•	•	-	18~05'12	retrograde			
inferior conj 13604 Aug 19 19:40 10° Mp41'45 1°48'44 inferior conj 13605 Aug 03 07:10 23° Q51'19 2°32'36	•	-						
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minimum elong 13604 Aug 19 22:07 10° 110 35°15 1° 47°33 minimum elong 13605 Aug 03 09:27 23° \$\lambda 444'33 2° 31'23	-	-			3	-		
	mınımum elong	13604 Aug 19 22:07	10° mp35'15	1~47/33	minimum elong	13605 Aug 03 09:27	23° 81 44'33	2°31'23

		0		_			
min. Earth dist.	13605 Aug 05 13:04	21° Ω 12'57	0.64762 AU	evening set	13606 Jul 12 16:11	13° Ω 08'37	
morning rise	13605 Aug 09 06:02	17° Ω 30'31		inferior conj	13606 Jul 18 04:10	7° Ω 23'23	2°59'03
desc. node	13605 Aug 13 02:42	15° Ω 17'55		minimum elong	13606 Jul 18 05:41	7° Ω 18'32	2°57'56
direct	13605 Aug 15 19:04	14° Ω 52'11		min. Earth dist.	13606 Jul 19 19:30	5° Ω 18'13	0.66478 AU
morning max el	13605 Aug 29 09:09	22° Ω 49'33	27°20'03	morning rise	13606 Jul 23 18:29	0° Ω 59'11	
	13605 Sep 04 17:30	0° m y			13606 Jul 25 00:48	30° ℝ ∽	
	13605 Sep 24 19:11	0∘ ত		direct	13606 Jul 29 23:48	28°9519'31	
morning set	13605 Oct 03 18:16	16° ≏ 30'47		desc. node	13606 Jul 31 00:07	28° © 23'18	
asc. node	13605 Oct 07 03:39	23° ₽ 17'06			13606 Aug 04 11:52	$0^{\circ}\Omega$	
max. Earth dist.	13605 Oct 08 06:05	25° ₽ 32'38	1.33123 AU	morning max el	13606 Aug 11 20:16	5° Ω 58'35	26°18'14
max. Earth dist.	13605 Oct 10 09:23	0°M	1.55125 110	morning max cr	13606 Aug 30 08:50	0° m	20 1011
	13003 001 10 07.23	O III		morning set	13606 Sep 16 18:53	29° Mg 20'07	
aumarian aani	13605 Oct 12 00:19	3°M26'18	0°44'50	morning set	13606 Sep 17 03:24	0° ت	
superior conj				F 41 F 4	•		1 24015 ATT
minimum elong	13605 Oct 11 22:19	3°M15'39	0°44'57	max. Earth dist.	13606 Sep 20 15:43	6° ₽ 43'30	1.34815 AU
evening rise	13605 Oct 19 01:58	18°M38'04		asc. node	13606 Sep 24 00:14	13° ≏ 23'46	
	13605 Oct 24 14:47	0° ∡					
desc. node	13605 Nov 08 22:57	23° ∡ 14'10		superior conj	13606 Sep 25 21:32	17° ≏ 14'46	0°17'44
evening max el	13605 Nov 09 12:54	23° ∡ ¹48'57	22°20'59	minimum elong	13606 Sep 25 20:34	17° ≏ 09'45	0°17'45
	13605 Nov 20 06:16	0°₹			13606 Oct 02 00:14	0°M₊	
retrograde	13605 Nov 22 08:28	0° ප 10'06		evening rise	13606 Oct 03 10:54	3° ጤ 01'10	
	13605 Nov 24 11:31	30°₽ ⋌			13606 Oct 18 16:33	0° ∡ ¹	
evening set	13605 Nov 25 21:16	29° х 42'41		evening max el	13606 Oct 22 08:19	4° ∡ 10'41	20°48'21
inferior conj	13605 Dec 04 12:00	25° ∡ ¹46'58	-5°54'25	desc. node	13606 Oct 26 20:17	7° ∡ ¹46'51	
minimum elong	13605 Dec 04 09:04	25° ₹ '51'06	5°53'13	retrograde	13606 Nov 02 19:02	9° ∡ 52′02	
min. Earth dist.	13605 Dec 03 19:58	26° ₹ '09'31	0.54671 AU	evening set	13606 Nov 05 04:24	9° х 38′15	
morning rise	13605 Dec 12 22:01	21°×7'59'39	0.5 1071 110	inferior conj	13606 Nov 14 03:28	5° √ 44'15	-5°05'43
direct	13605 Dec 16 05:59	21° x 3737		minimum elong	13606 Nov 13 17:55	5° × 57'54	
			2192750	Č			
morning max el	13605 Dec 28 03:47	27° х 16'35	21°27'50	min. Earth dist.	13606 Nov 15 02:07	5°×711'53	0.54571 AU
•	13605 Dec 30 18:10	0°る		morning rise	13606 Nov 22 07:34	1° × 749'41	
asc. node	13606 Jan 03 03:59	4° る 19'19		direct	13606 Nov 26 13:57	1° ∡ 10'42	
morning set	13606 Jan 17 09:46	0° ≈ 00'37		morning max el	13606 Dec 09 17:29	7° ∡ ³32'57 −	23°12'47
	13606 Jan 17 09:38	0° ≈		asc. node	13606 Dec 21 01:06	22° ∡ ′09'40	
					13606 Dec 25 13:00	0°₹	
superior conj	13606 Jan 24 15:13	15° ≈ 13'45	1°21'57	morning set	13607 Jan 01 21:18	14° る 46'56	
minimum elong	13606 Jan 24 17:31	15° ≈ 25'44	1°22'31				
max. Earth dist.	13606 Jan 29 03:07	24° ≈ 24′01	1.34986 AU	superior conj	13607 Jan 08 19:10	29° る 42'34	1°33'07
	13606 Jan 31 23:45	0° ∀		minimum elong	13607 Jan 08 20:33	29° る 50'02	1°34'00
evening rise	13606 Feb 02 06:09	2° ¥ 24'58			13607 Jan 08 22:24	0° ≈	
desc. node	13606 Feb 04 22:39	7° ¥ 24'33		max. Earth dist.	13607 Jan 11 21:28	6°≈17'48	1.33321 AU
	13606 Feb 18 12:34	$0^{\circ}\Upsilon$		evening rise	13607 Jan 16 15:16	15° ≈ 58'39	
evening max el	13606 Mar 09 12:00	24° Υ '08'31	26°37'29	desc. node	13607 Jan 22 19:18	27° ≈ 39'27	
o vonning man or	13606 Mar 17 02:57	0°8	20 3 / 2 /	dese. node	13607 Jan 24 02:44	0° ∀	
retrograde	13606 Mar 22 14:07	1° 8 31'21			13607 Feb 13 02:10	0° Υ	
retrograde	13606 Mar 27 13:29	30°RΥ		evening max el	13607 Feb 20 01:24	7° Υ 39'37	27°19'13
		28° Y ′59′24		C		15° Υ 06'59	2/ 1913
evening set	13606 Mar 28 23:20			retrograde	13607 Mar 05 15:02		
asc. node	13606 Apr 01 00:48	26° ℃ 01'13	0.66410.477	evening set	13607 Mar 12 08:26	12° Υ 36'28	0.64554.433
min. Earth dist.	13606 Apr 02 00:41	24° Y ′53'00	0.66413 AU	min. Earth dist.	13607 Mar 16 05:13	9° Υ '02'26	0.64774 AU
inferior conj	13606 Apr 03 23:16	22° Y ′34′09	0°54'51	inferior conj	13607 Mar 18 15:47	6° Y 23′10	
minimum elong	13606 Apr 03 21:55	22° Y 38′12	0°54'03	minimum elong	13607 Mar 18 15:56	6° Y 22'46	0°05'10
morning rise	13606 Apr 09 21:34	16° Ƴ 54'10		transit middle	13607 Mar 18 15:56	6° Y 22'46	0°05'10
direct	13606 Apr 12 21:42	16° Ƴ 03'49		transit begin	13607 Mar 18 13:03	6° Ƴ 30'40	
morning max el	13606 Apr 19 07:59	19° Ƴ 27'54	18°19'20	transit end	13607 Mar 18 18:50	6° Ƴ 14'52	
	13606 Apr 27 12:45	$_{0\circ}$ 8		asc. node	13607 Mar 18 22:16	6° Ƴ 05'31	
desc. node	13606 May 04 00:58	10° 8 04'09		morning rise	13607 Mar 25 01:16	0° Ƴ 56'42	
morning set	13606 May 09 04:14	18° 8 14'06		direct	13607 Mar 27 16:17	0° Υ 20'48	
8 - 11	13606 May 16 14:18	0°II		morning max el	13607 Apr 03 00:30	3° Y '37'53	17°54'08
		-		morning set	13607 Apr 20 11:51	29° Y ′39'04	-, -, -, -, -, -, -, -, -, -, -, -, -, -
superior conj	13606 May 24 17:47	12° Ⅱ 46'54	-2°01'37	desc. node	13607 Apr 20 21:34	0° 8 19'26	
minimum elong	13606 May 24 17:47 13606 May 24 10:12	12 Ⅱ 40 34 12° Ⅱ 17'17		dese. Houc	13607 Apr 20 21:34 13607 Apr 20 16:53	0°8	
C					1300 / Apr 20 10:33	υ Ο	
max. Earth dist.	13606 May 25 18:11	14° Ⅱ 22'08	1.45857 AU		1260734 01 00 1	2206 31	1022116
	13606 Jun 04 18:40	0°©		superior conj	13607 May 04 09:10	22° 8 17'54	
evening rise	13606 Jun 09 16:55	7° 5 42'01		minimum elong	13607 May 04 00:21	21° 8 42'47	
greatest brilliancy	13606 Jun 19 23:40	23°9541'46	-0.8m	max. Earth dist.	13607 May 08 14:23	28° 8 58'17	1.45444 AU
	13606 Jun 24 04:36	$0^{\circ}\Omega$			13607 May 09 06:07	Π $^{\circ}0$	
asc. node	13606 Jun 27 22:40	5° £ 14'32		evening rise	13607 May 20 08:14	17° Ⅱ 10′56	
evening max el	13606 Jul 02 10:56	10° Ω 32'57	18°59'30		13607 May 28 18:31	0 \circ \mathfrak{s}	
retrograde	13606 Jul 09 05:39	14° Ω 17'02		greatest brilliancy	13607 Jun 03 22:02	9° 5 07'18	-0.6m
				-			

asc. node	13607 Jun 14 19:37	23° © 27'05		evening max el	13608 May 28 16:06	8°ഇ10'07	20°57'14
evening max el	13607 Jun 14 19:37 13607 Jun 15 16:28	23 5 27 03 24° 5 21'03	19°51'26	asc. node	13608 May 31 16:42	10°951'00	20 37 14
•	13607 Jun 13 16.28 13607 Jun 23 04:03	28°935'48	19 31 20		13608 Jun 06 03:02	10 \$31 00 13°\$04'48	
retrograde				retrograde			
evening set	13607 Jun 27 00:07	27°©10'31	2011102	evening set	13608 Jun 10 09:18	11°522'53	2010144
inferior conj	13607 Jul 02 07:41	21°511'52	3°11'02	inferior conj	13608 Jun 15 15:15	5°512'28	3°10'44
minimum elong	13607 Jul 02 08:11	21°5510'11	3°09'59	minimum elong	13608 Jun 15 14:45	5°514'13	3°09'40
min. Earth dist.	13607 Jul 03 08:37	19°547'58	0.67762 AU	min. Earth dist.	13608 Jun 16 02:30	4°933'27	0.68580 AU
morning rise	13607 Jul 07 15:54	14°548'51			13608 Jun 19 16:52	30°RⅡ	
direct	13607 Jul 13 10:33	12° © 16'30		morning rise	13608 Jun 20 19:57	28° Ⅱ 53'35	
desc. node	13607 Jul 17 21:27	13°930'00		direct	13608 Jun 26 02:25	26° ∏ 35'05	
morning max el	13607 Jul 25 06:52	19° © 22'32	24°57'59	desc. node	13608 Jul 03 18:40	0°511'28	
	13607 Aug 03 07:42	0° N			13608 Jul 03 13:06	0°©	
	13607 Aug 23 11:23	0° m		morning max el	13608 Jul 06 17:25	2° © 55'17	23°29'07
morning set	13607 Aug 30 03:06	11° m 23'59			13608 Jul 27 09:23	0 \circ Ω	
max. Earth dist.	13607 Sep 02 16:53	17° m 51'29	1.36926 AU	morning set	13608 Aug 10 14:27	22° Ω 32'09	
		_		max. Earth dist.	13608 Aug 14 14:41	29° Ω 23'52	1.39262 AU
superior conj	13607 Sep 09 08:42	0° ≏ 32'15			13608 Aug 14 22:58	0° m)	
minimum elong	13607 Sep 09 09:36	0° ≏ 36'41	0°13'54				
behind sun begin	13607 Sep 09 06:15	0° ჲ 20'13		superior conj	13608 Aug 22 06:09	13° m) 10'47	
behind sun end	13607 Sep 09 12:58	0° ≏ 53'11		minimum elong	13608 Aug 22 09:41	13° m)27'17	0°48'25
	13607 Sep 09 02:07	0∘ ত		asc. node	13608 Aug 27 17:20	23° m 33'55	
asc. node	13607 Sep 10 20:46	3° ჲ 30′23			13608 Aug 31 01:00	0∘ ⊽	
evening rise	13607 Sep 17 15:33	17° £ 10′24		evening rise	13608 Aug 31 13:11	0° ჲ 59'03	
	13607 Sep 24 05:46	0° M		evening max el	13608 Sep 16 16:09	27° £ 10'48	18°43'31
evening max el	13607 Oct 04 17:37	15°M16'18	19°34'59		13608 Sep 20 05:43	0° M ₊	
desc. node	13607 Oct 13 17:43	20° M $08'20$		retrograde	13608 Sep 24 23:19	1°M21'20	
retrograde	13607 Oct 14 12:51	20° M $_10'12$		evening set	13608 Sep 26 21:10	1°ML08'51	
evening set	13607 Oct 16 10:05	20° ML $00'07$		desc. node	13608 Sep 29 15:10	0°M10'50	
inferior conj	13607 Oct 25 03:51	15°M55'22	-3°30'59		13608 Sep 29 23:58	30° ₹ Ω	
minimum elong	13607 Oct 24 19:01	16°ML09'23	3°27'15	inferior conj	13608 Oct 04 23:26	26° ≏ 45'43	-1°41'46
min. Earth dist.	13607 Oct 27 11:16	14°M27'36	0.55397 AU	minimum elong	13608 Oct 04 19:14	26° ≏ 53'27	1°39'44
morning rise	13607 Nov 02 02:03	11°ML33'17		min. Earth dist.	13608 Oct 08 02:01	24° ≏ 28'58	0.57008 AU
direct	13607 Nov 07 05:15	10° MJ34'32		morning rise	13608 Oct 12 13:55	21° ≏ 46′21	
morning max el	13607 Nov 21 03:16	17°M31'48	25°00'55	direct	13608 Oct 18 11:00	20° ≏ 21'50	
	13607 Dec 01 08:33	0° ∡ ¹		morning max el	13608 Nov 01 17:04	27° ≏ 47'06	26°33'29
asc. node	13607 Dec 07 22:07	10° ∡ ⁴43'41			13608 Nov 03 21:18	0° M.	
morning set	13607 Dec 17 09:07	29° х 29′54		asc. node	13608 Nov 23 19:03	29°M50'16	
	13607 Dec 17 14:43	ರ°0			13608 Nov 23 21:06	0° ∡ ¹	
				morning set	13608 Nov 30 19:29	14° ∡ ¹05′00	
superior conj	13607 Dec 24 03:43	14° පි 21'37	1°37'55				
minimum elong	13607 Dec 24 04:01	14° る 23'15	1°38'57	superior conj	13608 Dec 07 14:47	29° х 04'43	1°36'39
max. Earth dist.	13607 Dec 25 23:01	18° る 18'59	1.32105 AU	minimum elong	13608 Dec 07 14:01	29° х ¹00′28	1°37'39
evening rise	13607 Dec 31 10:16	29° る 55'56		max. Earth dist.	13608 Dec 08 05:37	0° る 27'28	1.31387 AU
	13607 Dec 31 11:03	0° ≈			13608 Dec 08 00:42	5°0	
desc. node	13608 Jan 09 16:03	17° ≈ 36'54		evening rise	13608 Dec 14 12:31	14° る 10'30	
	13608 Jan 17 04:00	0° ∀			13608 Dec 22 12:00	0° ≈	
evening max el	13608 Feb 02 12:37	20°) 42′27	27°33'45	desc. node	13608 Dec 26 12:54	7° ≈ 09'40	
retrograde	13608 Feb 16 08:55	28°) €07'05			13609 Jan 11 18:48	0°) €	
evening set	13608 Feb 23 06:33	25°) 45′14		evening max el	13609 Jan 14 19:26	3°) €05'06	27°15'40
min. Earth dist.	13608 Feb 27 00:39	22°) 39′19	0.62820 AU	retrograde	13609 Jan 28 18:40	10°) 21′50	
inferior conj	13608 Feb 29 21:42	19°) 51'14	-1°16'34	evening set	13609 Feb 04 14:34	8° 升 17′05	
minimum elong	13608 Mar 01 00:16	19°) 44'59	1°15'14	min. Earth dist.	13609 Feb 08 09:58	5°) 31'35	0.60670 AU
asc. node	13608 Mar 04 19:44	16°) 22′45		inferior conj	13609 Feb 11 13:37	2°) 49′29	-2°37'13
morning rise	13608 Mar 07 20:36	14°)(41'01		minimum elong	13609 Feb 11 19:16	2°) 37′21	2°34'28
direct	13608 Mar 10 04:01	14°) 16′03		Č	13609 Feb 15 02:33	30°R≈	
morning max el	13608 Mar 16 18:15	17°) € 37'30	17°46'23	morning rise	13609 Feb 19 03:06	27°≈58'13	
Ü	13608 Mar 25 17:05	$0^{\circ}\mathbf{\gamma}$		asc. node	13609 Feb 19 17:12	27° ≈ 49'44	
morning set	13608 Apr 01 20:26	12° Υ 15'06		direct	13609 Feb 21 05:14	27° ≈ 40'31	
desc. node	13608 Apr 06 18:08	20° Y 45'49			13609 Feb 26 23:22	0°) €	
	13608 Apr 12 04:40	0°8		morning max el	13609 Feb 28 09:52	1° ¥ 16'50	17°56'52
	-r2 00	. •		morning set	13609 Mar 15 23:46	25°) (43'11	
superior conj	13608 Apr 13 21:15	2° 8 48'55	-0°53'43	-0	13609 Mar 18 07:54	0° Υ	
minimum elong	13608 Apr 13 15:55	2° 8 26'49		desc. node	13609 Mar 24 14:39	11° Υ 18'45	
max. Earth dist.	13608 Apr 20 08:06	13° 8 19'15	1.44327 AU				
evening rise	13608 Apr 28 19:58	26° 8 38'57		superior conj	13609 Mar 26 09:28	14° Y 26'41	-0°14'08
	13608 May 01 00:25	0° Ⅱ		minimum elong	13609 Mar 26 08:14	14° Υ 21'19	
	13608 May 21 17:56	0 . ಹ		behind sun begin	13609 Mar 26 04:22	14° Υ 04'27	
	2222334 21 17.50			oun ovgiii	2000 1100 20 01.22	VI#/	

behind sun end	13609 Mar 26 12:06	14° Ƴ 38'10			13610 Mar 10 09:47	0° Y	
max. Earth dist.	13609 Apr 02 21:27	27° Ƴ 10'07	1.42637 AU	desc. node	13610 Mar 11 11:11	1° Y ′54'52	
	13609 Apr 04 14:54	9° 8		max. Earth dist.	13610 Mar 16 06:35	10° Ƴ 22'48	1.40556 AU
evening rise	13609 Apr 08 19:15	6° 8 42'51		evening rise	13610 Mar 20 14:29	17° Ƴ 41'09	
	13609 Apr 24 05:41	$\Pi^{\circ}0$			13610 Mar 28 07:13	0° 8	
evening max el	13609 May 11 10:32	21° Ⅲ 59'39	22°13'15		13610 Apr 18 18:31	$\Pi^{\circ}0$	
asc. node	13609 May 18 13:53	27° Ⅱ 10′33		evening max el	13610 Apr 24 01:38	5° Ⅱ 51'13	23°34'03
retrograde	13609 May 21 00:46	27° Ⅲ 38′04		retrograde	13610 May 04 19:45	12° Ⅱ 10'45	
evening set	13609 May 25 17:59	25° Ⅱ 40′29		asc. node	13610 May 05 11:09	12° Ⅱ 08'53	
inferior conj	13609 May 31 00:42	19° Ⅲ 20′21	2°59'33	evening set	13610 May 10 00:34	9° Ⅱ 59'08	
minimum elong	13609 May 30 23:21	19° Ⅲ 25′05	2°58'22	inferior conj	13610 May 15 10:06	3° Ⅱ 32'01	2°38'06
min. Earth dist.	13609 May 30 22:54	19° Ⅲ 26'39	0.68925 AU	minimum elong	13610 May 15 08:10	3° П 38'43	2°36'48
morning rise	13609 Jun 05 04:32	13° Ⅱ 07'34	0.000,20110	min. Earth dist.	13610 May 14 19:37	4° ∏ 21'46	0.68802 AU
direct	13609 Jun 09 22:17	11° I I07'20		mm. Lattii dist.	13610 May 14 15:57	30°R 8	0.00002710
morning max el	13609 Jun 19 06:10	16° Ⅱ 35'12	22°00'48	morning rise	13610 May 20 15:42	27° 8 26'46	
desc. node	13609 Jun 20 15:48	18° Ⅱ 02'44	22 00 48	direct	•	25° 8 47'01	
desc. node		18 п 02 44 0° ©		direct	13610 May 24 20:51	0°Ⅱ	
	13609 Jun 30 05:51				13610 Jun 01 13:58		20040120
	13609 Jul 20 10:20	0°N		morning max el	13610 Jun 02 00:23	0° Ⅱ 25'24	20°40'30
morning set	13609 Jul 22 01:07	2° £ 34'39		desc. node	13610 Jun 07 12:50	6° Ⅱ 45'11	
max. Earth dist.	13609 Jul 27 15:23	11° Ω 43'09	1.41559 AU		13610 Jun 23 22:01	0° ©	
				morning set	13610 Jul 01 12:36	11° © 37'14	
superior conj	13609 Aug 04 09:29	25° Ω 00'02	-1°23'18	max. Earth dist.	13610 Jul 09 23:02	24° © 57'02	1.43542 AU
minimum elong	13609 Aug 04 15:43	25° Ω 27'31	1°23'09		13610 Jul 13 01:37	0 $^{\circ}$ Ω	
	13609 Aug 07 04:56	O°Mp					
asc. node	13609 Aug 14 13:57	13° m 30'13		superior conj	13610 Jul 16 14:30	5° Ω 50'58	-1°53'05
evening rise	13609 Aug 15 00:09	14° m 17'27		minimum elong	13610 Jul 16 21:40	6° Ω 20'52	1°53'22
	13609 Aug 23 19:12	0∘ ত		evening rise	13610 Jul 28 19:55	26° Ω 54'12	
evening max el	13609 Aug 31 00:04	9° ≏ 46'23	18°13'16		13610 Jul 30 14:08	o∘ mp	
retrograde	13609 Sep 07 04:52	13° ≏ 25'55		asc. node	13610 Aug 01 10:35	3° m) 14'59	
evening set	13609 Sep 09 09:03	13° ഫ 06'30		evening max el	13610 Aug 14 13:05	22° m 52'13	18°02'45
inferior conj	13609 Sep 16 16:48	8° ≏ 22'24	-0°03'13	retrograde	13610 Aug 21 02:36	26° m) 15'26	
minimum elong	13609 Sep 16 16:41	8° ₾ 22'38	0°03'07	evening set	13610 Aug 23 14:47	25° m/45'23	
transit middle	13609 Sep 16 16:41	8° ॒ 22'38	0°03'07	inferior conj	13610 Aug 30 05:41	20° mp 41'21	1°14'16
transit begin	13609 Sep 16 13:19	8° ₽ 29'53	0 03 07	minimum elong	13610 Aug 30 07:42	20° m) 36'22	1°13'18
transit end	13609 Sep 16 20:04	8° ≏ 15'22		min. Earth dist.	13610 Sep 02 07:04	17° m) 40'41	0.61403 AU
desc. node	13609 Sep 16 12:40	8° ⊆ 31'16		desc. node	13610 Sep 02 07:04	16° m/38'39	0.01403 AU
		5° £ 32'59	0.59116 AU		•	-	
min. Earth dist.	13609 Sep 20 00:05		0.39110 AU	morning rise	13610 Sep 05 21:57	14° Mp 41'27	
morning rise	13609 Sep 23 20:55	2° Ω 48'26		direct	13610 Sep 12 13:39	12° m 25'24	25050120
direct	13609 Sep 30 06:39	0° ≏ 56'20		morning max el	13610 Sep 26 18:29	20° m 22'47	27°58'28
morning max el	13609 Oct 14 14:14	8° ≏ 41'29	27°35'08		13610 Oct 05 01:22	0° ∞	
	13609 Oct 30 20:35	0°M₊			13610 Oct 23 20:15	0° M ₊	
asc. node	13609 Nov 10 15:53	19° ™ 20'44		asc. node	13610 Oct 28 12:37	9° ™ 07'36	
morning set	13609 Nov 15 02:40	28°M27'36		morning set	13610 Oct 30 04:37	12°M32'01	
	13609 Nov 15 20:03	0° ∡ ¹		max. Earth dist.	13610 Nov 04 20:27	24°M37'53	1.31519 AU
max. Earth dist.	13609 Nov 21 14:01	12° ∡ ³37′00	1.31188 AU				
				superior conj	13610 Nov 06 12:43	28° M 19′53	1°16'38
superior conj	13609 Nov 22 02:25	13° ∡ ¹46'15	1°29'31	minimum elong	13610 Nov 06 10:33	28° ™ 07'50	1°17'10
minimum elong	13609 Nov 22 00:47	13° ∡ ³37′08	1°30'20		13610 Nov 07 06:47	0° ∡ ¹	
evening rise	13609 Nov 28 19:44	28° ∡ ³36'34		evening rise	13610 Nov 13 05:51	13° ∡ ¹07'54	
	13609 Nov 29 11:21	0° ට			13610 Nov 21 14:18	0° ට	
desc. node	13609 Dec 13 09:51	26° පි 08'15		desc. node	13610 Nov 30 06:56	14° る 18'53	
	13609 Dec 15 21:51	0° ≈ ≈		evening max el	13610 Dec 09 10:54	25° る 19'22	24°59'49
evening max el	13609 Dec 27 19:24	14° ≈ 38'25	26°22'55	C	13610 Dec 15 13:31	0° ≈	
retrograde	13610 Jan 10 18:24	21° ≈ 44'27		retrograde	13610 Dec 23 05:55	2° ≈ 13'41	
evening set	13610 Jan 17 04:40	20°≈04'34		evening set	13610 Dec 28 20:33	1°≈03'20	
•	13610 Jan 21 09:01		0.58508 ATT	evening set		1 ~03 20 30°Rる	
min. Earth dist.		17°≈27'57	0.58508 AU	min Forth dist	13610 Dec 31 02:28		0.56572 AU
inferior conj	13610 Jan 24 11:57	15°≈08'28		min. Earth dist.	13611 Jan 02 22:50		
minimum elong	13610 Jan 24 20:19	14°≈52'52	5-57-24	inferior conj	13611 Jan 05 13:45	26°る38'05	
morning rise	13610 Feb 01 14:56	10°≈38'22		minimum elong	13611 Jan 05 21:56	26°る24'49	5*11'28
direct	13610 Feb 03 15:49	10°≈24'13		morning rise	13611 Jan 14 01:34	22°る29'50	
asc. node	13610 Feb 06 14:37	10°≈55'29	4005	direct	13611 Jan 16 07:49	22°る15'22	
morning max el	13610 Feb 11 19:35	14° ≈ 25'23	18°27'09	asc. node	13611 Jan 24 11:59	25° る 39'55	
	13610 Feb 22 11:14	0° ∀		morning max el	13611 Jan 25 19:12	26° ප් 50'31	19°19'20
morning set	13610 Feb 27 16:22	9° ∺ 47'15			13611 Jan 28 15:39	0° ≈	
				morning set	13611 Feb 11 17:53	24° ≈ 13'35	
superior conj	13610 Mar 08 19:14	27°) €03'39			13611 Feb 14 15:09	0° ∀	
minimum elong	13610 Mar 08 20:43	27° ¥ 10′30	0°21'16				

superior conj	13611 Feb 19 21:55	10° ¥ 26′19	0°50'27	superior conj	13612 Feb 03 13:09	24° ≈ 22'30	1°12'27
minimum elong	13611 Feb 20 00:34	10° ¥ 39′07	0°50'29	minimum elong	13612 Feb 03 15:48	24° ≈ 35'55	1°12'49
desc. node	13611 Feb 26 07:43	22°) € 29'59			13612 Feb 06 08:23	0°) €	
max. Earth dist.	13611 Feb 26 13:16	22° H 55'13	1.38300 AU	max. Earth dist.	13612 Feb 08 21:04		1.36119 AU
			1.38300 AU				1.30119 AU
evening rise	13611 Mar 02 06:43	29°) 33′02		evening rise	13612 Feb 12 17:33	12° 米 11′27	
	13611 Mar 02 12:55	0° Y		desc. node	13612 Feb 13 04:15	13° ∺ 00′30	
	13611 Mar 21 15:28	$6^{\circ}B$			13612 Feb 23 01:44	$0^{\circ}\Upsilon$	
evening max el	13611 Apr 06 15:16	19° 8 44'07	24°53'13		13612 Mar 15 18:42	0°8	
retrograde	13611 Apr 18 10:57	26° 8 37'10		evening max el	13612 Mar 19 04:43	3° 8 34'23	26°03'42
C				•		_	20 03 42
asc. node	13611 Apr 22 08:30	25° 8 31'17		retrograde	13612 Mar 31 21:25	10° 8 50'20	
evening set	13611 Apr 24 03:28	24° 8 14'09		evening set	13612 Apr 07 01:01	8° 8 19'55	
min. Earth dist.	13611 Apr 28 14:29	19° 8 13'05	0.68216 AU	asc. node	13612 Apr 08 05:55	7° 8 14'32	
inferior conj	13611 Apr 29 17:33	17° 8 43'41	2°06'28	min. Earth dist.	13612 Apr 11 05:26	3° 8 54'09	0.67188 AU
minimum elong	13611 Apr 29 15:23	17° 8 50'49	2°05'08	inferior conj	13612 Apr 12 21:01	1° 8 50'55	1°24'13
morning rise	13611 May 05 03:33	11° 8 47'15	2 00 00	minimum elong	13612 Apr 12 19:11	1° 8 56'40	1°23'06
	•	_		minimum ciong	-	_	1 23 00
direct	13611 May 08 20:39	10° 8 28'11			13612 Apr 14 09:20	30° ₹ Υ	
morning max el	13611 May 16 02:07	14° 8 27'31	19°33'14	morning rise	13612 Apr 18 14:05	26° Y ′04'37	
desc. node	13611 May 25 09:44	26° 8 05'06		direct	13612 Apr 21 20:01	25° Y ′04'41	
	13611 May 28 03:03	Π° 0		morning max el	13612 Apr 28 11:08	28° Y 38'01	18°41'32
greatest brilliancy	13611 May 28 17:28	0° Ⅱ 52'47	-0.6m	C	13612 Apr 29 18:45	0°8	
morning set	13611 Jun 10 14:10	20° I 18'36	0.0111	desc. node	13612 May 11 06:31	15° 8 52'12	
morning set					•		
	13611 Jun 16 20:37	0 \circ		morning set	13612 May 20 03:12	29° 8 37'54	
max. Earth dist.	13611 Jun 22 13:20	8° © 55'24	1.44984 AU		13612 May 20 08:52	Π \circ 0	
				max. Earth dist.	13612 Jun 04 07:34	23° Ⅱ 19'48	1.45746 AU
superior conj	13611 Jun 26 19:51	15° © 42'37	-2°11'09				
minimum elong	13611 Jun 26 23:28	15°957'05	2°12'05	superior conj	13612 Jun 05 07:28	24° Ⅲ 53′10	-2°10'58
minimani ciong	13611 Jul 05 14:54	0°Ω	2 12 03		13612 Jun 05 03:30	24° I 37'41	
				minimum elong			2 11 34
evening rise	13611 Jul 10 19:25	8° Ω 37'39			13612 Jun 08 13:50	0 \circ	
asc. node	13611 Jul 19 07:18	22° Ω 43′28		evening rise	13612 Jun 20 18:39	19° © 19'16	
	13611 Jul 24 00:55	0° m)			13612 Jun 27 11:12	$0^{\circ}\Omega$	
evening max el	13611 Jul 29 03:30	6° Mp 18′59	18°10'52	greatest brilliancy	13612 Jun 27 17:06	0° Ω 23′26	-0.9m
retrograde	13611 Aug 04 12:02	9° m) 40'05		asc. node	13612 Jul 05 04:05	11° Ω 48'59	
evening set	13611 Aug 07 08:34	8° m 56'38		evening max el	13612 Jul 11 16:10	19° Ω 58'09	18°36'50
•	•	-	2000141	•			18 30 30
inferior conj	13611 Aug 13 10:06	3° My 35'02	2°09'41	retrograde	13612 Jul 18 04:54	23° Ω 30'30	
minimum elong	13611 Aug 13 12:36	3° ™ 28'04	2°08'26	evening set	13612 Jul 21 10:06	22° Ω 31'42	
min. Earth dist.	13611 Aug 15 23:49	0° ™ 43'40	0.63602 AU	inferior conj	13612 Jul 27 02:02	16° Ω 54'39	2°45'46
	13611 Aug 16 16:22	30° R Ω		minimum elong	13612 Jul 27 04:03	16° Ω 48'29	2°44'35
morning rise	13611 Aug 19 14:52	27° Ω 19'08		min. Earth dist.	13612 Jul 29 01:45	14° Ω 29'00	0.65533 AU
•	13611 Aug 21 07:44	26°Ω10'18			13612 Aug 01 20:57	10° Ω 31'23	0.03333710
desc. node	-			morning rise	•		
direct	13611 Aug 26 06:15	24° Ω 46′29		desc. node	13612 Aug 07 05:13	7° Ω 55'34	
	13611 Sep 06 03:48	0° m)		direct	13612 Aug 08 06:59	7° Ω 51'22	
morning max el	13611 Sep 09 03:40	2° m 47'30	27°43'49	morning max el	13612 Aug 21 14:46	15° Ω 43'34	26°56'41
	13611 Sep 29 10:44	0∘ रु			13612 Sep 02 08:58	0° m)	
morning set	13611 Oct 13 23:05	26° ≙ 13'06			13612 Sep 21 05:55	0∘ ত	
asc. node	13611 Oct 15 09:16	29° ≙ 05'38		morning set	13612 Sep 26 07:11	9° ჲ 23'13	
asc. Houc				•	-		1 22770 ATT
	13611 Oct 15 19:54	0° M ₊		max. Earth dist.	13612 Sep 30 12:20	17° ≏ 41'05	1.33779 AU
max. Earth dist.	13611 Oct 18 21:02	6°11L21'16	1.32385 AU	asc. node	13612 Oct 01 05:51	19° ≏ 09'45	
superior conj	13611 Oct 21 19:45	12°M40'38	0°58'04	superior conj	13612 Oct 04 21:15	26° ≏ 41'58	0°33'57
minimum elong	13611 Oct 21 17:31	12°M28'29	0°58'19	minimum elong	13612 Oct 04 19:35	26° ₽ 33'13	0°34'01
evening rise	13611 Oct 28 17:00	27°MJ39'53		Č	13612 Oct 06 10:45	0°M₊	
evening rise		0° ⊼ ¹		avanina rias		12°M06'50	
	13611 Oct 29 19:15			evening rise	13612 Oct 12 03:16		
	13611 Nov 16 00:56	0°ಕ			13612 Oct 21 05:35	0° ∡ ¹	
desc. node	13611 Nov 17 04:06	1° る 23'49		evening max el	13612 Nov 01 10:00	15° ∡ ¹28'47	21°39'38
evening max el	13611 Nov 20 20:48	5° る 24'18	23°19'23	desc. node	13612 Nov 03 01:22	16° ∡ ¹59'28	
retrograde	13611 Dec 04 04:41	12° る 01'59		retrograde	13612 Nov 13 17:32	21° ∡ "35′22	
evening set	13611 Dec 08 13:07	11°る20'49		evening set	13612 Nov 16 16:51	21° × ⁷ 15'21	
•			0.55150 ATT	•			5010150
min. Earth dist.	13611 Dec 15 06:43		0.55150 AU	inferior conj	13612 Nov 25 12:29	17° х 21'43	
inferior conj	13611 Dec 16 19:32	7° る 17'29		minimum elong	13612 Nov 25 05:58	17° ∡ ³30′50	
minimum elong	13611 Dec 16 21:53	7° る 14'05	5°53'45	min. Earth dist.	13612 Nov 25 12:51	17° ∡ ¹21'12	0.54509 AU
morning rise	13611 Dec 25 08:17	3° ට 26'21		morning rise	13612 Dec 03 19:58	13° ∡ ³33'42	
direct	13611 Dec 28 04:30	3° ට 06'59		direct	13612 Dec 07 13:04	13° ₹ '03'40	
morning max el	13612 Jan 08 05:17	8° ට 23'19	20°34'39	morning max el	13612 Dec 20 01:19	19° х 03'42	22°11'03
•		11° る 49'51	20 5757	=		29° × 03'42	1105
asc. node	13612 Jan 11 09:15			asc. node	13612 Dec 28 06:26		
	13612 Jan 22 15:06	0° ≈			13612 Dec 28 20:08	0° る	
morning set	13612 Jan 27 01:06	8° ≈ 52'46		morning set	13613 Jan 10 11:39	23° る 38'03	
					13613 Jan 13 11:24	0° ≈	

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13614 Nov 28 13:17

0°×7

13613 Dec 02 09:36

0°×7

asc. node	13614 Dec 02 00:30	6° ₹ 07'30			13615 Nov 21 04:59	0° ∡ ¹	
morning set	13614 Dec 10 10:57 13614 Dec 13 15:20	23°♂03'18 0°る		morning set	13615 Nov 24 20:11	7° ∡ ³33'18	
				superior conj	13615 Dec 01 16:54	22° ₹ 39'41	1°34'20
superior conj	13614 Dec 17 05:23	7° る 57'16	1°38'06	minimum elong	13615 Dec 01 15:44	22° ₹ 33'12	1°35'16
minimum elong	13614 Dec 17 05:13	7° る 56'21	1°39'09	max. Earth dist.	13615 Dec 01 20:17	22° ₹ 58'35	1.31240 AU
max. Earth dist.	13614 Dec 18 12:18	10° る 48'17	1.31740 AU		13615 Dec 05 00:01	0°ප	
evening rise	13614 Dec 24 07:39	23° る 18'08		evening rise	13615 Dec 08 12:16	7° る 37'38	
	13614 Dec 27 14:45	0° ≈			13615 Dec 20 01:51	0° ≈	
desc. node	13615 Jan 03 18:17	13°≈18'37		desc. node	13615 Dec 21 15:12	2°≈37'57	26055110
	13615 Jan 14 09:32 13615 Jan 25 17:07	0° \ 13° \ 24'47	27920110	evening max el	13616 Jan 07 21:14	25° ≈ 26'28 0°) €	26°57'18
evening max el retrograde	13615 Jan 25 17:07 13615 Feb 08 14:52	20°) (45'34	27°30'19	retrograde	13616 Jan 13 16:02 13616 Jan 21 20:18	2° 	
evening set	13615 Feb 15 12:37	18°) (30'18		evening set	13616 Jan 28 13:27	2 X 38 29 0° X 43'14	
min. Earth dist.	13615 Feb 19 06:47	15° H 34'04	0.61926 AU	evening set	13616 Jan 29 18:14	30°R≈	
inferior conj	13615 Feb 22 07:10	12°) (31'01		min. Earth dist.	13616 Feb 01 11:21	28°≈03'33	0.59742 AU
minimum elong	13615 Feb 22 10:59	12°) (38'03		inferior conj	13616 Feb 04 15:58	25° ≈ 29'02	
asc. node	13615 Feb 27 22:20	8°) 24'21		minimum elong	13616 Feb 04 22:55	25° ≈ 14'57	3°09'42
morning rise	13615 Mar 01 12:11	7°) 44′05		morning rise	13616 Feb 12 11:31	20° ≈ 46'44	
direct	13615 Mar 03 17:07	7°) €22'32		direct	13616 Feb 14 12:39	20° ≈ 30'54	
morning max el	13615 Mar 10 12:15	10°) 48′55	17°48'28	asc. node	13616 Feb 14 19:46	20° ≈ 31'15	
	13615 Mar 23 08:10	0° Y		morning max el	13616 Feb 22 01:50	24° ≈ 16′10	18°07'19
morning set	13615 Mar 26 06:51	5° Υ 13'38			13616 Feb 26 17:42	0° ∀	
desc. node	13615 Apr 01 20:18	16° Ƴ 48'55		morning set	13616 Mar 08 16:27	18°) 58'46	
					13616 Mar 14 14:46	0 ° Υ	
superior conj	13615 Apr 06 14:02	24° Y 57'19			12616 M 10 11 50	700000106	0001120
minimum elong	13615 Apr 06 10:32	24° Y 42'32 0° と	0°36′27	superior conj	13616 Mar 18 11:59	7° Υ 02'06 7° Υ 02'40	0°01'38 0°01'35
max. Earth dist.	13615 Apr 09 14:15 13615 Apr 13 15:07	6° 8 36'58	1.43680 AU	minimum elong behind sun begin	13616 Mar 18 12:06 13616 Mar 18 04:27	6° Υ 28'27	0.01.33
evening rise	13615 Apr 20 21:53	18° 8 09'47	1.43000 AU	behind sun end	13616 Mar 18 19:46	7° Υ 36'48	
evening rise	13615 Apr 28 16:12	0°Ⅱ		desc. node	13616 Mar 18 16:52	7° Υ 23'54	
	13615 May 20 17:34	0.බ ⊙ ව		max. Earth dist.	13616 Mar 26 03:00	20° Υ 14'01	1.41786 AU
evening max el	13615 May 22 01:19	1° 5 22'48	21°28'38	evening rise	13616 Mar 31 05:07	28° Y °35'45	
asc. node	13615 May 26 19:09	5° © 15'58		C	13616 Apr 01 02:06	0°8	
retrograde	13615 May 30 23:19	6° © 35'25			13616 Apr 21 06:31	Π $^{\circ}0$	
evening set	13615 Jun 04 10:17	4°5546'29		evening max el	13616 May 03 17:59	15° Ⅱ 12'59	22°47'19
	13615 Jun 08 14:48	30°RⅡ		asc. node	13616 May 12 16:22	21° Ⅱ 03'39	
inferior conj	13615 Jun 09 16:18	28° Ⅱ 31'45	3°07'14	retrograde	13616 May 13 20:07	21° Ⅱ 09'45	
minimum elong	13615 Jun 09 15:24	28° ∏ 34'51	3°06'08	evening set	13616 May 18 18:17	19° ∏ 05'40	
min. Earth dist.	13615 Jun 09 21:53	28° Ⅱ 12'17	0.68791 AU	inferior conj	13616 May 24 01:58	12° Ⅱ 42'00	
morning rise	13615 Jun 14 20:20	22° Ⅱ 15'32 20° Ⅱ 04'31		minimum elong	13616 May 24 00:19	12° ∏ 47'43	2°50'28
direct desc. node	13615 Jun 19 21:27 13615 Jun 28 21:07	20°Щ04'31 24°Щ58'55		min. Earth dist. morning rise	13616 May 23 18:38 13616 May 29 06:15	13° П 07'29 6° П 32'25	0.68930 AU
morning max el	13615 Jun 29 22:57	24 H3833 26°H01'56	22°50'57	direct	13616 Jun 02 18:30	6 П 32 23 4° П 41'01	
morning max cr	13615 Jul 03 14:07	0°95	22 30 37	morning max el	13616 Jun 11 13:54	9° ∏ 47'01	21°25'21
	13615 Jul 25 03:16	0°N		desc. node	13616 Jun 14 18:13	13° ∏ 14'19	21 20 21
morning set	13615 Aug 03 02:18	14° Ω 15'36			13616 Jun 27 07:46	0° ©	
max. Earth dist.	13615 Aug 07 15:10	21° Ω 51'51	1.40266 AU	morning set	13616 Jul 13 02:29	23° © 51'15	
	13615 Aug 12 07:22	0° m			13616 Jul 16 23:00	0 ° Ω	
				max. Earth dist.	13616 Jul 19 18:56	4° Ω 36′08	1.42456 AU
superior conj	13615 Aug 15 10:45	5° ™ 38'41					
minimum elong	13615 Aug 15 15:30	6° TD 00'19	1°03'22	superior conj	13616 Jul 27 05:01	17° Ω 03'57	
asc. node	13615 Aug 22 19:32	19° m 22'58		minimum elong	13616 Jul 27 12:02	17° Ω 34'07	1°36'53
evening rise	13615 Aug 25 06:17	24° Mp 02'24			13616 Aug 03 13:21	0° Mp	
evening max el	13615 Aug 28 09:58 13615 Sep 10 05:34	0° ჲ 19° ჲ 47'22	18°28'05	evening rise asc. node	13616 Aug 07 11:28 13616 Aug 08 16:10	7° Mp 05'08 9° Mp 15'10	
retrograde	13615 Sep 10 03:34 13615 Sep 18 00:09	23° Ω 43'14	18 28 03	asc. Houe	13616 Aug 21 08:23	0. ⊽	
evening set	13615 Sep 20 00:21	23° £ 43'14 23° £ 28'16		evening max el	13616 Aug 23 16:05	0 = 2° • 36'51	18°06'23
desc. node	13615 Sep 24 17:45	21° ⊆ 11'38		retrograde	13616 Aug 30 13:16	6° ⊆ 08'02	
inferior conj	13615 Sep 27 18:41	18° £ 55'46	-0°57'43	evening set	13616 Sep 01 20:37	5° £ 44'37	
minimum elong	13615 Sep 27 16:26	19° ≏ 00'13		inferior conj	13616 Sep 08 20:51	0° £ 51'45	0°32'25
min. Earth dist.	13615 Oct 01 00:39	16° ≏ 23'00	0.57863 AU	minimum elong	13616 Sep 08 21:53	0° ≏ 49'24	0°31'57
morning rise	13615 Oct 05 05:02	13° ≏ 40'55			13616 Sep 09 19:17	30°R, M⊅	
direct	13615 Oct 11 08:05	12° ≙ 04'57		desc. node	13616 Sep 10 15:16	29° m 13'54	
morning max el	13615 Oct 25 15:30	19° ≙ 38'57	27°04'16	min. Earth dist.	13616 Sep 12 02:34	27° m 54'43	0.60083 AU
	13615 Nov 03 11:36	0°M		morning rise	13616 Sep 15 19:56	25° Mp 05'06	
asc. node	13615 Nov 18 21:23	25°M24'55		direct	13616 Sep 22 08:49	23° Mp 02'09	

morning max el	13616 Oct 05 17:39 13616 Oct 06 16:11	0° ჲ 0° ჲ 54'10	27°49'52	morning max el	13617 Sep 18 22:48 13617 Oct 02 14:43	12° m/54′53 0° <u>₽</u>	27°56'31
	13616 Oct 27 16:42	0°M₊			13617 Oct 20 03:39	0° M	
asc. node	13616 Nov 04 18:10	15°M03'00		asc. node	13617 Oct 22 14:52	4° ™ 55'24	
morning set	13616 Nov 08 01:23	21°M48'44		morning set	13617 Oct 23 00:28	5° M 44'17	
	13616 Nov 11 20:56	0° ∡ ¹		max. Earth dist.	13617 Oct 28 08:25	16°M58'36	1.31815 AU
max. Earth dist.	13616 Nov 14 04:15	5° ∡ 105'03	1.31262 AU	superior conj	13617 Oct 30 13:21	21° M 47'29	1°09'26
superior conj	13616 Nov 15 04:11	7° ∡ 18'12	1°24'45	minimum elong	13617 Oct 30 11:05	21°M35'00	1°09'52
minimum elong	13616 Nov 15 02:16	7° ∡ ¹07'33	1°25'27		13617 Nov 03 06:42	0° ∡ ¹	
evening rise	13616 Nov 21 20:55	22° ∡ ¹05'59		evening rise	13617 Nov 06 07:41	6° ∡ ³38′20	
	13616 Nov 25 15:13	0°ಕ			13617 Nov 18 09:02	0°ಕ	
desc. node	13616 Dec 07 12:12	21° る 17'48		desc. node	13617 Nov 24 09:19	9° る 03'26	
	13616 Dec 13 17:54	0° ≈		evening max el	13617 Dec 01 05:46	16° පි 58'39	24°18'16
evening max el	13616 Dec 19 17:16	6°≈35'25	25°50'35	retrograde	13617 Dec 14 21:47	23° る 47'17	
retrograde	13617 Jan 02 15:18	13°≈37'34		evening set	13617 Dec 20 00:19	22°る50'08	0.55050 177
evening set	13617 Jan 08 18:34	12° ≈ 09'38		min. Earth dist.	13617 Dec 25 17:20	19°る57'27	0.55879 AU
min. Earth dist.	13617 Jan 13 06:05	9°≈32'18	0.57632 AU	inferior conj	13617 Dec 27 22:41	18°る35'26	
inferior conj	13617 Jan 16 05:41	7°≈26'57 7°≈11'27		minimum elong	13617 Dec 28 05:08	18°る25'30 14°る35'14	5°35'02
minimum elong	13617 Jan 16 14:31 13617 Jan 24 13:18	3°≈06'44	4-31-06	morning rise direct	13618 Jan 05 11:53	14°る35°14	
morning rise direct	13617 Jan 26 15:21	2°≈53'04		morning max el	13618 Jan 07 22:47 13618 Jan 18 02:04	14 01924 19° る 12'06	19°48'33
asc. node	13617 Jan 31 17:11	2 ≈33 04 4°≈19'32		asc. node	13618 Jan 18 14:30	19 3 12 00	19 40 33
morning max el	13617 Feb 04 07:47		18°46'43	asc. nouc	13618 Jan 26 06:32	19 ○ 42 49	
morning max cr	13617 Feb 18 21:29	0° ∀	10 40 45	morning set	13618 Feb 04 17:31	17° ≈ 46'05	
morning set	13617 Feb 20 13:14	3° ∺ 13'04		morning sec	13618 Feb 10 18:13	0° ∺	
superior conj	13617 Mar 01 05:30	20°) €00'03	0°34'32	superior conj	13618 Feb 12 14:01	3°) (38′33	1°00'38
minimum elong	13617 Mar 01 07:39	20°) 10′10	0°34'29	minimum elong	13618 Feb 12 16:46	3° ¥ 52'11	1°00'48
desc. node	13617 Mar 05 13:19	27° ¥ 59'42		max. Earth dist.	13618 Feb 18 16:30	15° ¥ 23′10	1.37346 AU
	13617 Mar 06 16:03	0° Y		desc. node	13618 Feb 20 09:50	18° ¥ 33'37	
max. Earth dist.	13617 Mar 08 10:14	3° Y ′07′07	1.39590 AU	evening rise	13618 Feb 22 09:56	22° ∺ 10'31	
evening rise	13617 Mar 12 09:20	9° Ƴ 57'04			13618 Feb 26 22:06	0° Υ	
	13617 Mar 24 23:29	0°8			13618 Mar 18 19:56	0°8	
evening max el	13617 Apr 16 08:03	29° 8 04'48	24°08'21	evening max el	13618 Mar 29 21:37	12° 8 57'49	25°24'47
. 1	13617 Apr 17 06:49	0°II		retrograde	13618 Apr 11 03:08	20° 8 02'10	
retrograde	13617 Apr 27 13:47	5° Ⅱ 40'40		asc. node	13618 Apr 16 11:02	18° 8 02'32	
asc. node	13617 Apr 29 13:40 13617 May 02 23:31	5° Ⅱ 22'54 3° Ⅱ 23'47		evening set	13618 Apr 17 00:20	17° 8 35'45	0.67829 AU
evening set	13617 May 02 23.31 13617 May 06 02:54	3 Д2347 30°R と		min. Earth dist. inferior conj	13618 Apr 21 08:27 13618 Apr 22 16:46	12 8 49 33	1°49'55
min. Earth dist.	13617 May 00 02:54 13617 May 07 14:53	28° 8 01'47	0.68602 AU	minimum elong	13618 Apr 22 14:40	11° 8 11'56	1°48'38
inferior conj	13617 May 07 14:35	26° 8 54'27	2°25'59	morning rise	13618 Apr 28 05:25	5° 8 12'32	1 40 50
minimum elong	13617 May 08 08:40	27° 8 01'32		direct	13618 May 01 17:39	4° 8 01'47	
morning rise	13617 May 13 17:54	20° 8 52'40		morning max el	13618 May 08 16:03	7° 8 48'39	19°09'11
direct	13617 May 17 17:44	19° 8 21'57		desc. node	13618 May 19 12:01	21° 8 46'59	
morning max el	13617 May 25 11:13	23° 8 42'45	20°10'05	greatest brilliancy	13618 May 21 15:02	24° 8 55'53	-0.7m
	13617 May 30 22:07	Π °0			13618 May 24 23:41	$\Pi^{\circ}0$	
desc. node	13617 Jun 01 15:10	2° Ⅱ 14'20		morning set	13618 Jun 01 11:10	11° Ⅱ 28'20	
	13617 Jun 20 14:10	0 \circ \odot			13618 Jun 13 09:29	0 \circ \odot	
morning set	13617 Jun 22 07:23	2° 5 38'17		max. Earth dist.	13618 Jun 14 20:59	2° © 19'07	1.45402 AU
max. Earth dist.	13617 Jul 02 04:58	18° © 08'27	1.44231 AU				
				superior conj	13618 Jun 17 20:22	6°\$59'59	
superior conj	13617 Jul 07 23:49	27°529'00		minimum elong	13618 Jun 17 20:58	7°502'22	2°14'37
minimum elong	13617 Jul 08 06:08	27° © 54'52	2°03'11		13618 Jul 02 03:23	0° N	
evening rise	13617 Jul 09 12:36 13617 Jul 20 23:12	0° Ω 19° Ω 20'32		evening rise asc. node	13618 Jul 02 12:37 13618 Jul 13 09:33	0° Ω 37'45 18° Ω 13'24	
asc. node	13617 Jul 26 12:49	19 δι 20 32 28° Ω 53'44		evening max el	13618 Jul 21 20:11	18 δ (13 24 29° Ω 26'07	18°19'48
asc. nouc	13617 Jul 26 12.49 13617 Jul 27 04:30	28 8 (33 44 0° m)		Cvening max ci	13618 Jul 22 10:23	0°m)	10 17 70
evening max el	13617 Jul 27 04.30 13617 Aug 07 06:06	0 ily 15° Mp 52'41	18°03'59	retrograde	13618 Jul 28 05:17	2° Mp 50'00	
retrograde	13617 Aug 17 00:00 13617 Aug 13 16:24	19° m 13'19	10 00 07	evening set	13618 Jul 31 05:32	2° m/00'09	
evening set	13617 Aug 15 16.24 13617 Aug 16 08:02	18° m ₂ 37'59		5. J	13618 Aug 02 21:20	30°RΩ	
inferior conj	13617 Aug 10 06:02	13° m) 26'30	1°40'20	inferior conj	13618 Aug 06 02:34	26° Ω 31'57	2°27'08
minimum elong	13617 Aug 22 19:13	13° m) 20'18	1°39'10	minimum elong	13618 Aug 06 04:56	26° Ω 25'02	2°25'54
min. Earth dist.	13617 Aug 25 13:53	10° m, 27'08	0.62365 AU	min. Earth dist.	13618 Aug 08 10:32	23° Ω 49'49	0.64473 AU
desc. node	13617 Aug 28 12:48	7° m 47'13		morning rise	13618 Aug 12 02:56	20° Ω 12′16	
morning rise	13617 Aug 29 04:04	7° m 18'33		desc. node	13618 Aug 15 10:19	18° Ω 13'00	
direct	13617 Sep 04 20:26	4° m 53′58		direct	13618 Aug 18 16:45	17° Ω 35′09	

morning max el	13618 Sep 01 08:50	25° Ω 33'37	27°27'10	morning rise	13619 Jul 26 13:49	3° Ω 37'12	
	13618 Sep 05 10:40	0° m ∕		direct	13619 Aug 01 20:25	0° Ω 57'18	
	13618 Sep 26 03:19	0∘ ⊽		desc. node	13619 Aug 02 07:45	0° Ω 58′07	
morning set	13618 Oct 06 14:52	19° ₽ 13'01		morning max el	13619 Aug 14 20:03	8° Ω 40′05	26°28'54
asc. node	13618 Oct 09 11:27	24° £ 56'33		Č	13619 Aug 31 13:04	0° m	
max. Earth dist.	13618 Oct 11 05:14	28° £ 31'34	1.32915 AU		13619 Sep 18 14:06	0∘ <mark>ಹ</mark>	
max. Earth dist.	13618 Oct 11 22:11	0° ™	1.52715710	morning set	13619 Sep 19 17:32	ა <u>~</u> 2° ഫ 08'05	
	13016 Oct 11 22.11	0 IIG		•			1 24526 ATT
	12(10.0 + 14.10.20	60 m 01104	0040100	max. Earth dist.	13619 Sep 23 16:27	9° £ 45'00	1.34536 AU
superior conj	13618 Oct 14 18:20	6°M01'04	0°48'29	asc. node	13619 Sep 26 08:01	15° ≏ 02'39	
minimum elong	13618 Oct 14 16:15	5° ™ 49'54	0°48'39			_	
evening rise	13618 Oct 21 18:41	21°M09'03		superior conj	13619 Sep 28 16:45		0°22'10
	13618 Oct 26 00:48	0° ∡ ¹		minimum elong	13619 Sep 28 15:34	19° ≏ 46'56	0°22'11
desc. node	13618 Nov 11 06:33	25° ∡ ³33'55			13619 Oct 03 12:37	0° M	
evening max el	13618 Nov 12 16:02	26° ∡ ¹59'28	22°35'57	evening rise	13619 Oct 06 04:02	5°M33'26	
	13618 Nov 16 05:07	0° ろ			13619 Oct 19 11:20	0° ∡ ¹	
retrograde	13618 Nov 25 15:09	3° る 25'12		evening max el	13619 Oct 25 09:31	7° ∡ 15'16	21°01'00
evening set	13618 Nov 29 09:04	2° る 54'33		desc. node	13619 Oct 29 03:52	10° ∡ ¹23'52	
	13618 Dec 06 01:08	30°R. ₹		retrograde	13619 Nov 06 01:54	13° ₹ '03'40	
min. Earth dist.	13618 Dec 07 00:01	29°×728'03	0.54770 AU	evening set	13619 Nov 08 14:26	12° ∡ ′48'35	
				-			5017120
inferior conj	13618 Dec 07 21:43	28° ₹ 57'23		inferior conj	13619 Nov 17 13:02	8° ⋌ ¹54'58	
minimum elong	13618 Dec 07 20:12	28° ₹ 59'33	5°55'26	minimum elong	13619 Nov 17 04:01	9° ∡ 107'44	
morning rise	13618 Dec 16 08:36	25° ∡ °09'37		min. Earth dist.	13619 Nov 18 05:58	8° ₮ 30'58	0.54528 AU
direct	13618 Dec 19 13:25	24° ∡ ¹46'15		morning rise	13619 Nov 25 18:00	5° ∡ '02'50	
	13618 Dec 30 20:41	0°る		direct	13619 Nov 29 20:55	4° ∡ ¹26′26	
morning max el	13618 Dec 31 05:49	0° る 21'23	21°13'22	morning max el	13619 Dec 12 20:54	10° ∡ '42'55	22°56'33
asc. node	13619 Jan 05 11:44	6°る24'00		asc. node	13619 Dec 23 08:53	24° ∡ ¹06′10	
	13619 Jan 18 21:43	0° ≈			13619 Dec 26 20:37	0°ರ	
morning set	13619 Jan 20 02:26	2°≈28'46		morning set	13620 Jan 04 13:47	17° る 14'53	
morning sec	15019 0411 20 02.20	2 10 20 10		morning sec	13620 Jan 10 11:52	0° ≈	
superior conj	13619 Jan 27 09:25	17° ≈ 45'34	1°19'40		15020 3411 10 11.52	0.00	
minimum elong	13619 Jan 27 11:50	17°≈58'02	1°20'10	aumariar aani	12620 Ion 11 12:20	2° ≈ 12'07	1021151
_				superior conj	13620 Jan 11 12:28		
max. Earth dist.	13619 Feb 01 02:36	27°≈18'36	1.35273 AU	minimum elong	13620 Jan 11 14:01	2°≈20'23	1°32'41
	13619 Feb 02 11:33	0° ∀		max. Earth dist.	13620 Jan 14 19:40	9° ≈ 10'56	1.33541 AU
evening rise	13619 Feb 05 03:40	5° 米 06′15		evening rise	13620 Jan 19 11:01	18° ≈ 35'24	
desc. node	13619 Feb 07 06:23	9° ∺ 01'01		desc. node	13620 Jan 25 03:00	29° ≈ 17'40	
	13619 Feb 19 18:05	0 ° Υ			13620 Jan 25 12:23	0° ∀	
evening max el	13619 Mar 12 11:23	26° Ƴ 45'59	26°29'19		13620 Feb 13 22:33	0 ° Υ	
	13619 Mar 16 03:05	0°8		evening max el	13620 Feb 23 00:49	10° Ƴ 19'45	27°14'32
retrograde	13619 Mar 25 11:09	4° 8 07'06		retrograde	13620 Mar 07 13:06	17° Ƴ 47'20	
evening set	13619 Mar 31 19:00	1° 8 35'23		evening set	13620 Mar 14 05:32	15° Ƴ 16′01	
8	13619 Apr 02 12:48	30°RƳ		min. Earth dist.	13620 Mar 18 02:49	11° Y ′37'30	0.65038 AU
asc. node	13619 Apr 03 08:29	29° Υ ′08'27		inferior conj	13620 Mar 20 11:44	9° Υ '00'26	0°04'37
min. Earth dist.	13619 Apr 04 21:08	27° Υ 24'03	0.66627 AU	minimum elong	13620 Mar 20 11:36	9° Υ '00'48	0°04'31
	13619 Apr 04 21:08	25° Υ '09'04	1°02'58	transit middle		9° Υ 00'48	0°04'31
inferior conj	-				13620 Mar 20 11:36	9 1 00 48 9° Υ 08'52	0 0431
minimum elong	13619 Apr 06 16:23	25° Y 13'37	1 02 04	transit begin	13620 Mar 20 08:41		
morning rise	13619 Apr 12 14:45	19° Y ′27′25		transit end	13620 Mar 20 14:31	8° ℃ 52'44	
direct	13619 Apr 15 16:23	18° Ƴ 34'37		asc. node	13620 Mar 20 05:58	9° Y 16′25	
morning max el	13619 Apr 22 03:36	22° Y ′00'33	18°24'34	morning rise	13620 Mar 26 19:25	3° Ƴ 31'57	
	13619 Apr 28 15:04	0°8		direct	13620 Mar 29 11:40	2° Ƴ 54'10	
desc. node	13619 May 06 08:44	11° 8 43'16		morning max el	13620 Apr 04 19:44	6° Ƴ 11'35	17°56'49
morning set	13619 May 12 10:30	21° 8 19'03			13620 Apr 21 01:10	9° 8	
	13619 May 17 22:23	$\Pi^{\circ}0$		desc. node	13620 Apr 22 05:21	1° 8 56'21	
	-			morning set	13620 Apr 22 13:57	2° 8 31'50	
superior conj	13619 May 28 04:39	16° Ⅱ 04'57	-2°04'42	Č	1		
minimum elong	13619 May 27 21:51	15° Ⅲ 38'21		superior conj	13620 May 06 17:53	25° 8 29'25	-1°37'31
max. Earth dist.	13619 May 28 16:45		1.45850 AU	minimum elong	13620 May 06 08:51	24° 8 53'37	
max. Darm uist.	13619 Jun 06 02:31	10 п 3208	1.73030 AU	minimum ciong	13620 May 09 14:25	24 O 33 37 0° Ⅱ	1 3/24
				D 4 F 4	-		1 45546 477
evening rise	13619 Jun 13 01:30	10°554'48	0.0	max. Earth dist.	13620 May 10 12:57		1.45546 AU
greatest brilliancy	13619 Jun 22 13:23	25°9546'41	-0.8m	evening rise	13620 May 22 18:42	20° Ⅱ 27'09	
	13619 Jun 25 07:46	0 \circ Ω			13620 May 29 00:39	0° ©	
asc. node	13619 Jun 30 06:23	7° Ω 07'29		greatest brilliancy	13620 Jun 05 21:10	11° 9 45'37	-0.6m
evening max el	13619 Jul 05 07:28	13° Ω 09'53	18°53'04	asc. node	13620 Jun 16 03:22	25° 5 26'19	
retrograde	13619 Jul 12 00:21	16° Ω 50'31		evening max el	13620 Jun 17 13:49	26° © 57'27	19°42'45
evening set	13619 Jul 15 09:29	15° Ω 44'35			13620 Jun 21 07:48	$0^{\circ}\Omega$	
inferior conj	13619 Jul 20 22:22	10° Ω 01′18	2°55'59	retrograde	13620 Jun 24 22:32	1° Ω 07'11	
minimum elong	13619 Jul 21 00:02	9° Ω 56'04		J	13620 Jun 28 08:10	30° ₹55	
min. Earth dist.	13619 Jul 22 15:50		0.66245 AU	evening set	13620 Jun 28 17:05	29°5644'29	
Darm dist.	1501, 541 22 15.50	, 00000	3.002 13 710	5.5g 500	-5020 Juli 20 17.05		

inferior conj	13620 Jul 04 01:07	23° 5 47'44	3°10'00	retrograde	13621 Jun 08 21:34	15° © 34'53	
minimum elong	13620 Jul 04 01:47	23° 5 45'31	3°08'58	evening set	13621 Jun 13 02:13	13° © 55'30	
min. Earth dist.	13620 Jul 05 04:11	22° © 17'16	0.67596 AU	inferior conj	13621 Jun 18 08:16	7° © 46'48	3°11'29
morning rise	13620 Jul 09 10:04	17° 5 24'09		minimum elong	13621 Jun 18 07:54	7° 5 48'02	3°10'26
direct	13620 Jul 15 06:22	14° © 50'13		min. Earth dist.	13621 Jun 18 21:33	7° 5 00'51	0.68489 AU
desc. node	13620 Jul 19 05:07	15°5948'02		morning rise	13621 Jun 23 13:19	1° 5 27'06	
morning max el	13620 Jul 27 06:49	22° © 02'30	25°10'43	Č	13621 Jun 25 13:25	30°R Ⅱ	
3	13620 Aug 03 05:44	0°N		direct	13621 Jun 28 21:42	29° Ⅱ 06'04	
	13620 Aug 23 19:25	0° m)			13621 Jul 02 12:54	0.8e	
morning set	13620 Sep 01 04:31	14° m) 19'31		desc. node	13621 Jul 06 02:23	2°9516'46	
max. Earth dist.	13620 Sep 04 18:32	20° m 51'21	1.36591 AU	morning max el	13621 Jul 09 17:13	5°933'49	23°42'27
max. Earth dist.	13620 Sep 09 13:48	0° ⊽	1.50571710	morning max or	13621 Jul 28 14:37	0°Ω	23 12 27
	13020 вер 07 13.40	٠ –		morning set	13621 Aug 13 19:15	25° Ω 36'34	
superior conj	13620 Sep 11 05:39	3° ≏ 15'36	0000155	morning set	13621 Aug 16 08:43	0°m)	
minimum elong	13620 Sep 11 05:39	3° 2 18'23		max. Earth dist.	13621 Aug 17 16:08		1.38909 AU
-	•	2° £ 51'36	0 08 32	max. Earth dist.	13021 Aug 1/ 10.06	2 11/1/07	1.36909 AU
behind sun begin	13620 Sep 11 00:47				12/21 4 25 05:25	1.69 m. 00!27	0942117
behind sun end	13620 Sep 11 11:38	3° 2 45'14		superior conj	13621 Aug 25 05:25	16° Mp 00'37	
asc. node	13620 Sep 12 04:34	5° ₾ 09'26		minimum elong	13621 Aug 25 08:31	16° m 15'13	0°43'06
evening rise	13620 Sep 19 09:30	19° ≏ 45'00		asc. node	13621 Aug 30 01:08	25° m 13'38	
	13620 Sep 24 13:53	0° ™			13621 Sep 01 11:56	0∘ ⊽	
evening max el	13620 Oct 06 16:41	18° ™ 13'43	19°44'30	evening rise	13621 Sep 03 08:23	3° ≏ 37'10	
desc. node	13620 Oct 15 01:18	23°M06'25		evening max el	13621 Sep 19 13:33	0° ™ 01'44	18°49'51
retrograde	13620 Oct 16 17:54	23°M14'39			13621 Sep 19 12:51	0° M	
evening set	13620 Oct 18 15:52	23°M04'32		retrograde	13621 Sep 28 01:28	4° ጤ 17'48	
inferior conj	13620 Oct 27 11:17	19°Mo2'11	-3°47'02	evening set	13621 Sep 29 22:46	4° M 05'58	
minimum elong	13620 Oct 27 01:57	19°M16'42	3°43'12	desc. node	13621 Oct 01 22:48	3°M29'19	
min. Earth dist.	13620 Oct 29 14:41	17° M 42'17	0.55218 AU		13621 Oct 07 19:53	30° Ŗ Ω	
morning rise	13620 Nov 04 10:21	14° M 44'58		inferior conj	13621 Oct 08 03:41	29° ≏ 45'58	-1°58'04
direct	13620 Nov 09 10:38	13°M49'28		minimum elong	13621 Oct 07 22:45	29° ≙ 54'50	1°55'41
morning max el	13620 Nov 23 06:46	20°M42'27	24°45'24	min. Earth dist.	13621 Oct 11 04:28	27° ♀ 35'40	0.56729 AU
	13620 Dec 01 06:03	0° ∡ ™		morning rise	13621 Oct 15 19:30	24° ≏ 52'23	
asc. node	13620 Dec 09 05:55	12° ∡ ³34'23		direct	13621 Oct 21 14:22	23° ₽ 31'46	
	13620 Dec 18 03:25	ರ°0			13621 Nov 03 20:44	0° M .	
morning set	13620 Dec 19 01:42	1° る 58'59		morning max el	13621 Nov 04 19:32	0°M53'18	26°21'23
Ü				Č	13621 Nov 25 06:08	0° ∡ ¹	
superior conj	13620 Dec 25 20:33	16° る 50'33	1°37'35	asc. node	13621 Nov 26 02:50	1° х 36'47	
minimum elong	13620 Dec 25 21:01		1°38'36	morning set	13621 Dec 03 12:24	16° ∡ 35'38	
max. Earth dist.	13620 Dec 27 20:13	21° る 10'56	1.32251 AU	morning sec	13621 Dec 09 14:34	0°る	
max. Earth dist.	13620 Dec 31 23:39	0°≈	1.32231 710		13021 Dec 07 14.54	٠ ن	
evening rise	13621 Jan 02 04:47	2° ≈ 30'08		superior conj	13621 Dec 10 07:22	1° る 33'37	1°37'13
desc. node	13621 Jan 10 23:44	19°≈18'25		minimum elong	13621 Dec 10 07:22	1°る33'37	
desc. flode	13621 Jan 17 08:35	0° \		max. Earth dist.	13621 Dec 10 00:45	3°る18'45	1.31460 AU
avanina may al	13621 Feb 04 12:32	23° ∺ 28′10	27°33'35	evening rise	13621 Dec 17 06:08	16° ප් 42'51	1.51400 AU
evening max el		23 π 2810	21 33 33	evening rise		0°≈	
	13621 Feb 13 21:22	0° Υ 53'59		44-	13621 Dec 23 21:35		
retrograde	13621 Feb 18 08:20			desc. node	13621 Dec 28 20:34	8°≈55'41	
	13621 Feb 22 13:55	30° ₹ ₩			13622 Jan 12 06:59	0°) €	27020120
evening set	13621 Feb 25 05:32	28°) (30′21	0.62124.444	evening max el	13622 Jan 17 20:17	5°) ₹58'11	27°20'38
min. Earth dist.	13621 Feb 28 23:51	25°) €20'33	0.63124 AU	retrograde	13622 Jan 31 19:23	13°) €16'08	
inferior conj	13621 Mar 03 19:31	22°) (32′49		evening set	13622 Feb 07 15:54	11°) €08'32	
minimum elong	13621 Mar 03 21:39	22° ∺ 27'30	1°03'56	min. Earth dist.	13622 Feb 11 10:50	8°) €20'29	0.60997 AU
asc. node	13621 Mar 07 03:28	19° ∺ 28'11		inferior conj	13622 Feb 14 13:47	5°) 36'34	
morning rise	13621 Mar 10 16:19	17° 米 19′59		minimum elong	13622 Feb 14 18:57	5° ¥ 25'14	2°22'00
direct	13621 Mar 13 00:39	16° ⊁ 53'41		morning rise	13622 Feb 22 01:05	0°) 42′08	
morning max el	13621 Mar 19 13:34	20° ∺ 13'59	17°46'23	asc. node	13622 Feb 22 00:57	0°) 42′13	
	13621 Mar 26 22:13	0° Υ		direct	13622 Feb 24 03:47	0°) €23'34	
morning set	13621 Apr 04 19:15	14° Y ′58'53		morning max el	13622 Mar 03 05:44	3° ¥ 57'06	17°54'02
desc. node	13621 Apr 09 01:55	22° Y 21'26		morning set	13622 Mar 18 20:13	28°) € 20'43	
	13621 Apr 13 14:03	0° 8			13622 Mar 19 18:04	0 ° Υ	
				desc. node	13622 Mar 26 22:25	12° Y 53'40	
superior conj	13621 Apr 17 02:31	5° 8 50'55	-0°59'47				
minimum elong	13621 Apr 16 20:32	5° 8 26'17	0°59'28	superior conj	13622 Mar 29 11:13	17° Y 19'05	-0°19'58
			1.44535 AU	minimum elong	13622 Mar 29 09:26	17° Ƴ 11'21	0010152
max. Earth dist.	13621 Apr 23 06:58	15° 8 52'04	1. 11 333 AU	minimum crong	13022 Mar 27 07.20	1, 11121	0 1933
max. Earth dist. evening rise	13621 Apr 23 06:58 13621 May 02 05:56	15° 8 52'04 29° 8 52'45	1.44333 AO	minimum ciong	13622 Apr 05 23:53	0°8	0 1933
	-		1.44333 AO	max. Earth dist.			1.42926 AU
	13621 May 02 05:56	29° 8 52'45	1.44333 AO		13622 Apr 05 23:53	0° と 29° Y 48'34	
evening rise	13621 May 02 05:56 13621 May 02 07:49 13621 May 22 17:56	29° と 52'45 0°耳		max. Earth dist.	13622 Apr 05 23:53 13622 Apr 05 21:06 13622 Apr 12 02:50	0° ႘ 29° Ƴ 48'34 9° ႘ 50'06	
	13621 May 02 05:56 13621 May 02 07:49	29° ႘ 52'45 0°Ⅲ 0°©		max. Earth dist.	13622 Apr 05 23:53 13622 Apr 05 21:06	0° と 29° Y 48'34	1.42926 AU

asc. node	13622 May 20 21:39	29° Ⅱ 29'10		retrograde	13623 May 07 14:56	14° ∏ 41'12	
	13622 May 22 12:44	0 \circ \odot		asc. node	13623 May 07 18:54	14° Ⅱ 41'04	
retrograde	13622 May 23 19:29	0° 9 07'51		evening set	13623 May 12 18:03	12° Ⅲ 31'24	
	13622 May 25 01:19	30°RⅡ		min. Earth dist.	13623 May 17 14:24	6° Ⅱ 48'44	0.68854 AU
evening set	13622 May 28 11:05	28° Ⅱ 12'31		inferior conj	13623 May 18 03:03	6° Ⅱ 05'08	2°42'02
inferior conj	13622 Jun 02 17:34	21° Ⅲ 53'49	3°01'55	minimum elong	13623 May 18 01:11	6° Ⅱ 11'37	2°40'44
minimum elong	13622 Jun 02 16:19	21° Ⅱ 58'09	3°00'45	morning rise	13623 May 23 08:15	29° 8 58'50	
min. Earth dist.	13622 Jun 02 17:42	21° I I53'22	0.68908 AU		13623 May 23 07:40	30°₽ 8	
morning rise	13622 Jun 07 21:22	15° Ⅱ 40'05		direct	13623 May 27 15:15	28° 8 16'02	
direct	13622 Jun 12 17:03	13° Ⅱ 36'53	22012122		13623 Jun 01 09:08	0°П	20051112
morning max el	13622 Jun 22 05:22	19° Ⅱ 12'14	22°13'33	morning max el	13623 Jun 04 22:38	3° Ⅱ 01'05	20°51'43
desc. node	13622 Jun 22 23:31	19° Ⅱ 58'45		desc. node	13623 Jun 09 20:33	8° Ⅱ 34'33	
	13622 Jul 01 06:46	0° ©		. ,	13623 Jun 25 04:01	0°©	
	13622 Jul 21 18:07	0° Ω 5° Ω 48'58		morning set	13623 Jul 05 00:06	14°559'08	1 42277 ATT
morning set max. Earth dist.	13622 Jul 25 09:40 13622 Jul 30 16:14	3 δί 48 38 14° Ω 29'16	1.41231 AU	max. Earth dist.	13623 Jul 12 23:04 13623 Jul 14 10:22	27° © 36'36 0° Ω	1.43277 AU
max. Earm dist.	13022 Jul 30 10.14	14 6629 10	1.41231 AU		13023 Jul 14 10.22	0 86	
superior conj	13622 Aug 07 11:45	27° Ω 58'08	-1°18'14	superior conj	13623 Jul 19 20:15	8° Ω 57'59	-1°49'09
minimum elong	13622 Aug 07 17:38	$28^{\circ}\Omega 24'17$		minimum elong	13623 Jul 20 03:30	9° Ω 28'30	
minimum clong	13622 Aug 07 17:38 13622 Aug 08 15:05	0° m)	1 10 02	evening rise	13623 Jul 31 19:33	29° Ω 44'49	1 4721
asc. node	13622 Aug 16 21:45	15° Mp 11'34		evening rise	13623 Jul 31 22:58	0°m)	
evening rise	13622 Aug 17 21:12	17° m ₀ 00'57		asc. node	13623 Aug 03 18:23	4° m) 58'31	
e vening rise	13622 Aug 25 00:22	0∘ ⊽		evening max el	13623 Aug 17 08:49	25° m 33'49	18°03'06
evening max el	13622 Sep 02 20:22	12° ₽ 32'10	18°16'31	retrograde	13623 Aug 23 23:59	28° m 58'44	10 03 00
retrograde	13622 Sep	16° £ 15'24	10 1001	evening set	13623 Aug 26 10:54	28° m/30'30	
evening set	13622 Sep 12 07:28	15° ⊆ 57'13		inferior conj	13623 Sep 02 04:06	23° m/ 29'09	1°03'59
desc. node	13622 Sep 18 20:20	12° ഫ 01'00		minimum elong	13623 Sep 02 05:54	23° m) 24'45	1°03'07
inferior conj	13622 Sep 19 17:55	11° Ω 16′04	-0°16'54	min. Earth dist.	13623 Sep 05 06:45	20° m) 28'51	0.61059 AU
minimum elong	13622 Sep 19 17:18	11° ≏ 17'21		desc. node	13623 Sep 05 17:52	20° m 03'26	
min. Earth dist.	13622 Sep 23 01:12	8° 쇼 30'24	0.58783 AU	morning rise	13623 Sep 08 22:07	17° m) 32'22	
morning rise	13622 Sep 26 23:42	5° ≏ 46'57		direct	13623 Sep 15 13:14	15° m) 19'39	
direct	13622 Oct 03 07:58	3° ჲ 58'59		morning max el	13623 Sep 29 18:56	23° m/15'48	27°57'34
morning max el	13622 Oct 17 15:31	11° ≙ 41'08	27°28'20		13623 Oct 05 19:33	0∘ ⊽	
	13622 Oct 31 23:42	0° M			13623 Oct 25 05:44	0° M	
asc. node	13622 Nov 12 23:39	21°ML04'13		asc. node	13623 Oct 30 20:22	10° M 49'01	
	13622 Nov 17 08:43	0° ∡ ¹		morning set	13623 Nov 01 23:01	15°M08'00	
morning set	13622 Nov 17 20:10	1° ∡ ′00′29		max. Earth dist.	13623 Nov 07 17:43	27° M $32'22$	1.31436 AU
					13623 Nov 08 20:27	0° ∡ 7	
superior conj	13622 Nov 24 19:01	16° ∡ 15'44	1°30'58				
minimum elong	13622 Nov 24 17:30	16° ∡ °07′15		superior conj	13623 Nov 09 05:36	0° ∡ ′50'46	1°18'57
max. Earth dist.	13622 Nov 24 10:42		1.31187 AU	minimum elong	13623 Nov 09 03:29	0° ₹ 39'00	1°19'33
	13622 Dec 01 00:09	0°ಕ		evening rise	13623 Nov 15 22:30	15° ∡ ³38'25	
evening rise	13622 Dec 01 12:44	1° る 07'39			13623 Nov 22 22:59	0° る	
desc. node	13622 Dec 15 17:32	28° る 00'19		desc. node	13623 Dec 02 14:35	16° る 19'19	
	13622 Dec 16 23:38	0° ≈		evening max el	13623 Dec 12 14:02	28° る 26'59	25°13'37
evening max el	13622 Dec 30 21:28	17° ≈ 39'11	26°32'51		13623 Dec 14 07:19	0° ≈	
retrograde	13623 Jan 13 20:29	24°≈46'26		retrograde	13623 Dec 26 09:52	5°≈23'22	
evening set	13623 Jan 20 08:51	23°≈02'29	0.50006.444	evening set	13624 Jan 01 04:14	4°≈08'18	0.56025.441
min. Earth dist.	13623 Jan 24 11:13		0.58826 AU	min. Earth dist.	13624 Jan 06 02:05	1°≈27'01	0.56835 AU
inferior conj	13623 Jan 27 14:53	18°≈01'44			13624 Jan 08 06:59	30°Rる	500.412.4
minimum elong	13623 Jan 27 22:56		3°44'59	inferior conj	13624 Jan 08 19:45	29°る38'48	
morning rise direct	13623 Feb 04 16:03	13°≈28'20		minimum elong	13624 Jan 09 04:18	29°る24'41 25°る27'37	5-0141
asc. node	13623 Feb 06 16:51	13°≈13'49		morning rise direct	13624 Jan 17 06:45 13624 Jan 19 11:40	25° る 2737	
	13623 Feb 14 16:20	13°≈32'04 17°≈10'32	10021/10		13624 Jan 26 19:40	23 3 13 29 28° 3 02'09	
morning max el	13623 Feb 14 16:29 13623 Feb 23 18:43	0° ∺	10 41 17	asc. node morning max el	13624 Jan 28 17:51	28°る02'09 29°る42'50	19°10'10
morning set	13623 Mar 02 11:07	12° ∺ 20'14		morning max ci	13624 Jan 29 00:49	0°≈	17 10 10
morning sot	15025 Will 02 11.0/	12 /(2017		morning set	13624 Feb 14 11:29	0 ∞ 26° ≈ 43'56	
superior conj	13623 Mar 11 18:01	29° ¥ 47'55	0°16'21	morning set	13624 Feb 16 02:56	20 ≈ 43 30	
minimum elong	13623 Mar 11 19:12	29° H 53'19			1502.1100 10 02.50	ν <i>Λ</i> (
minimum ciong	13623 Mar 11 19:12	29 γ (33 19	0 101/	superior conj	13624 Feb 22 18:28	13° ¥ 04'51	0°46'28
desc. node	13623 Mar 13 18:56	3° Υ 29'28		minimum elong	13624 Feb 22 21:01	13°) 17'08	0°46'29
max. Earth dist.	13623 Mar 19 07:03	13° Υ '08'20	1.40886 AU	desc. node	13624 Feb 28 15:26	24° \(\) 05'10	J .J 27
evening rise	13623 Mar 23 18:51	20° Υ 39'51		max. Earth dist.	13624 Feb 29 13:49	25°) 46'22	1.38633 AU
	13623 Mar 29 14:39	0°8			13624 Mar 02 22:54	0°Υ	
	13623 Apr 19 15:17	0°II		evening rise	13624 Mar 04 08:00	2° Υ 24'11	
evening max el	13623 Apr 27 01:00	8° Ⅱ 27'37	23°21'55	<i>U</i> -	13624 Mar 21 19:12	0°8	
<i>3</i>	r				,··-	_	

evening max el	13624 Apr 08 14:38	22° 8 20'31	24°41'46		13625 Mar 16 11:17	0°8	
retrograde	13624 Apr 20 06:48	29° 8 09'34		evening max el	13625 Mar 22 04:01	6° 8 11'40	25°54'04
asc. node	13624 Apr 23 16:13	28° 8 19'14		retrograde	13625 Apr 03 18:08	13° 8 25'20	
evening set	13624 Apr 25 21:37	26° 8 47'56		evening set	13625 Apr 09 20:04	10° 8 55'46	
min. Earth dist.	13624 Apr 30 09:40	21° 8 41'33	0.68332 AU	asc. node	13625 Apr 10 13:37	10° 8 17'04	
inferior conj	13624 May 01 10:54	20° 8 17'35	2°11'58	min. Earth dist.	13625 Apr 14 01:22	6° 8 24'45	0.67365 AU
minimum elong	13624 May 01 08:45	20° 8 24'46	2°10'38	inferior conj	13625 Apr 15 15:06	4° 8 26'03	1°31'21
morning rise	13624 May 06 20:05	14° 8 19'48		minimum elong	13625 Apr 15 13:10	4° 8 32'08	1°30'12
direct	13624 May 10 14:53	12° 8 57'50			13625 Apr 19 12:52	30° ₹Ƴ	
morning max el	13624 May 17 23:16	17° 8 02'19	19°42'20	morning rise	13625 Apr 21 06:56	28° Ƴ 38′04	
desc. node	13624 May 26 17:27	27° 8 49'58		direct	13625 Apr 24 14:26	27° Y 35'28	
	13624 May 28 06:20	Π $^{\circ}0$			13625 Apr 29 23:25	0° 8	
greatest brilliancy	13624 May 30 17:31	3° Ⅲ 33'38	-0.6m	morning max el	13625 May 01 07:15	1° 8 12'04	18°48'11
morning set	13624 Jun 13 01:54	23° Ⅱ 40'43		desc. node	13625 May 13 14:13	17° 8 33'36	
	13624 Jun 17 04:14	0 \circ \odot		greatest brilliancy	13625 May 15 07:22	20° 8 10'10	-0.8m
max. Earth dist.	13624 Jun 24 12:23	11° © 29'15	1.44812 AU		13625 May 21 15:59	Π °0	
				morning set	13625 May 23 11:57	2° ∏ 51′02	
superior conj	13624 Jun 29 04:59	18° © 58'12		max. Earth dist.	13625 Jun 07 05:58	25° Ⅱ 50′18	1.45682 AU
minimum elong	13624 Jun 29 09:29	19° © 16'18	2°10'19				
	13624 Jul 05 23:26	$0^{\circ}\Omega$		superior conj	13625 Jun 08 18:31	28° Ⅱ 13'20	
evening rise	13624 Jul 12 22:24	11° Ω 37'17		minimum elong	13625 Jun 08 15:44	28° Ⅱ 02'24	2°13'18
asc. node	13624 Jul 20 15:05	24° Ω 30′09			13625 Jun 09 21:45	0 \circ \odot	
	13624 Jul 24 02:07	0° m		evening rise	13625 Jun 24 01:21	22°528'23	
evening max el	13624 Jul 30 23:10	8° m 57'51	18°08'28		13625 Jun 28 17:40	$0^{\circ}\Omega$	
retrograde	13624 Aug 06 07:56	12°Mp 18'31		asc. node	13625 Jul 07 11:53	13° Ω 40′01	
evening set	13624 Aug 09 03:08	11° m 37'18		evening max el	13625 Jul 14 12:19	22° Ω 36′05	18°31'50
inferior conj	13624 Aug 15 06:26	6°Mp18′14	2°02'34	retrograde	13625 Jul 20 23:52	26° Ω 05'49	
minimum elong	13624 Aug 15 08:56	6° Mp 11′22	2°01'21	evening set	13625 Jul 24 03:44	25° Ω 09'27	
min. Earth dist.	13624 Aug 17 22:08	3°Mp24'10	0.63289 AU	inferior conj	13625 Jul 29 20:54	19° Ω 34'43	2°41'19
morning rise	13624 Aug 21 12:50	0° mp 03'58		minimum elong	13625 Jul 29 23:01	19° Ω 28'18	2°40'09
	13624 Aug 21 14:56	30°R€		min. Earth dist.	13625 Jul 31 22:50	17° Ω 04'16	0.65273 AU
desc. node	13624 Aug 22 15:23	29° Ω 17'39		morning rise	13625 Aug 04 17:10	13° Ω 12'08	
direct	13624 Aug 28 04:34	27° Ω 33'07		desc. node	13625 Aug 09 12:51	10° Ω 42'14	
	13624 Sep 04 10:07	0° m/y	25040112	direct	13625 Aug 11 04:19	10° Ω 32'26	25005121
morning max el	13624 Sep 11 03:35	5° Mp 34'43	27°48'12	morning max el	13625 Aug 24 14:29	18° Ω 26'56	27°05'21
	13624 Sep 29 16:08	0° ⊽			13625 Sep 03 08:28	0° m)	
morning set	13624 Oct 15 18:44	28° £ 52'48			13625 Sep 22 15:16	0° ⊽	
,	13624 Oct 16 08:03	0°M		morning set	13625 Sep 29 04:35	12° £ 08'18	1 22525 444
asc. node	13624 Oct 16 17:02	0°M45'39	1 22216 ATT	max. Earth dist.	13625 Oct 03 11:58		1.33535 AU
max. Earth dist.	13624 Oct 20 19:16	9°M18'03	1.32216 AU	asc. node	13625 Oct 03 13:39	20° ≏ 49'27	
aumorior aoni	13624 Oct 23 13:13	15° M .13'34	1901!14	avmariar agni	13625 Oct 07 15:44	29° ≙ 18'35	0°37'58
superior conj	13624 Oct 23 13:13 13624 Oct 23 10:57	15°M01'13	1°01'14 1°01'32	superior conj	13625 Oct 07 13:44 13625 Oct 07 13:56	29° 2 09'05	0°37′38 0°38′02
minimum elong evening rise	13624 Oct 23 10.37 13624 Oct 30 09:34	0° ₹ 10'15	1 01 32	minimum elong	13625 Oct 07 13.36 13625 Oct 07 23:34	29 == 0903	0 38 02
evening rise	13624 Oct 30 07:40	0° × ⁷		evening rise	13625 Oct 07 23:34 13625 Oct 14 20:06	14°MJ38'32	
	13624 Nov 15 18:27	0° ਠ		evening rise	13625 Oct 22 12:04	0° √	
desc. node	13624 Nov 18 11:45	3° そ 35'42		evening max el	13625 Nov 04 12:28	18° ∡ ³38'10	21°53'56
evening max el	13624 Nov 23 00:16	8° る 35'17	23°34'48	desc. node	13625 Nov 05 09:02	19° × ⁷ 27'00	21 33 30
retrograde	13624 Dec 06 10:45	15° ට 16'32	23 31 10	retrograde	13625 Nov 17 00:38	24° х 50'14	
evening set	13624 Dec 11 00:04	14° る 31'24		evening set	13625 Nov 20 04:24	24° × ⁷ 27'56	
min. Earth dist.	13624 Dec 17 10:43		0.55311 AU	inferior conj	13625 Nov 28 22:28	20°× 7 33'54	-5°47'04
inferior conj	13624 Dec 19 04:16	10° ට 25'25		minimum elong	13625 Nov 28 17:08		5°45'30
minimum elong	13624 Dec 19 07:51	10° ට 20'08		min. Earth dist.	13625 Nov 28 17:03	20° х 41′29	0.54541 AU
morning rise	13624 Dec 27 17:24	6° る 32'22	2 2037	morning rise	13625 Dec 07 06:51	16° ⊀ ¹46'30	0.0 10 11 110
direct	13624 Dec 30 10:50	6° ප 14'10		direct	13625 Dec 10 20:41	16° ⊀ 18'20	
morning max el	13625 Jan 10 06:10	11°る24'20	20°22'01	morning max el	13625 Dec 23 04:08	22° × 12'21	21°55'36
asc. node	13625 Jan 12 16:57	14°る00'32	20 22 01	morning man vi	13625 Dec 29 18:38	0°ਰ	21 00 00
	13625 Jan 23 00:19	0°≈		asc. node	13625 Dec 30 14:09	0 3 1° ろ 09'58	
morning set	13625 Jan 28 18:00	0 ~ 11° ≈ 21'50		morning set	13626 Jan 13 04:14	26°る07'03	
	15020 van 20 10.00	11 /4/21/00			13626 Jan 15 00:15	20° ∞	
superior conj	13625 Feb 05 08:04	26°≈56'58	1°09'34		15020 Juli 15 00.15	J - J -	
minimum elong	13625 Feb 05 10:45	27°≈10'34	1°09'52	superior conj	13626 Jan 20 07:08	11° ≈ 14'02	1°25'38
minimum ciong	13625 Feb 06 20:32	0° \	1 07 32	minimum elong	13626 Jan 20 09:13	11°≈24'59	1°26'17
max. Earth dist.	13625 Feb 10 20:55	7° ¥ 50′21	1.36426 AU	max. Earth dist.	13626 Jan 24 09:29	11 ~ 2 4 33 19° ≈ 41'53	1.34482 AU
desc. node	13625 Feb 14 11:57	14°) 36'48	1.50.20710	evening rise	13626 Jan 28 16:17	28°≈08'22	1.0 . 102 /10
evening rise	13625 Feb 14 16:16	14°) 56'29			13626 Jan 29 15:44	0° ∺	
	13625 Feb 23 09:24	0° Υ		desc. node	13626 Feb 01 08:33	5° ∺ 00'47	
	1011100 10 07.27	- ·			222220 01 00.55	- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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13627 Dec 19 22:04

10°る26'27 1°38'09

13627 Jan 04 13:42

minimum elong

25°る52'02

1°35'58

superior conj

minimum elong	13627 Dec 19 22:04	10°る26'28	1°39'12	max. Earth dist.	13628 Dec 03 16:51	25° ∡ 750'42	1.31278 AU
max. Earth dist.	13627 Dec 21 09:17	13° る 40'46	1.31857 AU	man. Barur dist.	13628 Dec 05 13:36	0°중	1.51270110
evening rise	13627 Dec 27 01:44	25° る 51'52		evening rise	13628 Dec 10 05:33	10° ට 09'47	
	13627 Dec 29 02:19	0° ≈		•	13628 Dec 20 08:57	0° ≈	
desc. node	13628 Jan 06 02:01	15° ≈ 02'45		desc. node	13628 Dec 22 22:55	4° ≈ 27'18	
	13628 Jan 15 09:51	0° ∀		evening max el	13629 Jan 09 22:26		27°04'29
evening max el	13628 Jan 28 17:23	16° 米 13'51	27°32'14		13629 Jan 11 17:28	0° ∀	
retrograde	13628 Feb 11 14:36	23°) ₹35'58		retrograde	13629 Jan 23 21:38	5°) (36′59	
evening set	13628 Feb 18 12:28	21°)(18'13	0.60040.444	evening set	13629 Jan 30 15:56	3°) €38'12	0.60062.444
min. Earth dist. inferior conj	13628 Feb 22 06:32 13628 Feb 25 05:52	18°) 18'51 15°) 31'04		min. Earth dist.	13629 Feb 03 12:45 13629 Feb 04 16:47	0°) 56'48 30°R≈	0.60062 AU
minimum elong	13628 Feb 25 09:13	15° X 23'08		inferior conj	13629 Feb 04 10.47 13629 Feb 06 17:14	30 k∞ 28°≈19'12	-3°00'08
asc. node	13628 Mar 01 06:02	11° X 25'36	1 30 02	minimum elong	13629 Feb 06 23:44	28°≈05'45	
morning rise	13628 Mar 03 08:43	10° ¥ 25'38		morning rise	13629 Feb 14 10:43	23°≈33'50	2 0, 00
direct	13628 Mar 05 14:29	10°) 02′56		asc. node	13629 Feb 16 03:28	23° ≈ 17'58	
morning max el	13628 Mar 12 07:42	13°) €27'17	17°47'24	direct	13629 Feb 16 12:04	23° ≈ 17'27	
	13628 Mar 23 16:17	0° Y		morning max el	13629 Feb 23 22:06	26° ≈ 59'21	18°03'17
morning set	13628 Mar 28 04:34	7° Y 55'14			13629 Feb 26 14:03	0° ∀	
desc. node	13628 Apr 03 04:03	18° Y 25′04		morning set	13629 Mar 11 12:04	21°) 34′54	
		00			13629 Mar 16 01:16	0° Υ	
superior conj	13628 Apr 08 17:45	27° Y 55'59		desc. node	13629 Mar 21 00:33	8° Ƴ 59'24	
minimum elong	13628 Apr 08 13:36	27° Y 38'35	0°42'30		12/20 1/4 21 12 24	000051156	0002157
	13628 Apr 09 23:23	0°8 9°814'01	1 42017 ATT	superior conj	13629 Mar 21 12:24	9° Υ 51'56 9° Υ 50'29	
max. Earth dist. evening rise	13628 Apr 15 14:36 13628 Apr 23 06:59	21° 8 22'02	1.43917 AU	minimum elong behind sun begin	13629 Mar 21 12:04 13629 Mar 21 04:27	9° Y 16'40	0-03-38
evening rise	13628 Apr 28 22:31	0°Ⅱ		behind sun end	13629 Mar 21 19:42	10° Υ 24'13	
	13628 May 20 08:51	0°e≥		max. Earth dist.	13629 Mar 29 02:55	22°Υ′56'00	1.42090 AU
evening max el	13628 May 23 23:53	4°9500'20	21°17'27	man. Barur dist.	13629 Apr 02 10:21	0°8	120,0110
asc. node	13628 May 28 02:54	7° 5 29'11		evening rise	13629 Apr 03 11:20	1° 8 40'18	
retrograde	13628 Jun 01 17:55	9° 5 06'37			13629 Apr 22 08:49	$\Pi^{\circ}0$	
evening set	13628 Jun 06 03:15	7° 5 20'03		evening max el	13629 May 06 17:05	17° Ⅱ 50′15	22°35'16
inferior conj	13628 Jun 11 09:11	1° 5 06'43	3°08'44	asc. node	13629 May 15 00:06	23° Ⅲ 28'45	
minimum elong	13628 Jun 11 08:26	1° © 09'20	3°07'37	retrograde	13629 May 16 15:06	23° Ⅱ 40'49	
min. Earth dist.	13628 Jun 11 16:43	0°5540'30	0.68728 AU	evening set	13629 May 21 11:31	21° Ⅱ 38'56	
	13628 Jun 12 04:23	30°RⅡ		inferior conj	13629 May 26 18:49	15° Ⅱ 16'23	2°54'45
morning rise	13628 Jun 16 13:25 13628 Jun 21 16:23	24° П 49'33 22° П 35'56		minimum elong min. Earth dist.	13629 May 26 17:16 13629 May 26 13:24	15° Ⅲ 21'47 15° Ⅲ 35'13	2°53'31 0.68940 AU
direct desc. node	13628 Jun 30 04:48	22 H 33 36 27° H 01'09		morning rise	13629 May 20 13.24 13629 May 31 22:53	9° П 05'35	0.08940 AU
morning max el	13628 Jul 01 22:39	28° I I41'23	23°04'15	direct	13629 Jun 05 13:01	9 П 03 33 7° П 11'05	
morning max cr	13628 Jul 03 04:54	0°95	25 04 15	morning max el	13629 Jun 14 12:46	12° Ⅱ 24'43	21°37'29
	13628 Jul 25 09:32	$0^{\circ}\Omega$		desc. node	13629 Jun 17 01:53	15° Ⅲ 08'16	
morning set	13628 Aug 05 08:44	17° Ω 25'30			13629 Jun 28 11:20	0ಂಣ	
max. Earth dist.	13628 Aug 09 16:41	24° Ω 44'16	1.39918 AU	morning set	13629 Jul 16 12:27	27° © 10'10	
	13628 Aug 12 17:13	0° m			13629 Jul 18 07:04	$0^{\circ}\Omega$	
				max. Earth dist.	13629 Jul 22 19:07	7° Ω 18'55	1.42152 AU
superior conj	13628 Aug 17 11:12	8° TD 32'48					
minimum elong	13628 Aug 17 15:31	8° m 52'39	0°58'02	superior conj	13629 Jul 30 08:39	20° Ω 06'15	
asc. node	13628 Aug 24 03:22	21° Mp 04'32		minimum elong	13629 Jul 30 15:27	20° Ω 35'42	1°32'07
evening rise	13628 Aug 27 02:13 13628 Aug 28 19:18	26° Mp 43'47 0° <u>₽</u>		evening rise	13629 Aug 04 23:05 13629 Aug 10 09:28	0° m 9° m 51'56	
evening max el	13628 Sep 12 02:21	0 = 22° Ω 36'30	18°33'02	asc. node	13629 Aug 10 09.28 13629 Aug 10 23:57	10° m 58'05	
retrograde	13628 Sep 20 01:11	26° ⊆ 37'20	10 33 02	asc. node	13629 Aug 22 03:38	0∘ ಹ	
evening set	13628 Sep 22 00:26	26° Ω 23'21		evening max el	13629 Aug 26 12:00	5° £ 21'03	18°08'24
desc. node	13628 Sep 26 01:23	24° Ω 37'36		retrograde	13629 Sep 02 11:40	8° ≏ 54'54	
inferior conj	13628 Sep 29 21:34	21° ≏ 54'06	-1°13'06	evening set	13629 Sep 04 17:52	8° ჲ 32'59	
minimum elong	13628 Sep 29 18:39	21° ≏ 59'42	1°11'38	inferior conj	13629 Sep 11 20:41	3° ≏ 43'13	0°20'11
min. Earth dist.	13628 Oct 03 02:35	19° ≏ 26'34	0.57556 AU	minimum elong	13629 Sep 11 21:21	3° ≏ 41'44	0°19'53
morning rise	13628 Oct 07 09:24	16° ≏ 44'29		desc. node	13629 Sep 12 22:55	2° ≙ 44'00	
direct	13628 Oct 13 10:27	15° Ω 12'33		min. Earth dist.	13629 Sep 15 03:10	0° ≏ 48'19	0.59742 AU
morning max el	13628 Oct 27 17:36	22° Ω 43'44	26°54'14		13629 Sep 16 02:28	30°R, Mp	
1	13628 Nov 03 05:21	0°M		morning rise	13629 Sep 18 21:32	28° Mp 00'46	
asc. node	13628 Nov 20 05:09	27°M10'48		direct	13629 Sep 25 09:27	26° Mp 01'25	
morning set	13628 Nov 21 15:50 13628 Nov 26 13:19	0° ⊀ 10° ⊀ 05'36		morning max el	13629 Oct 05 06:35 13629 Oct 09 17:01	0° ჲ 3° ჲ 51'24	270/15/22
morning set	13020 NOV 20 13:19	10 X.02.20		morning max ei	13629 Oct 09 17:01 13629 Oct 28 23:10	3° ≥≥ 31°24 0° M	43 34
superior conj	13628 Dec 03 09:26	25° ₹ 09'20	1°35'16	asc. node	13629 Nov 07 01:55	16°M46'09	
minimum elong	13628 Dec 03 08:25	25° ₹ 03'38		morning set	13629 Nov 10 19:12	24°M23'29	

	13629 Nov 13 10:07	0° ∡ ¹		max. Earth dist.	13630 Oct 31 05:58	19° M .54'24	1.31700 AU
max. Earth dist.	13629 Nov 17 00:57	7° ∡ ¹58'04	1.31222 AU				
		_		superior conj	13630 Nov 02 06:27	24°M19'59	1°12'09
superior conj	13629 Nov 17 20:51	9° ∡ '48'55	1°26'34	minimum elong	13630 Nov 02 04:12	24°M07'36	1°12'36
minimum elong	13629 Nov 17 19:01	9° х ⁷ 38'46	1°27'20		13630 Nov 04 20:00	0° ∡¹	
evening rise	13629 Nov 24 13:42	24°ダ37'15 0°る		evening rise	13630 Nov 09 00:16	9° メ 09'28 0°る	
desc. node	13629 Nov 27 02:41 13629 Dec 09 19:54	0 3 23° る 14'05		desc. node	13630 Nov 19 13:53 13630 Nov 26 17:01	0 8 11° 8 09'01	
desc. node	13629 Dec 14 11:16	23 ⊙ 1403		evening max el	13630 Dec 04 09:19	20°る09'23	24°33'06
evening max el	13629 Dec 22 19:49	9° ≈ 40'15	26°02'31	retrograde	13630 Dec 18 02:33	26° る 59'56	21 33 00
retrograde	13630 Jan 05 18:24	16° ≈ 43'58		evening set	13630 Dec 23 09:31	25° පි 58'16	
evening set	13630 Jan 12 00:15	15° ≈ 11'48		min. Earth dist.	13630 Dec 28 21:03	23° ろ 09'08	0.56111 AU
min. Earth dist.	13630 Jan 16 08:57	12° ≈ 35′02	0.57929 AU	inferior conj	13630 Dec 31 06:00	21° る 40'08	-5°29'41
inferior conj	13630 Jan 19 09:58	10° ≈ 24'23	-4°22'50	minimum elong	13630 Dec 31 13:11	21° る 28'51	5°27'29
minimum elong	13630 Jan 19 18:43	10° ≈ 08'42	4°19'25	morning rise	13631 Jan 08 18:53	17° る 37'07	
morning rise	13630 Jan 27 16:06	6°≈00'44		direct	13631 Jan 11 03:58	17° පි 21'51	
direct	13630 Jan 29 17:32	5°≈47'00		asc. node	13631 Jan 20 22:10	22°る00'08	10025140
asc. node	13630 Feb 03 00:52	6°≈50'44 9°≈56'48	10020125	morning max el	13631 Jan 21 01:36	22°る08'21 0°≈	19°37'49
morning max el	13630 Feb 07 05:26 13630 Feb 20 07:29	9° ∺ 0° ∺	18°39'25	morning set	13631 Jan 27 08:34 13631 Feb 07 10:47	0°≈ 20°≈16'04	
morning set	13630 Feb 23 07:26	5° ¥ 45'32		morning set	13631 Feb 07 10.47 13631 Feb 12 06:24	20 ≈10 04 0° ∺	
morning set	13030100 23 07.20	3 7(4332			13031160 12 00.24	0 /	
superior conj	13630 Mar 04 03:16	22°) 42′28	0°29'57	superior conj	13631 Feb 15 09:47	6° ¥ 15'14	0°57'08
minimum elong	13630 Mar 04 05:12	22° 米 51'32	0°29'53	minimum elong	13631 Feb 15 12:31	6° ¥ 28'40	0°57'15
desc. node	13630 Mar 07 21:03	29° ∺ 35'19		max. Earth dist.	13631 Feb 21 16:54	18° ¥ 16′20	1.37679 AU
	13630 Mar 08 02:31	0° Υ		desc. node	13631 Feb 22 17:35	20° 米 09'30	
max. Earth dist.	13630 Mar 11 10:35	5° ℃ 55'08	1.39930 AU	evening rise	13631 Feb 25 10:05	24° ¥ 59'10	
evening rise	13630 Mar 15 12:23	12° Y 53′25			13631 Feb 28 07:16	0° Υ	
	13630 Mar 26 05:34	0°∏ 8°0		avanina may al	13631 Mar 19 20:45	0° と 15° と 34'54	25°13'59
evening max el	13630 Apr 17 15:55 13630 Apr 19 07:28	0 <u>П</u> 1° П 41'57	23°56'24	evening max el retrograde	13631 Apr 01 21:04 13631 Apr 13 23:13	22° 8 35'23	23 13 39
retrograde	13630 Apr 30 09:16	8° П 12'18	23 30 24	asc. node	13631 Apr 18 18:45	20° 8 56'43	
asc. node	13630 May 01 21:23	8° I 1210		evening set	13631 Apr 19 18:48	20° 8 10'06	
evening set	13630 May 05 17:14	5° Ⅱ 57'17		min. Earth dist.	13631 Apr 24 03:56	15° 8 18'43	0.67973 AU
min. Earth dist.	13630 May 10 09:52	0°Ⅲ29'50	0.68683 AU	inferior conj	13631 Apr 25 10:23	13° 8 39'31	1°56'03
	13630 May 10 18:38	30° ₹ 8		minimum elong	13631 Apr 25 08:15	13° 8 46'29	1°54'46
inferior conj	13630 May 11 03:50	29° 8 28'37	2°30'33	morning rise	13631 Apr 30 22:03	7° 8 45'31	
minimum elong	13630 May 11 01:48	29° 8 35'36	2°29'14	direct	13631 May 04 11:59	6° 8 31'50	
morning rise	13630 May 16 10:23	23° 8 25'31		morning max el	13631 May 11 12:39	10° 8 22'44	19°17'17
direct	13630 May 20 12:04	21° 8 51'37	20020125	desc. node	13631 May 21 19:41	23° 8 30'12	0.7
morning max el	13630 May 28 08:56	26° 8 18'23 0° Ⅱ	20°20'25	greatest brilliancy	13631 May 24 07:24	27° 8 09'16 0° П	-0.7m
desc. node	13630 May 31 17:41 13630 Jun 03 22:50	0°Щ 4°Щ02'09		morning set	13631 May 26 05:09 13631 Jun 04 21:57	0°Щ 14° Щ 47'41	
desc. node	13630 Jun 21 20:56	0°95		morning set	13631 Jun 14 17:20	0°95	
morning set	13630 Jun 25 19:22	6°901'55		max. Earth dist.	13631 Jun 17 19:54	4°952'10	1.45271 AU
max. Earth dist.	13630 Jul 05 04:18	20° © 45'03	1.44003 AU				
	13630 Jul 10 21:12	$0^{\circ}\Omega$		superior conj	13631 Jun 21 06:35	10° © 18'31	-2°13'07
				minimum elong	13631 Jun 21 08:20	10°525'27	2°14'09
superior conj	13630 Jul 11 07:06	0° Ω 40'43			13631 Jul 03 11:17	0 $^{\circ}\Omega$	
minimum elong	13630 Jul 11 13:49	1° Ω 08'27	1°59'59	evening rise	13631 Jul 05 17:11	3° Ω 41'52	
evening rise	13630 Jul 24 00:09	22° Ω 15'16		asc. node	13631 Jul 15 17:22	20° Ω 02'13	
	13630 Jul 28 11:29	0° Mp			13631 Jul 22 18:10	0° M)	1001717
asc. node evening max el	13630 Jul 28 20:38 13630 Aug 10 01:47	0° Mp 39'14 18° Mp 33'55	18°03'10	evening max el retrograde	13631 Jul 24 16:04 13631 Jul 31 00:44	2° Mp 05'13 5° Mp 27'47	18°16'17
retrograde	13630 Aug 16 12:57	21° m 55'03	18 03 10	evening set	13631 Aug 02 23:42	4° Mg 40'11	
evening set	13630 Aug 19 03:23	21° my 21'37		evening set	13631 Aug 08 06:08	30°R€	
inferior conj	13630 Aug 25 14:16	16° m) 12'46	1°31'25	inferior conj	13631 Aug 08 22:13	29° Ω 14'11	2°21'13
minimum elong	13630 Aug 25 16:32	16° m) 06'55	1°30'20	minimum elong	13631 Aug 09 00:39	29° Ω 07'12	2°19'59
min. Earth dist.	13630 Aug 28 12:57	13° Mp 12'30	0.62032 AU	min. Earth dist.	13631 Aug 11 08:13	26° Ω 28'37	0.64176 AU
desc. node	13630 Aug 30 20:25	11° m 06'30		morning rise	13631 Aug 15 00:06	22° Ω 55'44	
morning rise	13630 Sep 01 03:15	10° m 07'29		desc. node	13631 Aug 17 17:56	21° Ω 12'20	
direct	13630 Sep 07 19:34	7° m/45'40		direct	13631 Aug 21 14:35	20° Ω 20'02	
morning max el	13630 Sep 21 22:48	15° m 45'29	27°57'58	morning max el	13631 Sep 04 08:35	28° Ω 19'23	27°33'37
	13630 Oct 03 15:07	ი∘ m 0∘ ত			13631 Sep 05 23:18	0° m)	
asc. node	13630 Oct 21 14:24 13630 Oct 24 22:37	0°ጤ 6°ጤ36'45		morning set	13631 Sep 27 10:37 13631 Oct 09 11:13	0° ჲ 21° ჲ 55'16	
morning set	13630 Oct 24 22.37 13630 Oct 25 19:20	8°M22'20		asc. node	13631 Oct 11 19:15	26° £ 36'47	
morning set	15050 000 25 17.20	0 HW22 20		abe. Houe	15051 500 11 17.15	20 - 30 - 7	

	12(21 0-4 12 10:45	00 m			12/22 5 10 00:22	000	
Fauth diet	13631 Oct 13 10:45	0°M	1 22720 ATT		13632 Sep 19 00:23	0° ⊽	
max. Earth dist.	13631 Oct 14 04:11	1°M30'54	1.32720 AU	morning set	13632 Sep 21 15:53	4° £ 55'45 12° £ 46'42	1 24264 ATT
	12(21 0-4 17 12.12	00 m 20100	0952102	max. Earth dist.	13632 Sep 25 16:57		1.34264 AU
superior conj minimum elong	13631 Oct 17 12:12 13631 Oct 17 10:03	8°M36'00	0°52'03	asc. node	13632 Sep 27 15:53	16° ≏ 42'18	
U		8°M24'24 23°M40'35	0°52'13	suporior coni	12622 San 20 11:47	22° ≏ 31'17	0°26'30
evening rise	13631 Oct 24 11:22 13631 Oct 27 11:32	23 1164033 0° x 7		superior conj minimum elong	13632 Sep 30 11:47	22° 2 24'09	0°26'31
desc. node	13631 Nov 13 14:14	0 x . 27° x 52'04		minimum elong	13632 Sep 30 10:25 13632 Oct 04 01:10	0°M	0 2031
desc. node	13631 Nov 15 14:14	27 メ ・32 04		evening rise	13632 Oct 04 01:10 13632 Oct 07 21:07	8°M05'57	
avanina may al	13631 Nov 15 14:34	0°る10'37	22051102	evening rise	13632 Oct 07 21:07	0° √ 1	
evening max el retrograde	13631 Nov 13 19.13 13631 Nov 28 21:37	6° る 40'44	22 31 02	ovanina may al	13632 Oct 19 10.30 13632 Oct 27 11:02	0 x · 10° x 21'27	21014'06
evening set	13631 Nov 28 21:37 13631 Dec 02 20:43	6°る06'34		evening max el desc. node	13632 Oct 27 11:02 13632 Oct 30 11:33	10 x 21 27	21 1400
min. Earth dist.	13631 Dec 02 20.43 13631 Dec 10 04:01	0 000 34 2° 石 46'16	0.54887 AU	retrograde	13632 Nov 08 08:57	12 x · 38 38 16° x 16'36	
inferior conj	13631 Dec 10 04.01	2°る4010 2°る07'35		evening set	13632 Nov 11 00:59	16° ₹ 10 30	
minimum elong	13631 Dec 11 07:12	2°る07'46		inferior conj	13632 Nov 19 22:46	10 x 00 00 12° x 06'34	5026127
minimum ciong	13631 Dec 11 07:04	2 007 40 30°R ✓	3 30 09	minimum elong	13632 Nov 19 22.40 13632 Nov 19 14:30	12 x 100 34	
morning rise	13631 Dec 13 03.44 13631 Dec 19 18:51	30 KX. 28° ₹19'00		min. Earth dist.	13632 Nov 19 14.30 13632 Nov 20 09:56	12 x 18 14 11° x 50'50	0.54500 AU
direct	13631 Dec 19 18.31 13631 Dec 22 20:35	28 x 1900 27° x 57'09			13632 Nov 28 04:37	8° ∡ 16'21	0.54500 AU
direct		2/* メ ・3/09		morning rise		7° x '16'21	
	13631 Dec 29 21:00		20050126	direct	13632 Dec 02 04:04		220 4012 1
morning max el	13632 Jan 03 07:33	3° る 25'35	20°59′26	morning max el	13632 Dec 15 00:16	13° x 53'13	22°40'31
asc. node	13632 Jan 07 19:25	8° る 30'19		asc. node	13632 Dec 24 16:35	26° ∡ *04'05	
	13632 Jan 20 09:07	0° ≈			13632 Dec 27 02:28	0°る	
morning set	13632 Jan 22 19:11	4° ≈ 57'47		morning set	13633 Jan 06 06:19	19° る 43'41	
					13633 Jan 11 01:10	0° ≈	
superior conj	13632 Jan 30 03:49						
minimum elong	13632 Jan 30 06:19	20° ≈ 31'31	1°17'40	superior conj	13633 Jan 13 05:57	4° ≈ 42'56	
	13632 Feb 03 23:25	0° ∀		minimum elong	13633 Jan 13 07:38		1°31'12
max. Earth dist.	13632 Feb 04 02:13	0°) 13'45	1.35561 AU	max. Earth dist.	13633 Jan 16 18:03	12° ≈ 05′10	1.33767 AU
evening rise	13632 Feb 08 01:30	7°) 49′00		evening rise	13633 Jan 21 07:03	21° ≈ 13'43	
desc. node	13632 Feb 09 14:09	10° ∺ 38′09			13633 Jan 25 22:19	0° ∀	
	13632 Feb 21 00:10	0° Y		desc. node	13633 Jan 26 10:48	0° ¥ 56'48	
evening max el	13632 Mar 14 10:46	29° Y 24'06	26°20'45		13633 Feb 13 20:58	0° Y	
	13632 Mar 15 01:43	9° 8		evening max el	13633 Feb 25 00:15	13° Ƴ 00′28	27°09'20
retrograde	13632 Mar 27 08:07	6° 8 43'34		retrograde	13633 Mar 10 11:10	20° Y 28'09	
evening set	13632 Apr 02 14:34	4° 8 12'10		evening set	13633 Mar 17 02:29	17° Ƴ 56'14	
asc. node	13632 Apr 04 16:11	2° 8 15'35		min. Earth dist.	13633 Mar 21 00:20	14° Y 13'05	0.65295 AU
min. Earth dist.	13632 Apr 06 17:27	29° Ƴ 55'54	0.66831 AU	asc. node	13633 Mar 22 13:40	12° Y 28'55	
	13632 Apr 06 16:05	30° ŖƳ		inferior conj	13633 Mar 23 07:33	11° Y 38'28	0°14'16
inferior conj	13632 Apr 08 12:25	27° Y ′44'50	1°10'49	minimum elong	13633 Mar 23 07:09	11° Y 39'35	0°14'00
minimum elong	13632 Apr 08 10:47	27° Y ′49'50	1°09'51	transit middle	13633 Mar 23 07:09	11° Y 39'35	0°14'00
morning rise	13632 Apr 14 07:53	22° Y 01'35		transit begin	13633 Mar 23 05:41	11° Y 43'42	
direct	13632 Apr 17 11:02	21° Y 06'19		transit end	13633 Mar 23 08:36	11° Y 35'29	
morning max el	13632 Apr 23 23:25	24° Y 34'29	18°30'12	morning rise	13633 Mar 29 13:28	6° Ƴ 07'56	
	13632 Apr 28 14:35	0°B		direct	13633 Apr 01 06:58	5° Ƴ 28'12	
desc. node	13632 May 07 16:26	13° 8 23'19		morning max el	13633 Apr 07 15:05	8° Ƴ 46'17	17°59'51
morning set	13632 May 14 17:30	24° 8 27'02			13633 Apr 22 08:49	0°B	
S	13632 May 18 06:06	0°II		desc. node	13633 Apr 24 13:05	3° 8 34'05	
	,			morning set	13633 Apr 25 16:42	5° 8 27'16	
superior conj	13632 May 30 15:43	19° Ⅲ 24'35	-2°07'21	Ç	•		
minimum elong	13632 May 30 09:49	19° Ⅱ 01'35	2°08'05	superior conj	13633 May 10 03:08	28° 8 43'17	-1°42'32
max. Earth dist.	13632 May 30 15:21		1.45829 AU	minimum elong	13633 May 09 18:01	28° 8 07'15	
	13632 Jun 06 10:17	0° ©			13633 May 10 22:35	0°II	
evening rise	13632 Jun 15 09:41	14° © 07'33		max. Earth dist.	13633 May 13 11:25		1.45637 AU
greatest brilliancy	13632 Jun 24 01:49	27° © 47'25	-0.8m	evening rise	13633 May 26 05:06	23° Ⅱ 44'05	1.10057110
greatest orimaney	13632 Jun 25 12:02	0°Ω	0.0111	evening rise	13633 May 30 07:03	0°95	
asc. node	13632 Jul 01 14:14	9° Ω 00'43		greatest brilliancy	13633 Jun 08 18:08	14°9517'06	-0.7m
evening max el	13632 Jul 07 03:55	15° Ω 47'39	18°47'00	asc. node	13633 Jun 18 11:11	27°525'24	0.7111
retrograde	13632 Jul 13 19:10	19° Ω 25'09	10 47 00	evening max el	13633 Jun 20 11:06	29°534'39	1003/123
evening set	13632 Jul 13 19:10 13632 Jul 17 02:55	$19^{\circ} \Omega 23^{\circ} 09$ $18^{\circ} \Omega 21^{\circ} 43$		Cvoning max ci	13633 Jun 20 21:26	29 3 34 39 0° Ω	17 34 43
•		$18^{\circ} 0.21^{\circ} 43$ $12^{\circ} \Omega 40'31$	2°52'35	retrograda		3° Ω 39'26	
inferior conj	13632 Jul 22 16:48	$12^{\circ} \Omega 40^{\circ} 31$ $12^{\circ} \Omega 34^{\circ} 54$	2°52'35 2°51'27	retrograde	13633 Jun 27 17:04	2° Ω 19'21	
minimum elong	13632 Jul 22 18:36			evening set	13633 Jul 01 10:08		
min. Earth dist.	13632 Jul 24 12:26	10° Ω 24'28	0.66006 AU	inforior con:	13633 Jul 03 21:55	30°₹© 26°©24'24	2000142
morning rise	13632 Jul 28 09:25	6° Ω 16'32		inferior conj	13633 Jul 06 18:42	26°©24'34	3°08'42
direct	13632 Aug 03 17:14	3° Ω 36'30		minimum elong	13633 Jul 06 19:32	26°©21'51	3°07'39
desc. node	13632 Aug 03 15:22	3° Ω 36'31	26920102	min. Earth dist.	13633 Jul 07 23:55	24°5947'35	0.67424 AU
morning max el	13632 Aug 16 19:55	11° Ω 22'50	26*39'02	morning rise	13633 Jul 12 04:27	20°500'34	
	13632 Aug 31 16:11	0° m y		direct	13633 Jul 18 02:27	17° © 25'07	

desc. node	13633 Jul 21 12:44	18° © 08'47		morning rise	13634 Jun 26 06:46	4° © 01'02	
morning max el	13633 Jul 30 06:48	24° © 43'15	25°23'10	direct	13634 Jul 01 17:02	1° © 37'37	
	13633 Aug 04 01:10	$0^{\circ}\Omega$		desc. node	13634 Jul 08 10:01	4° 5 23'43	
	13633 Aug 25 02:55	0° m ⁄		morning max el	13634 Jul 12 16:59	8° © 12'29	23°55'48
morning set	13633 Sep 04 05:31	17° m) 14'31			13634 Jul 29 19:05	$0^{\circ}\Omega$	
max. Earth dist.	13633 Sep 07 20:00	23° m 51'44	1.36259 AU	morning set	13634 Aug 16 23:31	28° Ω 39'53	
	13633 Sep 11 01:19	0∘ ⊽			13634 Aug 17 18:12	0° m y	
				max. Earth dist.	13634 Aug 20 17:42	5° TD 11'55	1.38555 AU
superior conj	13633 Sep 14 02:21	5° ≏ 58'53	-0°03'58				
minimum elong	13633 Sep 14 02:35	6° ≙ 00'04	0°03'54	superior conj	13634 Aug 28 04:19	18° m 49'53	-0°37'58
behind sun begin	13633 Sep 13 20:24	5° ≏ 29'18		minimum elong	13634 Aug 28 07:00	19° m 02'36	0°37'47
behind sun end	13633 Sep 14 08:46	6° ≏ 30'54		asc. node	13634 Sep 01 09:02	26° m 54'04	
asc. node	13633 Sep 14 12:28	6° ≏ 49'22			13634 Sep 02 23:04	0∘ ত	
evening rise	13633 Sep 22 03:21	22° ≏ 19'51		evening rise	13634 Sep 06 03:22	6° ≙ 15′04	
	13633 Sep 25 23:07	0° M.			13634 Sep 19 21:47	0° M	
evening max el	13633 Oct 09 16:10	21°M13'18	19°54'35	evening max el	13634 Sep 22 11:11	2°M54'05	18°56'38
desc. node	13633 Oct 17 08:56	26° ™ 02'09		retrograde	13634 Oct 01 04:02	7° M 16'03	
retrograde	13633 Oct 19 23:22	26°M21'15		evening set	13634 Oct 03 00:58	7° M 04'43	
evening set	13633 Oct 21 22:25	26° ™ 10′56		desc. node	13634 Oct 04 06:24	6° ™ 45'40	
inferior conj	13633 Oct 30 19:12	22°M10'48	-4°02'41	inferior conj	13634 Oct 11 08:28	2° M 47'41	-2°14'33
minimum elong	13633 Oct 30 09:29	22°M25'39	3°58'49	minimum elong	13634 Oct 11 02:46	2°M57'40	2°11'51
min. Earth dist.	13633 Nov 01 18:16	20°M58'57	0.55056 AU	min. Earth dist.	13634 Oct 14 07:02	0° M 44'16	0.56464 AU
morning rise	13633 Nov 07 19:08	17° M 58'15			13634 Oct 15 09:53	30° ₽ Ω	
direct	13633 Nov 12 16:28	17° ™ 05'50		morning rise	13634 Oct 19 01:32	27° ♀ 59'59	
morning max el	13633 Nov 26 10:21	23°M54'10	24°29'31	direct	13634 Oct 24 18:02	26° ≏ 43'18	
	13633 Dec 01 23:01	0°⊀			13634 Nov 03 00:59	0° M	
asc. node	13633 Dec 11 13:39	14° ₹ 26′23		morning max el	13634 Nov 07 22:08	4° ™ 00'42	26°08'36
	13633 Dec 19 15:33	0°ප			13634 Nov 26 14:04	0° ∡ ¹	
morning set	13633 Dec 21 18:16	4° る 28'28		asc. node	13634 Nov 28 10:36	3° ∡ °24′10	
				morning set	13634 Dec 06 05:14	19° ₰ 06'09	
superior conj	13633 Dec 28 13:26	19° る 20'12			13634 Dec 11 04:22	0° ろ	
minimum elong	13633 Dec 28 14:04	19° る 23'41	1°38'07			_	
max. Earth dist.	13633 Dec 30 17:31	24° る 03'34	1.32412 AU	superior conj	13634 Dec 12 23:56	4° る 02'33	
	13634 Jan 02 12:24	0° ≈		minimum elong	13634 Dec 12 23:29	4°る00'03	1°38'42
evening rise	13634 Jan 04 23:29	5°≈05'24		max. Earth dist.	13634 Dec 13 22:57	6°る10'26	1.31549 AU
desc. node	13634 Jan 13 07:31	21°≈00'21		evening rise	13634 Dec 19 23:50	19° ට 15'34	
	13634 Jan 18 14:11	0°) {	27022140	1 1	13634 Dec 25 07:49	0°≈	
evening max el	13634 Feb 07 12:23	26° ¥ 13′29 0° Ƴ	27°32'40	desc. node	13634 Dec 31 04:19	10°≈41'22	
. 1	13634 Feb 11 23:39	3°Υ40'04			13635 Jan 13 00:02	0° \ 8° \ 49'57	27024144
retrograde	13634 Feb 21 07:29	1° Υ 14'57		evening max el	13635 Jan 20 20:59	8° X 49'37 16° ¥ 08'49	21-24-44
evening set	13634 Feb 28 04:12	1 1 14 3 / 30°R) €		retrograde	13635 Feb 03 19:43	16 ★0849 13°¥58'29	
min. Earth dist.	13634 Mar 01 18:52	30°₹ X 28° ¥ 01'03	0.63427 AU	evening set min. Earth dist.	13635 Feb 10 16:44 13635 Feb 14 11:20	13° X 38′29 11° X 07'41	0.61324 AU
	13634 Mar 03 22:50	25° H 14'04			13635 Feb 14 11.20 13635 Feb 17 13:28	8° ∺ 22'22	
inferior conj	13634 Mar 06 17:00 13634 Mar 06 18:44	25° H 09'41		inferior conj		8° X 11'53	
minimum elong asc. node	13634 Mar 09 11:07	23 X 0941 22° X 35'36	0 32 31	minimum elong asc. node	13635 Feb 17 18:08 13635 Feb 24 08:33	3° ∺ 36'38	2 0941
morning rise	13634 Mar 13 11:43	19° X 58'37		morning rise	13635 Feb 24 22:33	3°) € 24'49	
direct	13634 Mar 15 21:06	19° X 30'51		direct	13635 Feb 27 01:58	3° ∺ 05'17	
morning max el	13634 Mar 22 08:49	22°) 50'09	17°46'45	morning max el	13635 Mar 06 01:22	6° ¥ 36'10	17°51'41
morning max or	13634 Mar 28 01:07	0°Υ	17 10 13	morning max or	13635 Mar 21 03:52	0°Υ	17 31 11
morning set	13634 Apr 07 18:30	17° Y '44'03		morning set	13635 Mar 21 16:54	0° Υ 58'46	
desc. node	13634 Apr 11 09:42	23° Y '57'32		desc. node	13635 Mar 29 06:14	14° Υ 28'50	
	13634 Apr 14 23:20	0°8					
	Ι			superior conj	13635 Apr 01 13:23	20° Y °12′29	-0°25'51
superior conj	13634 Apr 20 08:17	8° 8 54'27	-1°05'48	minimum elong	13635 Apr 01 11:01	20° Y °02′18	
minimum elong	13634 Apr 20 01:41	8° 8 27'25		8	13635 Apr 07 09:01	0° ႘	
max. Earth dist.	13634 Apr 26 05:40	18° 8 24'15	1.44731 AU	max. Earth dist.	13635 Apr 08 20:41	2° 8 26'19	1.43201 AU
	13634 May 03 15:22	$\Pi^{\circ}0$		evening rise	13635 Apr 15 10:45	12° 8 58'13	
evening rise	13634 May 05 16:05	3° Ⅱ 07'25		-	13635 Apr 26 15:53	Π °0	
	13634 May 23 19:34	0 \circ \odot		evening max el	13635 May 17 08:26	27° Ⅲ 12'55	21°49'52
evening max el	13634 Jun 03 12:31	13° © 23'15	20°36'27		13635 May 20 10:58	0 \circ \odot	
asc. node	13634 Jun 05 08:13	15° © 05'08		asc. node	13635 May 23 05:20	1° 5 945'59	
retrograde	13634 Jun 11 16:00	18° © 05'13		retrograde	13635 May 26 14:06	2° © 37'41	
evening set	13634 Jun 15 19:07	16° © 28'19		evening set	13635 May 31 04:05	0° © 44'33	
inferior conj	13634 Jun 21 01:18	10° © 21'27	3°11'59		13635 May 31 23:45	30°Ŗ Ⅱ	
minimum elong	13634 Jun 21 01:05	10° © 22'09	3°10'56	inferior conj	13635 Jun 05 10:22	24° Ⅲ 27′16	3°04'03
min. Earth dist.	13634 Jun 21 16:38	9° 5 28'36	0.68389 AU	minimum elong	13635 Jun 05 09:15	24° Ⅲ 31'11	3°02'54

13636 May 19 19:56

13636 May 19 18:08

inferior conj

minimum elong

8°Ⅲ38'11

8°**Ⅱ**44'25

2°45'43

2°44'26

asc. node

1°**I**I04'24

30°₽8

13637 Apr 25 23:53

13637 Apr 27 20:02

	12/27 4 20 15 20	200 421101			12/20 4 10 00 05	70 00110	1020114
evening set	13637 Apr 28 15:38	29° 8 21'01		inferior conj	13638 Apr 18 09:05		1°38'14
min. Earth dist.	13637 May 03 04:47	24° 8 09'13	0.68438 AU	minimum elong	13638 Apr 18 07:05	7° 8 06'41	1°37'03
inferior conj	13637 May 04 04:10	22° 8 50'53	2°17'12	morning rise	13638 Apr 23 23:45	1° 8 10'37	
minimum elong	13637 May 04 02:02	22° 8 58'04	2°15'52	direct	13638 Apr 27 08:52	0° 8 05'13	
morning rise	13637 May 09 12:36	16° 8 51'42		morning max el	13638 May 04 03:30	3° 8 45'15	18°55'09
direct	13637 May 13 09:06	15° 8 26'44		desc. node	13638 May 15 21:57	19° 8 14'44	
morning max el	13637 May 20 20:34	19° 8 36'42	19°51'43	greatest brilliancy	13638 May 17 15:01	21° 8 49'28	-0.8m
desc. node	13637 May 29 01:09	29° 8 34'54	17 51 15	greatest orimaney	13638 May 22 23:00	0°II	0.0111
desc. node				. ,	•		
	13637 May 29 08:26	0° Π		morning set	13638 May 26 21:15	6° Ⅱ 04'48	
morning set	13637 Jun 16 13:46	27° Ⅱ 02'41		max. Earth dist.	13638 Jun 10 04:21	28° Ⅱ 19'59	1.45599 AU
	13637 Jun 18 11:49	0			13638 Jun 11 05:54	0	
max. Earth dist.	13637 Jun 27 11:23	14° 5 02'40	1.44625 AU				
				superior conj	13638 Jun 12 05:25	1° 5 32'16	-2°13'12
superior conj	13637 Jul 02 13:38	22° © 12'02	-2°07'22	minimum elong	13638 Jun 12 03:51	1° 5 26'04	2°14'14
minimum elong	13637 Jul 02 18:54	22° © 33'19		evening rise	13638 Jun 27 07:30	25°935'12	
minimum crong	13637 Jul 07 08:13	0°Ω	2 00 00	evening rise	13638 Jun 30 00:54	0°Ω	
		14° Ω 34'46		4-			
evening rise	13637 Jul 16 00:49			asc. node	13638 Jul 09 19:41	15° Ω 29'38	
asc. node	13637 Jul 22 22:53	26° Ω 15'49		evening max el	13638 Jul 17 08:25	25° Ω 13'42	18°27'17
	13637 Jul 25 05:51	0° m y		retrograde	13638 Jul 23 18:57	28° Ω 41'04	
evening max el	13637 Aug 02 18:50	11°Mp36'29	18°06'29	evening set	13638 Jul 26 21:32	27° Ω 47′03	
retrograde	13637 Aug 09 03:58	14° m 56'56		inferior conj	13638 Aug 01 15:58	22° Ω 14'40	2°36'34
evening set	13637 Aug 11 21:53	14° m) 17'52		minimum elong	13638 Aug 01 18:12	22°Ω08'01	2°35'21
inferior conj	13637 Aug 18 03:03	9° mp 01'25	1°55'01	min. Earth dist.	13638 Aug 03 20:04	19° Ω 39'47	0.65001 AU
minimum elong	13637 Aug 18 05:31	8° m) 54'44	1°53'48	morning rise	13638 Aug 07 13:38	15° Ω 52'57	0.03001710
•	•			•			
min. Earth dist.	13637 Aug 20 20:42	6° Mp 05′02	0.62972 AU	desc. node	13638 Aug 11 20:27	13° Ω 31'43	
morning rise	13637 Aug 24 11:06	2° Mp 49'04		direct	13638 Aug 14 01:52	13° Ω 13'52	
desc. node	13637 Aug 24 22:58	2°Mp27'42		morning max el	13638 Aug 27 14:11	21° Ω 10′09	27°13'31
direct	13637 Aug 31 03:08	0°m/20'10			13638 Sep 04 06:07	0° m y	
morning max el	13637 Sep 14 03:31	8° m/22'00	27°51'49		13638 Sep 24 00:19	0∘ ত	
-	13637 Sep 30 20:40	0∘ ⊽		morning set	13638 Oct 02 01:45	14° £ 52'04	
	13637 Oct 17 20:01	0°M₊		asc. node	13638 Oct 05 21:32	22° ≙ 28'54	
morning set	13637 Oct 17 20:01	1°M31'25		max. Earth dist.	13638 Oct 06 11:27	23° £ 39'58	1.33307 AU
•		2°M25'40		max. Earth dist.			1.33307 AU
asc. node	13637 Oct 19 00:54				13638 Oct 09 12:30	0° M	
max. Earth dist.	13637 Oct 23 17:18	12°M13'40	1.32060 AU				
				superior conj	13638 Oct 10 10:06	1° M 54'18	0°41'51
superior conj	13637 Oct 26 06:37	17° M 45'44	1°04'18	minimum elong	13638 Oct 10 08:11	1° M 44'07	0°41'57
minimum elong	13637 Oct 26 04:20	17° M 33'17	1°04'38	evening rise	13638 Oct 17 12:57	17° M 09'39	
_	13637 Oct 31 20:35	0° ∡ ¹		-	13638 Oct 23 20:19	0° ⊼ ¹	
evening rise	13637 Nov 02 02:10	2° ×7 40'07		evening max el	13638 Nov 07 15:12	21° х 47'27	22°08'24
evening rise	13637 Nov 16 16:36	0°る		desc. node	13638 Nov 07 16:42	21° х 1727	22 0021
daga mada		5° る 45'15			13638 Nov 20 07:31	28° ×704'30	
desc. node	13637 Nov 20 19:26		22050112	retrograde			
evening max el	13637 Nov 26 03:51		23°50'13	evening set	13638 Nov 23 16:04	27° ∡ ³39'34 −	
retrograde	13637 Dec 09 16:40	18° る 30'19		inferior conj	13638 Dec 02 08:23	23° ҂ 44'49	
evening set	13637 Dec 14 10:42	17° る 41'06		minimum elong	13638 Dec 02 04:20	23° ≯ 50′30	5°50'25
min. Earth dist.	13637 Dec 20 14:47	14° る 40'55	0.55489 AU	min. Earth dist.	13638 Dec 01 21:15	24° ≯ 00′25	0.54601 AU
inferior conj	13637 Dec 22 12:45	13° る 32'18	-5°47'41	morning rise	13638 Dec 10 17:39	19° ∡ 57'36	
minimum elong	13637 Dec 22 17:29	13° る 25'14	5°46'11	direct	13638 Dec 14 04:17	19° ∡ ³31'13	
morning rise	13637 Dec 31 02:05	9° ප 36'58		morning max el	13638 Dec 26 06:40	25° ∡ 18'51	21°40'30
direct	13638 Jan 02 16:57	9° る 19'46			13638 Dec 30 12:33	0°궁	0.50
			20000151	4-		3° る 12'06	
morning max el	13638 Jan 13 06:46	14°₹23'54	20-09-51	asc. node	13639 Jan 01 21:55		
asc. node	13638 Jan 15 00:42	16° る 12'35		morning set	13639 Jan 15 20:53	28° る 35'04	
	13638 Jan 24 08:21	0° ≈			13639 Jan 16 13:02	0° ≈	
morning set	13638 Jan 31 11:03	13° ≈ 50'47					
				superior conj	13639 Jan 23 01:07	13° ≈ 45'14	1°23'36
superior conj	13638 Feb 08 03:15	29° ≈ 31'44	1°06'29	minimum elong	13639 Jan 23 03:19	13° ≈ 56'47	1°24'13
minimum elong	13638 Feb 08 05:59	29° ≈ 45'26	1°06'44	max. Earth dist.	13639 Jan 27 08:35	22° ≈ 35'59	1.34751 AU
		0° ∀			13639 Jan 31 03:09	0° \	
Easth diet	13638 Feb. 08 08:54				13037 3411 31 03.07	0 /	
max. Earth dist.	13638 Feb 08 08:54		1 367/12 ATT	avaning rise	13630 Ion 21 12:20	00 X 10122	
	13638 Feb 13 20:59	10°) 43′51	1.36743 AU	evening rise	13639 Jan 31 13:20	0° ¥ 48'33	
desc. node	13638 Feb 13 20:59 13638 Feb 16 19:45	10°) 43′51 16°) 12′50	1.36743 AU	evening rise desc. node	13639 Feb 03 16:21	6°) 38′03	
desc. node evening rise	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26	10°¥43'51 16°¥12'50 17°¥42'15	1.36743 AU	desc. node	13639 Feb 03 16:21 13639 Feb 17 19:23	6° ∺ 38'03 0° Υ	
	13638 Feb 13 20:59 13638 Feb 16 19:45	10°¥43'51 16°¥12'50 17°¥42'15 0°Υ	1.36743 AU	•	13639 Feb 03 16:21	6°¥38'03 0°° 22°°Y33'58	26°44'05
	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26	10°¥43'51 16°¥12'50 17°¥42'15	1.36743 AU	desc. node	13639 Feb 03 16:21 13639 Feb 17 19:23	6° ∺ 38'03 0° Υ	26°44'05
	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44	10°¥43'51 16°¥12'50 17°¥42'15 0°Υ	1.36743 AU 25°44'03	desc. node evening max el	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16	6°¥38'03 0°° 22°°Y33'58	26°44'05
evening rise	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44 13638 Mar 17 07:11 13638 Mar 25 03:26	10°¥43'51 16°¥12'50 17°¥42'15 0°Y 0°8 8°848'19		desc. node evening max el retrograde evening set	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16 13639 Mar 20 21:18 13639 Mar 27 07:41	6°¥38'03 0°Υ 22°Υ33'58 29°Υ58'13 27°Υ26'07	26°44'05
evening rise evening max el retrograde	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44 13638 Mar 17 07:11 13638 Mar 25 03:26 13638 Apr 06 14:44	10° ★43'51 16° ₩12'50 17° ₩42'15 0° Ψ 0° ₩ 8° ₩48'19 15° ₩59'06		desc. node evening max el retrograde evening set asc. node	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16 13639 Mar 20 21:18 13639 Mar 27 07:41 13639 Mar 30 18:46	6° ¥38'03 0° Ψ' 22° Ψ'33'58 29° Ψ'58'13 27° Ψ'26'07 24° Ψ'02'45	
evening rise evening max el retrograde evening set	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44 13638 Mar 17 07:11 13638 Mar 25 03:26 13638 Apr 06 14:44 13638 Apr 12 15:00	10°\day 43'51 16°\day 12'50 17°\day 42'15 0°\day 0°\day 8°\day 48'19 15°\day 59'06 13°\day 30'32		desc. node evening max el retrograde evening set asc. node min. Earth dist.	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16 13639 Mar 20 21:18 13639 Mar 27 07:41 13639 Mar 30 18:46 13639 Mar 31 08:22	6° χ 38'03 0° Υ 22° Υ 33'58 29° Υ 58'13 27° Υ 26'07 24° Υ 02'45 23° Υ 23'56	0.66225 AU
evening rise evening max el retrograde evening set asc. node	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44 13638 Mar 17 07:11 13638 Mar 25 03:26 13638 Apr 06 14:44 13638 Apr 12 15:00 13638 Apr 12 21:18	10° ★43'51 16° ₩12'50 17° ₩42'15 0° Ψ 0° ℧ 8° ℧48'19 15° ℧59'06 13° ℧30'32 13° ℧17'02	25°44'03	desc. node evening max el retrograde evening set asc. node min. Earth dist. inferior conj	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16 13639 Mar 20 21:18 13639 Mar 27 07:41 13639 Mar 30 18:46 13639 Mar 31 08:22 13639 Apr 02 08:31	6°\dagger33'58 0°\dagger22°\dagger33'58 29°\dagger58'13 27°\dagger26'07 24°\dagger23'56 21°\dagger01'49	0.66225 AU 0°48'17
evening rise evening max el retrograde evening set	13638 Feb 13 20:59 13638 Feb 16 19:45 13638 Feb 17 15:26 13638 Feb 24 17:44 13638 Mar 17 07:11 13638 Mar 25 03:26 13638 Apr 06 14:44 13638 Apr 12 15:00	10°\day 43'51 16°\day 12'50 17°\day 42'15 0°\day 0°\day 8°\day 48'19 15°\day 59'06 13°\day 30'32		desc. node evening max el retrograde evening set asc. node min. Earth dist.	13639 Feb 03 16:21 13639 Feb 17 19:23 13639 Mar 07 17:16 13639 Mar 20 21:18 13639 Mar 27 07:41 13639 Mar 30 18:46 13639 Mar 31 08:22	6° χ 38'03 0° Υ 22° Υ 33'58 29° Υ 58'13 27° Υ 26'07 24° Υ 02'45 23° Υ 23'56	0.66225 AU

morning rise	13639 Apr 08 08:05	15° Y ′23′24		evening set	13640 Mar 09 15:33	11° Y ′00'24	
direct	13639 Apr 11 06:57	14° Ƴ 35'07		min. Earth dist.	13640 Mar 13 11:54	7° Ƴ 30'11	0.64537 AU
morning max el	13639 Apr 17 16:34	17° Ƴ 57'43	18°15'04	inferior conj	13640 Mar 15 23:54	4° Y 49'07	-0°13'09
	13639 Apr 26 20:35	9° 8		minimum elong	13640 Mar 16 00:18	4° Y 48'03	0°12'59
desc. node	13639 May 02 18:40	9° 8 16'18		transit middle	13640 Mar 16 00:18	4° Ƴ 48'03	0°12'59
morning set	13639 May 07 04:05	16° 8 17'35		transit begin	13640 Mar 15 22:30	4° Y 52'53	
	13639 May 15 18:51	$\Pi^{\circ}0$		transit end	13640 Mar 16 02:05	4° Ƴ 43'13	
				asc. node	13640 Mar 16 16:13	4° Υ 05'26	
superior conj	13639 May 22 13:17	10° Ⅲ 38′03	-1°58'50		13640 Mar 21 07:57	30°₽)	
minimum elong	13639 May 22 05:11	10° Ⅱ 06′21	1°59'14	morning rise	13640 Mar 22 10:58	29° ¥ 24'27	
max. Earth dist.	13639 May 24 00:09	12° Ⅲ 54'17	1.45846 AU	direct	13640 Mar 25 00:55	28° ¥ 50′06	
	13639 Jun 03 23:30	0∘ ©			13640 Mar 28 17:55	0° Y	
evening rise	13639 Jun 07 13:57	5° © 36'41		morning max el	13640 Mar 31 09:26	2° Y '07'12	17°52'08
greatest brilliancy	13639 Jun 18 12:30	22° © 32'43	-0.8m	morning set	13640 Apr 17 15:18	27° Y ′53'23	
greatest similare	13639 Jun 23 13:38	0°Ω	0.0111	desc. node	13640 Apr 18 15:18	29° Y '33'34	
asc. node	13639 Jun 26 16:34	4° Ω 15'06		desc. node	13640 Apr 18 21:38	0°8	
evening max el	13639 Jun 30 18:34	8°Ω59'10	19°05'18		15040 Apr 10 21.50	° О	
retrograde	13639 Jul 07 15:02	12°Ω46'29	17 03 16	superior conj	13640 May 01 06:52	20° 8 15'59	1°27'52
•	13639 Jul 11 02:44	$12^{\circ} \Omega 35'59$		minimum elong	•	19° 8 41'48	
evening set		5°Ω49'05	2901106	_	13640 Apr 30 22:19	_	1.45342 AU
inferior conj	13639 Jul 16 14:00		3°01'06	max. Earth dist.	13640 May 05 20:22	27° 8 30'22	1.45342 AU
minimum elong	13639 Jul 16 15:24	5° Ω 44'34	3°00'01		13640 May 07 10:28	0°П	
min. Earth dist.	13639 Jul 18 03:30	3° Ω 48'43	0.66669 AU	evening rise	13640 May 17 03:58	15° Ⅱ 03'45	
	13639 Jul 21 12:02	30°Rூ			13640 May 27 00:36	0° ©	
morning rise	13639 Jul 22 03:24	29° © 24'47		greatest brilliancy	13640 Jun 01 01:06	7° © 24'10	-0.6m
direct	13639 Jul 28 07:30	26° © 45'31		asc. node	13640 Jun 12 13:32	22° © 22'52	
desc. node	13639 Jul 29 17:53	26°953'06		evening max el	13640 Jun 12 23:26	22°5948'04	19°59'06
	13639 Aug 05 03:39	0 \circ Ω		retrograde	13640 Jun 20 13:36	27° © 07'14	
morning max el	13639 Aug 10 01:11	4° Ω 21'13	26°08'43	evening set	13640 Jun 24 10:58	25° © 39'45	
	13639 Aug 29 15:48	0° m y		inferior conj	13640 Jun 29 18:11	19° © 39'35	3°11'31
morning set	13639 Sep 15 00:27	27° m 35'45		minimum elong	13640 Jun 29 18:34	19° © 38'18	3°10'29
	13639 Sep 16 07:19	0∘ ত		min. Earth dist.	13640 Jun 30 17:21	18° © 21'17	0.67899 AU
max. Earth dist.	13639 Sep 18 19:38	4° ₽ 48'12	1.35067 AU	morning rise	13640 Jul 05 01:50	13° © 17'01	
asc. node	13639 Sep 22 18:06	12° ≏ 35'34		direct	13640 Jul 10 19:01	10°9546'08	
				desc. node	13640 Jul 15 15:12	12° © 12'59	
superior conj	13639 Sep 24 06:12	15° ≏ 38'56	0°14'08	morning max el	13640 Jul 22 11:41	17° 5 346'35	24°46'49
minimum elong	13639 Sep 24 05:24	15° ≏ 34'52	0°14'09	-	13640 Aug 01 17:32	$0^{\circ}\Omega$	
behind sun begin	13639 Sep 24 02:31	15° ≏ 20'06			13640 Aug 21 16:20	o∘ mp	
behind sun end	13639 Sep 24 08:18	15° ≏ 49'39		morning set	13640 Aug 27 06:14	9° m) 33'07	
	13639 Oct 01 03:58	0° M ,		max. Earth dist.	13640 Aug 30 20:06		1.37223 AU
evening rise	13639 Oct 01 21:27	1°M30'51				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
e renning rise	13639 Oct 18 10:52	0° ⊼ 7		superior conj	13640 Sep 06 15:51	28° m 52'13	-0°18'03
evening max el	13639 Oct 20 12:13	2° х 13′22	20°37'45	minimum elong	13640 Sep 06 17:02	28° m 58'01	
desc. node	13639 Oct 25 14:03	6°×7'08'32	20 37 43	minimum ciong	13640 Sep 07 05:43	0° ⊽	0 17 37
retrograde	13639 Oct 23 14:03	7°×7'48'33		asc. node	13640 Sep 08 14:39	ა _ 2° ჲ 42'15	
evening set	13639 Nov 03 00:54	7° × ⁷ 35'41		evening rise	13640 Sep 15 01:23	15° Ω 38'04	
inferior conj	13639 Nov 12 00:05	3° × ⁷ 41'09	1055157	evening rise	13640 Sep 22 12:48	0°M	
minimum elong		3° ₹ ¹55'22		avanina may al	13640 Oct 01 23:23	13°M25'29	19°27'06
min. Earth dist.	13639 Nov 11 14:13 13639 Nov 13 03:39	3° x '33 22 3° x '01'25	4 32 39 0.54627 AU	evening max el desc. node		18°Ml3'12	19 2/06
iiiii. Eartii tiist.	13639 Nov 19 07:57	30°RM	0.54027 AU	retrograde	13640 Oct 11 11:28	18°M 13'13	
				C	13640 Oct 11 13:27		
morning rise	13639 Nov 20 03:23	29°M44'00		evening set	13640 Oct 13 10:20	18°M03'04	2017142
direct	13639 Nov 24 12:42	29°M02'42		inferior conj	13640 Oct 22 02:30	13°M56'10	
	13639 Nov 29 13:46	0° ⋌ ¹		minimum elong	13640 Oct 21 18:09	14°M09'39	
morning max el	13639 Dec 07 19:13	5° ⋌ ¹30'00	23°26'54	min. Earth dist.	13640 Oct 24 13:12	12°M21'36	0.55569 AU
asc. node	13639 Dec 19 19:03	21° ∡ °07′56		morning rise	13640 Oct 29 23:49	9° ™ 29'44	
	13639 Dec 24 18:52	0°ಕ		direct	13640 Nov 04 05:41	8° ™ 27'54	
morning set	13639 Dec 31 08:34	13° る 20'44		morning max el	13640 Nov 18 05:03	15° ™ 28'49	25°14'08
					13640 Nov 29 19:34	0° ∡	
superior conj	13640 Jan 07 05:46	28° る 15'17		asc. node	13640 Dec 05 16:02	9° ∡ ¹46′29	
minimum elong	13640 Jan 07 07:02	28° る 22'06	1°34'55	morning set	13640 Dec 14 20:16	28° ∡ °02'55	
	13640 Jan 08 01:12	0° ≈			13640 Dec 15 17:58	ರ∘ರ	
max. Earth dist.	13640 Jan 10 03:51	4° ≈ 29'50	1.33135 AU				
evening rise	13640 Jan 14 23:51	14° ≈ 25′22		superior conj	13640 Dec 21 14:44	12° る 55'00	1°38'05
desc. node	13640 Jan 21 13:02	26° ≈ 50'59		minimum elong	13640 Dec 21 14:54	12° る 55'56	1°39'07
	13640 Jan 23 07:32	0°) €		max. Earth dist.	13640 Dec 23 06:18	16° පි 32'36	1.31982 AU
	13640 Feb 12 15:38	0° Y		evening rise	13640 Dec 28 19:55	28° පි 25'11	
evening max el	13640 Feb 18 06:37	6° Y ′02'44	27°22'50	-	13640 Dec 29 14:23	0° ≈	
retrograde	13640 Mar 02 21:27	13° Y ′30'05		desc. node	13641 Jan 07 09:46	16° ≈ 45'46	
-							

	13641 Jan 15 12:07	0°) €			13642 Jan 11 15:39	0° \	
evening max el	13641 Jan 30 17:28	19° ∺ 01'14	27°33'26	evening max el	13642 Jan 12 23:27	1° ∺ 17'53	27°10'51
retrograde	13641 Feb 13 14:12	26°\ 24'50	27 33 20	retrograde	13642 Jan 26 22:45	8° ¥ 33'30	27 1031
evening set	13641 Feb 20 12:01	24° \(\) 04'48		evening set	13642 Feb 02 17:57	6° ¥ 31'27	
min. Earth dist.	13641 Feb 24 06:03	21° X 02'03	0.62551 AU	min. Earth dist.	13642 Feb 06 13:54	3°) 47′57	0.60388 AU
inferior conj	13641 Feb 27 04:13	18° ¥ 13'54		inferior conj	13642 Feb 09 18:03	1° ¥ 07'42	
minimum elong	13641 Feb 27 07:07	18° ¥ 06'55		minimum elong	13642 Feb 10 00:05	0° ¥ 54'57	
asc. node	13641 Mar 03 13:41	14°) 28'12		mmum erong	13642 Feb 11 02:37	30°R≈	2
morning rise	13641 Mar 06 04:56	13° ¥ 05'55		morning rise	13642 Feb 17 09:24	26° ≈ 19'11	
direct	13641 Mar 08 11:33	12°) 42′02		asc. node	13642 Feb 18 11:07	26° ≈ 06'10	
morning max el	13641 Mar 15 03:05	16°) €04'40	17°46'42	direct	13642 Feb 19 11:07	26° ≈ 02'08	
C	13641 Mar 24 23:36	0° Υ		morning max el	13642 Feb 26 18:10	29° ≈ 40'57	17°59'39
morning set	13641 Mar 31 02:38	10° Ƴ 37'14		· ·	13642 Feb 27 01:48	0° ∀	
desc. node	13641 Apr 05 11:51	20° Y ′00'59		morning set	13642 Mar 14 07:55	24°) 10′51	
	13641 Apr 11 08:42	0°8		· ·	13642 Mar 17 11:49	0° Y	
	•			desc. node	13642 Mar 23 08:23	10° Ƴ 34'42	
superior conj	13641 Apr 11 22:01	0° 8 55'39	-0°48'50				
minimum elong	13641 Apr 11 17:14	0° 8 35'39	0°48'34	superior conj	13642 Mar 24 13:14	12° Y '42'00	-0°09'34
max. Earth dist.	13641 Apr 18 13:50	11° 8 49'13	1.44145 AU	minimum elong	13642 Mar 24 12:25	12° Y ′38'24	0°09'34
evening rise	13641 Apr 26 16:27	24° 8 34'46		behind sun begin	13642 Mar 24 05:58	12° Y 10'02	
	13641 Apr 30 05:21	Π $^{\circ}0$		behind sun end	13642 Mar 24 18:52	13° Ƴ 06'42	
	13641 May 21 04:38	0 \circ \mathfrak{s}		max. Earth dist.	13642 Apr 01 02:35	25° Ƴ 35'39	1.42390 AU
evening max el	13641 May 26 22:19	6° 9 37'04	21°06'25		13642 Apr 03 19:02	0° 8	
asc. node	13641 May 30 10:36	9° 5 39'54		evening rise	13642 Apr 06 18:00	4° 8 45'12	
retrograde	13641 Jun 04 12:30	11° 5 37'04			13642 Apr 23 12:21	Π °0	
evening set	13641 Jun 08 20:10	9° © 52'58		evening max el	13642 May 09 16:09	20° Ⅲ 26'47	22°23'20
inferior conj	13641 Jun 14 02:05	3°5541'10	3°09'54	asc. node	13642 May 17 07:46	25° Ⅱ 50'51	
minimum elong	13641 Jun 14 01:29	3° 5 43'17	3°08'49	retrograde	13642 May 19 09:59	26° Ⅱ 10'51	
min. Earth dist.	13641 Jun 14 11:37	3° 5 08'04	0.68658 AU	evening set	13642 May 24 04:40	24° Ⅱ 11'17	
	13641 Jun 16 20:05	30°Ŗ Ⅱ		inferior conj	13642 May 29 11:38	17° Ⅱ 49'59	2°57'31
morning rise	13641 Jun 19 06:34	27° Ⅲ 23′00		minimum elong	13642 May 29 10:11	17° Ⅱ 55'01	2°56'19
direct	13641 Jun 24 11:23	25° Ⅱ 06'46		min. Earth dist.	13642 May 29 08:10	18° Ⅱ 02'03	0.68940 AU
desc. node	13641 Jul 02 12:26	29° Ⅱ 03'59		morning rise	13642 Jun 03 15:33	11° Ⅲ 38′03	
	13641 Jul 03 13:21	0		direct	13642 Jun 08 07:38	9° Ⅱ 40'28	
morning max el	13641 Jul 04 22:23	1° 5 20'13	23°17'32	morning max el	13642 Jun 17 11:44	15° Ⅱ 01'45	21°49'53
	13641 Jul 26 15:33	0 \circ Ω		desc. node	13642 Jun 19 09:34	17° Ⅱ 02'34	
morning set	13641 Aug 08 14:33	20° Ω 32'58			13642 Jun 29 14:08	0° ©	
max. Earth dist.	13641 Aug 12 18:03	27° Ω 35′58	1.39567 AU	morning set	13642 Jul 19 21:59	0° Ω 27'21	
	13641 Aug 14 03:08	0° m			13642 Jul 19 15:07	0°Ω	
				max. Earth dist.	13642 Jul 25 19:31	10° & L 02'27	1.41838 AU
superior conj	13641 Aug 20 11:11	11° m 24'47					
minimum elong	13641 Aug 20 15:05	11° mp 42'47	0°52'43	superior conj	13642 Aug 02 11:50	23° Ω 06'56	
asc. node	13641 Aug 26 11:12	22° m/45'06		minimum elong	13642 Aug 02 18:21	23° Ω 35'24	1°27′13
evening rise	13641 Aug 29 21:50	29° m 23'25			13642 Aug 06 09:04	0°M)	
. ,	13641 Aug 30 05:26	0∘ ⊽	10020120	evening rise	13642 Aug 13 07:08	12° m 37'19	
evening max el	13641 Sep 14 23:18	25° Ω 25'44	18°38'29	asc. node	13642 Aug 13 07:47	12° ™ 40'16 0° ⊆	
retrograde	13641 Sep 23 02:35	29° £ 31'45 29° £ 18'38		avanina may al	13642 Aug 23 04:09	8° ರ್ 05'38	10010150
evening set desc. node	13641 Sep 25 00:59	29 ≥ 18 38 28° ⊆ 00'47		evening max el	13642 Aug 29 08:04		18°10'50
inferior conj	13641 Sep 28 08:55 13641 Oct 03 00:53	28° 2 20047 24° 2 52'42	_1°28'52	retrograde evening set	13642 Sep 05 10:23 13642 Sep 07 15:29	11° £ 42'25 11° £ 21'54	
minimum elong	13641 Oct 03 00.33	24 ≥ 32 42 24° ♀ 59'30	1°27'04	inferior conj	13642 Sep 07 13.29 13642 Sep 14 20:57	6° £ 35'12	0°07'22
min. Earth dist.	13641 Oct 02 21.17 13641 Oct 06 04:44	24 ≥ 3930 22° ⊆ 30'48	0.57254 AU	minimum elong	13642 Sep 14 20:37	6° £ 3312	0°07'18
morning rise	13641 Oct 10 14:08	19° Ω 48'35	0.37234 AU	transit middle	13642 Sep 14 21:12	6° £ 34'39	0°07'18
direct	13641 Oct 16 13:06	18° £ 20'36		transit begin	13642 Sep 14 18:09	6° ≏ 41'19	0 07 10
morning max el	13641 Oct 30 19:46	25° Ω 48'46	26°43'28	transit end	13642 Sep 15 00:14	6° £ 27'58	
morning max or	13641 Nov 03 18:26	0°M	20 13 20	desc. node	13642 Sep 15 06:27	6° £ 14'15	
asc. node	13641 Nov 22 12:56	28°M56'50		min. Earth dist.	13642 Sep 18 03:58	3° ≏ 43'01	0.59403 AU
ase. Houe	13641 Nov 23 02:05	28 II c 30 30 0° √		morning rise	13642 Sep 21 23:32	0° £ 57'16	J.J/ TOJ AU
morning set	13641 Nov 29 06:20	12° ∡ 37'06		morning 1150	13642 Sep 21 23:32 13642 Sep 23 20:35	0 == 3/10 30°R, Mp	
morning set	150111107 27 00.20	.2 6 3/00		direct	13642 Sep 28 10:22	29° Mp 01'42	
superior conj	13641 Dec 06 01:57	27° ∡ ³38'31	1°36'06	ancei	13642 Oct 03 04:07	0° ⊽	
minimum elong	13641 Dec 06 01:05	27° 🗷 38'31'	1°37'06	morning max el	13642 Oct 03 04:07	0 = 6° £ 49'14	27°40'21
max. Earth dist.	13641 Dec 06 13:23	28° x ⁷ 42'15	1.31328 AU	morning max ci	13642 Oct 30 04:34	0°M	≥/ TU ∠1
max. Darm Wist.	13641 Dec 07 03:20	28 x 42 13	1.51520 AU	asc. node	13642 Nov 09 09:45	18°M29'33	
evening rise	13641 Dec 12 22:54	0 8 12° る 41'44		morning set	13642 Nov 13 12:54	26°M57'27	
2 , ching 1150	15011 1500 12 22.34	🔾 -71 -77		morning sec	100121101 10 12.04	20 1100/2/	
	13641 Dec 21 17:10	0°≈≈			13642 Nov 14 23-10	0∘ •⊿	
desc. node	13641 Dec 21 17:10 13641 Dec 25 06:36	0° ≈ 6° ≈ 15'12		max. Earth dist.	13642 Nov 14 23:10 13642 Nov 19 21:38	0° ᡘ ¹ 10° ᡘ ³ 50'41	1.31196 AU

superior conj	13642 Nov 20 13:29	12° √ 19'05	1°28'17	minimum elong	13643 Nov 04 21:17	26°M39'26	1°15'13
minimum elong	13642 Nov 20 11:46	12° x 1903	1°29'04	minimum clong	13643 Nov 06 09:32	20 110 3720	1 13 13
evening rise	13642 Nov 27 06:32	27°×7'08'21	1 2 0 0 .	evening rise	13643 Nov 11 16:54	11° × 740'10	
8	13642 Nov 28 14:45	8°0		S	13643 Nov 20 20:30	7°0	
desc. node	13642 Dec 12 03:34	25° පි 08'30		desc. node	13643 Nov 29 00:38	13° る 12'10	
	13642 Dec 15 08:37	0° ≈		evening max el	13643 Dec 07 12:47	23° る 18'57	24°47'38
evening max el	13642 Dec 25 22:13	12° ≈ 43'37	26°13'48		13643 Dec 19 01:23	0° ≈	
retrograde	13643 Jan 08 21:06	19° ≈ 48'34		retrograde	13643 Dec 21 06:59	0° ≈ 11'28	
evening set	13643 Jan 15 05:22	18° ≈ 12'15			13643 Dec 23 12:50	30°೩₹	
min. Earth dist.	13643 Jan 19 11:38	15° ≈ 35'40	0.58237 AU	evening set	13643 Dec 26 18:13	29°る05'09	
inferior conj	13643 Jan 22 13:47	13°≈20'09		min. Earth dist.	13644 Jan 01 00:39	26°る19'11	0.56352 AU
minimum elong	13643 Jan 22 22:21	13°≈04'27	4°07'23	inferior conj	13644 Jan 03 12:53	24° ろ 43'20	
morning rise	13643 Jan 30 18:17	8°≈52'58		minimum elong	13644 Jan 03 20:42	24°る30'53 20°る37'32	5°19'04
direct asc. node	13643 Feb 01 19:17 13643 Feb 05 08:33	8°≈39'05 9°≈23'30		morning rise direct	13644 Jan 12 01:18 13644 Jan 14 08:46	20°る3/32 20°る22'45	
morning max el	13643 Feb 10 02:47	12°≈44'13	18°32'37	asc. node	13644 Jan 23 05:56	20 3 2243 24° 3 19'09	
morning max ci	13643 Feb 21 16:47	0°) €	10 32 37	morning max el	13644 Jan 24 00:50		19°27'39
morning set	13643 Feb 26 01:48	8° ∺ 17'47		morning max cr	13644 Jan 28 06:35	0°≈	17 27 37
morning sec	13013100 20 01.10	0 7(17 17		morning set	13644 Feb 10 04:11	22°≈46'14	
superior conj	13643 Mar 07 01:21	25° ¥ 25'04	0°25'14		13644 Feb 13 18:30	0° ∀	
minimum elong	13643 Mar 07 03:03	25°) 32′58	0°25'08				
C	13643 Mar 09 13:16	0° Υ		superior conj	13644 Feb 18 05:50	8° ¥ 52'30	0°53'27
desc. node	13643 Mar 10 04:53	1° Y 10'36		minimum elong	13644 Feb 18 08:31	9° ∺ 05'37	0°53'32
max. Earth dist.	13643 Mar 14 10:58	8° Y 41'50	1.40267 AU	max. Earth dist.	13644 Feb 24 17:27	21°) €09'06	1.38010 AU
evening rise	13643 Mar 18 15:52	15° Y 50′12		desc. node	13644 Feb 25 01:23	21° ¥ 45′16	
	13643 Mar 27 12:17	0° 8		evening rise	13644 Feb 28 10:38	27°) 48′38	
	13643 Apr 18 07:04	Π °0			13644 Feb 29 16:48	0° Y	
evening max el	13643 Apr 22 06:55	4° Ⅱ 18'44	23°44'26		13644 Mar 19 22:52	$0^{\circ}S$	
retrograde	13643 May 03 04:38	10° Ⅱ 43'22		evening max el	13644 Apr 03 20:32	18° 8 11'52	25°02'58
asc. node	13643 May 04 05:03	10° Ⅲ 38'42		retrograde	13644 Apr 15 19:15	25° 8 08'28	
evening set	13643 May 08 10:53	8° Ⅱ 30'10		asc. node	13644 Apr 20 02:27	23° 8 48'57	
min. Earth dist.	13643 May 13 04:49	2° I 57'23	0.68750 AU	evening set	13644 Apr 21 13:12	22° 8 44'21	0.60107.441
inferior conj	13643 May 13 20:54	2° I 102'20	2°34'54	min. Earth dist.	13644 Apr 25 23:20	17° 8 47'48	0.68107 AU
minimum elong	13643 May 13 18:54 13643 May 15 09:15	2°∏09'10 30°R ႘	2°33'35	inferior conj	13644 Apr 27 03:58 13644 Apr 27 01:48	16° 8 13'50	2°02'01 2°00'42
morning rise	13643 May 19 02:54	25° 8 58'03		minimum elong morning rise	13644 May 02 14:42	10° 8 18'32	2 00 42
direct	13643 May 23 06:27	24° 8 20'58		direct	13644 May 06 06:21	9° 8 01'56	
morning max el	13643 May 31 06:51	28° 8 53'57	20°31'07	morning max el	13644 May 13 09:30	12° 8 57'13	19°25'45
morning max or	13643 Jun 01 08:34	0°Ⅱ	20 3107	desc. node	13644 May 23 03:28	25° 8 14'17	19 28 18
desc. node	13643 Jun 06 06:35	5° Ⅱ 50'36		greatest brilliancy	13644 May 26 01:23	29° 8 28'25	-0.7m
	13643 Jun 23 03:27	0° ©		8	13644 May 26 09:56	0°II	
morning set	13643 Jun 29 07:20	9° © 25'22		morning set	13644 Jun 07 09:09	18° Ⅲ 08'21	
max. Earth dist.	13643 Jul 08 04:01	23° 5 23'06	1.43762 AU	-	13644 Jun 15 01:06	0 \circ \mathfrak{S}	
	13643 Jul 12 05:52	$0^{\circ}\Omega$		max. Earth dist.	13644 Jun 19 18:59	7° © 25'58	1.45126 AU
superior conj	13643 Jul 14 13:55	3° Ω 51′03		superior conj	13644 Jun 23 16:30	13° © 36'16	
minimum elong	13643 Jul 14 20:56		1°56'26	minimum elong	13644 Jun 23 19:19	13° © 47'31	2°13'12
evening rise	13643 Jul 27 00:40	25° Ω 08'41			13644 Jul 03 19:27	0°N	
	13643 Jul 29 19:20	0° m)		evening rise	13644 Jul 07 21:15	6° Ω 44'39	
asc. node	13643 Jul 31 04:26	2° m 23'52	10002144	asc. node	13644 Jul 17 01:10	21° Ω 50'10	
evening max el retrograde	13643 Aug 12 21:31 13643 Aug 19 09:50	21° Mp 15'23 24° Mp 37'26	18°02'44	evening max el	13644 Jul 22 12:12 13644 Jul 26 11:55	0°Mp 4°Mp44'26	18°13'08
evening set	13643 Aug 21 23:03	24° my 05'51		retrograde	13644 Aug 01 20:25	8° M) 06'04	16 13 06
inferior conj	13643 Aug 28 12:04	18° m 59'34	1°22'02	evening set	13644 Aug 04 18:03	7° m) 20'44	
minimum elong	13643 Aug 28 14:13	18° m ₂ 54'10	1°21'00	inferior conj	13644 Aug 10 18:11	1° m) 57'01	2°14'54
min. Earth dist.	13643 Aug 31 12:15	15° m 58'56	0.61698 AU	minimum elong	13644 Aug 10 20:39	1° mp 50'01	2°13'39
desc. node	13643 Sep 02 04:00	14° m 28'10			13644 Aug 12 11:28	30°R Ω	
morning rise	13643 Sep 04 02:50	12° m 57'07		min. Earth dist.	13644 Aug 13 06:10	29° Ω 08'15	0.63875 AU
direct	13643 Sep 10 18:54	10° m/38'20		morning rise	13644 Aug 16 21:37	25° Ω 39'52	
morning max el	13643 Sep 24 22:59	18° Mp 36'48	27°58'34	desc. node	13644 Aug 19 01:32	24° Ω 14'52	
	13643 Oct 04 13:41	0∘ ⊽		direct	13644 Aug 23 12:36	23° Ω 05'46	
	13643 Oct 23 00:48	0°M₊			13644 Sep 05 05:31	0° m	
asc. node	13643 Oct 27 06:29	8°M18'16		morning max el	13644 Sep 06 08:28	1° Mp 05'56	27°39'20
morning set	13643 Oct 28 14:02	10° ™ 59'19			13644 Sep 27 17:16	0∘ ত	
max. Earth dist.	13643 Nov 03 03:25	22° M 49'21	1.31598 AU	morning set	13644 Oct 11 07:21	24° △ 36'44	
	1274231 04 22 22	260m 51120	1014442	asc. node	13644 Oct 13 03:08	28° ♀ 17'14	
superior conj	13643 Nov 04 23:30	26°M⋅51'39	1*14*42		13644 Oct 13 23:12	0° M ,	

max. Earth dist.	13644 Oct 16 02:58	4°M29'36	1.32535 AU	asc. node	13645 Sep 29 23:44	18° ≏ 22'12	
superior conj	13644 Oct 19 05:59	11° M .10'17	0°55'27	superior conj	13645 Oct 03 06:38	25° Ω 09'14	0°30'42
minimum elong	13644 Oct 19 03:46	10°ML58'20	0°55'41	minimum elong	13645 Oct 03 05:06	25° ⊆ 01'09	0°30'45
evening rise	13644 Oct 26 04:04	26°M11'52	0 33 11	minimum crong	13645 Oct 05 13:50	0°ML	0 30 13
e vening rise	13644 Oct 27 23:02	0°×7		evening rise	13645 Oct 10 14:08	10°ML38'28	
desc. node	13644 Nov 14 21:50	0° ろ 07'40		evening rise	13645 Oct 20 13:37	0° ₹	
dese. node	13644 Nov 14 19:13	0°ਰ 0°ਰ		evening max el	13645 Oct 30 12:55	13° × 729'10	21°27'39
evening max el	13644 Nov 17 22:37	3° ට 21'55	23°06'16	desc. node	13645 Nov 01 19:09	15° х 30′52	
retrograde	13644 Dec 01 04:04	9° ප 56'19		retrograde	13645 Nov 11 16:09	19° х 30′37	
evening set	13644 Dec 05 08:14	9° ට 18'28		evening set	13645 Nov 14 11:57	19° ∡ 12'18	
min. Earth dist.	13644 Dec 12 08:02	6° ප 03'58	0.55015 AU	inferior conj	13645 Nov 23 08:39	15° ∡ 18'53	-5°35'02
inferior conj	13644 Dec 13 16:30	5° る 17'20	-5°56'36	minimum elong	13645 Nov 23 01:17	15° ∡ ¹29'15	5°32'55
minimum elong	13644 Dec 13 17:45	5° る 15'31	5°55'30	min. Earth dist.	13645 Nov 23 14:02	15° ∡ 11′20	0.54493 AU
morning rise	13644 Dec 22 04:49	1° る 27'36		morning rise	13645 Dec 01 15:22	11° ∡ ³30′05	
direct	13644 Dec 25 03:30	1° る 07'10		direct	13645 Dec 05 11:23	10° ∡ 758'16	
morning max el	13645 Jan 05 09:03	6° る 29'09	20°45'57	morning max el	13645 Dec 18 03:30	17° ∡ ¹03'30	22°24'38
asc. node	13645 Jan 09 03:12	10° る 38'39		asc. node	13645 Dec 27 00:23	28° ∡ ¹04'01	
	13645 Jan 20 19:47	0° ≈			13645 Dec 28 06:03	0°ರ	
morning set	13645 Jan 24 12:01	7° ≈ 27'17		morning set	13646 Jan 08 22:52	22° る 12'56	
					13646 Jan 12 14:16	0° ≈	
superior conj	13645 Jan 31 22:26	22° ≈ 52'45	1°14'36				
minimum elong	13645 Feb 01 01:01	23° ≈ 05'57	1°15'00	superior conj	13646 Jan 15 23:32	7° ≈ 14'37	1°28'49
	13645 Feb 04 11:22	0°)		minimum elong	13646 Jan 16 01:23	7° ≈ 24'23	1°29'34
max. Earth dist.	13645 Feb 06 02:03	3° ∺ 09'21	1.35856 AU	max. Earth dist.	13646 Jan 19 16:35	14° ≈ 59'57	1.34005 AU
evening rise	13645 Feb 09 23:40	10° ¥ 33′01		evening rise	13646 Jan 24 03:20	23° ≈ 53′16	
desc. node	13645 Feb 10 21:55	12° 米 15′17			13646 Jan 27 08:36	0° ∀	
	13645 Feb 21 06:51	0° Υ		desc. node	13646 Jan 28 18:31	2°) 35′44	
	13645 Mar 15 10:06	0° 8			13646 Feb 14 21:08	0° Υ	
evening max el	13645 Mar 17 10:07	2° 8 02'10	26°11'44	evening max el	13646 Feb 27 23:38	15° Y 41′03	27°03'32
retrograde	13645 Mar 30 05:00	9° 8 19'50		retrograde	13646 Mar 13 09:03	23° Y ′08'30	
evening set	13645 Apr 05 09:57	6° 8 48'52		evening set	13646 Mar 19 23:09	20° Y 36'17	
asc. node	13645 Apr 06 23:53	5° 8 21'33		min. Earth dist.	13646 Mar 23 21:40	16° Y 48'16	0.65547 AU
min. Earth dist.	13645 Apr 09 13:37	2° 8 27'34	0.67029 AU	asc. node	13646 Mar 24 21:20	15° Y 41'34	0000105
inferior conj	13645 Apr 11 06:48	0° 8 20'33	1°18'28	inferior conj	13646 Mar 26 03:05	14° Υ 16'27	0°23'37
minimum elong	13645 Apr 11 05:02	0° 8 26'00	1°17'24	minimum elong	13646 Mar 26 02:27	14° Υ 18'17	0°23'13
	13645 Apr 11 13:28	30° ₹Υ 24° Υ 35'42		morning rise	13646 Apr 01 07:17	8° Υ 43'49 8° Υ 02'02	
morning rise	13645 Apr 17 00:57	24°° Y 35'42 23° Y 37'56		direct	13646 Apr 04 02:06		18°03'14
direct	13645 Apr 20 05:36		18°36'08	morning max el	13646 Apr 10 10:25	0° 8	18 03 14
morning max el	13645 Apr 26 19:22 13645 Apr 29 10:02	0° 8	16 30 06	desc. node	13646 Apr 23 15:48 13646 Apr 26 20:53	5° 8 12'45	
desc. node	13645 May 10 00:14	15° 8 04'15		morning set	13646 Apr 28 19:59	8° 8 24'34	
morning set	13645 May 18 01:05	27° 8 36'46		morning set	13646 May 12 06:40	0°Ⅱ	
morning set	13645 May 19 13:37	0°Ⅱ			13040 Way 12 00.40	νд	
max. Earth dist.	13645 Jun 02 13:51		1.45794 AU	superior conj	13646 May 13 12:43	1° Ⅱ 58'26	-1°47'17
man. Darvir alov.	150 10 0411 02 15.51	2. 20000	1.10771110	minimum elong	13646 May 13 03:39	1° Ⅱ 22'44	
superior conj	13645 Jun 03 02:48	22° I I44'25	-2°09'32	max. Earth dist.	13646 May 16 09:38	6°Ⅱ28'46	1.45715 AU
minimum elong	13645 Jun 02 21:56	22° II 25'25		evening rise	13646 May 29 15:13	27° Ⅱ 00'42	
	13645 Jun 07 18:09	0°9	-	<i>3</i> - ,	13646 May 31 13:44	0°9	
evening rise	13645 Jun 18 17:22	17° © 18'59		greatest brilliancy	13646 Jun 11 13:32	16°9543'26	-0.7m
greatest brilliancy	13645 Jun 26 12:27	29°5540'56	-0.9m	asc. node	13646 Jun 20 18:54	29° © 23'25	
	13645 Jun 26 17:18	$0^{\circ}\Omega$			13646 Jun 21 07:22	$0^{\circ}\Omega$	
asc. node	13645 Jul 03 22:00	10° Q 52'51		evening max el	13646 Jun 23 08:11	2° £ 12′02	19°26'24
evening max el	13645 Jul 10 00:14	18° Ω 25'20	18°41'20	retrograde	13646 Jun 30 11:32	6° Ω 12'02	
retrograde	13645 Jul 16 14:03	21° Ω 59'57		evening set	13646 Jul 04 03:09	4° Ω 54'30	
evening set	13645 Jul 19 20:25	20° Q 59′02			13646 Jul 08 18:34	30° ₹ 5	
inferior conj	13645 Jul 25 11:22	15° Ω 20′02	2°48'51	inferior conj	13646 Jul 09 12:20	29° © 01'48	3°07'06
minimum elong	13645 Jul 25 13:17	15° Ω 14'05	2°47'41	minimum elong	13646 Jul 09 13:19	28°958'34	3°06'03
min. Earth dist.	13645 Jul 27 09:12	12° Ω 58'43	0.65757 AU	min. Earth dist.	13646 Jul 10 19:43	27° © 18'25	0.67240 AU
morning rise	13645 Jul 31 05:13	8° Ω 56′18		morning rise	13646 Jul 14 22:57	22° © 37'32	
desc. node	13645 Aug 05 23:01	6° Ω 17'44		direct	13646 Jul 20 22:36	20°900'44	
direct	13645 Aug 06 14:14	6° Ω 16'16		desc. node	13646 Jul 23 20:24	20°932'10	
morning max el	13645 Aug 19 19:45	14° Ω 05'57	26°48'42	morning max el	13646 Aug 02 06:38	27°524'11	25°35'25
	13645 Sep 01 18:05	0° m)			13646 Aug 04 17:10	0° N	
	13645 Sep 20 10:17	0∘ 亚			13646 Aug 26 09:49	0° m)	
morning set	13645 Sep 24 13:55	7° Ω 42'48	1 24000 477	morning set	13646 Sep 07 06:03	20° Mp 08'43	1 25025 133
max. Earth dist.	13645 Sep 28 17:09	15° £ 47'59	1.34000 AU	max. Earth dist.	13646 Sep 10 21:18	26° Mp 52'48	1.35935 AU

	13646 Sep 12 12:35	0∘ ⊽		morning set max. Earth dist.	13647 Aug 20 03:10 13647 Aug 23 19:26	1° Mp 42'17 8° Mp 08'59	1.38206 AU
superior conj	13646 Sep 16 22:44	8° ≏ 41'44	0°00'58				
minimum elong	13646 Sep 16 22:41	8° ≏ 41'28	0°01'00	superior conj	13647 Aug 31 02:47	21° m 38'39	
behind sun begin	13646 Sep 16 16:27	8° ₾ 10'13		minimum elong	13647 Aug 31 05:04	21° m 49'30	0°32'30
behind sun end	13646 Sep 17 04:55	9° ≏ 12'46		asc. node	13647 Sep 03 16:48	28° m/34'32	
asc. node	13646 Sep 16 20:16	8° ₾ 29'20			13647 Sep 04 10:14	0° ⊙	
evening rise	13646 Sep 24 21:01	24° £ 54'39		evening rise	13647 Sep 08 22:06	8° ≏ 52'54	
	13646 Sep 27 09:11	0°M	20005100		13647 Sep 20 16:26	0°M	10000150
evening max el	13646 Oct 12 15:56 13646 Oct 19 16:32	24°M14'26	20°05'08	evening max el	13647 Sep 25 09:01	5°M47'49	19°03'53
desc. node	13646 Oct 19 16:32 13646 Oct 23 05:02	28°M55'01 29°M29'21		retrograde	13647 Oct 04 07:01	10°M16'02	
retrograde	13646 Oct 25 05:37	29°M18'38		evening set desc. node	13647 Oct 06 03:45 13647 Oct 06 14:01	10°M05'08 9°M59'39	
evening set	13646 Nov 03 03:29	25°M20'28	4017141	inferior conj	13647 Oct 06 14.01 13647 Oct 14 13:41	5°M50'53	2021100
inferior conj minimum elong	13646 Nov 02 17:29	25°M35'27	4°13'53	minimum elong	13647 Oct 14 13.41 13647 Oct 14 07:16	6°M01'54	2°28'09
min. Earth dist.	13646 Nov 04 21:55	24°M16'47	0.54918 AU	min. Earth dist.	13647 Oct 14 07:10 13647 Oct 17 09:40	3°M54'40	0.56212 AU
morning rise	13646 Nov 11 04:16	21°M12'21	0.54710 AU	morning rise	13647 Oct 17 07:40 13647 Oct 22 07:57	1°M08'58	0.30212 AC
direct	13646 Nov 15 22:37	20°M22'55		morning rise	13647 Oct 26 15:50	30°R ≏	
morning max el	13646 Nov 29 13:54	27°ML06'10	24°13'22	direct	13647 Oct 27 21:57	29° £ 56'15	
morning max or	13646 Dec 02 09:30	0° √	21 13 22	direct	13647 Oct 29 04:06	0°M	
asc. node	13646 Dec 13 21:26	16° √ 19'49		morning max el	13647 Nov 11 00:53	7° ML 09'19	25°55'11
	13646 Dec 21 03:03	0°ਰ			13647 Nov 27 20:37	0° ∡ 7	
morning set	13646 Dec 24 10:46	6° る 57'52		asc. node	13647 Nov 30 18:23	5° × 712'47	
8.4.1				morning set	13647 Dec 08 21:59	21° х 36′47	
superior conj	13646 Dec 31 06:20	21°る50'03	1°36'29	Č	13647 Dec 12 17:59	0°ರ	
minimum elong	13646 Dec 31 07:08	21° る 54'26	1°37'28				
max. Earth dist.	13647 Jan 02 14:54	26° る 56'28	1.32586 AU	superior conj	13647 Dec 15 16:30	6° ට 31'47	1°37'57
	13647 Jan 04 01:18	0° ≈		minimum elong	13647 Dec 15 16:13	6° ප 30'10	1°39'00
evening rise	13647 Jan 07 18:19	7° ≈ 41'15		max. Earth dist.	13647 Dec 16 19:44	9° る 02'47	1.31650 AU
desc. node	13647 Jan 15 15:12	22° ≈ 41'46		evening rise	13647 Dec 22 17:38	21° る 48'57	
	13647 Jan 19 20:42	0° ∀			13647 Dec 26 18:32	0° ≈	
evening max el	13647 Feb 10 12:10	28° ¥ 58′24	27°31'05	desc. node	13648 Jan 02 12:00	12° ≈ 26'41	
	13647 Feb 11 14:38	0° Y			13648 Jan 13 20:23	0°)	
retrograde	13647 Feb 24 06:25	6° Y 25′24		evening max el	13648 Jan 23 21:33	11°) 41'17	27°28'05
evening set	13647 Mar 03 02:30	3° Y 58'59		retrograde	13648 Feb 06 19:46	19° ∺ 01'08	
min. Earth dist.	13647 Mar 06 21:32	0° Y 40'55	0.63722 AU	evening set	13648 Feb 13 17:12	16°) √ 48′09	
	13647 Mar 07 13:47	30° ₹		min. Earth dist.	13648 Feb 17 11:34	13° ∺ 54'29	0.61646 AU
inferior conj	13647 Mar 09 14:09	27° ¥ 55′04		inferior conj	13648 Feb 20 12:47	11° ∺ 08'04	
minimum elong	13647 Mar 09 15:30	27° ¥ 51'35	0°42'02	minimum elong	13648 Feb 20 16:59	10°) 58′29	1°57'32
asc. node	13647 Mar 11 18:48	25°) 44′32		asc. node	13648 Feb 26 16:16	6°) (34′06	
morning rise	13647 Mar 16 06:49	22°) € 37'02		morning rise	13648 Feb 27 19:40	6° ∺ 07'38	
direct	13647 Mar 18 17:18	22°) €07'42		direct	13648 Feb 29 23:52	5°) 47′02	.=
morning max el	13647 Mar 25 03:58	25° ¥ 26'11	17°47'33	morning max el	13648 Mar 07 20:54	9° ∺ 15′26	17°49'49
. ,	13647 Mar 29 00:39	0°Υ 200 W 21105		. ,	13648 Mar 21 13:00	0°Υ 20 W 20144	
morning set	13647 Apr 10 18:09	20° Y 31'05		morning set	13648 Mar 23 13:56	3° Y 38'44	
desc. node	13647 Apr 13 17:27	25° Y 34'27 0° と		desc. node	13648 Mar 30 14:00	16° Y 04'57	
	13647 Apr 16 08:21	0.0		superior conj	13648 Apr 03 16:06	23° Y 08′26	0°21'50
superior conj	13647 Apr 23 14:33	12° 8 00'02	-1°11'45	minimum elong	13648 Apr 03 13:07	23° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	0°31'41
minimum elong	13647 Apr 23 07:21	11° 8 30'46		minimum clong	13648 Apr 07 18:03	0° 8	0 3141
max. Earth dist.	13647 Apr 29 04:23		1.44911 AU	max. Earth dist.	13648 Apr 10 20:22	5° 8 05'00	1.43462 AU
max. Latti dist.	13647 May 04 22:54	0°II	1.44711710	evening rise	13648 Apr 17 19:10	16° 8 08'44	1.45402 710
evening rise	13647 May 09 02:24	6° Ⅱ 23'27		evening rise	13648 Apr 26 21:29	0°II	
e vennig rise	13647 May 24 22:15	0°9			13648 May 19 10:58	0 . ಅ	
evening max el	13647 Jun 06 10:31	16°900'48	20°26'26	evening max el	13648 May 19 07:14	29° Ⅱ 50'41	21°38'19
asc. node	13647 Jun 07 15:54	17° © 10'58		asc. node	13648 May 24 13:02	4°502'14	
retrograde	13647 Jun 14 10:20	20°936'27		retrograde	13648 May 28 08:42	5°908'47	
evening set	13647 Jun 18 11:58	19° © 01'59		evening set	13648 Jun 01 21:04	3°917'51	
inferior conj	13647 Jun 23 18:20	12°956'55	3°12'12	Ü	13648 Jun 04 22:39	30° Ŗ Ⅱ	
minimum elong	13647 Jun 23 18:17	12°957'06	3°11'10	inferior conj	13648 Jun 07 03:11	27° I 101'57	3°05'55
min. Earth dist.	13647 Jun 24 11:43	11°957'20	0.68277 AU	minimum elong	13648 Jun 07 02:11	27° II 05'24	3°04'47
morning rise	13647 Jun 29 00:18	6°535'55		min. Earth dist.	13648 Jun 07 07:07	26° Ⅱ 48'11	0.68840 AU
direct	13647 Jul 04 12:26	4° © 10'18		morning rise	13648 Jun 12 07:07	20° Ⅱ 46′29	
desc. node	13647 Jul 10 17:42	6° © 33'21		direct	13648 Jun 17 06:38	18° Ⅲ 37'43	
morning max el	13647 Jul 15 16:44	10° © 51'58	24°09'08	desc. node	13648 Jun 26 14:53	23° Ⅱ 55'40	
	13647 Jul 30 22:30	$0^{\circ}\Omega$		morning max el	13648 Jun 27 04:05	24° Ⅱ 28′22	22°39'36
	13647 Aug 19 03:18	0° m)			13648 Jul 02 02:37	0ං ව	

	13648 Jul 23 08:29	0 \circ Ω		desc. node	13649 Jun 13 11:57	12° Ⅱ 17′00	
morning set	13648 Jul 31 01:02	12° Ω 14'02			13649 Jun 26 14:19	0ං වෙ	
max. Earth dist.	13648 Aug 04 18:40	20° Ω 07'22	1.40564 AU	morning set	13649 Jul 10 22:10	21° 5 641'33	
	13648 Aug 10 11:11	O° Mp		_	13649 Jul 16 03:23	$0^{\circ}\Omega$	
	Č	•		max. Earth dist.	13649 Jul 17 23:24		1.42716 AU
superior conj	13648 Aug 12 14:44	3° m 50'54	-1°07'50	max. Darm dist.	15015 341 17 25.21	2 0030 13	1.12/10/10
minimum elong	13648 Aug 12 19:50	4° Mg 13'56	1°07'37	superior conj	13649 Jul 25 06:07	15° Ω 08'22	1940127
_	•		1 0/3/				
asc. node	13648 Aug 20 13:22	18° m 34'30		minimum elong	13649 Jul 25 13:16	15° Ω 38'56	1-40/38
evening rise	13648 Aug 22 14:19	22° Tp 25'54			13649 Aug 02 17:37	0° m)	
	13648 Aug 26 15:14	0∘ ⊽		evening rise	13649 Aug 05 17:32	5° m 23'03	
evening max el	13648 Sep 07 13:12	18° ≏ 05'31	18°24'14	asc. node	13649 Aug 07 10:00	8° m 25'10	
retrograde	13648 Sep 15 04:21	21° ≏ 57'21			13649 Aug 21 02:02	0∘ ऌ	
evening set	13648 Sep 17 05:24	21° ≏ 41'28		evening max el	13649 Aug 22 00:19	0° ≏ 58'21	18°05'01
desc. node	13648 Sep 22 11:32	18° ≏ 58'01		retrograde	13649 Aug 28 19:33	4° £ 27'31	
inferior conj	13648 Sep 24 21:22	17° ≏ 06'16	-0°45'40	evening set	13649 Aug 31 03:55	4° £ 02'45	
minimum elong	13648 Sep 24 19:37	17° ≏ 09'47	0°44'46	•	13649 Sep 06 03:07	30°R, Mp	
min. Earth dist.	13648 Sep 28 03:54	14° ≏ 29'21	0.58134 AU	inferior conj	13649 Sep 07 01:59	29° m 07'14	0°41'50
morning rise	13648 Oct 02 06:22	11° Ω 47'05		minimum elong	13649 Sep 07 03:16	29° m) 04'14	0°41'14
direct	13648 Oct 08 11:08	10° ⊆ 07'30		desc. node	13649 Sep 09 09:04	26° Mp 58'14	0 41 14
	13648 Oct 22 18:38	10 2 07 30 17° 2 43'53	27912116	min. Earth dist.	•	-•	0.60373 AU
morning max el			27 12 10		13649 Sep 10 06:54	26° Mp 08'47	0.60373 AU
_	13648 Nov 02 00:04	0°M		morning rise	13649 Sep 13 23:31	23° m) 17'18	
asc. node	13648 Nov 16 15:15	24°M33'10		direct	13649 Sep 20 13:10	21° m)11'18	
	13648 Nov 19 08:48	0° ∡		morning max el	13649 Oct 04 20:12	29° m 04'50	27°53'04
morning set	13648 Nov 22 06:48	6° ₹ 05'16			13649 Oct 05 18:06	0∘ ⊽	
					13649 Oct 26 22:40	0° M.	
superior conj	13648 Nov 29 04:04	21° х 14′07	1°33'29	asc. node	13649 Nov 03 12:02	14°ML13'19	
minimum elong	13648 Nov 29 02:48	21° ₮ 07'02	1°34'25	morning set	13649 Nov 06 11:22	20°M18'34	
max. Earth dist.	13648 Nov 29 03:58	21° х 13′32	1.31214 AU		13649 Nov 10 23:38	0° ≯ ¹	
	13648 Dec 03 02:39	0°ರ		max. Earth dist.	13649 Nov 12 11:47	3° ҂ 19′25	1.31295 AU
evening rise	13648 Dec 05 22:53	6°₹10'08					
8	13648 Dec 18 08:28	0° ≈		superior conj	13649 Nov 13 15:12	5° ₹ 751'46	1°23'13
desc. node	13648 Dec 19 08:54	1° ≈ 42'02		minimum elong	13649 Nov 13 13:14		1°23'54
evening max el	13649 Jan 05 00:50	23°≈36'59	26°50'37	evening rise	13649 Nov 20 07:55	20° ₹ ¹ 39'21	1 2331
evening max er	13649 Jan 14 14:06	0° ∺	20 30 37	evening rise	13649 Nov 24 19:13	0°る	
	13649 Jan 18 23:49	0°) {47'27		4 4-		00 20°る16'27	
retrograde				desc. node	13649 Dec 06 05:56		
	13649 Jan 23 07:27	30°R≈			13649 Dec 13 10:48	0° ≈	25040102
evening set	13649 Jan 25 15:46	28°≈55'31		evening max el	13649 Dec 17 19:51	4°≈39'52	25°40'03
min. Earth dist.	13649 Jan 29 14:51		0.59464 AU	retrograde	13649 Dec 31 17:21	11° ≈ 40'31	
inferior conj	13649 Feb 01 19:22	23° ≈ 45′21		evening set	13650 Jan 06 18:10	10° ≈ 16′20	
minimum elong	13649 Feb 02 02:40	23° ≈ 30'49	3°19'55	min. Earth dist.	13650 Jan 11 08:23	7° ≈ 38'15	0.57384 AU
morning rise	13649 Feb 09 16:40	19° ≈ 05'42		inferior conj	13650 Jan 14 06:33	5° ≈ 37'40	-4°43'33
direct	13649 Feb 11 17:38	18° ≈ 50′19		minimum elong	13650 Jan 14 15:24	5° ≈ 22'25	4°40'20
asc. node	13649 Feb 12 13:43	18° ≈ 53'00		morning rise	13650 Jan 22 15:21	1° ≈ 20'17	
morning max el	13649 Feb 19 09:42	22° ≈ 38'42	18°11'07	direct	13650 Jan 24 18:04	1° ≈ 06'34	
	13649 Feb 25 03:45	0°) €		asc. node	13650 Jan 30 11:08	2°≈53'50	
morning set	13649 Mar 07 01:11	17° ¥ 28'18		morning max el	13650 Feb 02 14:28	5° ≈ 25'19	18°53'16
C	13649 Mar 13 18:16	$0^{\circ}\mathbf{Y}$		C			
					13650 Feb 18 01:29	0° X	
				morning set	13650 Feb 18 01:29 13650 Feb 18 23:09	0° ∺ 1° ∺ 45'57	
superior coni	13649 Mar 16 16:47	5° Ƴ 20'28	0°05'56	morning set	13650 Feb 18 01:29 13650 Feb 18 23:09	0° X 1° X 45'57	
superior conj	13649 Mar 16 16:47	5° Υ 20'28 5° Υ 22'31	0°05'56	-	13650 Feb 18 23:09	1° ¥ 45'57	0°38'01
minimum elong	13649 Mar 16 17:14	5° Y ′22'31	0°05'56 0°05'52	superior conj	13650 Feb 18 23:09 13650 Feb 27 12:31	1° ¥ 45'57 18° ¥ 24'44	0°38'01
minimum elong behind sun begin	13649 Mar 16 17:14 13649 Mar 16 10:09	5° Υ 22'31 4° Υ 50'37		superior conj minimum elong	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48	1°) 45'57 18°) 45'44 18°) 35'34	
minimum elong behind sun begin behind sun end	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19	5° Υ 22'31 4° Υ 50'37 5° Υ 54'19		superior conj	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00	1°\dagger445'57 18°\dagger424'44 18°\dagger435'34 27°\dagger415'52	
minimum elong behind sun begin behind sun end desc. node	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50	0°05'52	superior conj minimum elong desc. node	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Υ	0°37'59
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58		superior conj minimum elong desc. node max. Earth dist.	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45	1° X 45'57 18° X 24'44 18° X 35'34 27° X 15'52 0° Υ 1° Υ 25'39	
minimum elong behind sun begin behind sun end desc. node	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29	0°05'52	superior conj minimum elong desc. node	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Υ 1°Υ25'39 8°Υ10'02	0°37'59
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘	0°05'52	superior conj minimum elong desc. node max. Earth dist. evening rise	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07	1°\(\pm\)45'57 18°\(\pm\)24'44 18°\(\pm\)35'34 27°\(\pm\)15'52 0°\(\pm\) 1°\(\pm\)25'39 8°\(\pm\)10'02 0°\(\pm\)	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘ 0°႘	0°05'52	superior conj minimum elong desc. node max. Earth dist.	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Y 1°Y25'39 8°Y10'02 0°℧ 27°℧32'52	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist.	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘ 0°Ⅱ 13°Ⅱ40'58	0°05'52	superior conj minimum elong desc. node max. Earth dist. evening rise	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Y 1°Y25'39 8°Y10'02 0°℧ 27°℧32'52 0°Ⅱ	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘ 0°႘	0°05'52 1.41521 AU	superior conj minimum elong desc. node max. Earth dist. evening rise	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Y 1°Y25'39 8°Y10'02 0°℧ 27°℧32'52	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘ 0°Ⅱ 13°Ⅱ40'58	0°05'52 1.41521 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05	1°¥45'57 18°¥24'44 18°¥35'34 27°¥15'52 0°Y 1°Y25'39 8°Y10'02 0°℧ 27°℧32'52 0°Ⅱ	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17	5°Υ22'31 4°Υ50'37 5°Υ54'19 6°Υ39'50 18°Υ36'58 26°Υ41'29 0°႘ 0°႘ 13°Д40'58 19°Д40'03	0°05'52 1.41521 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20	1° ¥45'57 18° ¥24'44 18° ¥35'34 27° ¥15'52 0° Ŷ 1° Ŷ25'39 8° Ŷ10'02 0° ℧ 27° ℧32'52 0° Ⅲ 4° Ⅲ12'58	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°I 13°I40'58 19°I40'03 19°I42'51	0°05'52 1.41521 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20 13650 Apr 28 07:37	1° ★45'57 18° ★24'44 18° ★35'34 27° ★15'52 0° ❤ 1° ❤25'39 8° ❤10'02 0° ₭ 27° ₭32'52 0° Ⅲ 4° Ⅲ12'58 3° Ⅲ47'40	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist.	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07 13649 May 17 04:48 13649 May 22 03:53	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°II 13°II40'58 19°II40'03 19°II42'51 17°II36'55	0°05'52 1.41521 AU 22°57'38	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20 13650 Apr 28 07:37 13650 May 01 09:35 13650 May 03 07:22	1° \(\pmathcal{H}\)45'57 18° \(\pmathcal{H}\)24'44 18° \(\pmathcal{H}\)35'34 27° \(\pmathcal{H}\)15'52 0° \(\pmathcal{V}\) 1° \(\pmathcal{Y}\)25'39 8° \(\pmathcal{Y}\)10'02 0° \(\pmathcal{H}\) 27° \(\pmathcal{H}\)32'52 0° \(\pmathcal{H}\) 4° \(\pmathcal{H}\)12'58 3° \(\pmathcal{H}\)4'40 1° \(\pmathcal{H}\)54'31 30° \(\pmathcal{H}\)	0°37'59 1.39308 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07 13649 May 17 04:48 13649 May 22 03:53 13649 May 22 12:50	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°I 13°I40'58 19°I40'03 19°I42'51 17°I36'55 11°I43'27 11°I12'26	0°05'52 1.41521 AU 22°57'38 0.68920 AU 2°49'10	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 28 07:37 13650 May 01 09:35 13650 May 03 07:22 13650 May 05 23:54	1° \(\pmath{\text{\tint{\text{\ti}\text{\texi\text{\text{\text{\texit{\text{\texi\text{\text{\texit{\text{\texi\tint{\texit{\text{\text{\text{\texi{\text{\texi\tint{\text{\ti}}}\text{\t	0°37'59 1.39308 AU 24°18'25 0.68534 AU
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07 13649 May 17 04:48 13649 May 22 03:53 13649 May 22 12:50 13649 May 22 11:07	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°I 13°II40'58 19°II40'03 19°II42'51 17°II36'55 11°II43'27 11°II12'26 11°II18'23	0°05'52 1.41521 AU 22°57'38 0.68920 AU	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20 13650 Apr 28 07:37 13650 May 01 09:35 13650 May 01 09:35 13650 May 03 07:22 13650 May 05 23:54 13650 May 06 21:25	1° \(\pmath{\text{\tint{\text{\ti}\text{\texi\text{\text{\text{\text{\texit{\text{\texi\text{\text{\texit{\text{\texi\tirit{\texit{\texi{\texi\text{\text{\text{\texit{\texi\texi{\texit{\texi\tint{\	0°37'59 1.39308 AU 24°18'25 0.68534 AU 2°22'14
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 00:19 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07 13649 May 17 04:48 13649 May 22 03:53 13649 May 22 12:50 13649 May 22 11:07 13649 May 27 17:21	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°I 13°II40'58 19°II40'03 19°II42'51 17°II36'55 11°II43'27 11°II12'26 11°II18'23 5°II03'51	0°05'52 1.41521 AU 22°57'38 0.68920 AU 2°49'10	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20 13650 Apr 28 07:37 13650 May 01 09:35 13650 May 03 07:22 13650 May 05 23:54 13650 May 06 21:25 13650 May 06 19:18	1° \(\cdot \)45'57 18° \(\cdot \)24'44 18° \(\cdot \)35'34 27° \(\cdot \)15'52 0° \(\cdot \) 1° \(\cdot \)25'39 8° \(\cdot \)10'02 0° \(\cdot \) 27° \(\cdot \)32'52 0° \(\cdot \) 4° \(\cdot \)12'58 30° \(\cdot \)47'40 1° \(\cdot \)54'31 30° \(\cdot \)837'14 25° \(\cdot \)24'43 25° \(\cdot \)33'52	0°37'59 1.39308 AU 24°18'25 0.68534 AU 2°22'14
minimum elong behind sun begin behind sun end desc. node max. Earth dist. evening rise evening max el asc. node retrograde evening set min. Earth dist. inferior conj minimum elong	13649 Mar 16 17:14 13649 Mar 16 10:09 13649 Mar 17 10:29 13649 Mar 24 07:41 13649 Mar 29 04:57 13649 Mar 31 06:22 13649 Apr 20 14:35 13649 May 01 23:28 13649 May 11 10:17 13649 May 12 05:07 13649 May 17 04:48 13649 May 22 03:53 13649 May 22 12:50 13649 May 22 11:07	5°Y22'31 4°Y50'37 5°Y54'19 6°Y39'50 18°Y36'58 26°Y41'29 0°B 0°I 13°II40'58 19°II40'03 19°II42'51 17°II36'55 11°II43'27 11°II12'26 11°II18'23	0°05'52 1.41521 AU 22°57'38 0.68920 AU 2°49'10 2°47'54	superior conj minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	13650 Feb 18 23:09 13650 Feb 27 12:31 13650 Feb 27 14:48 13650 Mar 04 07:00 13650 Mar 05 19:29 13650 Mar 06 14:45 13650 Mar 10 11:57 13650 Mar 24 05:07 13650 Apr 14 13:21 13650 Apr 17 05:05 13650 Apr 25 22:20 13650 Apr 28 07:37 13650 May 01 09:35 13650 May 01 09:35 13650 May 03 07:22 13650 May 05 23:54 13650 May 06 21:25	1° \(\pmath{\text{\tint{\text{\ti}\text{\texi\text{\text{\text{\text{\texit{\text{\texi\text{\text{\texit{\text{\texi\tirit{\texit{\texi{\texi\text{\text{\text{\texit{\texi\texi{\texit{\texi\tint{\	0°37'59 1.39308 AU 24°18'25 0.68534 AU 2°22'14

morning may al	12650 May 22 19:02	22° 8 11'48	20001124	grantast brillianav	12651 May 20, 02-20	23° 8 48'37	0.7m
morning max el	13650 May 23 18:03 13650 May 30 08:35	0°II	20-01-24	greatest brilliancy	13651 May 20 03:39 13651 May 24 05:25	0° I	-0./m
desc. node	13650 May 31 08:54	0 H 1°H21′20		morning set	13651 May 24 03.25	9° Ⅱ 20'59	
desc. node	13650 Jun 19 19:03	0°95		morning set	13651 Jun 12 13:51	0°95	
morning set	13650 Jun 20 01:45	0°925'44		max. Earth dist.	13651 Jun 13 02:53	0°951'04	1.45500 AU
max. Earth dist.	13650 Jun 30 10:26	16°937'18	1.44419 AU	max. Earth dist.	15051 3411 15 02.55	0 31 04	1.43300710
max. Darin dist.	15050 3411 50 10.20	10 37 10	1.11117110	superior conj	13651 Jun 15 16:08	4°951'35	-2°13'36
superior conj	13650 Jul 05 21:51	25° © 25'39	-2°04'54	minimum elong	13651 Jun 15 15:45		2°14'39
minimum elong	13650 Jul 06 03:45	25°549'41		evening rise	13651 Jun 30 13:05	28°541'28	
	13650 Jul 08 16:52	$0^{\circ}\Omega$		C	13651 Jul 01 08:22	$0^{\circ}\Omega$	
evening rise	13650 Jul 19 02:45	17° Ω 31'49		asc. node	13651 Jul 12 03:27	17° Ω 19'09	
asc. node	13650 Jul 25 06:41	28° Ω 01′52		evening max el	13651 Jul 20 04:27	27° Ω 52'17	18°23'05
	13650 Jul 26 11:02	0° m			13651 Jul 22 18:09	0° m y	
evening max el	13650 Aug 05 14:32	14° m 16'48	18°04'58	retrograde	13651 Jul 26 14:08	1° m)17'37	
retrograde	13650 Aug 12 00:13	17° m 37'13		evening set	13651 Jul 29 15:27	0° Mp 25'52	
evening set	13650 Aug 14 16:53	17° m 00'13			13651 Jul 30 08:12	30°R Ω	
inferior conj	13650 Aug 20 23:59	11°Mp46'27	1°46'59	inferior conj	13651 Aug 04 11:15	24° Ω 55'44	2°31'22
minimum elong	13650 Aug 21 02:24	11° m 39'59	1°45'48	minimum elong	13651 Aug 04 13:34	24° Ω 48'56	2°30'09
min. Earth dist.	13650 Aug 23 19:30	8° Mp 48'14	0.62646 AU	min. Earth dist.	13651 Aug 06 17:27	22° Ω 16'51	0.64721 AU
morning rise	13650 Aug 27 09:43	5° m 36'20		morning rise	13651 Aug 10 10:21	18° Ω 35'04	
desc. node	13650 Aug 27 06:36	5° Mp 42'05		desc. node	13651 Aug 14 04:06	16° Ω 25'07 15° Ω 56'57	
direct	13650 Sep 03 02:00	3°Mp09'37	27954142	direct	13651 Aug 16 23:30	13° λ (36'37) 23° Ω 54'26	27°21'05
morning max el	13650 Sep 17 03:31 13650 Oct 01 23:42	11°Mp11'12 0° ≏	27°54'43	morning max el	13651 Aug 30 13:51 13651 Sep 05 01:01	23 8 6 34 20	27 21 03
	13650 Oct 01 23:42 13650 Oct 19 07:28	0° m			13651 Sep 25 08:40	0∘ ⊽	
morning set	13650 Oct 21 09:29	4°M10'33		morning set	13651 Oct 04 22:34	0 — 17° ≏ 35'26	
asc. node	13650 Oct 21 08:43	4°M06'40		asc. node	13651 Oct 04 22:34 13651 Oct 08 05:20	24° ⊆ 08'44	
max. Earth dist.	13650 Oct 26 15:09	15°M09'52	1.31920 AU	max. Earth dist.	13651 Oct 09 10:43	26° £ 39'27	1.33093 AU
man Daru dioc.	15050 000 20 15.09	10 110 00 02	1.51920110	man. Burur dist.	13651 Oct 11 01:15	0°M	1.55075110
superior conj	13650 Oct 28 23:57	20°M18'44	1°07'13				
minimum elong	13650 Oct 28 21:40	20°MJ06'14	1°07'37	superior conj	13651 Oct 13 04:15	4°M29'56	0°45'37
	13650 Nov 02 09:38	0° ∡ ¹		minimum elong	13651 Oct 13 02:14	4°ML19'10	0°45'45
evening rise	13650 Nov 04 18:47	5° ∡ 11′03		evening rise	13651 Oct 20 05:42	19° M 41'05	
	13650 Nov 17 17:49	5°0			13651 Oct 25 05:39	0° ∡ ¹	
desc. node	13650 Nov 23 03:04	7° る 53'38		desc. node	13651 Nov 10 00:18	24° ∡ 12'59	
evening max el	13650 Nov 29 07:29	14° る 57'20	24°05'26	evening max el	13651 Nov 10 18:07	24° ∡ 757'35	22°23'06
retrograde	13650 Dec 12 22:11	21° る 44'05			13651 Nov 17 18:13	0°ಕ	
evening set	13650 Dec 17 20:50	20° る 50'39		retrograde	13651 Nov 23 14:09	1° る 19'19	
min. Earth dist.	13650 Dec 23 18:48	17° る 54'40	0.55690 AU	evening set	13651 Nov 27 03:45	0° ರ 51'24	
inferior conj	13650 Dec 25 20:51	16° る 38'48			13651 Nov 29 17:33	30°R. ✓	
minimum elong	13650 Dec 26 02:35	16°る30'05	5°40'34	min. Earth dist.	13651 Dec 05 01:20	27° 🗷 19'11	0.54684 AU
morning rise	13651 Jan 03 10:13	12°る40'53		inferior conj	13651 Dec 05 18:07	26° ₹ 55'34	
direct morning max el	13651 Jan 05 22:47	12°る24'31 17°る22'33	19°58'10	minimum elong	13651 Dec 05 15:26	26° х 59'21 23° х 08'10	5°53'50
asc. node	13651 Jan 16 07:00 13651 Jan 17 08:27	17 3 2233	19 38 10	morning rise direct	13651 Dec 14 04:17 13651 Dec 17 11:47	23 × 08 10 22° × 43'27	
asc. node	13651 Jan 25 14:34	0°≈		morning max el	13651 Dec 29 08:52	28° x 24'28	21°25'47
morning set	13651 Feb 03 04:10	0 ~ 16° ≈ 20'14		morning max cr	13651 Dec 30 22:42	0°る。	21 23 47
	13651 Feb 09 21:13	0°) €		asc. node	13652 Jan 04 05:40	5° ਰ 15'50	
					13652 Jan 18 01:22	0° ≈	
superior conj	13651 Feb 10 22:38	2°) €07'15	1°03'16	morning set	13652 Jan 18 13:31	1° ≈ 03'21	
minimum elong	13651 Feb 11 01:23	2°) 20′57	1°03'28	•			
max. Earth dist.	13651 Feb 16 21:06	13°) €37'08	1.37067 AU	superior conj	13652 Jan 25 19:11	16° ≈ 16'58	1°21'27
desc. node	13651 Feb 19 03:31	17°) 48′55		minimum elong	13652 Jan 25 21:30	16° ≈ 29′02	1°22'00
evening rise	13651 Feb 20 14:55	20°) 29′09		max. Earth dist.	13652 Jan 30 07:49	25° ≈ 30′27	1.35026 AU
	13651 Feb 26 02:22	0 ° $\mathbf{\gamma}$			13652 Feb 01 14:45	0°)	
	13651 Mar 18 05:16	0°8		evening rise	13652 Feb 03 10:35	3° ∺ 29'33	
evening max el	13651 Mar 28 02:51	11° 8 25'23	25°33'49	desc. node	13652 Feb 06 00:04	8° ¥ 15′07	
retrograde	13651 Apr 09 11:09	18° 8 32'54			13652 Feb 19 00:18	0° Υ	0.000.000
evening set	13651 Apr 15 09:46	16° 8 05'28		evening max el	13652 Mar 09 16:42	25° Y 12'33	26°36'22
asc. node	13651 Apr 15 05:02	16° 8 15'18	0.67600 411		13652 Mar 15 12:13	0°8	
min. Earth dist.	13651 Apr 19 17:02	11° 8 23'47	0.67699 AU	retrograde	13652 Mar 22 18:30	2° 8 35'10	
inferior conj	13651 Apr 21 02:57	9° 8 34'57 9° 8 41'34	1°44'54 1°43'39	evening set	13652 Mar 29 03:32	0° ႘ 03'15 30° ℝ Υ	
minimum elong morning rise	13651 Apr 21 00:54 13651 Apr 26 16:31	3° 8 43'38	1 43 37	asc. node	13652 Mar 29 05:08 13652 Apr 01 02:28	30° γ ′1 27° Υ 11'48	
direct	13651 Apr 20 10.31 13651 Apr 30 03:17	2° 8 35'23		min. Earth dist.	13652 Apr 02 04:59	25° Υ 56'11	0.66445 AU
morning max el	13651 May 06 23:52	6° 8 18'59	19°02'30	inferior conj	13652 Apr 04 03:19	23° Υ 37'48	0.00443 AU 0°56'37
desc. node	13651 May 18 05:43	20° 8 57'12	-> 0230	minimum elong	13652 Apr 04 01:56	23° Υ 41'57	0°55'47
	2222.20, 10 00.10					/	,

	12652 1 10 01 24	1.7000.5712.6			12652.14 10.20.00	700007100	0002105
morning rise	13652 Apr 10 01:24	17° Υ 57'36		transit middle	13653 Mar 18 20:09	7° Υ 27'20	0°03'05
direct	13652 Apr 13 01:46	17° Υ 06'53	10000100	transit begin	13653 Mar 18 17:09	7°Υ35'33	
morning max el	13652 Apr 19 12:08	20° Ƴ 31'07	18°20'00	transit end	13653 Mar 18 23:09	7° Υ 19'09	
	13652 Apr 26 23:52	0°8		asc. node	13653 Mar 18 23:55	7°Υ17'03	
desc. node	13652 May 04 02:26	10° 8 55'44		morning rise	13653 Mar 25 05:16	2°Υ00'51	
morning set	13652 May 09 09:51	19° 8 21'41		direct	13653 Mar 27 20:28	1° Υ 24'39	
	13652 May 16 02:54	Π $^{\circ}0$		morning max el	13653 Apr 03 04:38	4° Υ 41'45	17°54'31
		—			13653 Apr 20 06:00	0°8	
superior conj	13652 May 25 00:02	13° Ⅱ 56'14		morning set	13653 Apr 20 16:58	0° 8 45'34	
minimum elong	13652 May 24 16:35	13° Ⅲ 27′08		desc. node	13653 Apr 20 23:03	1° 8 10'47	
max. Earth dist.	13652 May 25 22:45	15° Ⅱ 24'57	1.45858 AU				
	13652 Jun 04 07:07	0		superior conj	13653 May 04 15:13	23° 8 26'58	
evening rise	13652 Jun 09 22:55	8° © 50'47		minimum elong	13653 May 04 06:22	22° 8 51'44	1°33'07
greatest brilliancy	13652 Jun 20 03:08	24° © 41'28	-0.8m		13653 May 08 18:38	Π $^{\circ}0$	
	13652 Jun 23 15:40	0 $^{\circ}$ Ω		max. Earth dist.	13653 May 08 19:06	0° Ⅱ 01'49	1.45463 AU
asc. node	13652 Jun 28 00:19	6° Ω 09'13		evening rise	13653 May 20 14:33	18° Ⅱ 20'36	
evening max el	13652 Jul 02 15:13	11° Ω 36′29	18°58'32		13653 May 28 06:18	0 \circ ∞	
retrograde	13652 Jul 09 09:39	15° Ω 20′01		greatest brilliancy	13653 Jun 04 02:41	10° © 11'16	-0.6m
evening set	13652 Jul 12 19:59	14° Ω 11'57		asc. node	13653 Jun 14 21:16	24° © 23'14	
inferior conj	13652 Jul 18 08:05	8° Ω 26′59	2°58'18	evening max el	13653 Jun 15 20:53	25° 5 24'39	19°50'06
minimum elong	13652 Jul 18 09:38	8° Ω 22'04	2°57'12	retrograde	13653 Jun 23 08:02	29° 5 38'35	
min. Earth dist.	13652 Jul 19 23:43	6° Ω 21'03	0.66449 AU	evening set	13653 Jun 27 03:53	28° © 13'39	
morning rise	13652 Jul 23 22:35	2° Ω 02'45		inferior conj	13653 Jul 02 11:31	22° © 15'16	3°10'44
Z .	13652 Jul 27 02:59	30°Rூ		minimum elong	13653 Jul 02 12:04	22° © 13'27	3°09'42
direct	13652 Jul 30 04:02	29° © 23'07		min. Earth dist.	13653 Jul 03 12:46	20°950'25	0.67746 AU
desc. node	13652 Jul 31 01:32	29°526'05		morning rise	13653 Jul 07 19:52	15°952'06	
dese. Hode	13652 Aug 02 09:59	0°Ω		direct	13653 Jul 13 14:43	13° © 19'34	
morning max el	13652 Aug 12 00:56	7° Ω 02'39	26°19'41	desc. node	13653 Jul 17 22:54	14°529'28	
morning max or	13652 Aug 29 20:27	0° my	20 17 11	morning max el	13653 Jul 25 11:38	20°926'28	24°59'41
morning set	13652 Sep 16 23:24	0° £ 24'49		morning max cr	13653 Aug 02 16:44	0°Ω	24 37 41
morning set	13652 Sep 16 18:05	0° <u>Ω</u>			13653 Aug 02 10:44 13653 Aug 23 00:32	0°m)	
max. Earth dist.	13652 Sep 20 20:31	0 = 7° £ 49'57	1.34779 AU	morning set	13653 Aug 23 00:32	12°M)29'38	
asc. node	13652 Sep 24 01:53	7 = 4937 14° Ω 14'47	1.54//9 AO	max. Earth dist.	13653 Sep 02 21:47	18° m 57'31	1.36881 AU
asc. node	13032 Sep 24 01.33	14 == 144/		max. Earth dist.	13653 Sep 02 21.47 13653 Sep 08 17:21	0° ⊽	1.30001 AU
					13033 Sep 08 17.21	0 ==	
superior coni	12652 San 26 01:26	100.0.10111	0010120				
superior conj	13652 Sep 26 01:36	18° Ω 18'11	0°18'39	aumanian aani	12652 San 00 12:01	19 0 26/10	0012157
superior conj minimum elong	13652 Sep 26 00:35	18° ≏ 12'56	0°18'39 0°18'40	superior conj	13653 Sep 09 13:01	1° £ 36'19	
minimum elong	13652 Sep 26 00:35 13652 Oct 01 16:06	18° £ 12'56 0° M		minimum elong	13653 Sep 09 13:51	1° ≏ 40'25	
	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39	18° £ 12'56 0° M 4° M 03'40		minimum elong behind sun begin	13653 Sep 09 13:51 13653 Sep 09 09:53	1° £ 40'25 1° £ 20'55	
minimum elong evening rise	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06	18° 2 12'56 0° I L 4° I L03'40 0° x ⁷	0°18'40	minimum elong behind sun begin behind sun end	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49	1° £ 40'25 1° £ 20'55 1° £ 59'56	
minimum elong evening rise evening max el	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09	18° 2 12'56 0° 1 4° 1 03'40 0° ₹ 5° ₹ 17'31		minimum elong behind sun begin behind sun end asc. node	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26	1° Ω 40'25 1° Ω 20'55 1° Ω 59'56 4° Ω 21'25	
minimum elong evening rise evening max el desc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39	18° □ 12'56 0° m 4° m 03'40 0° ♂ 5° ♂ 17'31 8° ♂ 48'29	0°18'40	minimum elong behind sun begin behind sun end	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26	1°\$\omega40'25 1°\$\omega20'55 1°\$\omega59'56 4°\$\omega21'25 18°\$\omega13'10	
minimum elong evening rise evening max el desc. node retrograde	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38	18° № 12'56 0° M. 4° M.03'40 0° \$\mathright{\$\mathright{\$^{\text{0}}}\$} 17'31 8° \$\mathright{\$^{\text{0}}}\$ 48'29 10° \$\mathright{\$^{\text{0}}}\$ 59'51	0°18'40	minimum elong behind sun begin behind sun end asc. node evening rise	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55	1°\$\overline{1}\text{0'25}\$ 1°\$\overline{2}\text{20'55}\$ 1°\$\overline{5}\text{5'56}\$ 4°\$\overline{2}\text{1'25}\$ 18°\$\overline{1}\text{3'10}\$ 0°\$\mathbb{M}	0°12'53
minimum elong evening rise evening max el desc. node retrograde evening set	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29	18° № 12'56 0° M. 4° M.03'40 0° ¾ 5° ¾ 17'31 8° ¾ 48'29 10° ¾ 59'51 10° ¾ 45'52	0°18'40 20°50'03	minimum elong behind sun begin behind sun end asc. node evening rise	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11	1° ១ 40'25 1° ១ 20'55 1° ១ 59'56 4° ១ 21'25 18° ១ 13'10 0° ጤ 16° ጤ 22'12	
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26	18° № 12'56 0° M. 4° M.03'40 0° ¾ 5° ¾ 17'31 8° ¾ 48'29 10° ¾ 59'51 10° ¾ 45'52 6° ¾ 51'57	0°18'40 20°50'03 -5°07'49	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05	1° ១ 40'25 1° ១ 20'55 1° ១ 59'56 4° ១ 21'25 18° ១ 13'10 0° ៣ 16° ៣ 22'12 21° ៣ 14'20	0°12'53
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58	18° № 12'56 0° M. 4° M.03'40 0° \$\mathright\sigma\) 5° \$\mathright\sigma\) 17'31 8° \$\mathright\sigma\) 48'29 10° \$\mathright\sigma\) 59'51 10° \$\mathright\sigma\) 6° \$\mathright\sigma\) 7° \$\mathright\sigma\) 7° \$\mathright\sigma\) 7° \$\mathright\sigma\) 7° \$\mathright\sigma\)	0°18'40 20°50'03 -5°07'49 5°04'48	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15	1° \$\alpha 40'25\$ 1° \$\alpha 20'55\$ 1° \$\alpha 59'56\$ 4° \$\alpha 21'25\$ 18° \$\alpha 13'10\$ 0° \$\mathbf{m}\$ 16° \$\mathbf{m} 22'12\$ 21° \$\mathbf{m} 14'20\$ 21° \$\mathbf{m} 17'03\$	0°12'53
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58 13652 Nov 15 07:22	18° № 12'56 0° № 4° № 03'40 0° ৵ 5° ৵ 17'31 8° ৵ 48'29 10° ৵ 59'51 10° ৵ 45'52 6° ৵ 51'57 7° ৵ 05'28 6° ৵ 20'40	0°18'40 20°50'03 -5°07'49	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34	1° Ω 40'25 1° Ω 20'55 1° Ω 59'56 4° Ω 21'25 18° Ω 13'10 0° M 16° M 22'12 21° M 14'20 21° M 17'03 21° M 06'59	0°12'53 19°36'16
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 15 07:22 13652 Nov 22 13:36	18° № 12'56 0° № 4° № 03'40 0° ৵ 5° ৵ 17'31 8° ৵ 48'29 10° ৵ 59'51 10° ৵ 45'52 6° ৵ 51'57 7° ৵ 05'28 6° ৵ 20'40 2° ৵ 57'46	0°18'40 20°50'03 -5°07'49 5°04'48	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33	1° Ω 40'25 1° Ω 20'55 1° Ω 59'56 4° Ω 21'25 18° Ω 13'10 0° M 16° M 22'12 21° M 14'20 21° M 17'03 21° M 06'59 17° M 02'34	0°12'53 19°36'16 -3°34'02
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 26 19:34	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 59'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 57'46 2° № 19'08	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33 13653 Oct 25 00:38	1° Ω 40'25 1° Ω 20'55 1° Ω 59'56 4° Ω 21'25 18° Ω 13'10 0° M 16° M 22'12 21° M 14'20 21° M 16'59 17° M 06'59 17° M 16'42	0°12'53 19°36'16 -3°34'02 3°30'15
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 26 19:34 13652 Dec 09 22:40	18° № 12'56 0° M. 4° M.03'40 0° 🖈 5° 🗷 17'31 8° 🗷 48'29 10° 🗷 59'51 10° 🗷 45'52 6° 🗷 51'57 7° 🗷 05'28 6° 🗷 20'40 2° 🗷 57'46 2° 🗷 19'08 8° 🗷 40'42	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33 13653 Oct 25 00:38 13653 Oct 27 16:27	1° Ω 40'25 1° Ω 20'55 1° Ω 59'56 4° Ω 21'25 18° Ω 13'10 0° M 16° M 22'12 21° M 14'20 21° M 17'03 21° M 06'59 17° M 02'34 17° M 16'42 15° M 35'51	0°12'53 19°36'16 -3°34'02
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58 13652 Nov 15 07:22 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46	18° № 12'56 0° M. 4° M.03'40 0° 🖈 5° 🗷 17'31 8° 🗷 48'29 10° 🗷 55'51 10° 🗷 45'52 6° 🗷 51'57 7° 🗷 05'28 6° 🗷 20'40 2° 🗷 57'46 2° 🗷 19'08 8° 🗷 40'42 23° 🗷 04'04	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33 13653 Oct 25 00:38 13653 Oct 27 16:27 13653 Nov 02 07:48	1° 요 40'25 1° ይ 20'55 1° ይ 59'56 4° ይ 21'25 18° ይ 13'10 0° M 16° M 22'12 21° M 14'20 21° M 16'59 17° M 02'34 17° M 16'42 15° M 35'51 12° M 41'13	0°12'53 19°36'16 -3°34'02 3°30'15
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58 13652 Nov 15 07:22 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 25 03:10	18°至12'56 0°肌 4°肌03'40 0°水 5°水17'31 8°水48'29 10°水59'51 10°水45'52 6°水51'57 7°水05'28 6°水20'40 2°水19'08 8°水40'42 23°水04'04 0°云	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33 13653 Oct 25 00:38 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 07 10:42	1° 요 40'25 1° ይ 20'55 1° ይ 59'56 4° ይ 21'25 18° ይ 13'10 0° M 16° M 22'12 21° M 14'20 21° M 16'59 17° M 06'59 17° M 02'34 17° M 16'42 15° M 35'51 12° M 41'13 11° M 42'50	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 13 23:58 13652 Nov 15 07:22 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46	18° № 12'56 0° M. 4° M.03'40 0° 🖈 5° 🗷 17'31 8° 🗷 48'29 10° 🗷 55'51 10° 🗷 45'52 6° 🗷 51'57 7° 🗷 05'28 6° 🗷 20'40 2° 🗷 57'46 2° 🗷 19'08 8° 🗷 40'42 23° 🗷 04'04	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 16 15:34 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 07 10:42 13653 Nov 21 08:27	1° 요 40'25 1° ይ 20'55 1° ይ 59'56 4° ይ 21'25 18° ይ 13'10 0° M 16° M 22'12 21° M 14'20 21° M 16'59 17° M 02'34 17° M 16'42 15° M 35'51 12° M 41'13 11° M 42'50 18° M 39'34	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU
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minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 21 02:46 13653 Jan 02 01:02 13653 Jan 08 22:59 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 12 02:00 13653 Jan 16 19:26	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 55'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 57'46 2° № 19'08 8° № 40'42 23° № 04'04 0° ₺ 15° ₺ 49'23 0° № 45'14 0° № 52'53 0° № 7° № 23'56 17° № 02'26	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 15 13:34 13653 Oct 25 09:33 13653 Oct 25 00:38 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 07 10:42 13653 Nov 07 10:42 13653 Nov 07 10:42 13653 Nov 07 10:42 13653 Dec 17 06:48 13653 Dec 17 06:48 13653 Dec 17 12:51	1° \$\alpha 40'25 1° \$\alpha 20'55 1° \$\alpha 59'56 4° \$\alpha 21'25 18° \$\alpha 13'10 0° \$\mathred{m}\$ 16° \$\mathred{m} 22'12 21° \$\mathred{m} 14'20 21° \$\mathred{m} 16'59 17° \$\mathred{m} 02'34 17° \$\mathred{m} 16'42 15° \$\mathred{m} 35'51 12° \$\mathred{m} 41'13 11° \$\mathred{m} 42'50 18° \$\mathred{m} 39'34 0° \$\mathred{s}\$ 0° \$\mathred{s}\$ 0° \$\mathred{s}\$ 32'27	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53
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minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 26 19:34 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 02 01:02 13653 Jan 08 22:59 13653 Jan 09 00:24 13653 Jan 09 00:24 13653 Jan 12 02:00 13653 Jan 16 19:26 13653 Jan 22 20:42 13653 Jan 22 20:42 13653 Jan 23 16:42	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 55'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 19'08 8° № 40'42 23° № 04'04 0° ₭ 15° ₭ 49'23 0° № 45'14 0° № 52'53 0° № 7° № 23'56 17° № 02'26 28° № 30'12 0° ₭	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:38 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 07 10:42 13653 Nov 07 10:42 13653 Nov 21 08:27 13653 Nov 21 08:27 13653 Dec 07 23:47 13653 Dec 17 06:48 13653 Dec 17 12:51 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:48 13653 Dec 24 07:48 13653 Dec 24 07:48	1° \$\alpha 40'25 1° \$\alpha 20'55 1° \$\alpha 59'56 4° \$\alpha 21'25 18° \$\alpha 13'10 0° \$\mathbb{m}\$ 16° \$\mathbb{m} 22'12 21° \$\mathbb{m} 14'20 21° \$\mathbb{m} 16'59 17° \$\mathbb{m} 02'34 17° \$\mathbb{m} 16'42 15° \$\mathbb{m} 35'51 12° \$\mathbb{m} 41'13 11° \$\mathbb{m} 42'50 18° \$\mathbb{m} 39'34 0° \$\nalpha\$ 11° \$\nalpha 36'54 0° \$\nalpha\$ 0° \$\nalpha 32'27 15° \$\nalpha 24'05 15° \$\nalpha 22'56 19° \$\nalpha 22'50	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 22 13:36 13652 Nov 22 13:36 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 02 01:02 13653 Jan 08 14:35 13653 Jan 09 00:24 13653 Jan 08 14:35 13653 Jan 12 02:00 13653 Jan 12 02:00 13653 Jan 22 20:42 13653 Jan 22 20:42 13653 Jan 23 16:42 13653 Feb 12 09:59	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 59'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 19'08 8° № 40'42 23° № 04'04 0° ♂ 15° ♂ 49'23 0° ≈ 45'14 0° ≈ 52'53 0° ≈ 7° ≈ 23'56 17° ≈ 02'26 28° ≈ 30'12 0° №	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43 1.33344 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 21 08:27 13653 Nov 21 08:27 13653 Dec 07 23:47 13653 Dec 17 06:48 13653 Dec 17 12:51 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 26 03:24 13653 Dec 27 03:45	1° \$\times 40'25 1° \$\times 20'55 1° \$\times 59'56 4° \$\times 21'25 18° \$\times 13'10 0° \$\times 16' \$\times 22'12 21' \$\times 14'20 21' \$\times 14'20 21' \$\times 16'42 15' \$\times 35'51 12' \$\times 16'42 15' \$\times 35'51 12' \$\times 41'13 11' \$\times 42'50 18' \$\times 39'34 0' \$\times 10' \$	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 22 13:36 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 02 01:02 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 12 02:00 13653 Jan 12 02:00 13653 Jan 22 20:42 13653 Jan 22 20:42 13653 Jan 23 16:42 13653 Feb 12 09:59 13653 Feb 12 09:59	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 59'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 57'46 2° № 19'08 8° № 40'42 23° № 04'04 0° ♂ 15° ♂ 49'23 0° ≈ 45'14 0° ≈ 52'53 0° ≈ 7° ≈ 23'56 17° ≈ 02'26 28° ≈ 30'12 0° ₩ 0° № 8° № 44'21	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43 1.33344 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 01 10:42 13653 Nov 02 07:48 13653 Dec 17 06:48 13653 Dec 17 06:48 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:48 13653 Dec 24 07:48 13653 Dec 26 03:24 13653 Dec 31 02:45 13653 Dec 31 14:15	1° \$\times 40'25 1° \$\times 20'55 1° \$\times 59'56 4° \$\times 21'25 18° \$\times 13'10 0° \$\times 16' \$\times 22'12 21' \$\times 14'20 21' \$\times 16'59 17' \$\times 06'59 17' \$\times 02'34 17' \$\times 16'42 15' \$\times 35'51 12' \$\times 41'13 11' \$\times 42'50 18' \$\times 39'34 0' \$\times 10' \$	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 22 13:36 13652 Nov 26 19:34 13652 Dec 09 22:40 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 02 01:02 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 12 02:00 13653 Jan 16 19:26 13653 Jan 22 20:42 13653 Jan 23 16:42 13653 Feb 12 09:59 13653 Feb 20 06:08 13653 Mar 05 19:36	18° № 12'56 0° № 4° № 03'40 0° № 5° № 17'31 8° № 48'29 10° № 59'51 10° № 45'52 6° № 51'57 7° № 05'28 6° № 20'40 2° № 57'46 2° № 19'08 8° № 40'42 23° № 04'04 0° ₺ 15° ₺ 49'23 0° № 45'14 0° № 52'53 0° № 7° № 23'56 17° № 02'26 28° № 30'12 0° ₭ 0° ♥ 44'21 16° ♥ 11'53	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43 1.33344 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 25 00:38 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 01 08:27 13653 Nov 02 10:42 13653 Nov 07 10:42 13653 Nov 07 10:42 13653 Dec 17 06:48 13653 Dec 17 06:48 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:48 13653 Dec 21 02:45 13653 Dec 31 14:15 13654 Jan 09 17:26	1° \$\times 40'25 1° \$\times 20'55 1° \$\times 59'56 4° \$\times 21'25 18° \$\times 13'10 0° \$\times 16' \$\times 22'12 21° \$\times 14'20 21° \$\times 16'59 17° \$\times 06'59 17° \$\times 06'59 17° \$\times 02'34 17° \$\times 16'42 15° \$\times 35'51 12° \$\times 41'13 11° \$\times 42'50 18° \$\times 39'34 0° \$\times 11' \$\times 39'34 0° \$\times 11' \$\times 36'54 0° \$\times 32'27 15° \$\times 22'56 19° \$\times 22'56 19° \$\times 25'56 19° \$\times 25'56 19° \$\times 25'56 19° \$\times 59'13 18° \$\times 28'04	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53 1.32119 AU
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 22 13:36 13652 Nov 22 13:36 13652 Nov 26 19:34 13652 Dec 21 02:46 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 08 22:59 13653 Jan 08 22:59 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 16 19:26 13653 Jan 22 20:42 13653 Jan 23 16:42 13653 Jan 23 16:42 13653 Feb 12 09:59 13653 Mar 05 19:36 13653 Mar 05 19:36	18° № 12'56 0° № 4° № 03'40 0° ৵ 5° ৵ 17'31 8° ৵ 48'29 10° ৵ 59'51 10° ৵ 45'52 6° ৵ 51'57 7° ৵ 05'28 6° ৵ 20'40 2° ৵ 57'46 2° ৵ 19'08 8° ৵ 40'42 23° ৵ 04'04 0° ♂ 15° ♂ 49'23 0° ≈ 45'14 0° ≈ 52'53 0° ≈ 7° ≈ 23'56 17° ≈ 02'26 28° ≈ 30'12 0° ₩ 0° ϒ 8° ϒ 44'21 16° ϒ 11'53 13° ϒ 41'15	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43 1.33344 AU 27°18'40 0.64810 AU	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 01 10:42 13653 Nov 02 108:27 13653 Nov 03 19:03 13653 Dec 17 06:48 13653 Dec 17 06:48 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:48 13653 Dec 31 12:51	1° \$\to 40'25\$ 1° \$\to 20'55\$ 1° \$\to 59'56\$ 4° \$\to 21'25\$ 18° \$\to 13'10} 0° \$\to 16' \$\to 22'12\$ 21° \$\to 14'20\$ 21° \$\to 14'20\$ 21° \$\to 16'59\$ 17° \$\to 02'34\$ 17° \$\to 16'42\$ 15° \$\to 35'51\$ 12° \$\to 41'13\$ 11° \$\to 42'50\$ 18° \$\to 39'34\$ 0° \$\to 7\$ 0° \$\to 32'27\$ 15° \$\to 25'56\$ 19° \$\to 24'50\$ 0° \$\to 59'13} 18° \$\to 28'04\$ 0° \$\to \$\to 59'13\$	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53 1.32119 AU
minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	13652 Sep 26 00:35 13652 Oct 01 16:06 13652 Oct 03 14:39 13652 Oct 18 01:06 13652 Oct 22 13:09 13652 Oct 26 21:39 13652 Nov 03 00:38 13652 Nov 05 10:29 13652 Nov 14 09:26 13652 Nov 15 07:22 13652 Nov 26 19:34 13652 Dec 21 02:46 13652 Dec 21 02:46 13652 Dec 25 03:10 13653 Jan 08 22:59 13653 Jan 08 22:59 13653 Jan 08 14:35 13653 Jan 08 14:35 13653 Jan 16 19:26 13653 Jan 22 20:42 13653 Jan 22 20:42 13653 Jan 23 16:42 13653 Feb 12 09:59 13653 Feb 20 06:08 13653 Mar 05 19:36 13653 Mar 12 12:51 13653 Mar 16 09:41	18° № 12'56 0° № 4° № 03'40 0° ৵ 5° ৵ 17'31 8° ৵ 48'29 10° ৵ 59'51 10° ৵ 45'52 6° ৵ 51'57 7° ৵ 05'28 6° ৵ 20'40 2° ৵ 57'46 2° ৵ 19'08 8° ৵ 40'42 23° ৵ 04'04 0° ♂ 15° ♂ 49'23 0° ≈ 45'14 0° ≈ 52'53 0° ≈ 7° ≈ 23'56 17° ≈ 02'26 28° ≈ 30'12 0° ዅ 0° ዅ 8° ዅ 44'21 16° ዅ 11'53 13° ዅ 41'15 10° ዅ 06'39	0°18'40 20°50'03 -5°07'49 5°04'48 0.54562 AU 23°10'39 1°32'51 1°33'43 1.33344 AU 27°18'40 0.64810 AU -0°03'06	minimum elong behind sun begin behind sun end asc. node evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong min. Earth dist. evening rise direct superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	13653 Sep 09 13:51 13653 Sep 09 09:53 13653 Sep 09 17:49 13653 Sep 10 22:26 13653 Sep 17 19:26 13653 Sep 23 19:55 13653 Oct 04 22:11 13653 Oct 13 19:05 13653 Oct 14 18:15 13653 Oct 25 09:33 13653 Oct 25 09:33 13653 Oct 27 16:27 13653 Nov 02 07:48 13653 Nov 02 07:48 13653 Nov 01 10:42 13653 Nov 02 108:27 13653 Nov 01 19:03 13653 Dec 17 06:48 13653 Dec 17 06:48 13653 Dec 24 07:28 13653 Dec 24 07:28 13653 Dec 24 07:48 13653 Dec 31 12:51	1° \$\alpha 40'25 1° \$\alpha 20'55 1° \$\alpha 59'56 4° \$\alpha 21'25 18° \$\alpha 13'10 0° \$\mathbf{m}\$ 16° \$\mathbf{m} 22'12 21° \$\mathbf{m} 14'20 21° \$\mathbf{m} 16'42 15° \$\mathbf{m} 35'51 12° \$\mathbf{m} 41'13 11° \$\mathbf{m} 42'50 18° \$\mathbf{m} 39'34 0° \$\neq \$\mathbf{m}\$ 11° \$\neq 36'54 0° \$\neq \$\mathbf{m}\$ 0° \$\neq 32'27 15° \$\neq 24'05 15° \$\neq 224'50 0° \$\alpha\$ 0° \$\alpha 59'13 18° \$\alpha 28'04 0° \$\neq \$\mathbf{m}\$ 21° \$\neq 447'42	0°12'53 19°36'16 -3°34'02 3°30'15 0.55370 AU 24°58'53 1°37'51 1°38'53 1.32119 AU

min. Earth dist.	13654 Feb 27 05:20	22°¥ 44'10	0.62860 AU	retrograde	13655 Jan 29 23:36	11° ¥ 28'13	
inferior conj	13654 Mar 02 02:14	20°\(\frac{44}{56}\)'02		evening set	13655 Feb 05 19:33	9° H 23'08	
,		20° X 49'59	1°12'54	=	13655 Feb 09 14:54		0.60715 AU
minimum elong	13654 Mar 02 04:42		1-12-54	min. Earth dist.			
asc. node	13654 Mar 05 21:23	17°) €32'24		inferior conj	13655 Feb 12 18:28	3° ¥ 54'50	
morning rise	13654 Mar 09 00:49	15°) (45′28		minimum elong	13655 Feb 13 00:01	3° ¥ 42'51	2°32'00
direct	13654 Mar 11 08:22	15°) € 20'19	15046100		13655 Feb 18 00:56	30°R≈	
morning max el	13654 Mar 17 22:24	18°) 41'33	17°46'23	morning rise	13655 Feb 20 07:38	29°≈03'06	
	13654 Mar 26 05:41	0°Υ ••••••••		asc. node	13655 Feb 20 18:51	28°≈56'06	
morning set	13654 Apr 03 01:04	13° Y ′20′04		direct	13655 Feb 22 09:50	28°≈45'18	
desc. node	13654 Apr 07 19:36	21° Y ′36'33			13655 Feb 26 14:36	0° ∀	
	13654 Apr 12 18:03	0°B		morning max el	13655 Mar 01 14:05	2° ∺ 21'12	17°56'27
				morning set	13655 Mar 17 04:02	26°) 47′00	
superior conj	13654 Apr 15 02:48	3° 8 56'28			13655 Mar 18 22:15	0° Υ	
minimum elong	13654 Apr 14 21:21	3° 8 33'53	0°54'38	desc. node	13655 Mar 25 16:06	12° Y 09'06	
max. Earth dist.	13654 Apr 21 12:45	14° 8 22'38	1.44362 AU			••	
evening rise	13654 Apr 30 02:10	27° 8 47'56		superior conj	13655 Mar 27 14:30	15° Ƴ 32'41	
	13654 May 01 12:34	Π \circ 0		minimum elong	13655 Mar 27 13:10	15° Y 26′50	0°15'15
	13654 May 22 03:17	0 \circ 60		behind sun begin	13655 Mar 27 10:44	15° Y 16′14	
evening max el	13654 May 29 20:39	9° © 13'34	20°55'42	behind sun end	13655 Mar 27 15:35	15° Ƴ 37'24	
asc. node	13654 Jun 01 18:21	11° © 48'52		max. Earth dist.	13655 Apr 04 02:11	28° Y 14'06	1.42680 AU
retrograde	13654 Jun 07 07:02	14° © 07'17			13655 Apr 05 03:59	$0^{\circ}S$	
evening set	13654 Jun 11 13:05	12° © 25'42		evening rise	13655 Apr 10 01:05	7° 8 50'48	
inferior conj	13654 Jun 16 19:03	6° © 15'32	3°10'52		13655 Apr 24 16:47	Π $\circ 0$	
minimum elong	13654 Jun 16 18:34	6° © 17'10	3°09'48	evening max el	13655 May 12 15:12	23° Ⅱ 03'16	22°11'33
min. Earth dist.	13654 Jun 17 06:36	5° © 35'28	0.68573 AU	asc. node	13655 May 19 15:33	28° Ⅱ 10′54	
morning rise	13654 Jun 21 23:49	29° Ⅱ 56′29		retrograde	13655 May 22 04:48	28° Ⅱ 40'39	
	13654 Jun 21 22:14	30° Ŗ Ⅱ		evening set	13655 May 26 21:49	26° Ⅱ 43'21	
direct	13654 Jun 27 06:31	27° Ⅲ 37'39		inferior conj	13655 Jun 01 04:29	20° Ⅲ 23′26	3°00'05
	13654 Jul 03 08:36	0 \circ \odot		minimum elong	13655 Jun 01 03:09	20° Ⅱ 28′04	2°58'54
desc. node	13654 Jul 04 20:08	1° 5 08'15		min. Earth dist.	13655 Jun 01 02:58	20° Ⅲ 28'45	0.68927 AU
morning max el	13654 Jul 07 22:10	3° 9 58'54	23°30'55	morning rise	13655 Jun 06 08:19	14° Ⅱ 10′29	
	13654 Jul 27 21:05	$0^{\circ}\Omega$		direct	13655 Jun 11 02:21	12° Ⅱ 09'50	
morning set	13654 Aug 11 19:51	23° Ω 39'06		morning max el	13655 Jun 20 10:50	17° Ⅱ 38'43	22°02'32
	13654 Aug 15 12:54	0° m y		desc. node	13655 Jun 21 17:16	18° Ⅱ 57'42	
max. Earth dist.	13654 Aug 15 19:32	0° m 28'55	1.39213 AU		13655 Jun 30 15:52	0ංම	
	-				13655 Jul 20 23:01	$0^{\circ}\Omega$	
superior conj	13654 Aug 23 10:48	14° m 15'50	-0°47'35	morning set	13655 Jul 23 07:03	3° £ 43′09	
minimum elong	13654 Aug 23 14:16	14° mp 31'58	0°47'22	max. Earth dist.	13655 Jul 28 20:15	12° Ω 47'41	1.41517 AU
asc. node	13654 Aug 28 19:00	24° m 25'11					
	13654 Aug 31 16:03	0∘ ⊽		superior conj	13655 Aug 05 14:35	26° Ω 06′20	-1°22'20
evening rise	13654 Sep 01 17:15	2° ₽ 02'26		minimum elong	13655 Aug 05 20:46	26° Ω 33'37	1°22'10
evening max el	13654 Sep 17 20:31	28° ≏ 16′04	18°44'25		13655 Aug 07 19:10	0° m/	
-	13654 Sep 19 19:23	0° M .		asc. node	13655 Aug 15 15:37	14° m) 21'51	
retrograde	13654 Sep 26 04:23	2°M27'27		evening rise	13655 Aug 16 04:31	15° m) 21'42	
evening set	13654 Sep 28 02:07	2°M15'04			13655 Aug 24 07:56	0∘ ⊽	
desc. node	13654 Sep 30 16:36	1°M21'30			15055 11ug 21 07.50		
				evening max el	-	10° ♀ 50'48	18°13'40
	13654 Oct 03 03:23	30° Ŗ Ω		evening max el retrograde	13655 Sep 01 04:17 13655 Sep 08 09:31		18°13'40
inferior conj		30° ₹ Ω 27° Ω 52'23	-1°44'56	retrograde	13655 Sep 01 04:17	10° ≙ 50'48	18°13'40
inferior conj minimum elong	13654 Oct 03 03:23	-	-1°44'56 1°42'49	retrograde evening set	13655 Sep 01 04:17 13655 Sep 08 09:31	10° £ 50'48 14° £ 30'51	
-	13654 Oct 03 03:23 13654 Oct 06 04:46	27° ♀ 52'23		retrograde	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41	10° ♀ 50'48 14° ♀ 30'51 14° ♀ 11'37	-0°05'53
minimum elong min. Earth dist.	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26	27° £ 52'23 28° £ 00'21 25° £ 36'33	1°42'49	retrograde evening set inferior conj	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29	10° £ 50'48 14° £ 30'51 14° £ 11'37 9° £ 27'55	-0°05'53
minimum elong	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06	27° £ 52'23 28° £ 00'21	1°42'49	retrograde evening set inferior conj minimum elong transit middle	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29	10° £ 50'48 14° £ 30'51 14° £ 11'37 9° £ 27'55 9° £ 28'22	-0°05'53 0°05'45
minimum elong min. Earth dist. morning rise direct	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12	27° \overline{\Omega}52'23 28° \overline{\Omega}00'21 25° \overline{\Omega}36'33 22° \overline{\Omega}53'55 21° \overline{\Omega}29'53	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16	10° ♀ 50'48 14° ♀ 30'51 14° ♀ 11'37 9° ♀ 27'55 9° ♀ 28'22 9° ♀ 28'22	-0°05'53 0°05'45
minimum elong min. Earth dist. morning rise	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09	27° \$\overline{0}\$52'23 28° \$\overline{0}\$00'21 25° \$\overline{0}\$36'33 22° \$\overline{0}\$53'55 21° \$\overline{0}\$29'53 28° \$\overline{0}\$54'37	1°42'49	retrograde evening set inferior conj minimum elong transit middle transit begin transit end	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42	10° № 50'48 14° № 30'51 14° № 11'37 9° № 27'55 9° № 28'22 9° № 28'22 9° № 35'15 9° № 21'27	-0°05'53 0°05'45
minimum elong min. Earth dist. morning rise direct	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33	27° \overline{\Omega}52'23 28° \overline{\Omega}00'21 25° \overline{\Omega}36'33 22° \overline{\Omega}53'55 21° \overline{\Omega}29'53	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08	10° ♀ 50'48 14° ♀ 30'51 14° ♀ 11'37 9° ♀ 27'55 9° ♀ 28'22 9° ♀ 28'22	-0°05'53 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39	27° \Omega 52'23 28° \Omega 00'21 25° \Omega 36'33 22° \Omega 53'55 21° \Omega 29'53 28° \Omega 54'37 0° \mathbb{M} 0° \nabla	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist.	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57	10° \$\infty\$ 50'48 14° \$\infty\$ 30'51 14° \$\infty\$ 11'37 9° \$\infty\$ 227'55 9° \$\infty\$ 28'22 9° \$\infty\$ 23'22 9° \$\infty\$ 25'15 9° \$\infty\$ 21'27 9° \$\infty\$ 44'04 6° \$\infty\$ 39'03	-0°05'53 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33	27°\$\Overline{\O	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08	10° \$\infty\$ 50'48 14° \$\infty\$ 30'51 14° \$\infty\$ 11'37 9° \$\infty\$ 227'55 9° \$\infty\$ 28'22 9° \$\infty\$ 28'22 9° \$\infty\$ 35'15 9° \$\infty\$ 21'27 9° \$\infty\$ 44'04	-0°05'53 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Nov 24 20:42	27° \$\Omega 52'23 28° \$\Omega 00'21 25° \$\Omega 36'33 22° \$\Omega 53'55 21° \$\Omega 29'53 28° \$\Omega 54'37 0° \$\mathbb{N}\$ 0° \$\nabla 42'49	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00	10° \$\inspec 50'48 14° \$\inspec 30'51 14° \$\inspec 11'37 9° \$\inspec 27'55 9° \$\inspec 28'22 9° \$\inspec 28'22 9° \$\inspec 35'15 9° \$\inspec 21'27 9° \$\inspec 44'04 6° \$\inspec 39'03 3° \$\inspec 54'40	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Nov 24 20:42	27° \$\Omega 52'23 28° \$\Omega 00'21 25° \$\Omega 36'33 22° \$\Omega 53'55 21° \$\Omega 29'53 28° \$\Omega 54'37 0° \$\mathbb{N}\$ 0° \$\nabla 42'49	1°42'49 0.56966 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35	10° \$\inspec 50'48 14° \$\inspec 30'51 14° \$\inspec 11'37 9° \$\inspec 27'55 9° \$\inspec 28'22 9° \$\inspec 28'22 9° \$\inspec 35'15 9° \$\inspec 21'27 9° \$\inspec 44'04 6° \$\inspec 39'03 3° \$\inspec 54'40 2° \$\inspec 03'07	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Nov 24 20:42 13654 Dec 01 23:17	27° \$\Delta 52'23 28° \$\Delta 00'21 25° \$\Delta 36'33 22° \$\Delta 53'55 21° \$\Delta 29'53 28° \$\Delta 54'37 0° \$\mathbf{m}\$ 0° \$\mathbf{m}\$ 15° \$\mathbf{m}\$07'54 0° \$\mathbf{m}\$07'19	1°42'49 0.56966 AU 26°31'52	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Oct 31 08:45	10° \$\Pi 50'48 14° \$\Pi 30'51 14° \$\Pi 11'37 9° \$\Pi 27'55 9° \$\Pi 28'22 9° \$\Pi 28'22 9° \$\Pi 25'15 9° \$\Pi 21'27 9° \$\Pi 44'04 6° \$\Pi 39'03 3° \$\Pi 54'40 2° \$\Pi 03'07 9° \$\Pi 47'47 0° \$\mathbf{IL}\$	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46	27° \$\Omega 52'23 28° \$\Omega 00'21 25° \$\Omega 36'33 22° \$\Omega 53'55 21° \$\Omega 29'53 28° \$\Omega 54'37 0° \$\mathbb{M}\$ 0° \$\mathbb{A}\$ 15° \$\mathbb{A}\$ 07'54	1°42'49 0.56966 AU 26°31'52 1°36'46	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Oct 31 08:45 13655 Nov 11 17:32	10° \$\Pi 50'48 14° \$\Pi 30'51 14° \$\Pi 11'37 9° \$\Pi 27'55 9° \$\Pi 28'22 9° \$\Pi 28'22 9° \$\Pi 35'15 9° \$\Pi 21'27 9° \$\Pi 44'04 6° \$\Pi 39'03 3° \$\Pi 54'40 2° \$\Pi 03'07 9° \$\Pi 47'47 0° \$\mu\$ 20° \$\mu 12'24	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11	27° \$\Delta 52'23 28° \$\Delta 00'21 25° \$\Delta 36'33 22° \$\Delta 53'55 21° \$\Delta 29'53 28° \$\Delta 54'37 0° \$\mathbb{M}\$. 0° \$\nabla 42'49 15° \$\nabla 07'54 0° \$\To 03'16 0° \$\To 03'16	1°42'49 0.56966 AU 26°31'52 1°36'46 1°37'48	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Oct 31 08:45 13655 Nov 11 17:32 13655 Nov 16 06:31	10° \$\Pi 50'48 14° \$\Pi 30'51 14° \$\Pi 11'37 9° \$\Pi 27'55 9° \$\Pi 28'22 9° \$\Pi 28'22 9° \$\Pi 21'27 9° \$\Pi 44'04 6° \$\Pi 39'03 3° \$\Pi 54'40 2° \$\Pi 03'07 9° \$\Pi 47'47 0° \$\Pi 12'24 29° \$\Pi 30'23	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11 13654 Dec 09 09:56	27° \$\Delta 52'23 28° \$\Delta 00'21 25° \$\Delta 36'33 22° \$\Delta 53'55 21° \$\Delta 29'53 28° \$\Delta 54'37 0° \$\mathbb{M}\$. 0° \$\nabla 42'49 15° \$\nabla 07'54 0° \$\To 03'16 0° \$\To 133'21	1°42'49 0.56966 AU 26°31'52 1°36'46	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Oct 31 08:45 13655 Nov 11 17:32	10° \$\Pi 50'48 14° \$\Pi 30'51 14° \$\Pi 11'37 9° \$\Pi 27'55 9° \$\Pi 28'22 9° \$\Pi 28'22 9° \$\Pi 35'15 9° \$\Pi 21'27 9° \$\Pi 44'04 6° \$\Pi 39'03 3° \$\Pi 54'40 2° \$\Pi 03'07 9° \$\Pi 47'47 0° \$\mu\$ 20° \$\mu 12'24	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11 13654 Dec 09 09:56 13654 Dec 15 16:23	27° £52'23 28° £00'21 25° £36'33 22° £53'55 21° £29'53 28° £54'37 0° 派 0° ※ 0° ※ 42'49 15° ※ 07'54 0° ♂03'16 0° ♂ 1° ♂33'21 15° ♂13'38	1°42'49 0.56966 AU 26°31'52 1°36'46 1°37'48	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Oct 31 08:45 13655 Nov 11 17:32 13655 Nov 16 06:31 13655 Nov 16 12:06	10° \$\Pi 50'48 14° \$\Pi 30'51 14° \$\Pi 11'37 9° \$\Pi 27'55 9° \$\Pi 28'22 9° \$\Pi 28'22 9° \$\Pi 21'27 9° \$\Pi 44'04 6° \$\Pi 39'03 3° \$\Pi 54'40 2° \$\Pi 03'07 9° \$\Pi 47'47 0° \$\Pi 12'24 29° \$\Pi 30'23	-0°05'53 0°05'45 0°05'45 0°05'45
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11 13654 Dec 09 09:56 13654 Dec 15 16:23 13654 Dec 23 02:21	27° \$\Delta 52'23 28° \$\Delta 00'21 25° \$\Delta 36'33 22° \$\Delta 53'55 21° \$\Delta 29'53 28° \$\Delta 54'37 0° \$\mathbb{M}\$. 0° \$\nabla 42'49 15° \$\nabla 07'54 0° \$\To 03'16 0° \$\To 133'21	1°42'49 0.56966 AU 26°31'52 1°36'46 1°37'48	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Nov 11 17:32 13655 Nov 16 06:31 13655 Nov 16 12:06	10° № 50'48 14° № 30'51 14° № 11'37 9° № 27'55 9° № 28'22 9° № 35'15 9° № 21'27 9° № 44'04 6° № 39'03 3° № 54'40 2° № 03'07 9° № 47'47 0° № 20° № 12'24 29° № 30'23 0° 🗷	-0°05'53 0°05'45 0°05'45 0.59071 AU 27°34'15
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11 13654 Dec 09 09:56 13654 Dec 15 16:23 13654 Dec 23 02:21 13654 Dec 27 14:18	27° \$\Omega 52'23 28° \$\Omega 00'21 25° \$\Omega 36'33 22° \$\Omega 53'55 21° \$\Omega 29'53 28° \$\Omega 54'37 0° \$\mathbb{M}\$ 0° \$\nabla 42'49 15° \$\nabla 07'54 0° \$\omega 03'16 0° \$\omega 10' \$\omega 33'21 15° \$\omega 13'38 0° \$\impse\$ 8° \$\impse 01'44	1°42'49 0.56966 AU 26°31'52 1°36'46 1°37'48	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 01 11:35 13655 Nov 11 17:32 13655 Nov 16 06:31 13655 Nov 16 12:06 13655 Nov 23 06:08 13655 Nov 23 04:31	10° \$\inspec\$50'48 14° \$\inspec\$30'51 14° \$\inspec\$11'37 9° \$\inspec\$27'55 9° \$\inspec\$28'22 9° \$\inspec\$23'15 9° \$\inspec\$21'27 9° \$\inspec\$44'04 6° \$\inspec\$39'03 3° \$\inspec\$54'40 2° \$\inspec\$03'07 9° \$\inspec\$47'47 0° \$\inspec\$1.2'24 29° \$\inspec\$1.30'23 0° \$\inspec\$7 14° \$\inspec\$48'29 14° \$\inspec\$39'30	-0°05'53 0°05'45 0°05'45 0.59071 AU 27°34'15
minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13654 Oct 03 03:23 13654 Oct 06 04:46 13654 Oct 06 00:26 13654 Oct 09 07:06 13654 Oct 13 19:23 13654 Oct 19 16:12 13654 Nov 02 22:09 13654 Nov 04 00:33 13654 Nov 24 11:39 13654 Dec 01 23:17 13654 Dec 08 18:30 13654 Dec 08 17:46 13654 Dec 08 17:11 13654 Dec 09 09:56 13654 Dec 15 16:23 13654 Dec 23 02:21	27° £52'23 28° £00'21 25° £36'33 22° £53'55 21° £29'53 28° £54'37 0° 元 0° 元 0° 元 0° 元 0° 元 0° 元 0° 元 0° 元	1°42'49 0.56966 AU 26°31'52 1°36'46 1°37'48 1.31394 AU	retrograde evening set inferior conj minimum elong transit middle transit begin transit end desc. node min. Earth dist. morning rise direct morning max el asc. node morning set	13655 Sep 01 04:17 13655 Sep 08 09:31 13655 Sep 10 13:32 13655 Sep 17 21:41 13655 Sep 17 21:29 13655 Sep 17 21:29 13655 Sep 17 18:16 13655 Sep 18 00:42 13655 Sep 18 00:42 13655 Sep 17 14:08 13655 Sep 21 04:57 13655 Sep 25 02:00 13655 Oct 01 11:35 13655 Oct 01 11:35 13655 Oct 15 19:08 13655 Nov 11 17:32 13655 Nov 16 06:31 13655 Nov 16 12:06	10° № 50'48 14° № 30'51 14° № 11'37 9° № 27'55 9° № 28'22 9° № 35'15 9° № 21'27 9° № 44'04 6° № 39'03 3° № 54'40 2° № 03'07 9° № 47'47 0° № 20° № 12'24 29° № 30'23 0° 🗷	-0°05'53 0°05'45 0°05'45 0.59071 AU 27°34'15

	13655 Nov 30 03:24	5°0			13656 Nov 21 04:37	ರ°0	
desc. node	13655 Dec 14 11:16	27° る 01'12		desc. node	13656 Nov 30 08:21	15° ප 13'26	
	13655 Dec 16 09:04	0° ≈		evening max el	13656 Dec 09 16:06	26°る27'05	25°01'49
evening max el	13655 Dec 29 00:27	15°≈45'11	26°24'23		13656 Dec 13 23:37	0° ≈	
retrograde	13656 Jan 11 23:28 13656 Jan 18 10:00	22°≈51'21 21°≈10'57		retrograde	13656 Dec 23 11:13 13656 Dec 29 02:25	3°≈21'42 2°≈10'43	
evening set min. Earth dist.	13656 Jan 22 14:06	21 ≈10 37 18°≈34'15	0.58548 AU	evening set	13657 Jan 02 07:07	2 ≈1043 30°Rる	
inferior conj	13656 Jan 25 17:08	16°≈14'12		min. Earth dist.	13657 Jan 03 04:03	29°る27'30	0.56603 AU
minimum elong	13656 Jan 26 01:27	15°≈58'38	3°55'08	inferior conj	13657 Jan 05 19:21	27° る 44'55	
morning rise	13656 Feb 02 19:54	11° ≈ 43'38		minimum elong	13657 Jan 06 03:38	27° る 31'29	
direct	13656 Feb 04 20:43	11° ≈ 29'28		morning rise	13657 Jan 14 07:07	23° පි 36'18	
asc. node	13656 Feb 07 16:16	11° ≈ 58′00		direct	13657 Jan 16 13:07	23° る 21'55	
morning max el	13656 Feb 12 23:54	15° ≈ 30′01	18°26'20	asc. node	13657 Jan 24 13:38	26° る 39'35	
	13656 Feb 23 01:08	0°) €		morning max el	13657 Jan 25 23:48	27° る 56'19	19°18'02
morning set	13656 Feb 28 20:23	10° ¥ 50′11			13657 Jan 27 22:16	0° ≈	
				morning set	13657 Feb 11 21:43	25°≈16'16	
superior conj	13656 Mar 08 23:49	28° ₩ 08'16	0°20'20		13657 Feb 14 06:30	0° ∀	
minimum elong	13656 Mar 09 01:15	28°) 14'49	0°20'15		1265771 20 02 10	1101/2011	00.4012.7
JJ.	13656 Mar 10 00:12	0° Υ 2° Υ 44'58		superior conj	13657 Feb 20 02:10	11° X 30'11	0°49'37 0°49'38
desc. node max. Earth dist.	13656 Mar 11 12:37 13656 Mar 16 11:26	2° γ 44 58 11° Υ 27'47	1.40599 AU	minimum elong desc. node	13657 Feb 20 04:47 13657 Feb 26 09:06	11°) (42'52 23°) (20'10	0°49'38
evening rise	13656 Mar 20 19:50	18° Y 47'48	1.40399 AU	max. Earth dist.	13657 Feb 26 09:06 13657 Feb 26 18:06	23 X 20 10 24° X 01'01	1.38344 AU
evening rise	13656 Mar 27 19:32	0° 8		evening rise	13657 Mar 02 11:37	0° Υ 38'40	1.36344 AU
	13656 Apr 18 02:09	0°II		evening rise	13657 Mar 02 02:45	0° γ	
evening max el	13656 Apr 24 06:21	6°II55'10	23°32'21		13657 Mar 21 02:10	0°8	
retrograde	13656 May 04 23:53	13° Ⅱ 13'54		evening max el	13657 Apr 06 19:57	20° 8 48'00	24°51'38
asc. node	13656 May 05 12:50	13° Ⅱ 12'35		retrograde	13657 Apr 18 15:10	27° 8 40'35	
evening set	13656 May 10 04:28	11° Ⅱ 02'29		asc. node	13657 Apr 22 10:11	26° 8 38'09	
min. Earth dist.	13656 May 14 23:41	5° Ⅱ 24'24	0.68810 AU	evening set	13657 Apr 24 07:27	25° 8 17'44	
inferior conj	13656 May 15 13:55	4° Ⅱ 35'33	2°39'01	min. Earth dist.	13657 Apr 28 18:35	20° 8 15'57	0.68234 AU
minimum elong	13656 May 15 11:59		2°37'42	inferior conj	13657 Apr 29 21:24	18° 8 47'16	2°07'41
	13656 May 19 05:03	30° ₹ 8		minimum elong	13657 Apr 29 19:14	18° 8 54'25	2°06'22
morning rise	13656 May 20 19:27	28° 8 30'08		morning rise	13657 May 05 07:17	12° 8 50'40	
direct	13656 May 25 00:52	26° 8 49'56		direct	13657 May 09 00:38	11° 8 31'10	1000 4100
	13656 May 31 14:34	0°II	20042107	morning max el	13657 May 16 06:30	15° 8 31'13	19°34'30
morning max el desc. node	13656 Jun 02 04:58 13656 Jun 07 14:16	1° Ⅱ 29'18 7° Ⅱ 39'04	20°42'07	desc. node	13657 May 25 11:08	26° 8 57'52 0° Ⅱ	
desc. node	13656 Jun 23 09:45	0°95		greatest brilliancy	13657 May 27 14:04 13657 May 28 21:45	0 H 1°∏55'29	-0.6m
morning set	13656 Jul 01 19:06	12° © 47'46		morning set	13657 Jun 10 20:38	21° Ⅱ 29'02	-0.0111
max. Earth dist.	13656 Jul 10 03:55		1.43510 AU	morning set	13657 Jun 16 08:57	0°95	
	13656 Jul 12 14:40	0° Ω		max. Earth dist.	13657 Jun 22 18:02	9° 5 59'03	1.44965 AU
superior conj	13656 Jul 16 20:11	6° Ω 59'19	-1°52'21	superior conj	13657 Jun 27 01:57	16°952'01	-2°10'52
minimum elong	13656 Jul 17 03:23	7° Ω 29'24	1°52'37	minimum elong	13657 Jun 27 05:45	17° © 07'12	2°11'47
evening rise	13656 Jul 29 00:45	28° Ω 00′13			13657 Jul 05 03:59	0 $^{\circ}\Omega$	
	13656 Jul 30 03:56	0° m		evening rise	13657 Jul 11 00:41	9° Ω 44'55	
asc. node	13656 Aug 01 12:17	4° ™ 07'38		asc. node	13657 Jul 19 09:00	23° Ω 36′56	
evening max el	13656 Aug 14 17:16	23° m 56'25	18°02'41		13657 Jul 23 11:32	0° m/y	
retrograde	13656 Aug 21 06:59	27° m 19'49		evening max el	13657 Jul 29 07:39	7° m/22'48	18°10'27
evening set	13656 Aug 23 18:57	26° Mp 50'04	1012100	retrograde	13657 Aug 04 16:12	10° Mp 43'49	
inferior conj minimum elong	13656 Aug 30 10:12 13656 Aug 30 12:10	21° Mp 46'21 21° Mp 41'29	1°12'08 1°11'11	evening set inferior conj	13657 Aug 07 12:31 13657 Aug 13 14:20	10° Mp 00'44 4° Mp 39'27	2°08'06
min. Earth dist.	13656 Sep 02 11:45	18° m) 45'46	0.61361 AU	minimum elong	13657 Aug 13 14:20 13657 Aug 13 16:49	4° m) 32'30	2°06'53
desc. node	13656 Sep 03 11:40	17° m 51'03	0.01301 AC	min. Earth dist.	13657 Aug 16 04:20	1° Mg 47'42	0.63561 AU
morning rise	13656 Sep 06 02:43	15° Mp 46'53		mm. Latur dist.	13657 Aug 17 22:43	30°RΩ	0.05501710
direct	13656 Sep 12 18:21	13° m ₂ 31'17		morning rise	13657 Aug 19 19:20	28° Ω 23'44	
morning max el	13656 Sep 26 23:18	21° m) 28'22	27°58'21	desc. node	13657 Aug 21 09:09	27° Ω 19'28	
-	13656 Oct 04 09:59	0∘ <u>⊽</u>		direct	13657 Aug 26 10:45	25° Ω 51'22	
	13656 Oct 23 10:48	0° M			13657 Sep 05 00:52	0° m	
asc. node	13656 Oct 28 14:17	9°M58'56		morning max el	13657 Sep 09 08:24	3° M 52'26	27°44'27
morning set	13656 Oct 30 08:36	13°M25'13			13657 Sep 28 23:15	0∘ ⊽	
max. Earth dist.	13656 Nov 05 00:47	25°M43'26	1.31505 AU	morning set	13657 Oct 14 03:16	27° ≙ 17'05	
				asc. node	13657 Oct 15 10:57	29° Ω 56'59	
superior conj	13656 Nov 06 16:29	29°M22'19	1°17'08		13657 Oct 15 11:32	0°M	
minimum elong	13656 Nov 06 14:19	29°M10'20	1°17'41	max. Earth dist.	13657 Oct 19 01:32	7° M 27'26	1.32357 AU
	13656 Nov 06 23:17	0° √ 1 149. 7 110115		·	12(57.0 + 21.22.27	120 m 42120	0050145
evening rise	13656 Nov 13 09:34	14° ∡ 10′15		superior conj	13657 Oct 21 23:37	13°M43'39	U-38.43

minimum elong	13657 Oct 21 21:22	13°MJ31'27	0°59'01	minimum elong	13658 Oct 05 23:34	27° £ 37'01	0°34'53
evening rise	13657 Oct 28 20:43	28°M42'30			13658 Oct 07 02:40	0°M₊	
0.0000	13657 Oct 29 11:12	0° ⊼ ⊓		evening rise	13658 Oct 13 07:02	13°ML10'02	
	13657 Nov 15 08:55	0°ెవ		8	13658 Oct 21 18:59	0° ⊼	
desc. node	13657 Nov 17 05:31	2° る 21'03		evening max el	13658 Nov 02 15:08	16° ∡ ³37'25	21°41'39
evening max el	13657 Nov 21 02:06	6° る 32'59	23°21'39	desc. node	13658 Nov 04 02:49	18°×700'07	21 1139
retrograde	13657 Dec 04 10:24	13° る 11'14	23 21 37	retrograde	13658 Nov 14 23:19	22° × ⁷ 44'43	
evening set	13657 Dec 08 19:32	12° る 29'31		evening set	13658 Nov 17 23:18	22° × ⁷ 24'22	
min. Earth dist.	13657 Dec 15 12:05		0.55165 AU	inferior conj	13658 Nov 26 18:39	18°×730'44	-5°42'15
inferior conj	13657 Dec 17 01:34	8° る 25'55		minimum elong	13658 Nov 26 12:21	18° ∡ 39'34	
minimum elong	13657 Dec 17 04:09	8° る 22'10		min. Earth dist.	13658 Nov 26 18:15		0.54512 AU
morning rise	13657 Dec 25 14:25	4°₹34'35	3 33 23	morning rise	13658 Dec 05 02:16	14° 🗷 42'48	0.54512710
direct	13657 Dec 28 10:10	4°る15'26		direct	13658 Dec 08 18:54	14°× 13'02	
morning max el	13658 Jan 08 10:16	9°る31'03	20°32'52	morning max el	13658 Dec 21 06:31	20°×12'20	22°08'52
asc. node	13658 Jan 11 10:54	12°る47'39	20 32 32	asc. node	13658 Dec 29 08:04	0°る04'01	22 00 32
asc. node	13658 Jan 22 05:44	0°≈		asc. node	13658 Dec 29 06:59	0 So-101	
morning set	13658 Jan 27 04:54	9° ≈ 55'59		morning set	13659 Jan 11 15:24	24°る41'08	
morning set	13030 Juli 27 04.34) ~ 333)		morning set	13659 Jan 14 03:23	0°≈	
superior conj	13658 Feb 03 17:13	25°≈26'30	1°11'50		13039 Jan 14 03.23	0 ~	
minimum elong	13658 Feb 03 19:52	25°≈39'56	1°12'10	superior conj	13659 Jan 18 17:14	9° ≈ 45'32	1°27'05
minimum ciong	13658 Feb 05 13:32	25 ≈ 3930	1 12 10	minimum elong	13659 Jan 18 19:13	9°≈55'59	1°27'46
max. Earth dist.	13658 Feb 09 01:54	6° ∺ 03'30	1.36161 AU	max. Earth dist.	13659 Jan 22 15:13	17°≈53'36	1.34259 AU
evening rise	13658 Feb 12 22:09	13° ¥ 16'57	1.30101 AU		13659 Jan 26 23:51	17 ≈33 36 26°≈32'29	1.34239 AU
desc. node	13658 Feb 13 05:40	13° ¥ 51′20		evening rise	13659 Jan 28 19:27	20 ≈ 32 29 0° ∺	
desc. Hode	13658 Feb 22 14:23	13 γ (3120		desc. node	13659 Jan 31 02:16	4°) 13'37	
	13658 Mar 16 00:32	0°8		desc. Hode	13659 Feb 15 23:12	4 γ (1337	
avaning may al	13658 Mar 20 09:24		26°02'19	ovening may al	13659 Mar 02 23:01	0 1 18° Υ 20'11	26°57'11
evening max el		11° 8 54'22	20 02 19	evening max el	13659 Mar 16 06:48	25° Υ 46'55	20 3/11
retrograde	13658 Apr 02 01:45	9° 8 24'02		retrograde	13659 Mar 22 19:35	23 Υ 46 33 23° Υ 14'39	
evening set	13658 Apr 08 05:07	8° 8 24'33		evening set		23 1 14 39 19° Υ 21'41	0.65791 AU
asc. node	13658 Apr 09 07:34	4° 8 57'33	0.67219 AU	min. Earth dist. asc. node	13659 Mar 26 18:49	19° Y 21'41 18° Y 52'49	0.65/91 AU
min. Earth dist.	13658 Apr 12 09:39	2° 8 54'54	1°25'47		13659 Mar 27 05:00	16° Y 53'00	0°32'43
inferior conj minimum elong	13658 Apr 14 00:59 13658 Apr 13 23:07	3° 8 00'43		inferior conj minimum elong	13659 Mar 28 22:25 13659 Mar 28 21:33	16 Υ 55 00 16° Υ 55'31	0°32'11
minimum ciong	13658 Apr 16 11:38	30°R Y	1 24 40	morning rise	13659 Apr 04 00:56	10 γ 33 31 11° Υ 18'18	0 32 11
morning rise	13658 Apr 19 17:52	27° Υ '08'21		direct	13659 Apr 04 00:30	10° Υ 34'20	
direct	13658 Apr 23 00:01	26° Υ '08'01		morning max el	13659 Apr 13 05:46	13° Y 54'25	18°07'00
morning max el	13658 Apr 29 15:21	29° Υ 41'46	18°42'23	morning max er	13659 Apr 24 22:16	0°8	10 07 00
morning max or	13658 Apr 29 22:43	0°8	10 12 23	desc. node	13659 Apr 29 04:36	6° 8 50'37	
desc. node	13658 May 12 07:54	16° 8 44'15		morning set	13659 May 01 23:53	11° 8 22'48	
	13658 May 20 21:09	0°II			13659 May 13 14:58	0°II	
morning set	13658 May 21 09:10	0° Ⅱ 46'53				-	
max. Earth dist.	13658 Jun 05 12:07	24° Ⅱ 22'51	1.45741 AU	superior conj	13659 May 16 22:41	5° Ⅱ 13'51	-1°51'41
				minimum elong	13659 May 16 13:49	4° Ⅱ 39'02	
superior conj	13658 Jun 06 13:45	26° Ⅲ 03′04	-2°11'16	max. Earth dist.	13659 May 19 07:52		1.45776 AU
minimum elong	13658 Jun 06 10:00	25° Ⅱ 48'25	2°12'12		13659 Jun 01 20:55	0 \circ \odot	
	13658 Jun 09 02:17	0 \circ \odot		evening rise	13659 Jun 02 01:06	0°516'11	
evening rise	13658 Jun 22 00:24	20° © 27'48		greatest brilliancy	13659 Jun 14 07:35	19° 5 04'13	-0.7m
	13658 Jun 27 23:34	0 $^{\circ}\Omega$			13659 Jun 22 01:15	0 $^{\circ}\Omega$	
greatest brilliancy	13658 Jun 28 18:59	1° Ω 17'12	-0.9m	asc. node	13659 Jun 23 02:40	1° Ω 19'52	
asc. node	13658 Jul 06 05:47	12° Ω 43'33		evening max el	13659 Jun 26 05:10	4° Ω 48'44	19°18'42
evening max el	13658 Jul 12 20:24	21° Ω 02'07	18°36'07	retrograde	13659 Jul 03 05:58	8° Ω 44'01	
retrograde	13658 Jul 19 08:58	24° Ω 34'04		evening set	13659 Jul 06 20:11	7° Ω 29'00	
evening set	13658 Jul 22 13:57	23° Ω 35'38		inferior conj	13659 Jul 12 06:02		3°05'12
inferior conj	13658 Jul 28 06:04	17° Ω 58'55	2°44'43	minimum elong	13659 Jul 12 07:10	1° Ω 34'40	3°04'08
minimum elong	13658 Jul 28 08:06	17° Ω 52'41	2°43'34	min. Earth dist.	13659 Jul 13 15:35	29° © 48'49	0.67051 AU
min. Earth dist.	13658 Jul 30 06:06		0.65496 AU		13659 Jul 13 12:08	30° ₹ 5	
morning rise	13658 Aug 03 01:11	11° Ω 35'43		morning rise	13659 Jul 17 17:35	25° © 14'00	
desc. node	13658 Aug 08 06:37	9° Ω 01′00		direct	13659 Jul 23 18:52	22° © 36'06	
direct	13658 Aug 09 11:22	8° Ω 55'46		desc. node	13659 Jul 26 04:01	22° © 57'10	
morning max el	13658 Aug 22 19:29	16° Ω 48'21	26°57'56		13659 Aug 05 04:42	0 ° Ω	
	13658 Sep 02 18:47	0° m		morning max el	13659 Aug 05 06:22		25°47'21
	13658 Sep 21 19:56	0∘ ⊽			13659 Aug 27 16:24	0° ™	
morning set	13658 Sep 27 11:36	10° ≏ 28'19		morning set	13659 Sep 10 06:05	23° m 00'30	
max. Earth dist.	13658 Oct 01 17:03	18° ≏ 48'05	1.33743 AU		13659 Sep 13 23:53	0∘ ⊽	
asc. node	13658 Oct 02 07:31	20° ≏ 01'25		max. Earth dist.	13659 Sep 13 22:26	29° m 53'05	1.35623 AU
	10/50 0 0 0 0	0.50 C (-: -	0004::0	asc. node	13659 Sep 19 04:05	10° ≏ 08'35	
superior conj	13658 Oct 06 01:16	27° ≏ 45'56	0°34'49				

superior conj	13659 Sep 19 18:49	11° ≏ 22'48	0°05'47	max. Earth dist.	13660 Aug 25 21:14	11° M 06'21	1.37862 AU
minimum elong	13659 Sep 19 18:29	11° ≏ 21'03	0°05'48				
behind sun begin	13659 Sep 19 12:41	10° ჲ 51'52		superior conj	13660 Sep 02 00:55	24° m 25'33	-0°27'24
behind sun end	13659 Sep 20 00:16	11° ≏ 50'18		minimum elong	13660 Sep 02 02:47	24° m 34'33	0°27'16
evening rise	13659 Sep 27 14:30	27° ≏ 27'55			13660 Sep 04 21:43	0∘ ত	
	13659 Sep 28 20:11	0° M		asc. node	13660 Sep 05 00:39	0° ჲ 14'23	
evening max el	13659 Oct 15 16:00	27°M15'35	20°16'09	evening rise	13660 Sep 10 16:39	11° ≏ 29'20	
	13659 Oct 18 21:25	0° ∡ ¹			13660 Sep 20 16:45	0° M	
desc. node	13659 Oct 22 00:11	1° ∡ ¹43'42		evening max el	13660 Sep 27 07:03	8°M41'22	19°11'33
retrograde	13659 Oct 26 10:56	2° ҂ ³37'32		retrograde	13660 Oct 06 10:28	13°M16'11	
evening set	13659 Oct 28 13:27	2° ∡ °26′13		desc. node	13660 Oct 07 21:39	13°M09'35	
	13659 Nov 03 21:06	30°RM		evening set	13660 Oct 08 07:06	13° M 05'37	
inferior conj	13659 Nov 06 12:04	28° ™ 29'40		inferior conj	13660 Oct 16 19:22	8° ™ 54'02	
minimum elong	13659 Nov 06 01:58	28°M44'35	4°28'23	minimum elong	13660 Oct 16 12:13	9°M06'02	
min. Earth dist.	13659 Nov 08 01:33	27°M34'18	0.54798 AU	min. Earth dist.	13660 Oct 19 12:23	7° M 05′14	0.55971 AU
morning rise	13659 Nov 14 13:42	24°M25'43		morning rise	13660 Oct 24 14:44	4° ጤ 17'46	
direct	13659 Nov 19 05:01	23°M39'11		direct	13660 Oct 30 02:03	3° ™ 08'58	
	13659 Dec 02 10:08	0° ∡ ¹		morning max el	13660 Nov 13 03:49	10° ™ 17'47	25°41'24
morning max el	13659 Dec 02 17:25	0° √ 17'04 −	23°57'09		13660 Nov 28 01:53	0° ∡ ¹	
asc. node	13659 Dec 16 05:09	18° ∡ 13'00		asc. node	13660 Dec 02 02:09	7° ∡ ¹01'16	
	13659 Dec 22 14:02	0°ಕ		morning set	13660 Dec 10 14:44	24° ∡ ¹06'54	
morning set	13659 Dec 27 03:15	9° ප් 26'21			13660 Dec 13 07:34	0°ප	
superior conj	13660 Jan 02 23:19	24° る 19'12	1°35'43	superior conj	13660 Dec 17 09:09	9° ට 00'39	1°38'06
minimum elong	13660 Jan 03 00:18	24° る 24'28	1°36'41	minimum elong	13660 Dec 17 09:01	8° る 59'57	1°39'10
max. Earth dist.	13660 Jan 05 12:31	29° ප් 49'11	1.32771 AU	max. Earth dist.	13660 Dec 18 16:42	11° る 55'08	1.31752 AU
	13660 Jan 05 14:32	0°≈		evening rise	13660 Dec 24 11:37	24° る 22'15	
evening rise	13660 Jan 10 13:21	10° ≈ 16'46			13660 Dec 27 05:51	0° ≈	
desc. node	13660 Jan 17 22:58	24° ≈ 22'15		desc. node	13661 Jan 03 19:45	14° ≈ 11'15	
	13660 Jan 21 04:14	0°)			13661 Jan 13 19:26	0°)	
	13660 Feb 11 18:57	0° Y		evening max el	13661 Jan 25 21:59	14°) €31'21	27°30'42
evening max el	13660 Feb 13 11:57	1° Y '42'03	27°28'49	retrograde	13661 Feb 08 19:41	21°) 52′25	
retrograde	13660 Feb 27 05:07	9° Y ′09'12		evening set	13661 Feb 15 17:25	19° ¥ 36′51	
evening set	13660 Mar 05 00:34	6° Y 41'35		min. Earth dist.	13661 Feb 19 11:36	16° ¥ 40'11	0.61967 AU
min. Earth dist.	13660 Mar 08 20:04	3° Y 19'18	0.64011 AU	inferior conj	13661 Feb 22 11:50	13° ¥ 52'53	-1°47'22
inferior conj	13660 Mar 11 11:04	0° Ƴ 34'56	-0°31'55	minimum elong	13661 Feb 22 15:34	13°) 44′13	1°45'29
minimum elong	13660 Mar 11 12:03	0° Υ 32'21	0°31'25	asc. node	13661 Feb 27 23:58	9°) 33'48	
	13660 Mar 12 00:28	30° ₹ ₩		morning rise	13661 Mar 01 16:33	8°) 49′43	
asc. node	13660 Mar 13 02:28	28° ¥ 54'15		direct	13661 Mar 03 21:35	8° ¥ 28′00	
morning rise	13660 Mar 18 01:43	25° ¥ 14′26		morning max el	13661 Mar 10 16:26	11° ¥ 54′03	17°48'20
direct	13660 Mar 20 13:22	24°) 43′24			13661 Mar 22 21:40	0° Y	
morning max el	13660 Mar 26 23:08	28° ∺ 01'14	17°48'48	morning set	13661 Mar 26 11:21	6° Ƴ 19'14	
	13660 Mar 28 19:08	0° Y		desc. node	13661 Apr 01 21:45	17° Ƴ 40'35	
morning set	13660 Apr 12 18:23	23° Y 19'07					
desc. node	13660 Apr 15 01:13	27° Y °10'53		superior conj	13661 Apr 06 19:24	26° Y ′05'27	-0°37'53
	13660 Apr 16 17:24	9° 8		minimum elong	13661 Apr 06 15:47	25° Y '50'10	0°37'41
					13661 Apr 09 03:18	0° ႘	
superior conj	13660 Apr 25 21:28	15° 8 06'47	-1°17'36	max. Earth dist.	13661 Apr 13 19:57	7° 8 42'17	1.43715 AU
minimum elong	13660 Apr 25 13:43	14° 8 35'30	1°17'19	evening rise	13661 Apr 21 04:00	19° 8 19'46	
max. Earth dist.	13660 May 01 03:18	23° 8 29'33	1.45077 AU		13661 Apr 28 03:42	Π °0	
	13660 May 05 06:47	Π $^{\circ}0$			13661 May 19 22:42	0 \circ \mathfrak{S}	
evening rise	13660 May 11 12:58	9° Ⅲ 39'48		evening max el	13661 May 22 05:56	2° 5 27'42	21°26'56
	13660 May 25 02:10	0 \circ \mathfrak{s}		asc. node	13661 May 26 20:49	6°9516'12	
evening max el	13660 Jun 08 08:27	18° © 37'53	20°16'35	retrograde	13661 May 31 03:20	7° 5 39'20	
asc. node	13660 Jun 08 23:40	19° 5 015'06		evening set	13661 Jun 04 14:04	5° 5 50'42	
retrograde	13660 Jun 16 04:42	23° © 07'26		inferior conj	13661 Jun 09 20:04	29° Ⅲ 36′10	3°07'34
evening set	13660 Jun 20 04:51	21° © 35'24		minimum elong	13661 Jun 09 19:13	29° Ⅱ 39'09	3°06'26
inferior conj	13660 Jun 25 11:28	15° © 32'04	3°12'12		13661 Jun 09 13:14	30°RⅡ	
minimum elong	13660 Jun 25 11:35	15° © 31'43	3°11'09	min. Earth dist.	13661 Jun 10 01:56	29° Ⅱ 15'43	0.68790 AU
min. Earth dist.	13660 Jun 26 06:52	14° © 25'53	0.68159 AU	morning rise	13661 Jun 15 00:09	23° Ⅱ 19'46	
morning rise	13660 Jun 30 17:59	9° 5 0'31		direct	13661 Jun 20 01:31	21° Ⅱ 08′24	
direct	13660 Jul 06 07:56	6°5942'56		desc. node	13661 Jun 28 22:33	25° Ⅱ 56′05	
desc. node	13660 Jul 12 01:21	8° 5 344'19		morning max el	13661 Jun 30 03:41	27° Ⅱ 06'55	22°52'45
morning max el	13660 Jul 17 16:35	13° © 31'13	24°22'23		13661 Jul 02 20:16	0 \circ \odot	
	13660 Jul 31 01:11	$0^{\circ}\Omega$			13661 Jul 24 15:10	$0^{\circ}\Omega$	
	13660 Aug 19 12:21	0° m		morning set	13661 Aug 03 07:55	15° Ω 24'15	
morning set	13660 Aug 22 06:19	4° Mp 42′26		max. Earth dist.	13661 Aug 07 20:04	22° Ω 57'50	1.40223 AU

	13661 Aug 11 21:15	0° m)			13662 Jul 17 11:37	$0^{\circ}\Omega$	
				max. Earth dist.	13662 Jul 20 23:40	5° Ω 41'07	1.42417 AU
superior conj	13661 Aug 15 15:34	6° m 45'10					
minimum elong	13661 Aug 15 20:14	~	1°02'19	superior conj	13662 Jul 28 10:18	18° Ω 11'52	
asc. node	13661 Aug 22 21:14	20° Mp 15'35		minimum elong	13662 Jul 28 17:17	18° Ω 41'58	1°35'59
evening rise	13661 Aug 25 10:28	25°№07'03 0° <u>₽</u>		ovening rise	13662 Aug 04 03:17	0° т) 8° т) 10'54	
evening max el	13661 Aug 28 00:17 13661 Sep 10 09:49	0 <u>≈</u> 20° <u>≈</u> 52'57	18°28'44	evening rise asc. node	13662 Aug 08 15:58 13662 Aug 09 17:52	10° Mp 08'24	
retrograde	13661 Sep 18 05:02	20 ⊆ 32 37 24° ⊆ 49'34	16 26 44	asc. node	13662 Aug 21 16:23	0° ⊡	
evening set	13661 Sep 20 05:02	24° △ 34'45		evening max el	13662 Aug 24 20:14	ა _ 3° _ 42'02	18°06'37
desc. node	13661 Sep 24 19:10	22° Ω 24'18		retrograde	13662 Aug 31 17:45	7° ₽ 13'37	10 0007
inferior conj	13661 Sep 27 23:46	20° ჲ 02'43	-1°00'40	evening set	13662 Sep 03 00:55	6° ჲ 50'27	
minimum elong	13661 Sep 27 21:24	20° ჲ 07'22	0°59'28	inferior conj	13662 Sep 10 01:32	1° ≏ 58'02	0°29'58
min. Earth dist.	13661 Oct 01 05:37	17° ≏ 30'39	0.57818 AU	minimum elong	13662 Sep 10 02:29	1° ≏ 55'50	0°29'32
morning rise	13661 Oct 05 10:17	14° ≏ 48'39		desc. node	13662 Sep 11 16:41	0° ≏ 27'58	
direct	13661 Oct 11 13:06	13° ₽ 13'10			13662 Sep 12 04:57	30° ₽, M)	
morning max el	13661 Oct 25 20:30	20° ≏ 46'50	27°03'02	min. Earth dist.	13662 Sep 13 07:22	29° m 01'15	0.60033 AU
_	13661 Nov 02 20:20	0° ™		morning rise	13662 Sep 17 00:50	26° Mp 11'59	
asc. node	13661 Nov 18 23:02	26°M18'10		direct	13662 Sep 23 13:36	24° Mp 09'30	
	13661 Nov 20 20:07	0° ∡¹			13662 Oct 05 16:55	0° 亞	27940125
morning set	13661 Nov 25 00:01	8° ∡ '37'20		morning max el	13662 Oct 07 21:01 13662 Oct 28 05:49	2° ♀ 01'17 0° ル	21~49.25
superior conj	13661 Dec 01 20:37	23° ∡ ¹43'17	1°34'32	asc. node	13662 Nov 05 19:49	บาแน 15° M 55'58	
minimum elong	13661 Dec 01 19:29	23° x 36'58	1°35'30	morning set	13662 Nov 09 05:19	22°ML53'19	
max. Earth dist.	13661 Dec 02 00:35	24°×705'29	1.31237 AU	morning set	13662 Nov 12 13:00	0° √	
man. Darun dist.	13661 Dec 04 16:14	0°ਰ	1.5125 / 110	max. Earth dist.	13662 Nov 15 08:35		1.31249 AU
evening rise	13661 Dec 08 16:05	8° る 41'39				* * -=	
C	13661 Dec 19 14:57	0° ≈		superior conj	13662 Nov 16 07:55	8° ∡ ′22'09	1°25'09
desc. node	13661 Dec 21 16:39	3° ≈ 31'51		minimum elong	13662 Nov 16 06:02	8° ∡ 11'37	1°25'53
evening max el	13662 Jan 08 02:14	26° ≈ 34'24	26°58'29	evening rise	13662 Nov 23 00:39	23° ∡ 10′01	
	13662 Jan 12 04:24	0° ∀			13662 Nov 26 06:27	8°0	
retrograde	13662 Jan 22 01:22	3°) 46′49		desc. node	13662 Dec 08 13:39	22° る 13'14	
evening set	13662 Jan 28 18:40	1° ∺ 51'06			13662 Dec 14 01:16	0° ≈	
	13662 Jan 31 14:38	30°R≈		evening max el	13662 Dec 20 22:29	7° ≈ 44'41	25°52'25
min. Earth dist.	13662 Feb 01 16:24	29° ≈ 11'12		retrograde	13663 Jan 03 20:37	14° ≈ 47'05	
inferior conj	13662 Feb 04 21:02	26°≈36'09		evening set	13663 Jan 10 00:14	13°≈18'34	0.57(72.411
minimum elong morning rise	13662 Feb 05 03:55	26°≈22'11 21°≈53'26	3°07'16	min. Earth dist. inferior conj	13663 Jan 14 11:20 13663 Jan 17 11:10	10°≈41'21 8°≈35'12	0.57672 AU
direct	13662 Feb 12 16:19 13662 Feb 14 17:26	21°≈33′26 21°≈37′33		minimum elong	13663 Jan 17 11:10 13663 Jan 17 20:00	8°≈19'38	
asc. node	13662 Feb 14 21:26	21°≈37'39		morning rise	13663 Jan 25 18:37	6 ≈1938 4°≈14'29	4 20 39
morning max el	13662 Feb 22 06:09	25°≈22'17	18°06'40	direct	13663 Jan 27 20:30	4°≈00'50	
morning man vi	13662 Feb 26 03:22	0°) €	10 00 10	asc. node	13663 Feb 01 18:48	5°≈22'38	
morning set	13662 Mar 09 20:37	20°) €03'33		morning max el	13663 Feb 05 12:18	8° ≈ 14'42	18°45'36
C	13662 Mar 15 04:58	0° Y		C	13663 Feb 19 12:01	0° ∀	
				morning set	13663 Feb 21 17:12	4° ₩ 17'27	
superior conj	13662 Mar 19 16:51	8° Y 08'54	0°00'28				
minimum elong	13662 Mar 19 16:53	8° Y ′09'02	0°00'26	superior conj	13663 Mar 02 09:59	21° 米 05′52	0°33'35
behind sun begin	13662 Mar 19 09:11	7° Y ′34'42		minimum elong	13663 Mar 02 12:05	21° 米 15′46	0°33'30
behind sun end	13662 Mar 20 00:34	8° ℃ 43'17		desc. node	13663 Mar 06 14:46	28°) 51'14	
desc. node	13662 Mar 19 18:15	8°Υ15'12	1 41000 177	F 4 F	13663 Mar 07 06:00	0° Υ	1 200 (12 1 1 1 1
max. Earth dist.	13662 Mar 27 07:48	21° Υ 19'41	1.41833 AU	max. Earth dist.	13663 Mar 09 15:06	4°Υ13'45	1.39643 AU
evening rise	13662 Apr 01 10:46 13662 Apr 01 14:38	29° Y 44'26 0° と		evening rise	13663 Mar 13 14:33 13663 Mar 25 10:59	11° 个 04'44 0° と	
	13662 Apr 21 16:23	0°II			13663 Apr 17 08:55	0°II	
evening max el	13662 May 04 22:39	0 Ⅱ 16°Ⅱ17'40	22°45'33	evening max el	13663 Apr 17 12:45	0° П 09'33	24°06'38
asc. node	13662 May 13 18:03	22° I I06'20	22 43 33	retrograde	13663 Apr 28 17:56	6° Ⅱ 44'36	24 00 30
retrograde	13662 May 15 00:11	22° Ⅱ 13'32		asc. node	13663 Apr 30 15:21	6° Ⅱ 28'37	
evening set	13662 May 19 22:08	20° Ⅱ 09'43		evening set	13663 May 04 03:25	4° Ⅲ 27'55	
inferior conj	13662 May 25 05:44	13° Ⅱ 46'13	2°52'22	ū	13663 May 08 02:35	30° ₹ 8	
minimum elong	13662 May 25 04:07	13° Ⅱ 51'52	2°51'07	min. Earth dist.	13663 May 08 18:58	29° 8 05'09	0.68619 AU
min. Earth dist.	13662 May 24 22:41	14° Ⅱ 10'44	0.68937 AU	inferior conj	13663 May 09 14:34	27° 8 58'41	2°26'59
morning rise	13662 May 30 09:59	7° Ⅱ 36′26		minimum elong	13663 May 09 12:29	28° 8 05'45	2°25'39
direct	13662 Jun 03 22:30	5° Ⅱ 44'37		morning rise	13663 May 14 21:37	21° 8 56'42	
morning max el	13662 Jun 12 18:30		21°26'58	direct	13663 May 18 21:43	20° 8 25'30	
desc. node	13662 Jun 15 19:36	14° Ⅱ 09'37		morning max el	13663 May 26 15:39	24° 8 47'08	20°11'27
. ,	13662 Jun 27 18:30	0°©			13663 May 31 06:13	0°II	
morning set	13662 Jul 14 08:37	25° © 01'27		desc. node	13663 Jun 02 16:33	3° Ⅱ 08′20	

	13663 Jun 21 02:02	0° ©			13664 Jun 12 21:40	0° ©	
morning set	13663 Jun 23 13:47	3° © 49'14		max. Earth dist.	13664 Jun 15 01:39	3° © 23'35	1.45387 AU
max. Earth dist.	13663 Jul 03 09:37	19° © 12'50	1.44201 AU	max. Earth dist.	1300 (3411 13 01.3)	J -2 333	1.10507 110
		-,,		superior conj	13664 Jun 18 02:36	8° © 10'49	-2°13'32
superior conj	13663 Jul 09 05:36	28° © 38'21	-2°02'04	minimum elong	13664 Jun 18 03:25	8° 5 014'03	2°14'34
minimum elong	13663 Jul 09 12:00	29° © 04'38	2°02'38		13664 Jul 01 16:04	$0^{\circ}\Omega$	
_	13663 Jul 10 01:30	$0^{\circ}\Omega$		evening rise	13664 Jul 02 18:07	1° Ω 46'42	
evening rise	13663 Jul 22 04:09	20° Ω 27'40		asc. node	13664 Jul 13 11:16	19° Ω 08'24	
asc. node	13663 Jul 27 14:32	29° Ω 47'42			13664 Jul 21 12:08	0° m	
	13663 Jul 27 17:26	0° ™		evening max el	13664 Jul 22 00:23	0° ™ 31'09	18°19'14
evening max el	13663 Aug 08 10:14	16° m 57'39	18°03'48	retrograde	13664 Jul 28 09:24	3° m 54'48	
retrograde	13663 Aug 14 20:39	20° Mp 18'19		evening set	13664 Jul 31 09:28	3°m,05'17	
evening set	13663 Aug 17 12:05	19° m 43'17			13664 Aug 04 03:38	30°R Ω	
inferior conj	13663 Aug 23 21:11	14° m/32'09	1°38'26	inferior conj	13664 Aug 06 06:43	27° Ω 37'22	
minimum elong	13663 Aug 23 23:32	14° Mp 26'01	1°37'19 0.62320 AU	minimum elong	13664 Aug 06 09:06	27° Ω 30'26	2°24'34
min. Earth dist. desc. node	13663 Aug 26 18:26 13663 Aug 29 14:12	11° Mp 32'41 8° Mp 59'26	0.62320 AU	min. Earth dist. morning rise	13664 Aug 08 14:58 13664 Aug 12 07:18	24°Ω54'46 21°Ω17'50	0.64435 AU
morning rise	13663 Aug 30 08:40	8° Mp 24'34		desc. node	13664 Aug 15 11:41	$19^{\circ}\Omega 21'48$	
direct	13663 Sep 06 01:02	6° My 00'21		direct	13664 Aug 18 21:12	$18^{\circ} \Omega 40'57$	
morning max el	13663 Sep 20 03:30	14° Mp 01'05	27°56'46	morning max el	13664 Sep 01 13:32	26° Ω 39'24	27°28'02
morning man vi	13663 Oct 03 01:12	0∘ ⊽	2, 50 .0	morning man vi	13664 Sep 04 16:28	0° m)	2, 20 02
	13663 Oct 20 18:30	0°M₊			13664 Sep 25 16:22	0∘ <u>⊽</u>	
asc. node	13663 Oct 23 16:31	5° M 47'51		morning set	13664 Oct 06 19:06	20° ≙ 18'07	
morning set	13663 Oct 24 04:30	6° M 48'51		asc. node	13664 Oct 09 13:09	25° ≏ 48'58	
max. Earth dist.	13663 Oct 29 12:47	18°M05'25	1.31798 AU	max. Earth dist.	13664 Oct 11 09:48	29° ჲ 38'51	1.32889 AU
					13664 Oct 11 13:51	0° M	
superior conj	13663 Oct 31 17:08	22°M51'15	1°10'02				
minimum elong	13663 Oct 31 14:51	22°M38'47	1°10'27	superior conj	13664 Oct 14 22:13	7° ™ 05'09	0°49'15
	13663 Nov 03 22:53	0° ∡ ¹		minimum elong	13664 Oct 14 20:07	6°M53'53	0°49'25
evening rise	13663 Nov 07 11:22	7° ∡ 741'51		evening rise	13664 Oct 21 22:23	22°M12'34	
daga mada	13663 Nov 18 21:32	0°る 10°る00'09		daga mada	13664 Oct 25 15:54	0° 🔏 26° ⋅₹22155	
desc. node evening max el	13663 Nov 25 10:45 13663 Dec 02 11:00	10° ろ 00'09	24°20'23	desc. node evening max el	13664 Nov 11 07:58 13664 Nov 12 21:11	26° ₹ 32'55 28° ₹ 08'26	22°38'01
retrograde	13663 Dec 16 03:11	18 3 07 30 24° る 56'42	24 20 23	evening max er	13664 Nov 14 22:42	28 × 08 20 0°る	22 3801
evening set	13663 Dec 21 06:22	23°る58'55		retrograde	13664 Nov 25 20:44	4°る34'43	
min. Earth dist.	13663 Dec 26 22:38	21° る 06'44	0.55906 AU	evening set	13664 Nov 29 15:26	4° る 03'33	
inferior conj	13663 Dec 29 04:26	19° ප් 43'51	-5°35'49	min. Earth dist.	13664 Dec 07 05:19	0° る 37'55	0.54782 AU
minimum elong	13663 Dec 29 11:02	19° る 33'39	5°33'51	inferior conj	13664 Dec 08 03:43	0°₹06'14	-5°56'51
morning rise	13664 Jan 06 17:39	15° ප් 43'15		minimum elong	13664 Dec 08 02:26	0° る 08'03	5°55'46
direct	13664 Jan 09 04:13	15° る 27'32			13664 Dec 08 08:08	30°₽ ₰	
morning max el	13664 Jan 19 06:47	20° る 19'29	19°47'04	morning rise	13664 Dec 16 14:44	26° ∡ 18′23	
asc. node	13664 Jan 19 16:05	20° る 42'22		direct	13664 Dec 19 19:07	25° ∡ ′55'14	
	13664 Jan 26 18:26	0° ≈			13664 Dec 29 18:20	0° ろ	
morning set	13664 Feb 05 21:20	18° ≈ 49'52		morning max el	13664 Dec 31 10:48	1° る 29'36	21°11'29
	13664 Feb 11 09:28	0° ∺		asc. node	13665 Jan 05 13:20	7° る 21'10	
superior conj	13664 Feb 13 18:11	4°) 43'19	0°59'54	morning set	13665 Jan 18 13:04 13665 Jan 20 06:10	0° ≈ 3° ≈ 32'21	
minimum elong	13664 Feb 13 20:56	4° X 56'54	1°00'02	morning set	13003 Jan 20 00.10	3 ~ 32 21	
max. Earth dist.	13664 Feb 19 21:20	16° X 30'18	1.37390 AU	superior conj	13665 Jan 27 13:23	18° ≈ 49'43	1°19'08
desc. node	13664 Feb 21 11:18	19° ¥ 25'11		minimum elong	13665 Jan 27 15:48	19° ≈ 02'16	1°19'38
evening rise	13664 Feb 23 14:43	23°) 17′00		max. Earth dist.	13665 Feb 01 07:18	28° ≈ 25'59	1.35307 AU
-	13664 Feb 27 11:19	0° Y			13665 Feb 02 02:27	0° ∀	
	13664 Mar 18 05:06	9° 8		evening rise	13665 Feb 05 08:07	6°) 11'49	
evening max el	13664 Mar 30 02:19	14° 8 02'53	25°23'18	desc. node	13665 Feb 07 07:51	9° ¥ 52'48	
retrograde	13664 Apr 11 07:23	21° 8 06'45			13665 Feb 19 05:52	0° Y	
asc. node	13664 Apr 16 12:41	19° 8 11'49		evening max el	13665 Mar 12 16:05	27° Y ′51′17	26°28'10
evening set	13664 Apr 17 04:22	18° 8 40'28			13665 Mar 15 00:07	0°8	
min. Earth dist.	13664 Apr 21 12:37	13° 8 53'35	0.67850 AU	retrograde	13665 Mar 25 15:32	5° 8 12'15	
inferior conj	13664 Apr 22 20:41	12° 8 09'51	1°51'17	evening set	13665 Mar 31 23:11	2° 8 40'33	
minimum elong	13664 Apr 22 18:34	12° 8 16'41	1°50'01	asc. node	13665 Apr 03 10:06	0° 8 20'21	
morning rise direct	13664 Apr 28 09:11	6° 8 17'03 5° 8 05'52		min. Earth dist.	13665 Apr 03 17:34	30°₹ Υ 28° Υ 28'36	0.66657 AU
morning max el	13664 May 01 21:40 13664 May 08 20:21	8° 8 53'15	19°10'18	inferior conj	13665 Apr 05 01:24 13665 Apr 06 21:56	26° Υ 14'04	0.6665 / AU 1°04'43
desc. node	13664 May 19 13:24	22° 8 40'20	17 10 10	minimum elong	13665 Apr 06 20:24	26° Y 18'43	1°04'43
greatest brilliancy	13664 May 21 18:38	25° 8 57'05	-0.7m	morning rise	13665 Apr 12 18:35	20° Υ 32'13	1 03 7/
<i>J</i>	13664 May 24 11:12	0°П	-	direct	13665 Apr 15 20:27	19° Υ 39'02	
morning set	13664 Jun 01 17:30	12° Ⅲ 39'22		morning max el	13665 Apr 22 07:49	23° Y °05'13	18°25'20
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	12667.16 04 22 57	2201/20102	1002142		12660 F 1 15 10 22	(0)/ (0)07	2022107
inferior conj	13667 Mar 04 23:57	23° ₩ 38'03		inferior conj	13668 Feb 15 18:32	6° ¥ 42'07	
minimum elong	13667 Mar 05 02:00	23°) € 32'55	1°01'39	minimum elong	13668 Feb 15 23:36	6° ¥ 30'57	2°19'36
asc. node	13667 Mar 08 05:03	20°) 38'49		morning rise	13668 Feb 23 05:30	1°) 47′14	
morning rise	13667 Mar 11 20:26	18° ∺ 24'51		asc. node	13668 Feb 23 02:32	1°) 49′26	
direct	13667 Mar 14 04:56	17° ¥ 58′20		direct	13668 Feb 25 08:18	1° ∺ 28'33	
morning max el	13667 Mar 20 17:40	21° ∺ 18′28	17°46'24	morning max el	13668 Mar 03 09:52	5° 米 01'41	17°53'41
	13667 Mar 27 09:52	0 ° Υ		morning set	13668 Mar 19 00:28	29° ∺ 25′01	
morning set	13667 Apr 05 23:54	16° Ƴ 04'32			13668 Mar 19 08:11	0 ° Υ	
desc. node	13667 Apr 10 03:24	23° Y 13'07		desc. node	13668 Mar 26 23:55	13° Ƴ 44'53	
	13667 Apr 14 03:16	9° 8					
				superior conj	13668 Mar 29 16:15	18° Ƴ 25'38	-0°21'08
superior conj	13667 Apr 18 08:06	6° 8 59'13	-1°00'58	minimum elong	13668 Mar 29 14:21	18° Ƴ 17'25	0°21'03
minimum elong	13667 Apr 18 02:00	6° 8 34'08	1°00'39	_	13668 Apr 05 12:53	8° 0	
max. Earth dist.	13667 Apr 24 11:32	16° 8 55'55	1.44564 AU	max. Earth dist.	13668 Apr 06 01:48	0° ප 53'04	1.42963 AU
	13667 May 02 19:51	0° I I		evening rise	13668 Apr 12 08:39	10° 8 58'39	
evening rise	13667 May 03 12:07	1° Ⅱ 02'33		8	13668 Apr 24 21:38	0°II	
	13667 May 23 03:42	0ಂತಿ		evening max el	13668 May 14 14:10	25° I I40'42	21°59'50
evening max el	13667 Jun 01 18:54	11° © 51'03	20°45'14	evening man er	13668 May 19 23:14	0°99	21 0,00
asc. node	13667 Jun 04 02:05	13° © 57'12	20 43 14	asc. node	13668 May 20 23:15	0° © 29'56	
retrograde	13667 Jun 10 01:32	16°938'24		retrograde	13668 May 23 23:30	1° S 11'17	
evening set	13667 Jun 14 06:00	14°959'22		retrograde	13668 May 27 15:32	1 3 1117 30°R Ⅱ	
Č			2011125		•	29° Ⅱ 16'13	
inferior conj	13667 Jun 19 12:03	8°950'58	3°11'35	evening set	13668 May 28 14:52		2002122
minimum elong	13667 Jun 19 11:43	8°952'05	3°10'31	inferior conj	13668 Jun 02 21:18	22° ∏ 57'44	3°02'22
min. Earth dist.	13667 Jun 20 01:38	8°903'58	0.68477 AU	minimum elong	13668 Jun 02 20:06	23° I I01'58	3°01'12
morning rise	13667 Jun 24 17:10	2° © 31'06		min. Earth dist.	13668 Jun 02 21:43	22° Ⅱ 56'19	0.68906 AU
direct	13667 Jun 30 01:48	0° © 09'45		morning rise	13668 Jun 08 01:07	16° Ⅱ 43'52	
desc. node	13667 Jul 07 03:47	3° © 14'48		direct	13668 Jun 12 21:05	14° Ⅱ 40'16	
morning max el	13667 Jul 10 21:58	6° ॐ 38'31	23°44'19	morning max el	13668 Jun 22 10:02	20° Ⅱ 16'42	22°15'22
	13667 Jul 29 01:46	$0^{\circ}\Omega$		desc. node	13668 Jun 23 00:56	20° Ⅱ 54'43	
morning set	13667 Aug 15 00:38	26° Ω 44'38			13668 Jun 30 15:53	0ංම	
	13667 Aug 16 22:18	0° m ∕			13668 Jul 21 06:28	$0^{\circ}\Omega$	
max. Earth dist.	13667 Aug 18 21:07	3° m 23'49	1.38861 AU	morning set	13668 Jul 25 15:32	6° Ω 58'11	
				max. Earth dist.	13668 Jul 30 21:10	15° Ω 35′03	1.41191 AU
superior conj	13667 Aug 26 10:04	17° m 06'47	-0°42'14				
minimum elong	13667 Aug 26 13:06	17° m 21'01	0°42'02	superior conj	13668 Aug 07 16:47	29° Ω 05′06	-1°17'14
asc. node	13667 Aug 31 02:54	26° Mp 06'20		minimum elong	13668 Aug 07 22:36	29° Ω 31′00	1°17'02
	13667 Sep 02 02:52	0∘ ত			-		
evening rise	13667 Sep 02 02:52 13667 Sep 04 12:28			asc. node	13668 Aug 08 05:06	0° m	
evening rise	13667 Sep 04 12:28	4° ≙ 41'39		asc. node	13668 Aug 08 05:06 13668 Aug 16 23:28	0° my 16° my 04'10	
-	13667 Sep 04 12:28 13667 Sep 19 16:11	4° 亞 41'39 0° ጤ	18°50'45	asc. node evening rise	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32	0° my 16° my 04'10 18° my 05'50	
evening max el	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58	4° 요 41'39 0° ጤ 1° ጤ 08'09	18°50'45	evening rise	13668 Aug 18 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39	0° m/ 16° m/04'10 18° m/05'50 0° <u>∩</u>	
evening max el retrograde	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33	4° <u>A</u> 41'39 0°M 1°M08'09 5°M25'03	18°50'45	evening rise evening max el	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34	0° m/ 16° m/04'10 18° m/05'50 0° Ω 13° Ω 37'12	18°16'56
evening max el retrograde evening set	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48	4° £ 41'39 0° ጤ 1° ጤ 08'09 5° ጤ 25'03 5° ጤ 13'17	18°50'45	evening rise evening max el retrograde	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59	0° Mp 16° Mp 04'10 18° Mp 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58	
evening max el retrograde evening set desc. node	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11	4° \(\Omega\)41'39 0° \(\mathreag{ML}\) 1° \(\mathreag{ML}\)08'09 5° \(\mathreag{ML}\)25'03 5° \(\mathreag{ML}\)13'17 4° \(\mathreag{ML}\)40'23		evening rise evening max el retrograde evening set	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58	0° Mp 16° Mp 04'10 18° Mp 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57	
evening max el retrograde evening set desc. node inferior conj	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06	4° \(\Omega\)41'39 0° \(\mathbb{M}\). 1° \(\mathbb{M}\).08'09 5° \(\mathbb{M}\).25'03 5° \(\mathbb{M}\).13'17 4° \(\mathbb{M}\).40'23 0° \(\mathbb{M}\).53'43	-2°01'14	evening rise evening max el retrograde evening set desc. node	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42	0° My 16° My 04'10 18° My 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57 13° Ω 14'12	18°16'56
evening max el retrograde evening set desc. node	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 09 04:02	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49	-2°01'14	evening rise evening max el retrograde evening set desc. node inferior conj	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49	0° My 16° My 04'10 18° My 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57 13° Ω 14'12 12° Ω 22'10	18°16'56 -0°19'41
evening max el retrograde evening set desc. node inferior conj minimum elong	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54	4° \(\Omega 41'39\) 0° \(\mathbb{M}\) 1° \(\mathbb{M}\).08'09 5° \(\mathbb{M}\).25'03 5° \(\mathbb{M}\).13'17 4° \(\mathbb{M}\).40'23 0° \(\mathbb{M}\).53'43 1° \(\mathbb{M}\).02'49 30° \(\mathbb{A}\)	-2°01'14 1°58'47	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06	0° ரு 16° ரு 04'10 18° ரூ 05'50 0° உ 13° உ37'12 17° உ20'58 17° உ02'57 13° உ14'12 12° உ22'10 12° உ23'40	18°16'56 -0°19'41 0°19'17
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$.\ 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{R}\$\Omega\$\\ 28° \$\Omega 44'22\\	-2°01'14	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04	0° My 16° My 04'10 18° My 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57 13° Ω 14'12 12° Ω 22'10 12° Ω 23'40 9° Ω 37'05	18°16'56 -0°19'41
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02	4° \$\Pi\$41'39 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09 5° \$\mathbb{M}\$.25'03 5° \$\mathbb{M}\$.13'17 4° \$\mathbb{M}\$.40'23 0° \$\mathbb{M}\$.53'43 1° \$\mathbb{M}\$.02'49 30° \$\mathbb{R}\$\$\Pi\$ 28° \$\Pi\$44'22 26° \$\Pi\$01'01	-2°01'14 1°58'47	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48	0° My 16° My 04'10 18° My 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57 13° Ω 14'12 12° Ω 22'10 12° Ω 23'40 9° Ω 37'05 6° Ω 53'46	18°16'56 -0°19'41 0°19'17
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$.\ 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$\Omega\$\\ 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\	-2°01'14 1°58'47	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55	0° M 16° M 04'10 18° M 05'50 0° Ω 13° Ω 37'12 17° Ω 20'58 17° Ω 02'57 13° Ω 14'12 12° Ω 22'10 12° Ω 23'40 9° Ω 37'05 6° Ω 53'46 5° Ω 06'19	18°16'56 -0°19'41 0°19'17 0.58741 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 12 09:35 13667 Oct 22 19:39 13667 Nov 03 18:30	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$.\ 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$.\ 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\ 0° \$\mathbb{M}\$.\	-2°01'14 1°58'47 0.56692 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25	0° M 16° M 04'10 18° M 05'50 0° \(\Omega\) 13° \(\Omega\) 37'12 17° \(\Omega\) 20'58 17° \(\Omega\) 02'57 13° \(\Omega\) 14'12 12° \(\Omega\) 22'10 12° \(\Omega\) 23'40 9° \(\Omega\) 37'05 6° \(\Omega\) 53'46 5° \(\Omega\) 06'19 12° \(\Omega\) 47'59	18°16'56 -0°19'41 0°19'17
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 12 09:35 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$\$\omega\$ 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\ 0° \$\mathbb{M}\$\$\$. 2° \$\mathbb{M}\$.01'48	-2°01'14 1°58'47	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07	0° M 16° M 04'10 18° M 05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° M	18°16'56 -0°19'41 0°19'17 0.58741 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09	4° \$\Pi441'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$. 28° \$\Pi44'22\\ 26° \$\Pi01'01\\ 24° \$\Pi40'53\\ 0° \$\mathbb{M}\$. 2° \$\mathbb{M}\$.01'48\\ 0° \$\mathbb{Z}\$	-2°01'14 1°58'47 0.56692 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23	0° m 16° m 04'10 18° m 05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° M 21° M 56'52	18°16'56 -0°19'41 0°19'17 0.58741 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 03 00:11 13667 Oct 09 09:06 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 12 09:35 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$. 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\ 0° \$\mathbb{M}\$. 2° \$\mathbb{M}\$.01'48\\ 0° \$\nall \text{2}'\text{2}'\text{3}0'23\\	-2°01'14 1°58'47 0.56692 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 17 00:32	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m 56'52 0° ズ	18°16'56 -0°19'41 0°19'17 0.58741 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.249\\ 30° \$\mathbb{A}\$. 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\ 0° \$\mathbb{M}\$. 2° \$\mathbb{M}\$.01'48\\ 0° \$\mathbb{A}\$'\\ 2° \$\mathbb{A}\$.30'23\\ 17° \$\mathbb{A}\$.39'09	-2°01'14 1°58'47 0.56692 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23	0° m 16° m 04'10 18° m 05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° M 21° M 56'52	18°16'56 -0°19'41 0°19'17 0.58741 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33	4° \$\Omega 41'39\\ 0° \$\mathbb{M}\$. 1° \$\mathbb{M}\$.08'09\\ 5° \$\mathbb{M}\$.25'03\\ 5° \$\mathbb{M}\$.13'17\\ 4° \$\mathbb{M}\$.40'23\\ 0° \$\mathbb{M}\$.53'43\\ 1° \$\mathbb{M}\$.02'49\\ 30° \$\mathbb{A}\$. 28° \$\Omega 44'22\\ 26° \$\Omega 01'01\\ 24° \$\Omega 40'53\\ 0° \$\mathbb{M}\$. 2° \$\mathbb{M}\$.01'48\\ 0° \$\nall \text{2}'\text{2}'\text{3}0'23\\	-2°01'14 1°58'47 0.56692 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 17 00:32	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° M 21° M.56'52 0° ズ 2° ズ 03'47	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23
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evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33 13667 Dec 04 16:11 13667 Dec 10 06:56 13667 Dec 11 11:05 13667 Dec 11 10:31 13667 Dec 12 06:34 13667 Dec 18 10:00 13667 Dec 24 12:07	4° £41'39 0° M. 1° M.08'09 5° M.25'03 5° M.13'17 4° M.40'23 0° M.53'43 1° M.02'49 30° R.£ 28° £44'22 26° £01'01 24° £40'53 0° M. 2° M.01'48 0° ⊀ 2° ₹30'23 17° ₹39'09 0° ♂ 2° ₹33'38 4° ₹25'15 17° ₹46'36 0° €	-2°01'14 1°58'47 0.56692 AU 26°19'40 1°37'18 1°38'21	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 03 12:55 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 17 00:32 13668 Nov 18 00:01 13668 Nov 24 22:43 13668 Nov 24 21:14 13668 Nov 24 14:58 13668 Nov 30 16:15 13668 Dec 01 16:30 13668 Dec 15 18:57	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m.56'52 0° ¾ 2° ¾03'47 17° ¾18'31 17° ¾10'11 16° ¾35'12 0° ♂ 2° ♂10'44 28° ♂53'50	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 10 14:54 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33 13667 Dec 04 16:11 13667 Dec 10 06:56 13667 Dec 11 11:05 13667 Dec 11 10:31 13667 Dec 12 06:34 13667 Dec 18 10:00 13667 Dec 24 12:07 13667 Dec 29 22:02	4° \$\Pi41'39 0° \$\mathbb{n}\$ 1° \$\mathbb{n}\$.08'09 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.23'43 1° \$\mathbb{n}\$.02'49 30° \$\mathbb{n}\$.26° \$\Pi40'53 0° \$\mathbb{n}\$.2° \$\mathbb{n}\$.01'48 0° \$\nall 2° \$\mathbb{n}\$.30'23 17° \$\nall 33'023 17° \$\nall 33'09 0° \$\nall 2° \$\mathbb{n}\$.31'38 4° \$\mathbb{n}\$.25'15 17° \$\mathbb{n}\$.46'36 0° \$\approx\$ 9° \$\approx 48'26	-2°01'14 1°58'47 0.56692 AU 26°19'40 1°37'18 1°38'21 1.31471 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 14 00:31 13668 Nov 17 00:32 13668 Nov 18 00:01 13668 Nov 24 22:43 13668 Nov 24 21:14 13668 Nov 24 14:58 13668 Nov 30 16:15 13668 Dec 01 16:30 13668 Dec 15 18:57 13668 Dec 16 11:26	0° m 16° m04'10 18° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m.56'52 0° ¾ 2° ¾03'47 17° ¾18'31 17° ¾10'11 16° ¾35'12 0° ♂ 2° ♂ 10'44 28° ♂ 53'50 0° ≈	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23 1°31'16 1°32'08 1.31181 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 05 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33 13667 Dec 04 16:11 13667 Dec 10 06:56 13667 Dec 11 11:05 13667 Dec 11 10:31 13667 Dec 12 06:34 13667 Dec 18 10:00 13667 Dec 29 22:02 13668 Jan 12 13:55	4° \$\Pi41'39 0° \$\mathbb{n}\$. 1° \$\mathbb{n}\$.08'09 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.23'43 1° \$\mathbb{n}\$.02'49 30° \$\mathbb{n}\$.26° \$\Pi40'53 0° \$\mathbb{n}\$.2° \$\mathbb{n}\$.01'48 0° \$\mathbb{n}\$.2° \$\mathbb{n}\$.30'23 17° \$\mathbb{n}\$.39'09 0° \$\mathbb{n}\$.25'15 17° \$\mathbb{n}\$.46'36 0° \$\mathbb{n}\$.9° \$\mathbb{n}\$.48'26 0° \$\mathbb{n}\$.7° \$\mathbb{n}\$.435	-2°01'14 1°58'47 0.56692 AU 26°19'40 1°37'18 1°38'21 1.31471 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 14 00:32 13668 Nov 17 00:32 13668 Nov 24 22:43 13668 Nov 24 21:14 13668 Nov 24 14:58 13668 Dec 01 16:30 13668 Dec 01 16:30 13668 Dec 16 11:26 13668 Dec 31 02:31 13669 Jan 14 01:34	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m.56'52 0° ¾ 2° ¾03'47 17° ¾18'31 17° ¾10'11 16° ¾35'12 0° ♂ 2° ♂ 10'44 28° ♂53'50 0° ≈ 18° ≈46'46	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23 1°31'16 1°32'08 1.31181 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33 13667 Dec 04 16:11 13667 Dec 10 06:56 13667 Dec 11 10:31 13667 Dec 12 06:34 13667 Dec 24 12:07 13667 Dec 29 22:02 13668 Jan 12 13:55 13668 Jan 19 01:10 13668 Feb 02 00:13	4° \$\Pi41'39 0° \$\mathbb{n}\$ 1° \$\mathbb{n}\$.08'09 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.23'43 1° \$\mathbb{n}\$.02'49 30° \$\mathbb{n}\$.26° \$\Pi40'53 0° \$\mathbb{n}\$.2° \$\mathbb{n}\$.01'48 0° \$\mathbb{n}\$.2° \$\mathbb{n}\$.30'23 17° \$\mathbb{n}\$.39'09 0° \$\mathbb{n}\$.25'15 17° \$\mathbb{n}\$.46'36 0° \$\mathbb{n}\$.9° \$\mathbb{n}\$.48'26 0° \$\mathbb{n}\$.	-2°01'14 1°58'47 0.56692 AU 26°19'40 1°37'18 1°38'21 1.31471 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 17 00:32 13668 Nov 18 00:01 13668 Nov 24 22:43 13668 Nov 24 21:14 13668 Nov 24 14:58 13668 Dec 01 16:30 13668 Dec 16 11:26 13668 Dec 11 11:26 13668 Dec 31 02:31 13669 Jan 14 01:34 13669 Jan 20 14:11	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m56'52 0° ¾ 2° ¾03'47 17° ¾18'31 17° ¾10'11 16° ¾35'12 0° ♂ 2° ♂10'44 28° ♂53'50 0° ≈ 18° ≈46'46 25° ≈54'18	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23 1°31'16 1°32'08 1.31181 AU
evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	13667 Sep 04 12:28 13667 Sep 19 16:11 13667 Sep 20 17:58 13667 Sep 29 06:33 13667 Oct 01 03:48 13667 Oct 09 09:06 13667 Oct 09 04:02 13667 Oct 10 14:54 13667 Oct 12 09:35 13667 Oct 17 01:02 13667 Oct 22 19:39 13667 Nov 03 18:30 13667 Nov 06 00:39 13667 Nov 25 20:09 13667 Nov 27 04:33 13667 Dec 04 16:11 13667 Dec 10 06:56 13667 Dec 11 10:31 13667 Dec 12 06:34 13667 Dec 24 12:07 13667 Dec 29 22:02 13668 Jan 12 13:55 13668 Jan 19 01:10	4° \$\textit{\Omega}41'39 0° \$\mathbb{n}\$. 1° \$\mathbb{n}\$.08'09 5° \$\mathbb{n}\$.25'03 5° \$\mathbb{n}\$.13'17 4° \$\mathbb{n}\$.40'23 0° \$\mathbb{n}\$.24'9 30° \$\mathbb{n}\$.26° \$\textit{\Omega}01'01 24° \$\textit{\Omega}01'01 24° \$\textit{\Omega}01'01 24° \$\textit{\Omega}01'01 24° \$\textit{\Omega}01'048 0° \$\mathbb{n}\$. 2° \$\mathbb{n}\$.30'23 17° \$\mathbb{n}\$.39'09 0° \$\mathbb{n}\$. 2° \$\mathbb{n}\$.36'49 2° \$\mathbb{n}\$.33'38 4° \$\mathbb{n}\$.25'15 17° \$\mathbb{n}\$.46'36 0° \$\mathbb{n}\$. 9° \$\textit{\Omega}48'26 0° \$\mathbb{n}\$. 7° \$\mathbb{n}\$.04'35 14° \$\mathbb{n}\$.22'39 12° \$\mathbb{n}\$.14'44	-2°01'14 1°58'47 0.56692 AU 26°19'40 1°37'18 1°38'21 1.31471 AU	evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13668 Aug 08 05:06 13668 Aug 16 23:28 13668 Aug 18 01:32 13668 Aug 24 13:39 13668 Sep 03 00:34 13668 Sep 10 08:59 13668 Sep 12 11:58 13668 Sep 18 21:42 13668 Sep 19 22:49 13668 Sep 19 22:06 13668 Sep 23 06:04 13668 Sep 27 04:48 13668 Oct 17 20:25 13668 Oct 31 11:07 13668 Nov 13 01:23 13668 Nov 14 00:32 13668 Nov 17 00:32 13668 Nov 24 22:43 13668 Nov 24 21:14 13668 Nov 24 14:58 13668 Dec 01 16:30 13668 Dec 01 16:30 13668 Dec 16 11:26 13668 Dec 31 02:31 13669 Jan 14 01:34	0° m 16° m04'10 18° m05'50 0° Ω 13° Ω37'12 17° Ω20'58 17° Ω02'57 13° Ω14'12 12° Ω22'10 12° Ω23'40 9° Ω37'05 6° Ω53'46 5° Ω06'19 12° Ω47'59 0° m 21° m.56'52 0° ズ 2° ズ 03'47 17° ズ 18'31 17° ズ 10'11 16° ズ 35'12 0° ズ 2° 줍 10'44 28° 줍 53'50 0° ※ 18° ≈ 46'46 25° ≈ 54'18 24° ≈ 90'49	18°16'56 -0°19'41 0°19'17 0.58741 AU 27°27'23 1°31'16 1°32'08 1.31181 AU 26°34'20 0.58864 AU

minimum elong	13669 Jan 28 04:05	18° ≈ 53'06	3°42'41	retrograde	13669 Dec 26 15:16	6°≈32'05	
morning rise	13669 Feb 04 21:00	14°≈34'34	3 42 41	evening set	13670 Jan 01 10:06	5°≈16'22	
direct	13669 Feb 06 21:47	14°≈20'02		min. Earth dist.	13670 Jan 06 07:20	2°≈35'26	0.56865 AU
asc. node	13669 Feb 08 23:58	14 ≈20 02 14°≈36'08		inferior conj	13670 Jan 09 01:23	2 ≈35 20 0°≈46'17	
morning max el	13669 Feb 14 20:50	18°≈16'07	18°20'32	minimum elong	13670 Jan 09 09:58	0°≈32'03	4°59'54
morning max ci	13669 Feb 23 07:48	0° ₩	16 20 32	minimum clong	13670 Jan 10 05:34	0 ≈3203 30°Rる	4 39 34
morning set	13669 Mar 02 15:09	13° ¥ 24'12		morning rise	13670 Jan 17 12:17	26°る34'44	
morning set	13669 Mar 11 10:57	13 γ (24 12 0° γ		direct	13670 Jan 19 16:57	26°る20'40	
	13009 Wai 11 10.37	0 1		asc. node	13670 Jan 26 21:20	20 3 2040 29° る 02'59	
superior conj	13669 Mar 11 22:40	0° Y ′53′36	0°15'18	asc. nouc	13670 Jan 28 01:09	29 3 02 39 0° ≈	
minimum elong	13669 Mar 11 23:47	0° Υ 58'40	0°15'12	morning max el	13670 Jan 28 22:28	0°≈49'20	19°08'55
behind sun begin	13669 Mar 11 21:34	0° Y 48'35	0 13 12	morning set	13670 Feb 14 15:23	0 ≈49 20 27°≈47'21	19 00 33
behind sun end	13669 Mar 12 02:00	1° Υ 08'45		morning set	13670 Feb 14 13.23 13670 Feb 15 18:06	2/ ≈ 4/21 0° H	
desc. node		4° Υ 20'37			130/01/60 13 18.00	0 /	
max. Earth dist.	13669 Mar 13 20:24 13669 Mar 19 11:56	4 1 20 3 7 14° Υ 14'10	1.40930 AU	aumariar aani	12670 Eab 22 22:49	14° ₩ 09'31	0°45'36
		21° Υ 47'32	1.40930 AU	superior conj	13670 Feb 22 22:48	14 X 0931 14° X 21'39	
evening rise	13669 Mar 24 00:17			minimum elong	13670 Feb 23 01:20	24° H 56'03	0°45'35
	13669 Mar 29 02:56	0° B		desc. node	13670 Feb 28 16:54		1 20/01 444
	13669 Apr 18 23:40	0°II	22020100	max. Earth dist.	13670 Mar 01 18:44	26° ¥ 52'49	1.38681 AU
evening max el	13669 Apr 27 05:41	9° Ⅱ 32'07	23°20'09		13670 Mar 03 12:46	0°Υ 2° Ω 2012.4	
retrograde	13669 May 07 19:01	15° Ⅱ 44'52		evening rise	13670 Mar 05 13:01	3° Y 30′34	
asc. node	13669 May 07 20:30	15° Ⅱ 44'51			13670 Mar 22 06:11	0°8	
evening set	13669 May 12 21:55	13° Ⅱ 35'17		evening max el	13670 Apr 09 19:18	23° 8 24'27	24°40'05
inferior conj	13669 May 18 06:50	7° Ⅱ 09'10	2°42'50		13670 Apr 19 15:28	$0^{\circ}\Pi$	
minimum elong	13669 May 18 04:59	7° Ⅱ 15'35	2°41'33	retrograde	13670 Apr 21 10:59	0° Ⅱ 12'53	
min. Earth dist.	13669 May 17 18:27	7° Ⅱ 51'52	0.68864 AU		13670 Apr 23 04:43	30° ₹ 8	
morning rise	13669 May 23 11:58	1° Ⅱ 02'41		asc. node	13670 Apr 24 17:49	29° 8 25'38	
	13669 May 25 02:05	30° ₹ 8		evening set	13670 Apr 27 01:33	27° 8 51'23	
direct	13669 May 27 19:14	29° 8 19'28		min. Earth dist.	13670 May 01 13:45	22° 8 44'15	0.68353 AU
	13669 May 30 16:29	Π $\circ 0$		inferior conj	13670 May 02 14:44	21° 8 21'03	2°13'07
morning max el	13669 Jun 05 03:12	4° Ⅱ 05′28	20°53'19	minimum elong	13670 May 02 12:35	21° 8 28'14	2°11'47
desc. node	13669 Jun 09 21:57	9° Ⅱ 29'02		morning rise	13670 May 07 23:48	15° 8 23'04	
	13669 Jun 24 15:27	0		direct	13670 May 11 18:51	14° 8 00'39	
morning set	13669 Jul 05 06:28	16° © 09'41		morning max el	13670 May 19 03:39	18° 8 05'53	19°43'34
max. Earth dist.	13669 Jul 13 03:52	28° 5 41'22	1.43245 AU	desc. node	13670 May 27 18:51	28° 8 42'48	
	13669 Jul 13 23:15	$0 {\circ} \mathcal{\Omega}$			13670 May 28 16:54	Π $^{\circ}0$	
				greatest brilliancy	13670 May 31 22:43	4° Ⅱ 39'31	-0.6m
superior conj	13669 Jul 20 01:47	10° Ω 06′13		morning set	13670 Jun 14 08:17	24° Ⅱ 50'47	
minimum elong	13669 Jul 20 09:02	10° Ω 36′50	1°48'33		13670 Jun 17 16:31	0ಂತಾ	
	13669 Jul 31 12:48	0° m y		max. Earth dist.	13670 Jun 25 16:59	12° © 32'33	1.44787 AU
evening rise	13669 Aug 01 00:15	0° m 50′45					
asc. node	13669 Aug 03 20:04	5° ™ 51'27		superior conj	13670 Jun 30 10:56	20° 5 07'07	-2°09'07
evening max el	13669 Aug 17 12:56	26° Mp 38'11	18°03'06	minimum elong	13670 Jun 30 15:36	20° © 25'52	2°09'57
	13669 Aug 23 08:15	0∘ ত			13670 Jul 06 12:33	$0 {\circ} \Omega$	
retrograde	13669 Aug 24 04:22	0° ₽ 03'22		evening rise	13670 Jul 14 03:32	12° Ω 44'07	
	13669 Aug 25 00:34	30° ₽, M)		asc. node	13670 Jul 21 16:45	25° Ω 23'29	
evening set	13669 Aug 26 15:04	29° m 35'24			13670 Jul 24 13:46	0° m y	
inferior conj	13669 Sep 02 08:38	24° m 34'24	1°01'44	evening max el	13670 Aug 01 03:19	10° Mp 01'52	18°08'10
minimum elong	13669 Sep 02 10:23	24° Mp 30'08	1°00'55	retrograde	13670 Aug 07 12:07	13°M/22'31	
min. Earth dist.	13669 Sep 05 11:27	21°My34'12	0.61016 AU	evening set	13670 Aug 10 07:07	12° Mp 41'39	
desc. node	13669 Sep 05 19:13	21°M) 16'26		inferior conj	13670 Aug 16 10:42	7° m ,22'57	2°00'56
morning rise	13669 Sep 09 02:54	18° m 38'04		minimum elong	13670 Aug 16 13:11	7° M 16′07	1°59'43
direct	13669 Sep 15 17:56	16° Mp 25′46		min. Earth dist.	13670 Aug 19 02:40	4° Mp 28′34	0.63242 AU
morning max el	13669 Sep 29 23:43	24° m 21'39	27°57'21	morning rise	13670 Aug 22 17:19	1°Mp08'56	
	13669 Oct 05 02:46	0० ट		desc. node	13670 Aug 23 16:43	0° m ,27'48	
	13669 Oct 24 19:58	0° M .			13670 Aug 24 11:05	30°R Ω	
asc. node	13669 Oct 30 22:06	11°ML41'03		direct	13670 Aug 29 09:06	28° Ω 38'22	
morning set	13669 Nov 02 02:58	16° M .11'27			13670 Sep 03 16:13	0° m y	
max. Earth dist.	13669 Nov 07 22:02	28°M38'10	1.31420 AU	morning max el	13670 Sep 12 08:20	6° Mp 40′05	27°48'47
	13669 Nov 08 12:52	0° ∡ ¹			13670 Sep 30 04:11	0∘ 亚	
				morning set	13670 Oct 16 22:54	29° ≏ 57'09	
superior conj	13669 Nov 09 09:21	1° ∡ ¹53′28	1°19'26		13670 Oct 16 23:28	0° M	
minimum elong	13669 Nov 09 07:14	1° ∡ 741'47	1°20'02	asc. node	13670 Oct 17 18:45	1°M37'35	
evening rise	13669 Nov 16 02:13	16° ∡ ¹41'07		max. Earth dist.	13670 Oct 21 23:48	10°M24'45	1.32193 AU
	13669 Nov 22 13:38	5°0					
desc. node	13669 Dec 02 16:00	17° ට 14'06		superior conj	13670 Oct 24 17:05	16°M16'59	1°01'55
evening max el	13669 Dec 12 19:17	29° る 35'19	25°15'40	minimum elong	13670 Oct 24 14:49	16°ML04'36	1°02'13
	13669 Dec 13 05:48	0° ≈			13670 Oct 30 23:43	0° ∡ ¹	

	12(70 0-+ 21 12-10	10.712110			12(71 0-4 15 22.52	150 m 41125	
evening rise	13670 Oct 31 13:19	1°メᠯ13'18 0°₴		evening rise	13671 Oct 15 23:52	15°M41'25 0°⊀	
1 1-	13670 Nov 16 04:14				13671 Oct 23 02:13		21955157
desc. node	13670 Nov 19 13:10	4°る32'41	22027100	evening max el	13671 Nov 05 17:36	19° х 46'21	21°55'56
evening max el	13670 Nov 24 05:35	9° る 44'15	23°3′/'00	desc. node	13671 Nov 06 10:26	20° ₹ 26'32	
retrograde	13670 Dec 07 16:24	16° る 25'52		retrograde	13671 Nov 18 06:18	25° ₹ '59'00	
evening set	13670 Dec 12 06:26	15° ප් 40'08		evening set	13671 Nov 21 10:50	25° ∡ ³36′18	
min. Earth dist.	13670 Dec 18 16:08	12° る 35'56	0.55334 AU	inferior conj	13671 Nov 30 04:36	21° ∡ ⁴42'13	-5°48'07
inferior conj	13670 Dec 20 10:16	11° る 33'49	-5°51'19	minimum elong	13671 Nov 29 23:29	21° ∡ ¹49'22	5°46'34
minimum elong	13670 Dec 20 14:05	11° る 28'11	5°49'59	min. Earth dist.	13671 Nov 29 22:27	21° ∡ 50'49	0.54552 AU
morning rise	13670 Dec 28 23:29	7° る 40'24		morning rise	13671 Dec 08 13:06	17° ∡ 754'47	
direct	13670 Dec 31 16:29	7° る 22'24		direct	13671 Dec 12 02:31	17° ∡ ¹26'53	
morning max el	13671 Jan 11 11:06	12° る 31'48	20°20'17	morning max el	13671 Dec 24 09:17	23° ∡ 20′03	21°53'28
asc. node	13671 Jan 13 18:37	14° る 58'36			13671 Dec 30 04:02	0°ಕ	
	13671 Jan 23 14:32	0° ≈		asc. node	13671 Dec 31 15:49	2° る 05'30	
morning set	13671 Jan 29 21:50	12° ≈ 24'54		morning set	13672 Jan 14 07:59	27° る 09'22	
Ü				C	13672 Jan 15 16:17	0° ≈	
superior conj	13671 Feb 06 12:12	28° ≈ 00'53	1°08'53				
minimum elong	13671 Feb 06 14:54	28°≈14'30	1°09'11	superior conj	13672 Jan 21 11:04	12° ≈ 16'47	1°25'11
minimum ciong	13671 Feb 07 11:54	0° \	1 0711	minimum elong	13672 Jan 21 13:11	12°≈27'53	1°25'50
max. Earth dist.	13671 Feb 12 01:45	8° ¥ 56'57	1.36472 AU	max. Earth dist.	13672 Jan 25 14:05	20°≈47'38	1.34518 AU
		8 X 30 37 16° ¥ 01'57	1.30472 AU				1.34318 AU
evening rise	13671 Feb 15 20:58			evening rise	13672 Jan 29 20:39	29°≈12'26	
desc. node	13671 Feb 15 13:27	15°) €27'42			13672 Jan 30 06:37	0°) {	
	13671 Feb 23 22:23	0° Υ		desc. node	13672 Feb 02 10:04	5° ¥ 51′29	
	13671 Mar 16 18:36	0 \circ 8			13672 Feb 17 02:30	0° Y	
evening max el	13671 Mar 23 08:42	7° 8 15'34	25°52'38	evening max el	13672 Mar 04 22:31	20° Y 59'34	26°50'24
retrograde	13671 Apr 04 22:26	14° 8 28'52		retrograde	13672 Mar 18 04:24	28° Y 25′09	
evening set	13671 Apr 11 00:09	11° 8 59'24		evening set	13672 Mar 24 15:52	25° Y ′52'57	
asc. node	13671 Apr 11 15:13	11° 8 26'24		min. Earth dist.	13672 Mar 28 15:51	21° Y 55'03	0.66024 AU
min. Earth dist.	13671 Apr 15 05:35	7° と 27'37	0.67395 AU	asc. node	13672 Mar 28 12:40	22° Y ′04'06	
inferior conj	13671 Apr 16 19:03	5° 8 29'34	1°32'54	inferior conj	13672 Mar 30 17:36	19° Ƴ 29'46	0°41'35
minimum elong	13671 Apr 16 17:06	5° 8 35'43	1°31'43	minimum elong	13672 Mar 30 16:32	19° Ƴ 32'55	0°40'55
	13671 Apr 21 23:35	30° R Υ		morning rise	13672 Apr 05 18:30	13° Y ′53'02	
morning rise	13671 Apr 22 10:42	29° Υ 41'20		direct	13672 Apr 08 16:07	13°Υ°06'45	
direct	13671 Apr 25 18:27	28° Υ '38'19		morning max el	13672 Apr 15 01:14	16° Υ 28'09	18°11'13
direct	13671 Apr 29 17:43	0° 8		morning max er	13672 Apr 15 01:14 13672 Apr 25 03:44	0° 8	16 11 13
			10040105	1 1			
morning max el	13671 May 02 11:30	2° 8 15'20	18°49'05	desc. node	13672 Apr 30 12:24	8° 8 29'27	
desc. node	13671 May 14 15:41	18° 8 25'34		morning set	13672 May 04 04:32	14° 8 23'35	
greatest brilliancy	13671 May 16 09:24	21° 8 04'05	-0.8m		13672 May 13 23:11	Π °0	
	13671 May 22 04:18	$\Pi^{\circ}0$					
morning set	13671 May 24 17:58	3° Ⅱ 59'42		superior conj	13672 May 19 09:04	8° Ⅲ 30′52	-1°55'47
max. Earth dist.	13671 Jun 08 10:26	26° Ⅱ 52'38	1.45672 AU	minimum elong	13672 May 19 00:33	7° Ⅱ 57'32	1°56'06
				max. Earth dist.	13672 May 21 06:21	11° Ⅲ 27'58	1.45822 AU
superior conj	13671 Jun 10 00:46	29° Ⅲ 22'38	-2°12'31		13672 Jun 02 04:15	0 \circ \odot	
minimum elong	13671 Jun 09 22:12	29° Ⅱ 12'35	2°13'32	evening rise	13672 Jun 04 10:48	3° 5 31'47	
	13671 Jun 10 10:18	0°©		greatest brilliancy	13672 Jun 16 00:18	21°520'26	-0.7m
evening rise	13671 Jun 25 07:00	23° © 36'10		c ,	13672 Jun 21 23:19	$0^{\circ}\Omega$	
3	13671 Jun 29 06:21	$0^{\circ}\Omega$		asc. node	13672 Jun 24 10:26	3° Ω 15'33	
asc. node	13671 Jul 08 13:32	14° £ 33'54		evening max el	13672 Jun 28 02:06		19°11'17
evening max el	13671 Jul 15 16:31	23° Ω 39'42	18°31'12	retrograde	13672 Jul 05 00:28	11° Ω 16'44	17 11 17
retrograde	13671 Jul 22 03:56	27° Ω 09'06	10 31 12	evening set	13672 Jul 08 13:20	10°Ω04'10	
evening set	13671 Jul 25 07:36	26°Ω13'05		inferior conj	13672 Jul 13 23:56	4°Ω15'34	2002150
-			2040117	,			
inferior conj	13671 Jul 31 00:57	20° Ω 38'42	2°40'17	minimum elong	13672 Jul 14 01:13	4°Ω11'24	
minimum elong	13671 Jul 31 03:06	20° Ω 32'13	2°39'05	min. Earth dist.	13672 Jul 15 11:37	2° Ω 20'05	0.66854 AU
min. Earth dist.	13671 Aug 02 03:11	18° Ω 07'36	0.65232 AU		13672 Jul 17 09:40	30°ષ્દ્	
morning rise	13671 Aug 05 21:25	14° Ω 16′13		morning rise	13672 Jul 19 12:28	27° © 51'09	
desc. node	13671 Aug 10 14:14	11° Ω 48′00		direct	13672 Jul 25 15:18	25° © 12'26	
direct	13671 Aug 12 08:43	11° Ω 36′38		desc. node	13672 Jul 27 11:39	25° © 25'06	
morning max el	13671 Aug 25 19:11	19° £ 31′25	27°06'33		13672 Aug 04 08:21	0 $^{\circ}$ Ω	
	13671 Sep 03 17:38	0° m		morning max el	13672 Aug 07 06:09	2° Ω 44'42	25°58'54
	13671 Sep 23 05:09	0∘ 亚			13672 Aug 27 22:23	0° ™	
morning set	13671 Sep 30 08:58	13° ₽ 13'01		morning set	13672 Sep 12 05:45	25° m 51'01	
max. Earth dist.	13671 Oct 04 16:40	21° ≏ 47'43	1.33503 AU	Ü	13672 Sep 14 11:05	0∘ ⊽	
asc. node	13671 Oct 04 15:21	21° Ω 41'02		max. Earth dist.	13672 Sep 15 23:28		1.35321 AU
				asc. node	13672 Sep 13 23:26	11° ≏ 47'42	
superior conj	13671 Oct 08 19:43	0°M22'12	0°38'47	ase. Houe	13072 Sep 20 11.30	11 -7/42	
minimum elong	13671 Oct 08 17:53	0°M12'32	0°38'53	superior con-	13672 Cap 21 14.41	14° ≏ 02'58	0°10'28
mmmum eiong	13671 Oct 08 17:33 13671 Oct 08 15:31	0°11612'32	0 3033	superior conj	13672 Sep 21 14:41	13° £ 59'53	0°10′28 0°10′30
	130/1 001 08 13.31	U IIIG		minimum elong	13672 Sep 21 14:04	13 == 39 33	0 10 30

behind sun begin	13672 Sep 21 09:25	13° ≏ 36'17		superior conj	13673 Sep 04 22:46	27° m 11'31	
behind sun end	13672 Sep 21 18:43	14° ≏ 23'33		minimum elong	13673 Sep 05 00:15	27° m) 18'43	0°22'03
evening rise	13672 Sep 29 07:54	0° ™ 00'44			13673 Sep 06 09:20	0∘ ⊽	
	13672 Sep 29 07:46	0° M		asc. node	13673 Sep 07 08:31	1° ≏ 54'02	
	13672 Oct 17 09:26	0° ∡ ¹		evening rise	13673 Sep 13 11:05	14° ≙ 05'25	
evening max el	13672 Oct 17 16:24	0° ∡ 17'31	20°27'36		13673 Sep 21 20:29	0°M	
desc. node	13672 Oct 23 07:48	4° ∡ 728'54		evening max el	13673 Sep 30 05:22	11°M35'55	19°19'42
retrograde	13672 Oct 28 17:09	5° ∡ ¹46'33		retrograde	13673 Oct 09 14:28	16° M ₊17'40	
evening set	13672 Oct 30 21:55	5° ∡ ³34'29		desc. node	13673 Oct 10 05:13	16°ML16′32	
inferior conj	13672 Nov 08 20:57	1° ₹ 39'11	-4°45'36	evening set	13673 Oct 11 11:08	16° M ₊07'22	
minimum elong	13672 Nov 08 10:54	1° ≯ ′53'48	4°42'07	inferior conj	13673 Oct 20 01:33	11° M 58'21	-3°04'22
min. Earth dist.	13672 Nov 10 05:12	0° ∡ ′52′12	0.54695 AU	minimum elong	13673 Oct 19 17:43	12°M11'13	3°00'53
	13672 Nov 11 18:01	30°RML		min. Earth dist.	13673 Oct 22 15:19	10° M ₊17'09	0.55745 AU
morning rise	13672 Nov 16 23:27	27° M 39'08		morning rise	13673 Oct 27 21:58	7° M 27'32	
direct	13672 Nov 21 11:38	26°M55'24		direct	13673 Nov 02 06:23	6°M22'31	
	13672 Nov 30 13:59	0° ∡ ¹		morning max el	13673 Nov 16 06:58	13° M 27'07	25°27'01
morning max el	13672 Dec 04 20:56	3° ҂ 27'43	23°40'56		13673 Nov 29 05:23	0° ∡ ¹	
asc. node	13672 Dec 17 12:57	20° ҂ 07'22		asc. node	13673 Dec 04 09:58	8° ₰ 750'28	
	13672 Dec 23 00:10	5°0		morning set	13673 Dec 13 07:25	26° х 36′37	
morning set	13672 Dec 28 19:46	11° る 54'56		•	13673 Dec 14 20:58	ರ∘ರ	
superior conj	13673 Jan 04 16:24	26° る 48'34	1°34'49	superior conj	13673 Dec 20 01:48	11° る 29'19	1°38'09
minimum elong	13673 Jan 04 17:32	26° る 54'43	1°35'44	minimum elong	13673 Dec 20 01:51	11° る 29'32	1°39'11
	13673 Jan 06 03:54	0° ≈		max. Earth dist.	13673 Dec 21 13:42	14° る 47'14	1.31869 AU
max. Earth dist.	13673 Jan 07 10:23	2° ≈ 42'42	1.32961 AU	evening rise	13673 Dec 27 05:42	26° る 55'30	
evening rise	13673 Jan 12 08:35	12° ≈ 52'52			13673 Dec 28 17:42	0° ≈	
desc. node	13673 Jan 19 06:43	26° ≈ 02'26		desc. node	13674 Jan 06 03:28	15° ≈ 54'42	
	13673 Jan 21 12:27	0° ∀			13674 Jan 14 20:39	0° ∀	
	13673 Feb 11 06:26	0° Y		evening max el	13674 Jan 28 22:13	17° ¥ 19'41	27°32'29
evening max el	13673 Feb 15 11:43	4° Y 25'15	27°25'54	retrograde	13674 Feb 11 19:24	24°) 42′05	
retrograde	13673 Mar 01 03:40	11° Y 52'32		evening set	13674 Feb 18 17:15	22°) €24'03	
evening set	13673 Mar 07 22:26	9° Ƴ 23'47		min. Earth dist.	13674 Feb 22 11:18	19°) 24′13	0.62287 AU
min. Earth dist.	13673 Mar 11 18:23	5° Ƴ 57'15	0.64297 AU	inferior conj	13674 Feb 25 10:30	16°) 36′16	-1°35'19
inferior conj	13673 Mar 14 07:47	3° Y 14'33	-0°21'20	minimum elong	13674 Feb 25 13:46	16°) 28′32	1°33'38
minimum elong	13673 Mar 14 08:26	3° Y 12'49	0°21'01	asc. node	13674 Mar 02 07:39	12°) 34′52	
asc. node	13673 Mar 15 10:11	2° Y 05'16		morning rise	13674 Mar 04 13:03	11° ¥ 30′29	
	13673 Mar 17 14:37	30° ₹ ₩		direct	13674 Mar 06 18:57	11° ¥ 07'37	
morning rise	13673 Mar 20 20:28	27°) € 51'44		morning max el	13674 Mar 13 11:52	14° ¥ 31'37	17°47'14
direct	13673 Mar 23 09:22	27° ¥ 18'56		C	13674 Mar 24 05:40	0° Y	
	13673 Mar 29 02:51	0° Y		morning set	13674 Mar 29 09:04	8° Y 59'56	
morning max el	13673 Mar 29 18:21	0° Ƴ 36'13	17°50'25	desc. node	13674 Apr 04 05:34	19° Ƴ 16′06	
morning set	13673 Apr 15 19:07	26° Ƴ 08'38			•		
desc. node	13673 Apr 17 09:01	28° Ƴ 47'46		superior conj	13674 Apr 09 23:10	29° Y 03'13	-0°43'56
	13673 Apr 18 02:15	0°B		minimum elong	13674 Apr 09 18:54	28° Y 45'19	0°43'43
	•				13674 Apr 10 12:43	0°B	
superior conj	13673 Apr 29 04:55	18° 8 15'04	-1°23'22	max. Earth dist.	13674 Apr 16 19:18	10° 8 17'44	1.43955 AU
minimum elong	13673 Apr 28 20:42	17° 8 42'04	1°23'05	evening rise	13674 Apr 24 13:07	22° 8 30'57	
max. Earth dist.	13673 May 04 02:13	26° 8 01'52	1.45228 AU		13674 Apr 29 10:27	Π °0	
	13673 May 06 14:50	$\Pi^{\circ}0$			13674 May 20 16:22	0 \circ \odot	
evening rise	13673 May 14 23:38	12° Ⅱ 56'33		evening max el	13674 May 25 04:28	5° © 03'57	21°15'47
	13673 May 26 06:54	0°©		asc. node	13674 May 29 04:32	8° 5 27'46	
greatest brilliancy	13673 May 29 21:36	5° © 17'42	-0.6m	retrograde	13674 Jun 02 21:56	10° © 09'16	
asc. node	13673 Jun 11 07:26	21° © 17'51		evening set	13674 Jun 07 07:02	8°\$23'01	
evening max el	13673 Jun 11 06:16	21°9514'54	20°07'00	inferior conj	13674 Jun 12 12:57	2° © 09'55	3°08'55
retrograde	13673 Jun 18 23:09	25° © 38'41		minimum elong	13674 Jun 12 12:14	2° 5 12'26	3°07'50
evening set	13673 Jun 22 21:48	24°909'04		min. Earth dist.	13674 Jun 12 20:47	1°5642'40	0.68724 AU
inferior conj	13673 Jun 28 04:44	18° © 07'25	3°11'51		13674 Jun 14 02:42	30°RⅡ	
minimum elong	13673 Jun 28 04:59	18° © 06'33	3°10'49	morning rise	13674 Jun 17 17:14	25° Ⅱ 52'32	
min. Earth dist.	13673 Jun 29 02:08	16°954'43	0.68028 AU	direct	13674 Jun 22 20:26	23° Ⅲ 38'35	
morning rise	13673 Jul 03 11:50	11° 5 45'19		desc. node	13674 Jul 01 06:13	27° Ⅱ 57'24	
direct	13673 Jul 09 03:33	9° © 15'55		morning max el	13674 Jul 03 03:22	29° Ⅱ 45′09	23°06'02
desc. node	13673 Jul 14 08:59	10° © 57'12		-	13674 Jul 03 09:13	0ಂತಾ	
morning max el	13673 Jul 20 16:30	16°9510'43	24°35'32		13674 Jul 25 21:32	$0^{\circ}\Omega$	
- C	13673 Aug 01 02:48	$0^{\circ}\Omega$		morning set	13674 Aug 06 14:17	18° Ω 32'58	
	13673 Aug 20 21:09	0° m)		max. Earth dist.	13674 Aug 10 21:33	25° Ω 49'13	1.39872 AU
morning set	13673 Aug 25 09:02	7° m)41'20			13674 Aug 13 07:16	0° m	
max. Earth dist.	13673 Aug 28 23:07	14° m 04'44	1.37518 AU				
	-	-					

superior conj	13674 Aug 18 15:58	9° m 38'11	-0°57'13	superior conj	13675 Jul 31 13:55	21° Ω 13'23	-1°31'17
minimum elong	13674 Aug 18 20:13	9° m 57'42	0°57'00	minimum elong	13675 Jul 31 20:40	21° Ω 42'42	1°31'11
asc. node	13674 Aug 25 05:05	21° m 56'07		-	13675 Aug 05 13:14	0° m)	
evening rise	13674 Aug 28 06:22	27° m 47'24		evening rise	13675 Aug 11 13:58	10° m 56'56	
	13674 Aug 29 10:05	0∘ ⊽		asc. node	13675 Aug 12 01:39	11° m 50'23	
evening max el	13674 Sep 13 06:38	23° ≏ 41'17	18°33'44		13675 Aug 22 14:14	0∘ ⊽	
retrograde	13674 Sep 21 06:05	27° ≏ 42'54		evening max el	13675 Aug 27 16:13	6° £ 25'43	18°08'41
evening set	13674 Sep 23 05:11	27° ₽ 29'03		retrograde	13675 Sep 03 16:14	9° ≙ 59'58	
desc. node	13674 Sep 27 02:43	25° ≏ 49'01		evening set	13675 Sep 05 22:14	9° ≙ 38'17	
inferior conj	13674 Oct 01 02:42	23° Ω 00'16	-1°16'10	inferior conj	13675 Sep 13 01:28	4° ₽ 48'56	0°17'34
minimum elong	13674 Sep 30 23:40	23° Ω 06'07	1°14'37	minimum elong	13675 Sep 13 02:02	4° ₽ 47'38	0°17'20
min. Earth dist.	13674 Oct 04 07:36	20° △ 33'28	0.57510 AU	desc. node	13675 Sep 14 00:14	3° ₽ 57'40	
morning rise	13674 Oct 08 14:40	17° ≏ 51'29		min. Earth dist.	13675 Sep 16 08:00	1° ≏ 54'26	0.59696 AU
direct	13674 Oct 14 15:29	16° ≏ 20'02			13675 Sep 18 18:18	30°R, Mp	
morning max el	13674 Oct 28 22:36	23° Ω 50'51	26°52'54	morning rise	13675 Sep 20 02:31	29° m) 07'08	
Ü	13674 Nov 03 12:48	0°M₊		direct	13675 Sep 26 14:21	27° m) 08'15	
asc. node	13674 Nov 21 06:51	28°M03'26			13675 Oct 04 21:24	0 ° $\overline{\mathbf{v}}$	
	13674 Nov 22 06:52	0°∡7		morning max el	13675 Oct 10 21:53	4° ≙ 57'52	27°44'53
morning set	13674 Nov 27 17:07	11° 尽 08'39			13675 Oct 29 12:06	0°M₊	
				asc. node	13675 Nov 08 03:39	17°M38'24	
superior conj	13674 Dec 04 13:08	26° х 11′59	1°35'28	morning set	13675 Nov 11 23:06	25°M26'48	
minimum elong	13674 Dec 04 12:09	26° х 06′27	1°36'26		13675 Nov 14 02:18	0° ⊼ ¹	
max. Earth dist.	13674 Dec 04 21:09	26° ₹ 56'42	1.31279 AU	max. Earth dist.	13675 Nov 18 05:14	9° х ⁷ 03'53	1.31215 AU
max. Bartii dist.	13674 Dec 06 06:02	0°る	1.51277110	max. Earth dist.	13073 1107 10 03.11) X 03 33	1.51215710
evening rise	13674 Dec 11 09:22	11° る 12'51		superior conj	13675 Nov 19 00:34	10° ∡ ′51'36	1°26'57
evening rise	13674 Dec 20 22:42	0°≈		minimum elong	13675 Nov 18 22:46	10° ₹ 3130	1°27'43
desc. node	13674 Dec 24 00:18	5°≈19'47		evening rise	13675 Nov 25 17:26	25°×7'40'04	1 27 45
evening max el	13675 Jan 11 03:21	29°≈29'33	27°05'28	evening rise	13675 Nov 27 18:23	0°る	
evening max er	13675 Jan 11 16:24	0° \	27 03 20	desc. node	13675 Dec 10 21:16	24°る07'35	
retrograde	13675 Jan 25 02:37	6°) 43′47		dese. Hode	13675 Dec 14 20:38	0°≈	
evening set	13675 Jan 31 21:00	4°) (44'34		evening max el	13675 Dec 24 00:56	0 ∞ 10°≈47'45	26°04'12
min. Earth dist.	13675 Feb 04 17:41	2°) € 02'52	0.60109 AU	retrograde	13676 Jan 06 23:34	10 ∞ 47 43 17°≈51'39	20 04 12
iiiii. Lattii dist.	13675 Feb 07 05:19	2 7(02 32 30°R≈	0.00109 AU	evening set	13676 Jan 13 05:44	17 ≈ 31 39 16° ≈ 18'57	
inferior conj	13675 Feb 07 03:19	29°≈24'50	2057140	min. Earth dist.	13676 Jan 17 14:08	13°≈42'11	0.57969 AU
minimum elong	13675 Feb 08 04:35	29°≈11'31	2°54'39	inferior conj	13676 Jan 20 15:18	13 ≈42 11 11°≈30'53	
morning rise	13675 Feb 15 15:22	24°≈39'01	2 3437	minimum elong	13676 Jan 21 00:01	11°≈15'10	4°17'14
asc. node	13675 Feb 17 05:06	24°≈23'29		morning rise	13676 Jan 28 21:14	7°≈06'44	7 1/17
direct	13675 Feb 17 16:44	24°≈22'33		direct	13676 Jan 30 22:33	6°≈53'01	
morning max el	13675 Feb 25 02:20	24 ≈22 33 28°≈03'59	18°02'42	asc. node	13676 Feb 04 02:30	0 ≈53 01 7°≈52'49	
morning max ci	13675 Feb 26 21:13	0° ∺	10 02 42	morning max el	13676 Feb 08 09:50	11°≈02'11	18°38'26
morning set	13675 Mar 12 16:13	22°) 38′25		morning max ci	13676 Feb 20 21:59	0° \	16 36 20
morning set	13675 Mar 16 15:43	0°Υ		morning set	13676 Feb 24 11:23	6° ∺ 48'38	
desc. node	13675 Mar 22 02:04	9° Υ 50'03		morning set	130/01/60 24 11.23	0 7 46 36	
dese. Hode	130/3 Wai 22 02.04	7 1 30 03		superior conj	13676 Mar 04 07:44	23°) 47′04	0°28'59
superior conj	13675 Mar 22 17:17	10° Y 57'30	-0°05'05	minimum elong	13676 Mar 04 09:38	23°) 55'54	0°28'53
minimum elong	13675 Mar 22 16:51	10°Υ55'36		desc. node	13676 Mar 07 22:32	0°Υ25'56	0 2033
behind sun begin	13675 Mar 22 09:22	10° Υ 22'26	0 03 07	dese. Hode	13676 Mar 07 16:48	0° Υ	
behind sun end	13675 Mar 23 00:20	11° Υ 22'20		max. Earth dist.	13676 Mar 11 15:24	7° Υ '00'21	1.39977 AU
max. Earth dist.	13675 Mar 30 07:37	24°Υ°00'03	1.42136 AU	evening rise	13676 Mar 15 17:36	13° Υ '59'57	1.57711110
max. Earth dist.	13675 Apr 02 23:18	0°8	1.42130710	evening rise	13676 Mar 25 17:33	0° 8	
evening rise	13675 Apr 04 16:59	2° 8 47'46			13676 Apr 16 21:05	0°II	
evening rise	13675 Apr 22 19:24	2°Ⅱ		evening max el	13676 Apr 19 12:09	2° Ⅱ 45'46	23°54'43
evening max el	13675 May 07 21:43	18° ∏ 53'48	22°33'35	retrograde	13676 Apr 30 13:22	9° Ⅱ 15'20	23 34 43
asc. node	13675 May 16 01:42	24° П 29'50	22 33 33	asc. node	13676 May 01 22:59	9° П 06'33	
retrograde	13675 May 17 19:09	24° II 43'27		evening set	13676 May 05 21:07	7° П 00'32	
evening set	13675 May 17 19:09 13675 May 22 15:21	24 II 43 27 22° II 41'52		min. Earth dist.	13676 May 10 13:57	1° П 32'20	0.68696 AU
inferior conj	13675 May 27 22:34	16° Ⅱ 19'30	2°55'21	inferior conj	13676 May 10 13.37	0° Д 32'00	2°31'33
v	•	16° ∏ 24'49	2°54'07	,	13676 May 11 07:39	0° П 32'00	2°30'12
minimum elong min. Earth dist.	13675 May 27 21:03	16° П 37'21	0.68942 AU	minimum elong		0 <u>H</u> 3637	2 30 12
	13675 May 27 17:27 13675 Jun 02 02:37	10° Д 3/21 10° Д 08'32	0.00744 AU	morning rice	13676 May 11 17:03	24° 8 28'44	
morning rise direct	13675 Jun 02 02:37 13675 Jun 06 17:02	10°Щ08'32 8°Щ13'36		morning rise direct	13676 May 16 14:06	24° 6 28'44 22° 6 54'22	
			21020112		13676 May 20 16:03		20021152
morning max el	13675 Jun 15 17:24	13° Ⅱ 28'23	21°39'13	morning max el	13676 May 28 13:24	27° 8 21'59 0° Ⅱ	20 21 32
desc. node	13675 Jun 18 03:20	16° Ⅱ 02'56 0° ©		dono	13676 May 31 00:24	0°Щ 4° Щ 55'48	
marning set	13675 Jun 28 22:00	0°99 28°9919'32		desc. node	13676 Jun 04 00:19	4°Щ55′48 0°©	
morning set	13675 Jul 17 18:35				13676 Jun 21 08:54		
max. Earth dist.	13675 Jul 18 19:50 13675 Jul 23 23:58	0°Ω 8°Ω23'33	1.42109 AU	morning set max. Earth dist.	13676 Jun 26 01:47 13676 Jul 05 09:01	7° © 12'05 21° © 48'53	1.43974 AU
max. Darui Uist.	13013 Jui 23 23.30	0 0643 33	1.72109 AU	max. Earm uist.	150/0 Jul 05 05.01	21 291 033	1.737/7 AU

	13676 Jul 10 10:17	$0^{\circ}\Omega$		superior conj minimum elong	13677 Jun 21 12:45 13677 Jun 21 14:42	11°©28'17 11°©36'03	
superior conj	13676 Jul 11 12:48	1° Ω 49'01	-1°58'54	8	13677 Jul 03 00:15	0°N	
minimum elong	13676 Jul 11 19:36	2° Ω 17'05	1°59'20	evening rise	13677 Jul 05 22:35	4° Ω 49'35	
evening rise	13676 Jul 24 05:01	23° Ω 21'18		asc. node	13677 Jul 15 19:01	20° Ω 55'46	
-	13676 Jul 28 00:56	0° m)			13677 Jul 22 01:29	0° m)	
asc. node	13676 Jul 28 22:17	1°M)31'54		evening max el	13677 Jul 24 20:15	3° m)09'11	18°15'47
evening max el	13676 Aug 10 05:56	19° m 38'01	18°03'04	retrograde	13677 Jul 31 04:53	6° Mp31′34	
retrograde	13676 Aug 16 17:16	22° m 59'16		evening set	13677 Aug 03 03:38	5° m 44'18	
evening set	13676 Aug 19 07:30	22° m 26'07		inferior conj	13677 Aug 09 02:24	0°Mp18'36	2°19'51
inferior conj	13676 Aug 25 18:42	17° m 17'34	1°29'28	minimum elong	13677 Aug 09 04:51	0°Mp11'37	2°18'36
minimum elong	13676 Aug 25 20:57	17° To 11'49	1°28'23		13677 Aug 09 08:53	30°R Ω	
min. Earth dist.	13676 Aug 28 17:34	14° m 17'18	0.61989 AU	min. Earth dist.	13677 Aug 11 12:41	27° Ω 32'35	0.64139 AU
desc. node	13676 Aug 30 21:48	12° Mp 18'22		morning rise	13677 Aug 15 04:31	24° Ω 00′17	
morning rise	13676 Sep 01 07:56	11° m)12'41		desc. node	13677 Aug 17 19:20	22° Ω 20'36	
direct	13676 Sep 08 00:13	8° m 51'17		direct	13677 Aug 21 19:02	21° Ω 24'52	
morning max el	13676 Sep 22 03:33	16° m 50'47	27°58'03	morning max el	13677 Sep 04 13:19	29° Ω 24'17	27°34'24
	13676 Oct 03 01:13	0∘ ⊽			13677 Sep 05 03:21	0° m)	
_	13676 Oct 21 05:18	0° ™			13677 Sep 26 23:37	0∘ ⊽	
asc. node	13676 Oct 25 00:21	7°M28'28		morning set	13677 Oct 09 15:26	22° ♀ 59'28	
morning set	13676 Oct 25 23:21	9°M25'44		asc. node	13677 Oct 11 20:59	27° Ω 28'27	
max. Earth dist.	13676 Oct 31 10:19	21°M00'02	1.31683 AU		13677 Oct 13 02:31	0°M,	
	12/7/31 02 10 14	2.50 M 22120	1010141	max. Earth dist.	13677 Oct 14 08:44	2° M ₃37'19	1.32692 AU
superior conj	13676 Nov 02 10:14	25°M22'38	1°12'41		12/77 0 + 17 1/ 0/	0000 2011 5	0052146
minimum elong	13676 Nov 02 07:59	25°M10'17	1°13'11	superior conj	13677 Oct 17 16:06	9°M39'15	0°52'46
	13676 Nov 04 12:25	0° √ ¹		minimum elong	13677 Oct 17 13:55	9°M27'34	0°52'58
evening rise	13676 Nov 09 03:58	10°ダ11'58 0°る		evening rise	13677 Oct 24 15:05	24°M43'23 0° √	
daga mada	13676 Nov 19 03:19 13676 Nov 26 18:22	12°る04'10		daga mada	13677 Oct 27 03:05	0° x ¹ 28° x ¹49'54	
desc. node	13676 Dec 04 14:35	12 3 04 10 21° る 17'42	24°35'15	desc. node	13677 Nov 13 15:36 13677 Nov 14 17:15	28 x·49 34 0°る	
evening max el retrograde	13676 Dec 04 14.33 13676 Dec 18 07:59	21 31/42 28° る 08'33	24 33 13	evening max el	13677 Nov 14 17.13 13677 Nov 16 00:30	0 る 1°る19'19	22053113
evening set	13676 Dec 23 15:33	28 008 33 27° る 06'16		retrograde	13677 Nov 10 00:30	7°る50'02	22 33 13
min. Earth dist.	13676 Dec 29 02:22	24°る17'36	0.56135 AU	evening set	13677 Dec 03 03:10	7°る30°02	
inferior conj	13676 Dec 31 11:44	22°る47'43		min. Earth dist.	13677 Dec 10 09:22	3° る 55'53	0.54897 AU
minimum elong	13676 Dec 31 19:04	22° る 36'12	5°26'09	inferior conj	13677 Dec 10 03:22	3° る 16'08	
morning rise	13677 Jan 09 00:37	18° る 44'21	3 20 07	minimum elong	13677 Dec 11 13:10	3° る 15'57	
direct	13677 Jan 11 09:25	18° る 29'11		g	13677 Dec 18 04:31	30°R. ₹	0 0010
asc. node	13677 Jan 20 23:51	22° る 59'35		morning rise	13677 Dec 20 01:02	29° × 727'26	
morning max el	13677 Jan 21 06:18		19°36'26	direct	13677 Dec 23 02:17	29° х 05'48	
5 5	13677 Jan 26 19:12	0° ≈			13677 Dec 27 18:23	ರ°0	
morning set	13677 Feb 07 14:38	21° ≈ 19′26		morning max el	13678 Jan 03 12:34	4° る 33'29	20°57'35
	13677 Feb 11 21:45	0° ∀		asc. node	13678 Jan 07 21:07	9° る 27'45	
					13678 Jan 20 00:18	0° ≈	
superior conj	13677 Feb 15 14:01	7°) 19'40	0°56'20	morning set	13678 Jan 22 22:58	6° ≈ 01'07	
minimum elong	13677 Feb 15 16:45	7°) 33′02	0°56'27				
max. Earth dist.	13677 Feb 21 21:50	19° ¥ 23'17	1.37721 AU	superior conj	13678 Jan 30 07:51	21° ≈ 22'40	1°16'39
desc. node	13677 Feb 22 19:03	21° ∺ 00'30		minimum elong	13678 Jan 30 10:22	21° ≈ 35'36	1°17'05
evening rise	13677 Feb 25 14:58	26° 米 05′24			13678 Feb 03 14:31	0° ∀	
	13677 Feb 27 20:46	0° Υ		max. Earth dist.	13678 Feb 04 07:03		1.35599 AU
	13677 Mar 19 06:37	$0^{\circ}S$		evening rise	13678 Feb 08 06:02	8° ∺ 54'29	
evening max el	13677 Apr 02 01:48	16° 8 39'32	25°12'23	desc. node	13678 Feb 09 15:36	11° 米 29′17	
retrograde	13677 Apr 14 03:28	23° 8 39'28			13678 Feb 20 12:22	0° Υ	
asc. node	13677 Apr 18 20:21	22° 8 05'11			13678 Mar 15 03:46	0° 8	
evening set	13677 Apr 19 22:50	21° 8 14'20		evening max el	13678 Mar 15 15:28	0° 8 28'49	26°19'28
min. Earth dist.	13677 Apr 24 08:05	16° 8 22'15	0.67998 AU	retrograde	13678 Mar 28 12:28	7° 8 48'05	
inferior conj	13677 Apr 25 14:18	14° 8 43'45	1°57'27	evening set	13678 Apr 03 18:43	5° 8 16'44	
minimum elong	13677 Apr 25 12:10	14° 8 50'43	1°56'07	asc. node	13678 Apr 05 17:49	3° 8 26'37	0.66064 177
morning rise	13677 May 01 01:49	8° 8 49'34		min. Earth dist.	13678 Apr 07 21:42	0° 8 59'47	0.66864 AU
direct	13677 May 04 16:02	7° 8 35'25	10010126	inforior con:	13678 Apr 08 17:23	30° ₹Υ 28° Υ 49'12	1012122
morning max el desc. node	13677 May 11 17:01	11° 8 26'54 24° 8 23'26	19°18'26	inferior conj	13678 Apr 09 16:26	28° Y ′49'12 28° Y ′54'20	1°12'32 1°11'32
	13677 May 21 21:11	28° 8 11'06	-0.7m	minimum elong	13678 Apr 09 14:46	28°°° 54°20 23°° 705'45	1 11 32
greatest brilliancy	13677 May 24 11:21 13677 May 25 16:37	0°Ⅱ	-U. / III	morning rise direct	13678 Apr 15 11:42 13678 Apr 18 15:05	23° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
morning set	13677 Jun 05 04:19	0 Д 15°Д58'05		morning max el	13678 Apr 25 03:38	25° Y 38'35	18°30'59
morning set	13677 Jun 14 05:41	0.2 12 H 2902		morning max ci	13678 Apr 28 23:13	0° 8	10 30 37
max. Earth dist.	13677 Jun 18 00:36		1.45260 AU	desc. node	13678 May 08 17:56	14° 8 15'51	
Durin dist.	.50,, Juli 10 00.50	2 - 2000	1200710	morning set	13678 May 15 23:20	25° 8 35'56	
				5		22200	

	12679 May 19 19:29	0°Щ		desc. node	12670 Apr. 25 14:25	4° 8 26'12	
	13678 May 18 18:28	0-Щ		morning set	13679 Apr 25 14:35 13679 Apr 26 21:55	6° 8 34'34	
superior conj	13678 May 31 22:02	20° Ⅲ 34'45	-2°07'47	morning set	13077 Apr 20 21.33	0 03434	
minimum elong	13678 May 31 16:19	20° I I12'27		superior conj	13679 May 11 09:15	29° 8 53'06	-1°43'28
max. Earth dist.	13678 May 31 19:56		1.45831 AU	minimum elong	13679 May 11 00:08	29° 8 17'08	
	13678 Jun 06 22:40	0ಂಣ			13679 May 11 11:00	0°II	
evening rise	13678 Jun 16 15:35	15°9516'37		max. Earth dist.	13679 May 14 15:56	5° Ⅱ 02'25	1.45651 AU
greatest brilliancy	13678 Jun 25 04:42	28° © 45'18	-0.8m	evening rise	13679 May 27 11:19	24° Ⅱ 54'09	
· ·	13678 Jun 25 23:54	$0^{\circ}\Omega$		C	13679 May 30 18:56	0° ©	
asc. node	13678 Jul 02 15:51	9° Ω 55'23		greatest brilliancy	13679 Jun 09 22:21	15° © 20'16	-0.7m
evening max el	13678 Jul 08 08:09	16° Ω 51'35	18°46'09	asc. node	13679 Jun 19 12:47	28°521'43	
retrograde	13678 Jul 14 23:12	20° Ω 28'38			13679 Jun 21 00:17	$0^{\circ}\Omega$	
evening set	13678 Jul 18 06:44	19° Ω 25'36		evening max el	13679 Jun 21 15:27	0° Ω 38'56	19°33'11
inferior conj	13678 Jul 23 20:47	13° Ω 44'41	2°51'44	retrograde	13679 Jun 28 21:01	4° Ω 42'59	
minimum elong	13678 Jul 23 22:36	13° Ω 39′00	2°50'36	evening set	13679 Jul 02 13:53	3° Ω 23′16	
min. Earth dist.	13678 Jul 25 16:43	11° Ω 27'52	0.65972 AU		13679 Jul 05 23:35	30° ₹ 5	
morning rise	13678 Jul 29 13:35	7° Ω 20'42		inferior conj	13679 Jul 07 22:33	27° © 28'48	3°08'17
direct	13678 Aug 04 21:33	4° Ω 40'43		minimum elong	13679 Jul 07 23:24	27° © 25'58	3°07'15
desc. node	13678 Aug 04 16:49	4° Ω 40'52		min. Earth dist.	13679 Jul 09 04:05	25° © 50'51	0.67401 AU
morning max el	13678 Aug 18 00:39		26°40'25	morning rise	13679 Jul 13 08:26	21° 5 04'42	
	13678 Sep 01 02:52	0° m)		direct	13679 Jul 19 06:38	18° © 29'06	
	13678 Sep 19 14:38	0∘ ত		desc. node	13679 Jul 22 14:12	19° © 09'58	
morning set	13678 Sep 22 20:24	6° ₾ 01'13		morning max el	13679 Jul 31 11:31	25° © 47'59	25°24'52
max. Earth dist.	13678 Sep 26 21:43	13° Ω 53'57	1.34223 AU		13679 Aug 04 07:52	0° Q	
asc. node	13678 Sep 28 17:34	17° ≏ 34'12			13679 Aug 25 15:27	0° m)	
	12670 0 + 01 15 51	220 0 25124	0027122	morning set	13679 Sep 05 10:19	18° Mp 20'54	1 2/21/ 411
superior conj minimum elong	13678 Oct 01 15:51	23° £ 35'34 23° £ 28'13	0°27'23 0°27'26	max. Earth dist.	13679 Sep 09 00:54	24° ™ 58'58 0° ⊆	1.36216 AU
minimum eiong	13678 Oct 01 14:27 13678 Oct 04 17:02	23° == 28°13 0° ™	0-27-26		13679 Sep 11 16:13	0-22	
evening rise	13678 Oct 04 17:02 13678 Oct 09 00:55	9°M09'25		superior conj	13679 Sep 15 06:36	7° ≙ 03'45	0°02!57
evening rise	13678 Oct 19 22:37	9 11G0923 0° √ 1		minimum elong	13679 Sep 15 06:46	7° 2 03'43	
evening max el	13678 Oct 19 22:37	0 ★ 11° ₹ ¹ 30'07	21°16'03	behind sun begin	13679 Sep 15 00:40	6° £ 33'32	0 02 34
desc. node	13678 Oct 31 12:56	14°×700'25	21 1005	behind sun end	13679 Sep 15 00:32	ი — 3532 7° — 35'48	
retrograde	13678 Nov 09 14:47	17° ∡ 26'11		asc. node	13679 Sep 15 14:07	7° ≏ 41'16	
evening set	13678 Nov 12 07:23	17° × 2011		evening rise	13679 Sep 23 07:11	23° ₽ 23'30	
inferior conj	13678 Nov 21 04:57	13° х 15′58	-5°28'12		13679 Sep 26 13:58	0°M	
minimum elong	13678 Nov 20 20:49	13° ∡ ¹27'25	5°25'49	evening max el	13679 Oct 10 20:50	22°M20'36	19°56'01
min. Earth dist.	13678 Nov 21 15:20	13° ∡ ′01′20	0.54496 AU	desc. node	13679 Oct 18 10:21	27°ML07'53	
morning rise	13678 Nov 29 10:53	9° ∡ ¹25'57		retrograde	13679 Oct 21 04:51	27°M29'31	
direct	13678 Dec 03 09:51	8° ∡ ¹52'16		evening set	13679 Oct 23 04:09	27°M19'08	
morning max el	13678 Dec 16 05:33	15° ∡ °02'25	22°38'16	inferior conj	13679 Nov 01 01:04	23°M19'19	-4°05'29
asc. node	13678 Dec 25 18:18	27° х 00′10		minimum elong	13679 Oct 31 15:17	23°M34'13	4°01'38
	13678 Dec 27 15:02	5°0		min. Earth dist.	13679 Nov 02 23:31	22°M08'33	0.55038 AU
morning set	13679 Jan 07 10:04	20° る 47'09		morning rise	13679 Nov 09 01:04	19°M07'25	
	13679 Jan 11 17:10	0° ≈		direct	13679 Nov 13 22:03	18° M 15′22	
				morning max el	13679 Nov 27 15:35	25°M03'03	24°27'18
superior conj	13679 Jan 14 09:50		1°30'04	_	13679 Dec 02 05:49	0° ∡ ¹	
minimum elong	13679 Jan 14 11:33	5°≈55'55	1°30'50	asc. node	13679 Dec 12 15:21	15° ∡ 20'54	
max. Earth dist.	13679 Jan 17 22:39	13°≈12'15	1.33799 AU	· .	13679 Dec 20 07:07	0°る	
evening rise	13679 Jan 22 11:19	22°≈18'39		morning set	13679 Dec 22 21:59	5° る 31'34	
daga mad-	13679 Jan 26 12:33 13679 Jan 27 12:13	0° ∺ 1° ∺ 48'14		auporior	13679 Dec 29 17:10	20° ට 23'18	1°36'59
desc. node		1°π4814 0°Υ		superior conj		20°る23°18 20°る26'59	1°37'58
evening max el	13679 Feb 14 06:23 13679 Feb 26 04:57	14° Υ 05'30	27°08'32	minimum elong max. Earth dist.	13679 Dec 29 17:51 13679 Dec 31 21:53	20 3 20 39 25° 3 09'53	1.32433 AU
retrograde	13679 Mar 11 15:40	21° Υ 33'16	27 08 32	max. Earth dist.	13680 Jan 03 04:13	25 ℃ 09 55	1.32433 AU
evening set	13679 Mar 18 06:48	19° Υ 01'19		evening rise	13680 Jan 06 03:29	6°≈09'23	
min. Earth dist.	13679 Mar 22 04:44	15° Υ 17'30	0.65331 AU	desc. node	13680 Jan 14 08:55	21°≈52'04	
asc. node	13679 Mar 23 15:18	13° Υ 40'55	3.00331110	acce. node	13680 Jan 19 02:46	0° ∺	
inferior conj	13679 Mar 24 11:43	12° Υ 43'11	0°16'16	evening max el	13680 Feb 08 17:08	27° ∺ 19'04	27°32'35
minimum elong	13679 Mar 24 11:16	12° Υ '44'27	0°15'58		13680 Feb 11 18:05	0° Υ	
transit middle	13679 Mar 24 11:16	12° Y ′44'27	0°15'58	retrograde	13680 Feb 22 12:10	4° Υ 45'50	
transit begin	13679 Mar 24 11:04	12° Y ′45'01		evening set	13680 Feb 29 08:45	2° Y ′20'34	
transit end	13679 Mar 24 11:28	12° Y '43'54		-	13680 Mar 03 04:53	30° ₹	
morning rise	13679 Mar 30 17:22	7° Y 12'23		min. Earth dist.	13680 Mar 04 03:26	29°) €06'07	0.63463 AU
direct	13679 Apr 02 11:04	6° Ƴ 32′20		inferior conj	13680 Mar 06 21:24	26° ¥ 19′13	-0°51'30
morning max el	13679 Apr 08 19:11	9° Y ′50'30	18°00'18	minimum elong	13680 Mar 06 23:04		0°50'38
	13679 Apr 22 21:28	0°B		asc. node	13680 Mar 09 12:47	23°) 46′23	

morning rise	13680 Mar 13 15:48	21°) €03'25		morning rise	13681 Feb 25 02:58	4°) (30′29	
direct	13680 Mar 16 01:20	20°) 35′26		direct	13681 Feb 27 06:29	4°) 10′48	
morning max el	13680 Mar 22 12:54	23°) (54'37	17°46'52	morning max el	13681 Mar 06 05:31	7°) 41′18	17°51'24
-	13680 Mar 27 11:36	$0^{\circ}\mathbf{Y}$		-	13681 Mar 20 17:43	$0^{\circ}\mathbf{Y}$	
morning set	13680 Apr 07 23:12	18° Ƴ 50'08		morning set	13681 Mar 21 21:14	2° Y '03'56	
desc. node	13680 Apr 11 11:08	24° Υ 49'19		desc. node	13681 Mar 29 07:39	15° Y 20'23	
desc. node	13680 Apr 14 12:29	0°8		dese. Hode	13001 With 27 07.37	13 2023	
	13000 Apr 14 12.29	0.0			12/01 4 01 10:22	21° Y 19'57	0927102
	12600 1 20 12 55	100110	100050	superior conj	13681 Apr 01 18:32		
superior conj	13680 Apr 20 13:57	10° 8 03'18		minimum elong	13681 Apr 01 16:02	21° Y ′09'17	0°26'56
minimum elong	13680 Apr 20 07:14	9° 8 35'50			13681 Apr 06 21:58	0° 8	
max. Earth dist.	13680 Apr 26 10:20	19° 8 28'46	1.44754 AU	max. Earth dist.	13681 Apr 09 01:27	3° 8 31'35	1.43236 AU
	13680 May 03 03:23	Π $^{\circ}0$		evening rise	13681 Apr 15 16:41	14° 8 07'43	
evening rise	13680 May 05 22:20	4° Ⅱ 17'49			13681 Apr 26 03:04	Π \circ 0	
	13680 May 23 05:44	0 \circ \odot		evening max el	13681 May 17 13:04	28° Ⅱ 18′00	21°48'11
evening max el	13680 Jun 03 17:02	14° © 28'20	20°34'58		13681 May 19 08:16	0 \circ \odot	
asc. node	13680 Jun 05 09:51	16°9503'54		asc. node	13681 May 23 07:00	2° 5 47'05	
retrograde	13680 Jun 11 19:58	19° © 09'18		retrograde	13681 May 26 18:07	3° © 41'47	
evening set	13680 Jun 15 22:53	17° © 32'45		evening set	13681 May 31 07:53	1° © 48'54	
inferior conj	13680 Jun 21 05:05	11°526'09	3°11'58	- · · · · · · · · · · · · · · · · · · ·	13681 Jun 02 03:56	30°R Ⅱ	
minimum elong	13680 Jun 21 04:55	11°526'44	3°10'56	inferior conj	13681 Jun 05 14:07	25° I I31'52	3°04'25
min. Earth dist.	13680 Jun 21 20:43	10°932'19	0.68377 AU	minimum elong	13681 Jun 05 13:02	25° II 35'40	3°03'17
		5° © 05'37	0.06377 AU	•	13681 Jun 05 16:27	25° I 23'45	0.68877 AU
morning rise	13680 Jun 26 10:38			min. Earth dist.			0.088// AU
direct	13680 Jul 01 21:10	2°5541'54		morning rise	13681 Jun 10 17:59	19° Ⅱ 17'06	
desc. node	13680 Jul 08 11:27	5° © 22'44		direct	13681 Jun 15 15:52	17° Ⅱ 10'41	
morning max el	13680 Jul 12 21:44	9° © 17'45	23°57'39	desc. node	13681 Jun 25 08:36	22° I 52'50	
	13680 Jul 29 05:47	0 $^{\circ}$ Ω		morning max el	13681 Jun 25 09:20	22° ∏ 54'41	22°28'19
morning set	13680 Aug 17 04:46	29° Ω 47'56			13681 Jul 01 14:06	0	
	13680 Aug 17 07:36	0° m y			13681 Jul 22 13:38	$0 {\circ} \Omega$	
max. Earth dist.	13680 Aug 20 22:42	6° Mp 19′10	1.38514 AU	morning set	13681 Jul 28 23:26	10° Ω 11′25	
				max. Earth dist.	13681 Aug 02 22:17	18° Ω 23'35	1.40856 AU
superior conj	13680 Aug 28 08:53	19° m 56'03	-0°36'53		13681 Aug 09 15:05	0° m ∕	
minimum elong	13680 Aug 28 11:29	20° Mp 08'24	0°36'43				
asc. node	13680 Sep 01 10:40	27° Mp 46'26		superior conj	13681 Aug 10 18:27	2°m/02'12	-1°12'04
	13680 Sep 02 14:00	0∘ ত		minimum elong	13681 Aug 10 23:53	2° m/26'34	1°11'50
evening rise	13680 Sep 06 07:24	7° ≏ 19'34		asc. node	13681 Aug 19 07:15	17° m) 45'50	
8 21	13680 Sep 19 05:48	0°M.		evening rise	13681 Aug 20 22:11	20° m/48'51	
evening max el	13680 Sep 22 15:35	4°M00'30	18°57'32	8	13681 Aug 25 20:55	0∘ <u>⊽</u>	
retrograde	13680 Oct 01 09:07	8°M23'17	10 0, 32	evening max el	13681 Sep 05 20:56	16° ≏ 24'01	18°20'39
evening set	13680 Oct 03 06:01	8°M12'01		retrograde	13681 Sep 13 08:52	20° ⊆ 12'01	10 2037
desc. node	13680 Oct 04 07:48	7°M55'52		evening set	13681 Sep 15 10:47	19° ⊆ 55'11	
inferior conj	13680 Oct 11 13:52	3°M55'20	2017/42	desc. node	13681 Sep 21 05:17	16° ⊆ 43'28	
3	13680 Oct 11 13:32 13680 Oct 11 08:03			inferior conj			0922157
minimum elong		4°M05'32		,	13681 Sep 23 00:23	15° Ω 17'22	
min. Earth dist.	13680 Oct 14 12:06		0.56432 AU	minimum elong	13681 Sep 22 23:07	15° Ω 19'58	
	13680 Oct 17 13:12	30°R Ω		min. Earth dist.	13681 Sep 26 07:21		0.58412 AU
morning rise	13680 Oct 19 07:03	29° Ω 08'30		morning rise	13681 Sep 30 07:59	9° Ω 53'55	
direct	13680 Oct 24 23:19	27° ≏ 52'17		direct	13681 Oct 06 14:22	8° ≏ 10'42	
	13680 Nov 01 09:38	0° M		morning max el	13681 Oct 20 21:54	15° ≏ 49'28	27°19'38
morning max el	13680 Nov 08 03:13	5° ™ 09'01	26°06'49		13681 Nov 01 11:29	0° M	
	13680 Nov 26 03:36	0° ∡ ¹		asc. node	13681 Nov 15 09:07	23°M41'25	
asc. node	13680 Nov 28 12:17	4° ₰ 17'48			13681 Nov 18 12:31	0° ∡ 7	
morning set	13680 Dec 06 08:59	20° х 09′33		morning set	13681 Nov 20 17:22	4° ∡ ³36'49	
	13680 Dec 10 20:42	8°0					
				superior conj	13681 Nov 27 15:16	19° ∡ ¹48'17	1°32'33
superior conj	13680 Dec 13 03:38	5° る 05'42	1°37'43	minimum elong	13681 Nov 27 13:54	19° ∡ ¹40'38	1°33'28
minimum elong	13680 Dec 13 03:13	5° る 03'24	1°38'46	max. Earth dist.	13681 Nov 27 11:39	19° ∡ 28′03	1.31194 AU
max. Earth dist.	13680 Dec 14 03:14	7° る 16'49	1.31559 AU		13681 Dec 02 05:24	აი	
evening rise	13680 Dec 20 03:42	20° る 19'22		evening rise	13681 Dec 04 09:34	4° る 42'29	
Q .	13680 Dec 24 22:34	0° ≈		U -	13681 Dec 17 15:37	0° ≈	
desc. node	13680 Dec 31 05:43	11° ≈ 33'58		desc. node	13681 Dec 18 02:37	0° ≈ 45'19	
	13681 Jan 12 08:18	0° ∀		evening max el	13682 Jan 03 04:18	21° ≈ 46'32	26°43'25
evening max el	13681 Jan 21 01:51	9° ∺ 56'40	27°25'22	retrograde	13682 Jan 17 03:18	21 ≈40 32 28°≈55'33	20 43 23
•		9 X 36 40 17° ¥ 15'46	L1 LJ LL	•			
retrograde	13681 Feb 04 00:32			evening set	13682 Jan 23 17:47	27°≈07'02	0.50106 411
evening set	13681 Feb 10 21:35	15°) €05'08	0.61364 ***	min. Earth dist.	13682 Jan 27 18:11	24°≈29'19	0.59186 AU
min. Earth dist.	13681 Feb 14 16:10		0.61364 AU	inferior conj	13682 Jan 30 22:28	22°≈00'55	
inferior conj	13681 Feb 17 18:12	9°) €28'24		minimum elong	13682 Jan 31 06:06		3°30'06
minimum elong	13681 Feb 17 22:47	9°) 18′06	2°07'17	morning rise	13682 Feb 07 21:29	17°≈23'56	
asc. node	13681 Feb 24 10:15	4°) (44′58		direct	13682 Feb 09 22:19	17° ≈ 08'58	

asc. node	13682 Feb 11 07:39	17° ≈ 16'13			13683 Jan 19 01:03	30°R₹	
			18°15'15			30 KO 29°る31'44	
morning max el	13682 Feb 17 17:30	21°≈00'47	18-15-15	morning rise	13683 Jan 20 16:47		
	13682 Feb 24 12:35	0° \		direct	13683 Jan 22 20:17	29° る 17'55	
morning set	13682 Mar 05 10:07	15° ¥ 58'16		•	13683 Jan 26 11:32	0° ≈	
	13682 Mar 12 21:46	0 ° Υ		asc. node	13683 Jan 29 05:02	1°≈28′24	
				morning max el	13683 Jan 31 20:50	3°≈41'07	19°00'18
superior conj	13682 Mar 14 21:55	3° Y 39'38	0°10'08	morning set	13683 Feb 17 09:09	0°) 18′26	
minimum elong	13682 Mar 14 22:40	3° Y 43′05	0°10'03		13683 Feb 17 05:24	0° ∀	
behind sun begin	13682 Mar 14 16:50	3° Y 16′39					
behind sun end	13682 Mar 15 04:30	4° Ƴ 09′28		superior conj	13683 Feb 25 19:43	16° ∺ 49'24	0°41'26
desc. node	13682 Mar 16 04:10	5° Y 55'52		minimum elong	13683 Feb 25 22:07	17° ∺ 00'51	0°41'23
max. Earth dist.	13682 Mar 22 12:18	16° Ƴ 59'01	1.41254 AU	desc. node	13683 Mar 03 00:40	26°) 31′40	
evening rise	13682 Mar 27 05:09	24° Y 48'00			13683 Mar 04 23:01	0° Υ	
	13682 Mar 30 10:45	9° 8		max. Earth dist.	13683 Mar 04 19:09	29°) 42'47	1.39018 AU
	13682 Apr 19 23:12	Π $\circ 0$		evening rise	13683 Mar 08 14:49	6° Ƴ 23'19	
evening max el	13682 Apr 30 04:55	12° Ⅱ 08'41	23°08'01		13683 Mar 23 10:59	9° 8	
asc. node	13682 May 10 04:13	18° Ⅱ 14'46		evening max el	13683 Apr 12 18:39	26° 8 01'01	24°28'30
retrograde	13682 May 10 14:06	18° Ⅱ 15'32			13683 Apr 17 09:02	Π $^{\circ}0$	
evening set	13682 May 15 15:18	16° Ⅱ 07'50		retrograde	13683 Apr 24 06:46	2° Ⅱ 45′12	
inferior conj	13682 May 20 23:43	9° Ⅱ 42'34	2°46'29	asc. node	13683 Apr 27 01:32	2° Ⅱ 11′03	
minimum elong	13682 May 20 21:56	9° Ⅱ 48'44	2°45'12	evening set	13683 Apr 29 19:35	0° Ⅲ 25′15	
min. Earth dist.	13682 May 20 13:10	10° Ⅱ 19′03	0.68901 AU		13683 Apr 30 06:52	30° ₹ 8	
morning rise	13682 May 26 04:30	3° Ⅱ 34'59		min. Earth dist.	13683 May 04 08:54	25° 8 12'41	0.68454 AU
direct	13682 May 30 13:36	1° Ⅱ 48'46		inferior conj	13683 May 05 08:01	23° 8 55'09	2°18'22
morning max el	13682 Jun 08 01:38	6° Ⅱ 41'53	21°04'51	minimum elong	13683 May 05 05:53	24° 8 02'20	2°17'00
desc. node	13682 Jun 12 05:40	11° Ⅱ 19'56		morning rise	13683 May 10 16:20	17° 8 55'46	
	13682 Jun 25 20:40	0°ಅ		direct	13683 May 14 13:06	16° 8 30'22	
morning set	13682 Jul 08 17:35	19° 5 31'08		morning max el	13683 May 22 01:00	20° 8 41'08	19°53'02
morning sec	13682 Jul 15 07:43	0°Ω		morning max cr	13683 May 29 18:08	0°II	17 33 02
max. Earth dist.	13682 Jul 16 03:59	1° Ω 22'12	1.42963 AU	desc. node	13683 May 30 02:37	0° П 28'57	
max. Earth dist.	13002 341 10 03.37	1 0022 12	1.42703710	morning set	13683 Jun 17 20:14	28° I 13'54	
superior conj	13682 Jul 23 06:52	13° Ω 11'59	-1°44'11	morning set	13683 Jun 18 23:48	0°95	
minimum elong	13682 Jul 23 14:07	13° Ω 42'44		max. Earth dist.	13683 Jun 28 16:00	15° © 06'59	1.44594 AU
minimum clong	13682 Aug 01 22:00	0° M)	1 44 10	max. Earth dist.	13063 Juli 26 10.00	13 300 39	1.44394 AU
arramina riaa	•	-		aumariar aani	12692 Iul 02 10:24	229621156	2006157
evening rise	13682 Aug 03 23:21	3° Mp 40′28		superior conj	13683 Jul 03 19:34	23°521'56	
asc. node	13682 Aug 03 23:21 13682 Aug 06 03:52	3° Mp 40'28 7° Mp 35'08	1000250	superior conj minimum elong	13683 Jul 04 00:58	23°5643'48	
•	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41	3° m/40'28 7° m/35'08 29° m/20'50	18°03'59	minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06	23°€43'48 0° Ω	
asc. node evening max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15	3° m/40'28 7° m/35'08 29° m/20'50 0° <u>∩</u>	18°03'59	minimum elong evening rise	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55	23°€43'48 0°Ω 15°Ω42'34	
asc. node evening max el retrograde	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06	18°03'59	minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33	23°\$43'48 0°\$\Omega\$ 15°\$\Omega\$42'34 27°\$\Omega\$10'04	
asc. node evening max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30	3° m/40'28 7° m/35'08 29° m/20'50 0° Ω 2° Ω48'06 2° Ω21'54	18°03'59	minimum elong evening rise asc. node	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56	23°S43'48 0°N 15°N42'34 27°N10'04 0°M	2°07'42
asc. node evening max el retrograde evening set	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38	3° m/40'28 7° m/35'08 29° m/20'50 0° Ω 2° Ω48'06 2° Ω21'54 30° R m/		minimum elong evening rise asc. node evening max el	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01	23°\$43'48 0°\$\Omega\$ 15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$ 12°\$\Omega\$41'54	
asc. node evening max el retrograde evening set inferior conj	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28	3° m/40'28 7° m/35'08 29° m/20'50 0° Ω 2° Ω48'06 2° Ω21'54 30° R m/ 27° m/23'48	0°50'50	minimum elong evening rise asc. node evening max el retrograde	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15	23°S43'48 0°Ω 15°Ω42'34 27°Ω10'04 0°M 12°M41'54 16°M02'22	2°07'42
asc. node evening max el retrograde evening set inferior conj minimum elong	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58	3° m/40'28 7° m/35'08 29° m/20'50 0° Ω 2° Ω48'06 2° Ω21'54 30° R m/ 27° m/23'48 27° m/20'13		minimum elong evening rise asc. node evening max el retrograde evening set	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57	23°\$43'48 0°\$\Omega\$15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$12'041'54 16°\$\Omega\$20'22 15°\$\Omega\$23'38	2°07'42 18°06'18
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51	3° m/40'28 7° m/35'08 29° m/20'50 0° Ω 2° Ω48'06 2° Ω21'54 30° R m/2 27° m/23'48 27° m/20'13 24° m/43'59	0°50'50 0°50'08	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24	23°\$43'48 0°\$\Omega\$15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$120 m\text{41'54} 16°\$\Omega\$2'22 15°\$\Omega\$23'38 10°\$\Omega\$707'34	2°07'42 18°06'18 1°53'16
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist.	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24	0°50'50	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 19 07:24 13683 Aug 19 07:24 13683 Aug 19 09:52	23°\$43'48 0°\$\Omega\$ 15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$ 12°\$\Omega\$41'54 16°\$\Omega\$02'22 15°\$\Omega\$23'38 10°\$\Omega\$07'34 10°\$\Omega\$00'56	2°07'42 18°06'18 1°53'16 1°52'05
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49	0°50'50 0°50'08	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19	23°\$43'48 0°\$\Omega\$ 15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$ 12°\$\Omega\$41'54 16°\$\Omega\$23'38 10°\$\Omega\$00'56 7°\$\Omega\$10'58	2°07'42 18°06'18 1°53'16
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 18 17:48	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41	23°\$43'48 0°\$\Omega\$10'04 0°\$\text{m}\$10'04 0°\$\text{m}\$10'04 12°\$\text{m}\$41'54 16°\$\text{m}\$02'22 15°\$\text{m}\$23'38 10°\$\text{m}\$00'56 7°\$\text{m}\$10'58 3°\$\text{m}\$55'33	2°07'42 18°06'18 1°53'16 1°52'05
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 18 17:48 13682 Oct 03 00:20	3° m 40'28 7° m 35'08 29° m 20'50 0° \(\Omega\) 2° \(\Omega\) 48'06 2° \(\Omega\) 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23	23°\$43'48 0°\$\Omega\$15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$12'04'54 16°\$\Omega\$23'38 10°\$\Omega\$07'34 10°\$\Omega\$0'56 7°\$\Omega\$10'58 3°\$\Omega\$5'33 3°\$\Omega\$9'47	2°07'42 18°06'18 1°53'16 1°52'05
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 18 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46	23°\$43'48 0°\$\Omega\$15°\$\Omega\$42'34 27°\$\Omega\$10'04 0°\$\Omega\$12'041'54 16°\$\Omega\$23'38 10°\$\Omega\$07'34 10°\$\Omega\$00'56 7°\$\Omega\$10'58 3°\$\Omega\$5'33 3°\$\Omega\$9'47 1°\$\Omega\$26'58	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 26 04:19	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18	23°\$43'48 0°\$\Omega\$10'04 0°\$\text{m}\$12'\pi\p41'54 16°\$\text{m}\p41'54 16°\$\text{m}\p23'38 10°\$\text{m}\p07'34 10°\$\text{m}\p00'56 7°\$\text{m}\p10'58 3°\$\text{m}\p55'33 3°\$\text{m}\p39'47 1°\$\text{m}\p26'58 9°\$\text{m}\p28'47	2°07'42 18°06'18 1°53'16 1°52'05
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 18 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48	3° m 40'28 7° m 35'08 29° m 20'50 0° \(\Omega\) 2° \(\Omega\) 48'06 2° \(\Omega\) 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° \(\Omega\) 0° m 13° m 23'34	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46	23°\$43'48 0°\$\Omega\$10'04 0°\$\text{m}\$12°\$\text{m}\$41'54 16°\$\text{m}\$02'22 15°\$\text{m}\$23'38 10°\$\text{m}\$07'34 10°\$\text{m}\$00'56 7°\$\text{m}\$10'58 3°\$\text{m}\$55'33 3°\$\text{m}\$39'47 1°\$\text{m}\$26'58 9°\$\text{m}\$28'47 0°\$\text{m}\$	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 26 04:19	3° m 40'28 7° m 35'08 29° m 20'50 0° \(\Omega\) 2° \(\Omega\) 48'06 2° \(\Omega\) 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° \(\Omega\) 0° m 13° m 23'34 18° m 47'41	0°50'50 0°50'08 0.60666 AU	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18	23°\$43'48 0°\$\Omega\$10'04 0°\$\text{my}\$12'\text{my}\$41'54 16°\$\text{my}\$23'38 10°\$\text{my}\$07'34 10°\$\text{my}\$00'56 7°\$\text{my}\$10'58 3°\$\text{my}\$55'33 3°\$\text{my}\$39'47 1°\$\text{my}\$26'58 9°\$\text{my}\$28'47 0°\$\text{m}\$	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU
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asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 18 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M 13° M 23'34 18° M 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist.	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 25 15:41 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 10 07:57 13683 Oct 11 07:57 13683 Oct 12 02:34 13683 Oct 24 21:49 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 08:11	23°\$43'48 0°\$\Omega\$10'04 0°\$\mathbf{m}\$12'\pi \mathbf{m}\text{41'54} 16°\$\mathbf{m}\text{02'22} 15°\$\mathbf{m}\text{23'38} 10°\$\mathbf{m}\text{00'56} 7°\$\mathbf{m}\text{10'58} 3°\$\mathbf{m}\text{55'33} 3°\$\mathbf{m}\text{39'47} 1°\$\mathbf{m}\text{26'58} 9°\$\mathbf{m}\text{28'47} 0°\$\mathbf{n}\text{20'28'47} 0°\$\mathbf{m}\text{20'36'55} 3°\$\mathbf{m}\text{18'34} 13°\$\mathbf{m}\text{21'35} 18°\$\mathbf{m}\text{50'18} 18°\$\mathbf{m}\text{50'18}	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 00:08 13682 Nov 18 18:55 13682 Nov 23 23:33	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M 13° M 23'34 18° M 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° 丙	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 26 00:23 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 08:11 13683 Nov 01 12:33	23° \$\infty 43'48 0° \$\alpha\$ 15° \$\alpha 42'34 27° \$\alpha 10'04 0° \$\text{my}\$ 12° \$\text{my} 41'54 16° \$\text{my} 02'22 15° \$\text{my} 23'38 10° \$\text{my} 00'56 7° \$\text{my} 10'58 3° \$\text{my} 55'33 3° \$\text{my} 39'47 1° \$\text{my} 26'58 9° \$\text{my} 28'47 0° \$\text{m}\$ 0° \$\text{m}\$ 2° \$\text{m}\$ 36'55 3° \$\text{m}\$ 18'34 13° \$\text{m}\$ 21'35 18° \$\text{m}\$ 50'18 18° \$\text{m}\$ 37'50 0° \$\text{m}\$	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 00:08 13682 Nov 18 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M 13° M 23'34 18° M 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° 丙 19° 丙 13'37 0° ※	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 08:11 13683 Nov 01 12:33 13683 Nov 03 05:55	23° \$\infty 43'48 0° \$\infty 10'04 0° \$\infty 10'04 0° \$\infty 10'04 0° \$\infty 10'04'154 16° \$\infty 20'22 15° \$\infty 23'38 10° \$\infty 00'56 7° \$\infty 10'58 3° \$\infty 55'33 3° \$\infty 55'33 3° \$\infty 39'47 1° \$\infty 26'58 9° \$\infty 28'47 0° \$\infty 0'\infty 10'58 3° \$\infty 136'55 3° \$\infty 136'55 3° \$\infty 18'18 18° \$\infty 50'18 18° \$\infty 50'18 18° \$\infty 37'50 0° \$\infty 10'\$ 3° \$\infty 44'20	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 00:08 13682 Nov 18 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40 13682 Dec 04 23:40 13682 Dec 13 06:38	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M 13° M 23'34 18° M 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° 丙 19° 丙 13'37 0° ※	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36 1°22'16	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 08:11 13683 Nov 01 12:33 13683 Nov 03 05:55 13683 Nov 03 05:55	23°\$43'48 0°\$\Pi\$ 15°\$\Pi42'34 27°\$\Pi10'04 0°\$\mathbf{m}\$ 12°\$\mathbf{m}\$41'54 16°\$\mathbf{m}\$02'22 15°\$\mathbf{m}\$23'38 10°\$\mathbf{m}\$07'34 10°\$\mathbf{m}\$00'56 7°\$\mathbf{m}\$10'58 3°\$\mathbf{m}\$55'33 3°\$\mathbf{m}\$39'47 1°\$\mathbf{m}\$26'58 9°\$\mathbf{m}\$28'47 0°\$\mathbf{m}\$ 2°\$\mathbf{m}\$36'55 3°\$\mathbf{m}\$18'34 13°\$\mathbf{m}\$21'35 18°\$\mathbf{m}\$37'50 0°\$\mathbf{m}\$ 3°\$\mathbf{m}\$44'20 0°\$\mathbf{G}\$	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 02:08 13682 Nov 12 00:08 13682 Nov 13 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40 13682 Dec 13 06:38 13682 Dec 15 22:12	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° M 13° M 23'34 18° M 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° 丙 19° 丙 13'37 0° ≈ 2° ≈ 42'28	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36 1°22'16	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Nov 01 12:33 13683 Nov 03 05:55 13683 Nov 17 03:29 13683 Nov 17 03:29 13683 Nov 21 20:49	23°\$43'48 0°\$\mathbb{\alpha}\$ 15°\$\mathbb{\alpha}42'34 27°\$\mathbb{\alpha}10'04 0°\$\mathbb{\mathba\\mathba{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\mathbb{\m	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56 1°05'18
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 00:08 13682 Nov 12 00:08 13682 Nov 13 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40 13682 Dec 13 06:38 13682 Dec 15 22:12 13682 Dec 29 19:00	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° m 13° m 23'34 18° m 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° ズ 19° ズ 13'37 0° ※ 2° ※ 42'28 9° ※ 41'20 8° ※ 21'01	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36 1°22'16	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Nov 03 05:55 13683 Nov 01 12:33 13683 Nov 03 05:55 13683 Nov 17 03:29 13683 Nov 21 20:49 13683 Nov 21 20:49 13683 Nov 21 20:49	23°\$43'48 0°\$\mathcal{O}\$\tau\$ 15°\$\mathcal{O}\$42'34 27°\$\mathcal{O}\$10'04 0°\$\mathcal{O}\$\tau\$ 12°\$\mathcal{W}\$41'54 16°\$\mathcal{W}\$02'22 15°\$\mathcal{W}\$23'38 10°\$\mathcal{W}\$07'34 10°\$\mathcal{W}\$00'56 7°\$\mathcal{W}\$10'58 3°\$\mathcal{W}\$55'33 3°\$\mathcal{W}\$39'47 1°\$\mathcal{W}\$26'58 9°\$\mathcal{W}\$28'47 0°\$\mathcal{W}\$ 0°\$\mathcal{W}\$ 13°\$\mathcal{W}\$36'55 3°\$\mathcal{W}\$18'34 13°\$\mathcal{W}\$21'35 18°\$\mathcal{W}\$50'18 18°\$\mathcal{W}\$37'50 0°\$\mathcal{W}\$ 3°\$\mathcal{W}\$44'20 0°\$\mathcal{W}\$ 6°\$\mathcal{W}\$42'49 12°\$\mathcal{S}\$55'50	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56 1°05'18
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 00:08 13682 Nov 12 00:08 13682 Nov 13 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40 13682 Dec 13 06:38 13682 Dec 15 22:12 13682 Dec 29 19:00 13683 Jan 04 17:11	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° m 13° m 23'34 18° m 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° ズ 19° ズ 13'37 0° ※ 2° ※ 42'28 9° ※ 41'20 8° ※ 21'01	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36 1°22'16 25°28'57	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Nov 03 05:55 13683 Nov 01 12:33 13683 Nov 03 05:55 13683 Nov 17 03:29 13683 Nov 27 09:10 13683 Dec 10 22:12	23°\$43'48 0°\$\mathcal{O}\$\mathcal{O}\$\lfloor{\Pi}\$15°\$\mathcal{O}\$42'34 27°\$\mathcal{O}\$\	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56 1°05'18
asc. node evening max el retrograde evening set inferior conj minimum elong desc. node min. Earth dist. morning rise direct morning max el asc. node morning set max. Earth dist. superior conj minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	13682 Aug 03 23:21 13682 Aug 06 03:52 13682 Aug 20 08:41 13682 Aug 21 01:15 13682 Aug 27 02:05 13682 Aug 29 11:30 13682 Sep 02 09:38 13682 Sep 05 07:28 13682 Sep 05 08:58 13682 Sep 08 02:51 13682 Sep 08 11:26 13682 Sep 12 03:28 13682 Sep 12 03:28 13682 Sep 14 17:48 13682 Oct 03 00:20 13682 Oct 05 14:48 13682 Oct 26 04:19 13682 Nov 02 05:52 13682 Nov 04 21:12 13682 Nov 10 02:19 13682 Nov 10 19:09 13682 Nov 12 02:10 13682 Nov 12 02:08 13682 Nov 12 00:08 13682 Nov 13 18:55 13682 Nov 23 23:33 13682 Dec 04 23:40 13682 Dec 13 06:38 13682 Dec 15 22:12 13682 Dec 29 19:00 13683 Jan 04 17:11 13683 Jan 09 10:31	3° m 40'28 7° m 35'08 29° m 20'50 0° Ω 2° Ω 48'06 2° Ω 21'54 30° R m 27° m 23'48 27° m 20'13 24° m 43'59 24° m 24'24 21° m 30'49 19° m 21'54 27° m 16'36 0° Ω 0° m 13° m 23'34 18° m 47'41 0° ズ 1° ズ 32'54 4° ズ 24'49 4° ズ 13'29 19° ズ 12'21 0° ズ 19° ズ 12'21 0° ズ 19° ズ 12'21 0° ズ 2° ※ 42'28 9° ※ 41'20 8° ※ 21'01 5° ※ 41'45	0°50'50 0°50'08 0.60666 AU 27°55'27 1.31349 AU 1°21'36 1°22'16 25°28'57 0.57142 AU -4°52'27	minimum elong evening rise asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise desc. node direct morning max el morning set asc. node max. Earth dist. superior conj minimum elong evening rise desc. node evening rise	13683 Jul 04 00:58 13683 Jul 07 21:06 13683 Jul 17 05:55 13683 Jul 24 00:33 13683 Jul 25 17:56 13683 Aug 03 23:01 13683 Aug 10 08:15 13683 Aug 13 01:57 13683 Aug 19 07:24 13683 Aug 19 09:52 13683 Aug 22 01:19 13683 Aug 25 15:41 13683 Aug 26 00:23 13683 Sep 01 07:46 13683 Sep 15 08:18 13683 Oct 01 07:57 13683 Oct 18 11:03 13683 Oct 19 18:21 13683 Oct 20 02:34 13683 Oct 20 02:34 13683 Oct 27 10:29 13683 Oct 27 10:29 13683 Oct 27 08:11 13683 Oct 27 10:29 13683 Nov 17 03:29 13683 Nov 17 03:29 13683 Nov 27 09:10 13683 Dec 10 22:12 13683 Dec 10 22:12	23°\$43'48 0°\$\mathcal{O}\$\mathcal{O}\$\lfloor{\Pi}\$15°\$\mathcal{O}\$42'34 27°\$\mathcal{O}\$\	2°07'42 18°06'18 1°53'16 1°52'05 0.62921 AU 27°52'19 1.32040 AU 1°04'56 1°05'18 23°52'21 0.55520 AU

minimum elong	13683 Dec 23 23:36	14° ට 33'55	5°45'20	direct	13684 Dec 14 10:07	20° ∡ ¹40'54	
morning rise	13684 Jan 01 08:05	10° る 45'32		morning max el	13684 Dec 26 11:47	26° ∡ "27'44	21°38'25
direct	13684 Jan 03 22:34	10° る 28'29			13684 Dec 29 19:04	0°ಕ	
morning max el	13684 Jan 14 11:37	15° る 31'49	20°08'09	asc. node	13685 Jan 01 23:34	4° る 09'11	
asc. node	13684 Jan 16 02:21	17° る 11'43		morning set	13685 Jan 16 00:37	29° る 38'44	
	13684 Jan 24 21:46	0° ≈			13685 Jan 16 04:40	0° ≈	
morning set	13684 Feb 01 14:50	14° ≈ 54'21			12605 1 22 05 02	1.40 4012.4	1022100
	12694 E-1 00 07-22	00 W 2 (11 1	1005140	superior conj	13685 Jan 23 05:03	14°≈49'24	1°23'09
superior conj	13684 Feb 09 07:22 13684 Feb 09 10:06	0°) (36'11 0°) (49'52	1°05'48 1°06'02	minimum elong max. Earth dist.	13685 Jan 23 07:17 13685 Jan 27 13:17	15°≈01'04 23°≈43'33	1°23'44 1.34788 AU
minimum elong	13684 Feb 09 00:10	0)(4932 0°) (1 00 02	max. Earth dist.	13685 Jan 30 17:53	25 ≈ 45 55	1.54766 AU
max. Earth dist.	13684 Feb 15 01:42	11° ¥ 50'32	1.36789 AU	evening rise	13685 Jan 31 17:44	1° ∺ 54'08	
desc. node	13684 Feb 17 21:12	17° X 04'10	1.50707710	desc. node	13685 Feb 03 17:46	7° ¥ 29'41	
evening rise	13684 Feb 18 20:07	18°) 48'18		desc. node	13685 Feb 17 06:38	0°Υ	
	13684 Feb 25 06:44	0°Υ		evening max el	13685 Mar 07 22:00	23° Y ′39'22	26°43'01
	13684 Mar 16 15:14	0°B		C	13685 Mar 16 13:06	0° ႘	
evening max el	13684 Mar 25 08:07	9° 8 53'06	25°42'40	retrograde	13685 Mar 21 01:44	1° 8 03'25	
retrograde	13684 Apr 06 19:02	17° 8 03'31			13685 Mar 25 06:10	30° Ŗ ♈	
evening set	13684 Apr 12 19:04	14° 8 35'07		evening set	13685 Mar 27 11:55	28° Y ′31′20	
asc. node	13684 Apr 12 22:57	14° 8 26'51		asc. node	13685 Mar 30 20:24	25° Y 14'56	
min. Earth dist.	13684 Apr 17 01:27	9° 8 58'01	0.67562 AU	min. Earth dist.	13685 Mar 31 12:42	24° Y 28'29	0.66258 AU
inferior conj	13684 Apr 18 13:02	8° 8 04'49	1°39'44	inferior conj	13685 Apr 02 12:36	22° Y ′06'52	0°50'07
minimum elong	13684 Apr 18 11:01	8° 8 11'15	1°38'31	minimum elong	13685 Apr 02 11:21	22° Y 10'35	0°49'22
morning rise	13684 Apr 24 03:31	2° 8 14'55		morning rise	13685 Apr 08 11:56	16° Y ′28′11	
direct	13684 Apr 27 12:53	1° 8 09'05		direct	13685 Apr 11 11:02	15° Ƴ 39'31	
morning max el	13684 May 04 07:46	4° 8 49'35	18°56'09	morning max el	13685 Apr 17 20:45	19° Y ′02'19	18°15'45
desc. node	13684 May 15 23:26	20° 8 08'00			13685 Apr 26 07:48	0°8	
greatest brilliancy	13684 May 17 17:58	22° 8 47'58	-0.8m	desc. node	13685 May 02 20:08	10° 8 09'01	
	13684 May 22 10:54	0°П 7°П 15104		morning set	13685 May 07 09:43	17° 8 26'32	
morning set max. Earth dist.	13684 May 27 03:24 13684 Jun 10 08:56	7°Ⅲ15'04 29°Ⅲ23'54	1.45589 AU		13685 May 15 07:11	Π $^{\circ}$ 0	
max. Earm dist.	13684 Jun 10 18:09	29 π 23 34 0° ©	1.43389 AU	superior conj	13685 May 22 19:38	11° Ⅱ 48'54	1050/31
	13004 Juli 10 16.09	0 3		minimum elong	13685 May 22 11:39		1°59'57
superior conj	13684 Jun 12 11:41	2° © 42'51	-2°13'19	max. Earth dist.	13685 May 24 04:51	13° Ⅱ 58'41	1.45854 AU
minimum elong	13684 Jun 12 10:20	2°937'31	2°14'21	man. Barur dist.	13685 Jun 03 11:38	0°9	1.10001110
evening rise	13684 Jun 27 13:06	26°5544'04		evening rise	13685 Jun 07 20:06	6°5947'02	
C	13684 Jun 29 13:28	$0^{\circ}\Omega$		greatest brilliancy	13685 Jun 18 15:56	23° © 33'15	-0.8m
asc. node	13684 Jul 09 21:21	16° Ω 24'24			13685 Jun 22 23:59	$0^{\circ}\Omega$	
evening max el	13684 Jul 17 12:38	26° Ω 18′21	18°26'39	asc. node	13685 Jun 26 18:14	5° Ω 10′59	
retrograde	13684 Jul 23 23:01	29° Ω 45′22		evening max el	13685 Jun 30 22:53	10° Ω 03'43	19°04'13
evening set	13684 Jul 27 01:25	28° Ω 51'41		retrograde	13685 Jul 07 19:01	13° Q 50′22	
inferior conj	13684 Aug 01 20:03		2°35'23	evening set	13685 Jul 11 06:32	12° Ω 40′13	
minimum elong	13684 Aug 01 22:18	23° Ω 12'55	2°34'11	inferior conj	13685 Jul 16 17:55	6° Ω 53'33	3°00'25
min. Earth dist.	13684 Aug 04 00:27	20° Ω 44'09	0.64964 AU	minimum elong	13685 Jul 16 19:21	6° Ω 48'57	2°59'20
morning rise	13684 Aug 07 17:56	16° Ω 58'00		min. Earth dist.	13685 Jul 18 07:43	4°Ω52'23	0.66645 AU
desc. node	13684 Aug 11 21:54 13684 Aug 14 06:16	14° Ω 38'57 14° Ω 19'05		morning rise	13685 Jul 22 07:30 13685 Jul 22 21:32	0° £ 29′12 30°₨	
direct morning max el	13684 Aug 27 18:53	22°Ω15'29	27014135	direct	13685 Jul 28 11:47	30 k≌ 27° © 49'55	
morning max ci	13684 Sep 03 14:08	0° m)	27 1433	desc. node	13685 Jul 29 19:20	27°956'19	
	13684 Sep 23 13:47	0∘ ⊽		dose, node	13685 Aug 03 18:51	0°Ω	
morning set	13684 Oct 02 06:04	ა — 15° ჲ 57'20		morning max el	13685 Aug 10 05:54	5° Ω 26'07	26°10'11
asc. node	13684 Oct 05 23:11	23° ≏ 21'06			13685 Aug 29 03:25	0° m)	
max. Earth dist.	13684 Oct 06 16:04	24° ≙ 47'18	1.33273 AU	morning set	13685 Sep 15 05:03	28° m 41'27	
	13684 Oct 09 04:15	0° M			13685 Sep 15 21:54	0∘ ⊽	
				max. Earth dist.	13685 Sep 19 00:25	5° ≏ 55'12	1.35024 AU
superior conj	13684 Oct 10 14:02	2°M58'31	0°42'39	asc. node	13685 Sep 22 19:46	13° ≏ 27'29	
minimum elong	13684 Oct 10 12:05	2°M48'12	0°42'46				
evening rise	13684 Oct 17 16:40	18°M13'12		superior conj	13685 Sep 24 10:19	16° ≙ 43'23	0°15'05
	13684 Oct 23 10:47	0° ∡ ¹		minimum elong	13685 Sep 24 09:28	16° ≏ 39'03	0°15'06
desc. node	13684 Nov 07 18:05	22° х 51'07	22010122	behind sun begin	13685 Sep 24 07:22	16° 2 28'16	
evening max el	13684 Nov 07 20:23	22° 🗷 56'46	22~10'32	behind sun end	13685 Sep 24 11:35	16° ≏ 49'51	
retrograde	13684 Nov 20 13:14	29° 🗷 14'27		ovening riss	13685 Sep 30 19:36	0°M	
evening set min. Earth dist.	13684 Nov 23 22:34 13684 Dec 02 02:37	28° ₹ 49'05 25° ₹ 10'58	0.54608 AU	evening rise	13685 Oct 02 01:14 13685 Oct 17 17:07	2°M34'18 0° <i>≯</i> 7	
inferior conj	13684 Dec 02 02.37 13684 Dec 02 14:31	23 x 10 38 24° x 54'16		evening max el	13685 Oct 17 17:07 13685 Oct 20 17:05	0 x . 3° ∡ '21'27	20°39'30
minimum elong	13684 Dec 02 10:42	24° x 54 10		desc. node	13685 Oct 25 15:27	7°×12'00	20 37 30
morning rise	13684 Dec 10 23:56	21° × ⁷ 07'03	5 5.15	retrograde	13685 Oct 31 23:38	8°×757'40	
				- · · · · · · · · · · · · · · · · · · ·	20.00		

evening set	13685 Nov 03 07:01	8° ∡ ¹44'38		evening max el	13686 Oct 03 03:56	14°M32'27	19°28'22
inferior conj	13685 Nov 12 06:07	4° ∡ 750′15		retrograde	13686 Oct 12 18:52	19°M21'14	
minimum elong	13685 Nov 11 20:18	5° ҂ 04'22	4°55'03	desc. node	13686 Oct 12 12:53	19°M21'03	
min. Earth dist.	13685 Nov 13 08:55	4° ∤ 11'41	0.54610 AU	evening set	13686 Oct 14 15:48	19° M .11'06	
morning rise	13685 Nov 20 09:29	0° ≯ 753′38		inferior conj	13686 Oct 23 08:13	15°M04'35	-3°20'52
direct	13685 Nov 24 18:21	0° ≯ 12'41		minimum elong	13686 Oct 22 23:45	15° M .18'12	3°17'10
morning max el	13685 Dec 08 00:27	6° ∡ ³39'17	23°24'42	min. Earth dist.	13686 Oct 25 18:25	13°MJ31'05	0.55536 AU
asc. node	13685 Dec 19 20:41	22° ҂ 03′27		morning rise	13686 Oct 31 05:36	10°M38'56	
	13685 Dec 24 09:03	0°ප		direct	13686 Nov 05 11:06	9° M ₊37'33	
morning set	13685 Dec 31 12:17	14° る 24'30		morning max el	13686 Nov 19 10:17	16°MJ37'56	25°12'06
				-	13686 Nov 30 06:28	0° ∡ ¹	
superior conj	13686 Jan 07 09:34	29° ප 19'10	1°33'45	asc. node	13686 Dec 06 17:41	10° х 40'41	
minimum elong	13686 Jan 07 10:52	29° පි 26'10	1°34'39	morning set	13686 Dec 16 00:02	29° ∡ ¹06'39	
S	13686 Jan 07 17:09	0° ≈		, and the second	13686 Dec 16 09:56	ರ∘0	
max. Earth dist.	13686 Jan 10 08:25	5° ≈ 37'32	1.33161 AU				
evening rise	13686 Jan 15 04:00	15° ≈ 30'22		superior conj	13686 Dec 22 18:29	13° る 58'35	1°38'01
desc. node	13686 Jan 21 14:24	27°≈42'50		minimum elong	13686 Dec 22 18:41	13° る 59'43	1°39'04
dese. Hour	13686 Jan 22 21:06	0° ∀		max. Earth dist.	13686 Dec 24 10:43	17° る 39'42	1.31996 AU
	13686 Feb 11 22:23	0° Υ		evening rise	13686 Dec 29 23:53	29° る 29'30	1.51770710
evening max el	13686 Feb 18 11:20	7° Υ '08'20	27°22'15	evening rise	13686 Dec 30 05:49	0° ≈	
retrograde	13686 Mar 04 01:58	14° Υ 35'44	27 22 13	desc. node	13687 Jan 08 11:09	0 ~ 17° ≈ 38'01	
evening set	13686 Mar 10 19:58	12° Υ 05'56		desc. Hode	13687 Jan 15 23:22	0° \	
min. Earth dist.	13686 Mar 14 16:22	8° Υ 35'07	0.64581 AU	avanina may al	13687 Jan 31 22:14	0 X 20° ¥ 07'20	27022122
	13686 Mar 17 04:10	8 1 33 07 5° Υ 54'13		evening max el	13687 Feb 14 18:56	20 K 0/20 27° X 31'10	21 33 32
inferior conj		5° Υ 53'20	0°10'53	retrograde		25°\(\frac{1}{10}\)	
minimum elong	13686 Mar 17 04:30			evening set	13687 Feb 21 16:41		0.62507.444
transit middle	13686 Mar 17 04:30	5°Υ53'20	0°10'53	min. Earth dist.	13687 Feb 25 10:43	22°) €07'36	0.62597 AU
transit begin	13686 Mar 17 02:15	5° Y 59'25		inferior conj	13687 Feb 28 08:45	19°) 19'21	
transit end	13686 Mar 17 06:45	5° Y 47'15		minimum elong	13687 Feb 28 11:35	19°) 12'33	1°22'01
asc. node	13686 Mar 17 17:53	5° Y 17′25		asc. node	13687 Mar 04 15:20	15°) 38′06	
morning rise	13686 Mar 23 14:58	0° Υ 29'16		morning rise	13687 Mar 07 09:10	14° 米 11′00	
	13686 Mar 25 04:47	30° ₹		direct	13687 Mar 09 15:55	13°) 46′56	
direct	13686 Mar 26 05:07	29°) 54'38		morning max el	13687 Mar 16 07:12	17° ∺ 09'17	17°46'34
	13686 Mar 27 05:28	0 ° $\mathbf{\gamma}$			13687 Mar 25 12:25	0° Y	
morning max el	13686 Apr 01 13:32	3° Ƴ 11'37	17°52'23	morning set	13687 Apr 01 07:07	11° Y 42'16	
morning set	13686 Apr 18 20:17	28° Ƴ 59'59		desc. node	13687 Apr 06 13:15	20° Y ′52′01	
	13686 Apr 19 10:40	9° 8			13687 Apr 11 21:56	9° 8	
desc. node	13686 Apr 19 16:43	0° 8 25'16					
				superior conj	13687 Apr 13 03:25	2° 8 03'11	-0°50'01
superior conj	13686 May 02 12:47	21° 8 25'10	-1°28'55	minimum elong	13687 Apr 12 22:30	1° 8 42'41	0°49'45
minimum elong	13686 May 02 04:10	20° 8 50'46	1°28'42	max. Earth dist.	13687 Apr 19 18:25	12° 8 52'54	1 44190 411
max. Earth dist.					13007 11p1 17 10.23	12 03234	1.44100 AU
max. Earm dist.	13686 May 07 00:56	28° 8 33'58	1.45365 AU	evening rise	13687 Apr 27 22:30	25° 8 43'49	1.44180 AU
max. Earm dist.	13686 May 07 00:56 13686 May 07 22:50	28° 8 33'58 0° Ⅱ	1.45365 AU	evening rise	•		1.44180 AU
evening rise		_	1.45365 AU	evening rise	13687 Apr 27 22:30	25° 8 43'49	1.44180 AU
	13686 May 07 22:50	0° I I	1.45365 AU	evening rise evening max el	13687 Apr 27 22:30 13687 Apr 30 17:18	25° ႘ 43'49 0°Ⅱ	21°04'53
	13686 May 07 22:50 13686 May 18 10:13	0° П 16° П 13'43	1.45365 AU -0.6m		13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14	25° 8 43'49 0°∏ 0°©	
evening rise	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06	0°Ⅲ 16°Ⅲ13'43 0°ᢒ		evening max el	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50	25°႘43'49 0°Ⅲ 0°໑ 7°໑40'59	
evening rise greatest brilliancy	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25	0°Ⅲ 16°Ⅲ13'43 0°ᢒ 8°ᢒ31'02		evening max el asc. node	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16	25° 8 43'49 0°Ⅲ 0°孪 7°孪40'59 10°孪38'36	
evening rise greatest brilliancy asc. node	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12	0°Ⅲ 16°Ⅲ13'43 0°孪 8°孪31'02 23°孪19'55	-0.6m	evening max el asc. node retrograde	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28	25°843'49 0°II 0°© 7°©40'59 10°©38'36 12°©40'04	
evening rise greatest brilliancy asc. node evening max el	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51	0°II 16°II 13'43 0°© 8°©31'02 23°©19'55 23°©52'13	-0.6m	evening max el asc. node retrograde evening set	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17	21°04'53
evening rise greatest brilliancy asc. node evening max el retrograde	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34	0°II 16°II 13'43 0°© 8°©31'02 23°©19'55 23°©52'13 28°©10'36	-0.6m	evening max el asc. node retrograde evening set inferior conj	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43	21°04'53 3°10'06
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S43'34	-0.6m 19°57'47 3°11'18	evening max el asc. node retrograde evening set inferior conj minimum elong	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40	25°843'49 0°II 0°© 7°©40'59 10°©38'36 12°©40'04 10°©56'17 4°©56'17 4°©44'43 4°©46'44 4°©10'36	21°04'53 3°10'06 3°09'01
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25	0°II 16°II 13'43 0°© 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S43'34 20°S42'09	-0.6m 19°57'47 3°11'18 3°10'16	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20	25°843'49 0°II 0°© 7°©40'59 10°©38'36 12°©40'04 10°©56'17 4°©44'43 4°©46'44 4°©10'36 30°RII	21°04'53 3°10'06 3°09'01
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist.	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28	0°II 16°II 13'43 0°© 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S43'34 20°S42'09 19°S24'17	-0.6m 19°57'47 3°11'18	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22	25° 843'49 0° II 0° 95 7° 9540'59 10° 9538'36 12° 9540'04 10° 9556'17 4° 9546'44 4° 9510'36 30° R.II 28° II 26'24	21°04'53 3°10'06 3°09'01
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S43'34 20°S42'09 19°S24'17 14°S20'55	-0.6m 19°57'47 3°11'18 3°10'16	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:16 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 25 15:27	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S46'44 4°S10'36 30°RII 28°II 26'24 26°II 09'50	21°04'53 3°10'06 3°09'01
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09	0°II 16°II 13'43 0°9 8°931'02 23°919'55 23°952'13 28°910'36 26°943'34 20°942'09 19°924'17 14°920'52 11°949'47	-0.6m 19°57'47 3°11'18 3°10'16	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jul 03 13:52	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S46'44 4°S10'36 30°RII 28°II26'24 26°II09'50 0°S01'03	21°04'53 3°10'06 3°09'01
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 16 16:39	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S42'09 19°S24'17 14°S20'55 11°S49'47 13°S12'47	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jul 03 13:52 13687 Jul 03 13:52	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S46'44 4°S10'36 30°RII 28°II26'24 26°II09'50 0°S01'03 0°S	21°04'53 3°10'06 3°09'01 0.68648 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S42'09 19°S24'17 14°S20'52 11°S49'47 13°S12'47 18°S51'10	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 20 10:22 13687 Jun 03 13:52 13687 Jul 03 13:52 13687 Jul 03 13:22 13687 Jul 06 03:06	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S46'44 4°S10'36 30°RII 28°II26'24 26°II09'50 0°S01'03 0°S 2°S24'26	21°04'53 3°10'06 3°09'01 0.68648 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:20 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 01 21:28 13686 Jul 11 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S42'09 19°S24'17 14°S20'52 11°S49'47 13°S12'47 18°S51'10 0°Ω	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 09 23:56 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S10'36 30°RII 28°II26'24 26°II09'50 0°S01'03 0°S 2°S24'26 0°Ω	21°04'53 3°10'06 3°09'01 0.68648 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:20 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 22 05:22	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S42'09 19°S24'17 14°S20'52 11°S49'47 13°S12'47 18°S51'10 0°Ω 0°ID	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jul 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11 13687 Aug 09 20:01	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S46'44 4°S10'36 30°RII 28°II26'24 26°II09'50 0°S01'03 0°S 2°S24'26 0°A 21°\$\Omega\$40'55	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:20 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Aug 28 11:15	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S42'09 19°S24'17 14°S20'52 11°S49'47 13°S12'47 18°S51'10 0°I 0°III 0°III 0°III 10°IIII'59	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jul 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11 13687 Aug 09 20:01 13687 Aug 13 23:01	25° 843'49 0° II 0° 9 7° 940'59 10° 938'36 12° 940'04 10° 956'17 4° 944'43 4° 946'44 4° 910'36 30° RII 28° II 26'24 26° II 09'50 0° 901'03 0° 9 2° 924'26 0° \(\Omega\$ 21° \(\Omega\$ 40'55 28° \(\Omega\$ 42'10	21°04'53 3°10'06 3°09'01 0.68648 AU
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evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:20 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 12 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Aug 28 11:15 13686 Sep 01 01:02	0°II 16°II 13'43 0°S 8°S31'02 23°S19'55 23°S52'13 28°S10'36 26°S43'28 20°S43'34 20°S42'09 19°S24'17 14°S20'52 11°S49'47 13°S12'47 18°S51'10 0°I 0°I 10°I39'59 17°I05'10	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 15 15:40 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 25 15:27 13687 Jun 03 13:52 13687 Jun 03 13:52 13687 Jun 06 03:06 13687 Jun 27 03:11 13687 Aug 09 20:01 13687 Aug 13 23:01 13687 Aug 14 16:55	25°843'49 0°II 0°S 7°S40'59 10°S38'36 12°S40'04 10°S56'17 4°S44'43 4°S10'36 30°RII 28°II26'24 26°I09'50 0°S01'03 0°S 2°S24'26 0°A 21°A40'55 28°A42'10 0°ID	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 12 23:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Aug 28 11:15 13686 Sep 07 20:15	0° II 16° II 13'43 0° 9 8° 931'02 23° 919'55 23° 952'13 28° 910'36 26° 943'28 20° 942'09 19° 924'17 14° 920'52 11° 949'47 13° 912'47 18° 951'10 0° Ω 0° m 10° m 39'59 17° m 05'10	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37 1.37174 AU -0°17'01	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 15 15:40 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 27 03:11 13687 Jun 27 03:11 13687 Aug 19 20:01 13687 Aug 14 16:55	25° 843'49 0° II 0° 95 7° 9540'59 10° 9538'36 12° 9540'04 10° 9556'17 4° 9544'43 4° 9510'36 30° RII 28° II 26'24 26° II 09'50 0° 9501'03 0° 95 2° 9524'26 0° A 21° \$A40'55 28° \$A42'10 0° III 12° III 30'44	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU -0°51'53
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 123:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 02 02:46 13686 Aug 28 11:15 13686 Sep 01 01:02	0° II 16° II 13'43 0° © 8° © 31'02 23° © 19'55 23° © 52'13 28° © 10'36 26° © 43'28 20° © 43'34 20° © 42'09 19° © 24'17 14° © 20'52 11° © 49'47 13° © 12'47 18° © 51'10 0° Ω 0° m 10° m 39'59 17° m 05'10 29° m 57'28 0° Ω 02'55	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37 1.37174 AU -0°17'01	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 18 21:20 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 03 13:52 13687 Jun 03 13:52 13687 Jun 04 03:06 13687 Jun 05 03:06 13687 Jun 07 03:11 13687 Aug 09 20:01 13687 Aug 14 16:55 13687 Aug 21 15:54 13687 Aug 21 15:54	25° 843'49 0° II 0° 95 7° 9540'59 10° 9538'36 12° 9540'04 10° 956'17 4° 9544'43 4° 9546'44 4° 910'36 30° RII 28° II 26'24 26° II 09'50 0° 901'03 0° 95 2° 924'26 0° R 21° R40'55 28° R42'10 0° II 12° III 30'44 12° III 30'44	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU -0°51'53
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 12 31:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Sep 07 20:15 13686 Sep 07 20:15 13686 Sep 07 20:46	0° II 16° II 13'43 0° © 8° © 31'02 23° © 19'55 23° © 52'13 28° © 10'36 26° © 43'28 20° © 42'09 19° © 24'17 14° © 20'52 11° © 49'47 13° © 12'47 18° © 51'10 0° Ω 0° ID 10° ID 39'59 17° ID 05'10 29° ID 57'28 0° Ω 02'55 0° Ω	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37 1.37174 AU -0°17'01	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 15 15:40 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 20 13:52 13687 Jun 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11 13687 Aug 09 20:01 13687 Aug 14 16:55 13687 Aug 21 15:54 13687 Aug 21 15:54 13687 Aug 21 15:54	25° 843'49 0° II 0° 95 7° 9540'59 10° 9538'36 12° 9540'04 10° 956'17 4° 9544'43 4° 9546'44 4° 9510'36 30° RII 28° II 26'24 26° II 09'50 0° 9501'03 0° 95 2° 9524'26 0° R 21° R40'55 28° R42'10 0° ID 12° ID 30'44 12° ID 48'24 23° ID 37'05	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU -0°51'53
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 25 14:43 13686 Jun 30 22:00 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 01 21:28 13686 Jul 11 23:09 13686 Jul 16 16:39 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Aug 28 11:15 13686 Sep 07 20:15 13686 Sep 07 20:46 13686 Sep 07 20:46 13686 Sep 07 20:46 13686 Sep 07 20:46	0° II 16° II 13'43 0° S 8° S31'02 23° S19'55 23° S52'13 28° S10'36 26° S43'28 20° S42'09 19° S24'17 14° S20'52 11° S49'47 13° S12'47 18° S51'10 0° Ω 0° ID 10° ID 39'59 17° ID 05'10 29° ID 57'28 0° Ω02'55 0° Ω 3° Ω34'14	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37 1.37174 AU -0°17'01	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong asc. node	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 15 15:40 13687 Jun 20 10:22 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11 13687 Aug 10 20:01 13687 Aug 11 15:54 13687 Aug 21 15:54 13687 Aug 21 15:54 13687 Aug 21 15:54 13687 Aug 21 15:54	25° 843'49 0° II 0° 9 7° 9840'59 10° 938'36 12° 9840'04 10° 956'17 4° 9844'43 4° 9846'44 4° 9810'36 30° RII 28° II 26'24 26° II 09'50 0° 901'03 0° 99 2° 924'26 0° R 21° R40'55 28° R42'10 0° II 12° II 30'44 12° II 30'44 12° II 37'05 0° 9	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU -0°51'53
evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist. superior conj minimum elong	13686 May 07 22:50 13686 May 18 10:13 13686 May 27 12:06 13686 Jun 02 06:25 13686 Jun 13 15:12 13686 Jun 14 03:51 13686 Jun 21 17:34 13686 Jun 25 14:43 13686 Jun 30 22:25 13686 Jul 01 21:28 13686 Jul 06 05:45 13686 Jul 11 23:09 13686 Jul 12 31:09 13686 Jul 16 16:39 13686 Jul 23 16:25 13686 Aug 02 02:46 13686 Aug 02 02:46 13686 Aug 22 05:22 13686 Sep 07 20:15 13686 Sep 07 20:15 13686 Sep 07 20:46	0° II 16° II 13'43 0° © 8° © 31'02 23° © 19'55 23° © 52'13 28° © 10'36 26° © 43'28 20° © 42'09 19° © 24'17 14° © 20'52 11° © 49'47 13° © 12'47 18° © 51'10 0° Ω 0° ID 10° ID 39'59 17° ID 05'10 29° ID 57'28 0° Ω 02'55 0° Ω	-0.6m 19°57'47 3°11'18 3°10'16 0.67880 AU 24°48'37 1.37174 AU -0°17'01	evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct desc. node morning max el morning set max. Earth dist.	13687 Apr 27 22:30 13687 Apr 30 17:18 13687 May 21 13:14 13687 May 28 02:50 13687 May 31 12:16 13687 Jun 05 16:28 13687 Jun 15 05:51 13687 Jun 15 05:16 13687 Jun 15 15:40 13687 Jun 15 15:40 13687 Jun 20 10:22 13687 Jun 25 15:27 13687 Jun 20 13:52 13687 Jun 03 13:52 13687 Jul 03 13:52 13687 Jul 06 03:06 13687 Jul 27 03:11 13687 Aug 09 20:01 13687 Aug 14 16:55 13687 Aug 21 15:54 13687 Aug 21 15:54 13687 Aug 21 15:54	25° 843'49 0° II 0° 95 7° 9540'59 10° 9538'36 12° 9540'04 10° 956'17 4° 9544'43 4° 9546'44 4° 9510'36 30° RII 28° II 26'24 26° II 09'50 0° 9501'03 0° 95 2° 9524'26 0° R 21° R40'55 28° R42'10 0° ID 12° ID 30'44 12° ID 48'24 23° ID 37'05	21°04'53 3°10'06 3°09'01 0.68648 AU 23°19'22 1.39520 AU -0°51'53

	13687 Sep 21 02:16	0°M,		evening rise	13688 Aug 13 11:34	13° Mp 42'21	
retrograde evening set	13687 Sep 24 07:32 13687 Sep 26 05:50	0°M.38'08 0°M.25'08		asc. node	13688 Aug 13 09:28 13688 Aug 22 16:07	13°Mp32'41 0°₽	
evening set	13687 Sep 20 05:30 13687 Sep 27 15:49	30°RΩ		evening max el	13688 Aug 29 12:17	0 = 9° ჲ 10'32	18°11'11
desc. node	13687 Sep 29 10:23	29° ♀ 12'12		retrograde	13688 Sep 05 15:00	12° ♀ 47'45	
inferior conj	13687 Oct 04 06:09	25° ≏ 59'38	-1°31'56	evening set	13688 Sep 07 19:56	12° ≏ 27'26	
minimum elong	13687 Oct 04 02:24	26° ≏ 06'40	1°30'05	inferior conj	13688 Sep 15 01:47	7° £ 41'06	0°04'44
min. Earth dist.	13687 Oct 07 09:46	23° ≏ 38'34	0.57216 AU	minimum elong	13688 Sep 15 01:57	7° £ 40'45	0°04'42
morning rise	13687 Oct 11 19:31	20° ₽ 56'20		transit middle	13688 Sep 15 01:57	7° £ 40'45	0°04'42
direct	13687 Oct 17 18:17	19° £ 28'49 26° £ 56'28	26°41'56	transit begin transit end	13688 Sep 14 22:41 13688 Sep 15 05:13	7° ♀ 47'52 7° ♀ 33'36	
morning max el	13687 Nov 01 00:50 13687 Nov 03 23:35	20 <u>=</u> 30 28 0°ML	20 41 30	desc. node	13688 Sep 15 07:54	7° ≗ 33 30 7° ≗ 27'42	
asc. node	13687 Nov 23 14:35	29°M49'26		min. Earth dist.	13688 Sep 18 08:50	4° £ 49'25	0.59361 AU
	13687 Nov 23 16:48	0° ∡ ¹		morning rise	13688 Sep 22 04:35	2° £ 03'51	
morning set	13687 Nov 30 10:07	13° ∡ ¹40′10		direct	13688 Sep 28 15:19	0° ≙ 08'46	
				morning max el	13688 Oct 12 22:52		27°39'32
superior conj	13687 Dec 07 05:40	28° ∡ ¹41'13	1°36'14		13688 Oct 29 17:02	0° M ₊	
minimum elong	13687 Dec 07 04:49	28° ∡ 36'31	1°37'15	asc. node	13688 Nov 09 11:24	19°M21'22	
max. Earth dist.	13687 Dec 07 17:38	29° х 48′02	1.31333 AU	morning set	13688 Nov 13 16:47	28°M00'32	
evening rise	13687 Dec 07 19:47 13687 Dec 14 02:44	0°る 13°る44'54		max. Earth dist.	13688 Nov 14 15:16 13688 Nov 20 01:54	0° द्र ⁷ 11° द्र ⁷ 56'09	1.31192 AU
evening rise	13687 Dec 14 02:44 13687 Dec 22 07:17	0°≈		max. Larm dist.	13000 NOV 20 01.34	11 × 3009	1.31192 AU
desc. node	13687 Dec 26 08:02	7°≈07'43		superior conj	13688 Nov 20 17:13	13° ∡ "21'38	1°28'37
	13688 Jan 11 18:54	0° ∀		minimum elong	13688 Nov 20 15:31	13° ∡ 12'11	1°29'26
evening max el	13688 Jan 14 04:21	2° 升 24′21	27°11'47	evening rise	13688 Nov 27 10:19	28° ∡ 11′05	
retrograde	13688 Jan 28 03:41	9°) 40′16			13688 Nov 28 06:41	8°0	
evening set	13688 Feb 03 22:57	7° ∺ 37'51		desc. node	13688 Dec 12 05:01	26° පි 01'58	
min. Earth dist.	13688 Feb 07 18:50	4°) 54'01	0.60428 AU		13688 Dec 14 19:12	0° ≈	
inferior conj	13688 Feb 10 22:55	2° ★ 13'25		evening max el	13688 Dec 26 03:20	13°≈50'56	26°15'24
minimum elong	13688 Feb 11 04:52 13688 Feb 13 17:03	2°) 00'49 30°R≈	2°42'05	retrograde evening set	13689 Jan 09 02:16 13689 Jan 15 10:49	20°≈56'07 19°≈19'17	
morning rise	13688 Feb 18 13:58	27°≈24'29		min. Earth dist.	13689 Jan 19 16:47	19 ≈ 1917 16° ≈ 42'41	0.58272 AU
asc. node	13688 Feb 19 12:46	27°≈12'26		inferior conj	13689 Jan 22 19:03	14°≈26'33	
direct	13688 Feb 20 15:43	27° ≈ 07'21		minimum elong	13689 Jan 23 03:35	14° ≈ 10'51	4°05'10
	13688 Feb 27 02:42	0°)		morning rise	13689 Jan 30 23:20	9° ≈ 58'55	
morning max el	13688 Feb 27 22:23	0°) 45′44	17°59'12	direct	13689 Feb 02 00:17	9° ≈ 45′00	
morning set	13688 Mar 14 12:08	25° ¥ 14'58		asc. node	13689 Feb 05 10:11	10° ≈ 26′08	
	13688 Mar 17 02:07	0° Υ		morning max el	13689 Feb 10 07:11	13° ≈ 49'35	18°31'46
desc. node	13688 Mar 23 09:47	11° Y 25′24		morning set	13689 Feb 21 06:53 13689 Feb 26 05:50	0° ∺ 9° ∺ 21'21	
superior conj	13688 Mar 24 18:11	13° Ƴ 48'16	-0°10'45	morning set	13089 Feb 20 03.30	9 /(2121	
minimum elong	13688 Mar 24 17:16	13° Υ 44'14		superior conj	13689 Mar 07 05:56	26°) 30'14	0°24'12
behind sun begin	13688 Mar 24 11:17	13° Υ 17'56		minimum elong	13689 Mar 07 07:35	26° ¥ 37'51	0°24'06
behind sun end	13688 Mar 24 23:15	14° Y 10'28			13689 Mar 09 03:35	0° Y	
max. Earth dist.	13688 Apr 01 07:20	26° Y 40'22	1.42430 AU	desc. node	13689 Mar 10 06:18	2° Y 01'07	
	13688 Apr 03 07:56	0°8		max. Earth dist.	13689 Mar 14 15:53	9° Ƴ 47'36	1.40311 AU
evening rise	13688 Apr 06 23:44	5° 8 53'28		evening rise	13689 Mar 18 21:13	16° Y 57′22	
avanina may al	13688 Apr 22 23:06	0°Ⅱ 21°Ⅲ21'02	22021120		13689 Mar 27 00:24	0°Ⅱ 0°8	
evening max el asc. node	13688 May 09 20:48 13688 May 17 09:27	21° Ⅱ 31'02 26° Ⅱ 52'13	22-21-38	evening max el	13689 Apr 17 13:51 13689 Apr 22 11:38		23°42'39
retrograde	13688 May 19 14:02	20 H 32 13		retrograde	13689 May 03 08:44	11° II 46'38	23 42 39
evening set	13688 May 24 08:30	25° Ⅱ 14'50		asc. node	13689 May 04 06:44	11° II 42'52	
inferior conj	13688 May 29 15:24	18° Ⅱ 53'46	2°58'05	evening set	13689 May 08 14:47	9° Ⅱ 33'40	
minimum elong	13688 May 29 13:59	18° Ⅱ 58'42	2°56'53	min. Earth dist.	13689 May 13 08:53	4° Ⅱ 00'08	0.68766 AU
min. Earth dist.	13688 May 29 12:14	19° Ⅱ 04'50	0.68942 AU	inferior conj	13689 May 14 00:42	3° Ⅱ 05'58	2°35'49
morning rise	13688 Jun 03 19:19	12° Ⅱ 41'39		minimum elong	13689 May 13 22:43	3° Ⅱ 12'45	2°34'30
direct	13688 Jun 08 11:40	10° I I43'37	21051120		13689 May 16 09:04	30°R 8	
morning max el desc. node	13688 Jun 17 16:23 13688 Jun 19 10:58	16° Ⅱ 05'59 17° Ⅱ 57'52	21°51'38	morning rise direct	13689 May 19 06:38	27° 8 01'29 25° 8 23'57	
uese. Houe	13688 Jun 19 10:38 13688 Jun 29 00:15	0° ஒ		morning max el	13689 May 23 10:28 13689 May 31 11:22	25° 8 23'37'29° 8 57'44	20°32'35
	13688 Jul 19 03:41	0° U		morning max ci	13689 May 31 12:17	29 U 37 44	20 3233
morning set	13688 Jul 20 04:01	1° Ω 36'46		desc. node	13689 Jun 06 07:59	6° ∏ 44'14	
max. Earth dist.	13688 Jul 26 00:22	11° Ω 07'34	1.41798 AU		13689 Jun 22 15:18	0ංම 	
				morning set	13689 Jun 29 13:42	10°935'17	
superior conj	13688 Aug 02 17:01	24° Ω 14′05		max. Earth dist.	13689 Jul 08 08:43	24° © 26'47	1.43735 AU
minimum elong	13688 Aug 02 23:28	24° Ω 42′23	1°26'14		13689 Jul 11 18:57	0 $^{\circ}$ Ω	
	13688 Aug 05 23:09	0° m ∕					

superior conj	13689 Jul 14 19:32	4°Ω58'54		superior conj	13690 Jun 24 22:34	14° © 45'13	
minimum elong	13689 Jul 15 02:36	5° Ω 28'17	1°55'45	minimum elong	13690 Jun 25 01:35	14° © 57'13	2°12'58
evening rise	13689 Jul 27 05:27	26° Ω 14'13			13690 Jul 04 08:35	0 \circ Ω	
	13689 Jul 29 09:03	0° m)		evening rise	13690 Jul 09 02:31	7° Ω 51'29	
asc. node	13689 Jul 31 06:08	3°M) 16'29		asc. node	13690 Jul 18 02:52	22° Ω 43′22	
evening max el	13689 Aug 13 01:39	22° m 19'13	18°02'42		13690 Jul 22 22:01	0° m)	
retrograde	13689 Aug 19 14:09	25° Mp 41'28		evening max el	13690 Jul 27 16:03	5° Mp 47'49	18°12'43
evening set	13689 Aug 22 03:11	25° To 10'10		retrograde	13690 Aug 03 00:33	9° Mp 09'20	
inferior conj	13689 Aug 28 16:32	20° Mp 04'13	1°19'58	evening set	13690 Aug 05 21:59	8° Mp 24'21	
minimum elong	13689 Aug 28 18:38	19° m 58'55	1°18'58	inferior conj	13690 Aug 11 22:21	3° m 00'57	
min. Earth dist.	13689 Aug 31 16:54	17° m 03'36	0.61651 AU	minimum elong	13690 Aug 12 00:49	2° m 53'57	
desc. node	13689 Sep 02 05:26	15° m 40'02		min. Earth dist.	13690 Aug 14 10:37	0° mp 11'45	0.63831 AU
morning rise	13689 Sep 04 07:31	14° Mp 02'11			13690 Aug 14 14:58	30°R Ω	
direct	13689 Sep 10 23:32	11° m 43'51		morning rise	13690 Aug 18 02:01	26° Ω 43'58	
morning max el	13689 Sep 25 03:45	19° m 42'07	27°58'38	desc. node	13690 Aug 20 02:57	25° Ω 23'07	
	13689 Oct 03 22:57	0∘ ⊽		direct	13690 Aug 24 17:03	24° Ω 10′08	
_	13689 Oct 22 15:28	0° M ₊			13690 Sep 05 06:17	0° m	
asc. node	13689 Oct 27 08:09	9°M₀09'46		morning max el	13690 Sep 07 13:11		27°40'07
morning set	13689 Oct 28 18:05	12°M02'55			13690 Sep 28 06:01	0∘ 亚	
max. Earth dist.	13689 Nov 03 07:50	23°M55'27	1.31579 AU	morning set	13690 Oct 12 11:33	25° ≏ 40'41	
				asc. node	13690 Oct 14 04:48	29° ₾ 08'29	
superior conj	13689 Nov 05 03:18	27°M54'30	1°15'14		13690 Oct 14 14:54	0°M√	
minimum elong	13689 Nov 05 01:06	27° M .42'19	1°15'46	max. Earth dist.	13690 Oct 17 07:31	5° ™ 35'58	1.32505 AU
	13689 Nov 06 01:59	0° ∡ ¹					
evening rise	13689 Nov 11 20:38	12° ∡ ¹42'57		superior conj	13690 Oct 20 09:51	12° M ₊13'17	0°56'10
	13689 Nov 20 10:29	0°ಕ		minimum elong	13690 Oct 20 07:37	12°M01'16	0°56'24
desc. node	13689 Nov 29 02:06	14° る 07'30		evening rise	13690 Oct 27 07:46	27° ™ 14'28	
evening max el	13689 Dec 07 18:06	24° る 27'32	24°49'45		13690 Oct 28 14:51	0° ∡	
	13689 Dec 15 13:55	0° ≈			13690 Nov 15 01:36	0°ಕ	
retrograde	13689 Dec 21 12:27	1° ≈ 20′20		desc. node	13690 Nov 15 23:18	1° る 05'13	
evening set	13689 Dec 27 00:15	0°≈13'22		evening max el	13690 Nov 19 03:54	4° る 30'30	23°08'30
	13689 Dec 27 13:16	30°ਲ਼ੑੑੑੑੑ		retrograde	13690 Dec 02 09:45	11° る 05'26	
min. Earth dist.	13690 Jan 01 05:58	27° る 27'49	0.56381 AU	evening set	13690 Dec 06 14:42	10° る 26'59	
inferior conj	13690 Jan 03 18:39	25° る 51'03		min. Earth dist.	13690 Dec 13 13:25	7° る 13'17	
minimum elong	13690 Jan 04 02:33	25° る 38'24	5°17'32	inferior conj	13690 Dec 14 22:35	6° る 25'34	
morning rise	13690 Jan 12 07:02	21° る 44'51		minimum elong	13690 Dec 15 00:05	6° る 23'24	5°55'19
direct	13690 Jan 14 14:13	21° る 30'10		morning rise	13690 Dec 23 11:01	2° る 35'36	
asc. node	13690 Jan 23 07:32	25° පි 18'57		direct	13690 Dec 26 09:14	2° る 15'23	
morning max el	13690 Jan 24 05:32	26° る 09'45	19°26'18	morning max el	13691 Jan 06 14:03	7° る 36'31	20°44'04
	13690 Jan 27 15:04	0° ≈		asc. node	13691 Jan 10 04:50	11° る 35'39	
morning set	13690 Feb 10 08:05	23° ≈ 49'36			13691 Jan 21 10:47	0° ≈	
	13690 Feb 13 09:51	0° ∀		morning set	13691 Jan 25 15:47	8° ≈ 29'49	
superior conj	13690 Feb 18 10:09	9° ¥ 57'00	0°52'39	superior conj	13691 Feb 02 02:28	23°≈55'58	1°14'01
minimum elong	13690 Feb 18 12:49	10° 米 10′01	0°52'41	minimum elong	13691 Feb 02 05:04	24°≈09'13	1°14'23
max. Earth dist.	13690 Feb 24 22:27	22° ∺ 15'56	1.38057 AU		13691 Feb 05 02:43	0° ∀	
desc. node	13690 Feb 25 02:50	22°) ₹35'58		max. Earth dist.	13691 Feb 07 06:47		1.35899 AU
evening rise	13690 Feb 28 15:37	28° ¥ 54'53		evening rise	13691 Feb 11 04:14	11°) (37′40	
	13690 Mar 01 06:32	0° Υ		desc. node	13691 Feb 11 23:23	13°) €05'43	
	13690 Mar 20 09:17	0°B			13691 Feb 21 19:33	0° Υ	
evening max el	13690 Apr 05 01:16	19° 8 16'00	25°01'17		13691 Mar 15 15:06	0°8	
retrograde	13690 Apr 16 23:27	26° 8 11'59		evening max el	13691 Mar 18 14:47	3° 8 05'49	26°10'26
asc. node	13690 Apr 21 04:05	24° 8 56'20		retrograde	13691 Mar 31 09:20	10° 8 23'19	
evening set	13690 Apr 22 17:12	23° 8 48'00		evening set	13691 Apr 06 14:04	7° 8 52'25	
min. Earth dist.	13690 Apr 27 03:27	18° 8 50'44	0.68133 AU	asc. node	13691 Apr 08 01:30	6° 8 31'16	
inferior conj	13690 Apr 28 07:50	17° 8 17'29	2°03'18	min. Earth dist.	13691 Apr 10 17:50	3° 8 30'25	0.67057 AU
minimum elong	13690 Apr 28 05:41	17° 8 24'34	2°01′58	inferior conj	13691 Apr 12 10:46	1° 8 23'58	1°20'05
morning rise	13690 May 03 18:27	11° 8 21'59		minimum elong	13691 Apr 12 08:59	_	1°19'00
direct	13690 May 07 10:21	10° 8 04'57			13691 Apr 13 14:17	30° ₹ Υ	
morning max el	13690 May 14 13:52	14° 8 00'50	19°26'54	morning rise	13691 Apr 18 04:43	25° Y 38'53	
desc. node	13690 May 24 04:53	26° 8 06'49		direct	13691 Apr 21 09:36	24° Y '40'45	
	13690 May 26 21:14	0°Щ		morning max el	13691 Apr 27 23:34	28° Y 11'54	18°36'59
greatest brilliancy	13690 May 27 05:43	0° Ц 31'09	-0.7m		13691 Apr 29 16:33	0° 8	
morning set	13690 Jun 08 15:32	19° Ⅱ 18'12		desc. node	13691 May 11 01:39	15° 8 55'50	
	13690 Jun 15 13:33	0°©		morning set	13691 May 19 07:00	28° 8 45'14	
max. Earth dist.	13690 Jun 20 23:38	8° 5 29'06	1.45110 AU		13691 May 20 02:04	Π \circ 0	

superior conj	13691 Jun 04 09:07	23° Ⅱ 54′04		minimum elong	13692 May 13 09:52	2° Ⅲ 32′03	1°48'14
minimum elong	13691 Jun 04 04:27	23° Ⅱ 35'52	2°10'46	max. Earth dist.	13692 May 16 14:13	7° Ⅱ 31'39	1.45723 AU
max. Earth dist.	13691 Jun 03 18:23	22° ∏ 56'33	1.45788 AU	evening rise	13692 May 29 21:26	28° Ⅱ 10′04	
	13691 Jun 08 06:41	0			13692 May 31 01:56	0 \circ	
evening rise	13691 Jun 19 23:12	18° © 27'25		greatest brilliancy	13692 Jun 11 17:37	17° © 45'26	-0.7m
	13691 Jun 27 05:36	0 \circ Ω		asc. node	13692 Jun 20 20:35	0° Ω 19'03	
greatest brilliancy	13691 Jun 27 15:04	0° Ω 37'18	-0.9m		13692 Jun 20 14:16	$0^{\circ}\Omega$	
asc. node	13691 Jul 04 23:40	11°Ω47'11		evening max el	13692 Jun 23 12:33	3°Ω15'40	19°25'13
evening max el	13691 Jul 11 04:28	19° Ω 28'52	18°40'32	retrograde	13692 Jun 30 15:30	7° Ω 14'53	
retrograde	13691 Jul 17 18:05	23° Ω 03'05		evening set	13692 Jul 04 06:55	5° Ω 57'45	200 (120
evening set	13691 Jul 21 00:14	22°Ω02'32	2047152	inferior conj	13692 Jul 09 16:11		3°06'38
inferior conj	13691 Jul 26 15:21	16° Ω 23'51		minimum elong	13692 Jul 09 17:12	0° £ 02'00	3°05'34
minimum elong	13691 Jul 26 17:18	16° Ω 17'51	2°46'44	: E 4 E 4	13692 Jul 09 17:48	30°R©	0.67210 ATT
min. Earth dist.	13691 Jul 28 13:30	14° Ω 01'47	0.65722 AU	min. Earth dist.	13692 Jul 10 23:53	28°521'03	0.67219 AU
morning rise desc. node	13691 Aug 01 09:24	10° Ω 00'09 7° Ω 22'15		morning rise direct	13692 Jul 15 02:57 13692 Jul 21 02:50	23°540'59 21°504'04	
direct	13691 Aug 07 00:23 13691 Aug 07 18:33	$7^{\circ}\Omega 20'09$		desc. node	13692 Jul 21 02.30 13692 Jul 23 21:46	21°933'01	
morning max el	13691 Aug 07 18:33	15° Ω 10'14	26950/01	morning max el	13692 Jul 23 21:40 13692 Aug 02 11:21	28°\$28'09	25°37'02
morning max er	13691 Aug 21 00.27 13691 Sep 02 04:23	0°M)	20 3001	morning max er	13692 Aug 02 11.21 13692 Aug 03 22:29	28 3 28 09	23 37 02
	13691 Sep 21 00:28	0∘ ⊽			13692 Aug 05 22:29 13692 Aug 25 22:22	0°m)	
morning set	13691 Sep 25 18:21	ა _ 8° ჲ 47'28		morning set	13692 Sep 07 10:45	21° mg 13'51	
max. Earth dist.	13691 Sep 29 21:52	16° £ 54'36	1.33963 AU	max. Earth dist.	13692 Sep 11 02:07	27° m ₀ 58'50	1.35896 AU
asc. node	13691 Oct 01 01:24	19° £ 13'31	1.55705 AC	max. Lartii dist.	13692 Sep 12 03:35	ე∘ 亞	1.55670 AC
asc. node	13071 OCT 01 01.24	17 —1331		asc. node	13692 Sep 16 21:58	o − 9° ≏ 20'34	
superior conj	13691 Oct 04 10:38	26° ≏ 12'40	0°31'34	use. Houe	15072 Sep 10 21.50) — 2034	
minimum elong	13691 Oct 04 09:04	26° ₽ 04'24	0°31'38	superior conj	13692 Sep 17 02:56	9° ≏ 45'29	0°01'57
minimum crong	13691 Oct 06 05:49	0°M	0 31 30	minimum elong	13692 Sep 17 02:48	9° ≏ 44'51	0°02'00
evening rise	13691 Oct 11 17:52	11°M41'06		behind sun begin	13692 Sep 16 20:36	9° ₽ 13'46	0 02 00
e vennig 1190	13691 Oct 21 02:36	0° ⊼		behind sun end	13692 Sep 17 09:00	10° ≙ 16'00	
evening max el	13691 Oct 31 17:58	14° ₹ ³37'03	21°29'37	evening rise	13692 Sep 25 00:49	25° £ 57'06	
desc. node	13691 Nov 02 20:34	16° ₹ 31'21			13692 Sep 27 00:32	0°M	
retrograde	13691 Nov 12 21:54	20° х 39′18		evening max el	13692 Oct 12 20:37	25°M20'41	20°06'36
evening set	13691 Nov 15 18:21	20° ₹ 20'40		desc. node	13692 Oct 19 17:56	29°M58'54	
inferior conj	13691 Nov 24 14:48	16° ∡ ¹27'17	-5°36'31		13692 Oct 19 19:14	0° ∡ ¹	
minimum elong	13691 Nov 24 07:37	16° ∡ ³37′23	5°34'28	retrograde	13692 Oct 23 10:30	0° ∡ ¹36'33	
min. Earth dist.	13691 Nov 24 19:25	16° ∡ ¹20'49	0.54495 AU	evening set	13692 Oct 25 11:22	0° ∡ ¹25'45	
morning rise	13691 Dec 02 21:39	12° ∡ ³38'36		-	13692 Oct 27 05:43	30°RM	
direct	13691 Dec 06 17:11	12° ∡ °07′05		inferior conj	13692 Nov 03 09:19	26°M27'51	-4°20'26
morning max el	13691 Dec 19 08:43	18° ∡ 11'33	22°22'23	minimum elong	13692 Nov 02 23:18	26°M42'51	4°16'38
asc. node	13691 Dec 28 02:00	28° ₹ 59'00		min. Earth dist.	13692 Nov 05 03:07	25°M25'16	0.54899 AU
	13691 Dec 28 17:51	5°0		morning rise	13692 Nov 11 10:10	22° M $20'23$	
morning set	13692 Jan 10 02:34	23° る 15'11		direct	13692 Nov 16 04:10	21°M31'18	
	13692 Jan 13 06:25	0° ≈		morning max el	13692 Nov 29 19:05	28°M13'56	24°11'14
					13692 Dec 01 13:35	0° ∡ ¹	
superior conj	13692 Jan 17 03:24	8° ≈ 17'13	1°28'26	asc. node	13692 Dec 13 23:04	17° ∡ 13′23	
minimum elong	13692 Jan 17 05:16	8° ≈ 27'08	1°29'10		13692 Dec 20 18:30	0°ಕ	
max. Earth dist.	13692 Jan 20 21:08	16° ≈ 05'43	1.34040 AU	morning set	13692 Dec 24 14:29	8° පි 00'18	
evening rise	13692 Jan 25 07:36	24°≈57'04				_	
	13692 Jan 27 23:14	0° ∀		superior conj	13692 Dec 31 10:06	22° る 52'32	
desc. node	13692 Jan 29 19:59	3° ¥ 26′21		minimum elong	13692 Dec 31 10:57	22° ろ 57'07	
	13692 Feb 15 07:32	0°Υ		max. Earth dist.	13693 Jan 02 19:20		1.32606 AU
evening max el	13692 Feb 29 04:19	16° Y 44'57	27°02'43		13693 Jan 03 17:20	0° ≈	
retrograde	13692 Mar 13 13:34	24° Y 12'24		evening rise	13693 Jan 07 22:22	8°≈44'44	
evening set	13692 Mar 20 03:26	21° Υ 40'11	0.65500.477	desc. node	13693 Jan 15 16:40	23°≈33'02	
min. Earth dist.	13692 Mar 24 02:02	17° Υ 51'30	0.65580 AU		13693 Jan 19 09:47	0°) €	27020154
asc. node	13692 Mar 24 22:58	16°Υ52'32	0025125	evening max el	13693 Feb 10 16:56	0° Υ 03'26 0° Υ	27°30′54
inferior conj	13692 Mar 26 07:14	15° Υ 20'03 15° Υ 22'02	0°25'35	ratro are de	13693 Feb 10 15:30	7° Υ 30'36	
minimum elong	13692 Mar 26 06:32	9° Υ 47'09	0°25'08	retrograde	13693 Feb 24 11:04	5° Υ 04'03	
morning rise direct	13692 Apr 01 11:10	9° Υ '47'09 9° Υ '05'02		evening set	13693 Mar 03 07:04	3°γ′04′03 1° γ ′45′24	0.63761 AU
morning max el	13692 Apr 04 06:11 13692 Apr 10 14:31	9°γ'05'02 12° Υ '24'10	18°03'45	min. Earth dist.	13693 Mar 07 02:10 13693 Mar 08 19:21	1° γ 45 24 30° Ŗ光	0.03/01 AU
morning max er	13692 Apr 10 14:31 13692 Apr 23 04:26	0° 8	10 0343	inferior conj	13693 Mar 08 19:21 13693 Mar 09 18:34	30°KX 28° X 59'41	0.040,56
desc. node	13692 Apr 25 04:26 13692 Apr 26 22:18	6° 8 03'46		minimum elong	13693 Mar 09 18:34 13693 Mar 09 19:50	28° X 59'41 28° X 56'23	
morning set	13692 Apr 20 22.18 13692 Apr 29 01:18	9° 8 31'15		asc. node	13693 Mar 11 20:25	26°\(\frac{1}{1}\)55'24	U 3/71
morning set	13692 Apr 29 01:18 13692 May 11 19:19	0° Π		morning rise	13693 Mar 16 10:55	23°) 41'19	
	15072 Way 11 19.19	ν <u>н</u>		direct	13693 Mar 18 21:35	23° X 11'43	
superior conj	13692 May 13 18:54	3° Ⅱ 07'37	-1°48'08	morning max el	13693 Mar 25 08:05		17°47'42
superior conj	13072 Iviay 13 10.34	J 110131	1 70 00	morning max ci	15075 IVIGI 25 00.05	20 N 30 03	1/ 4/74

	13693 Mar 28 09:32	0° Ƴ		desc. node	13694 Mar 31 15:26	16° Ƴ 55'34	
morning set	13693 Apr 10 22:59	21° Y '36'44					
desc. node	13693 Apr 13 18:53	26° Y °25′24		superior conj	13694 Apr 04 21:21	24° Y 15'10	
	13693 Apr 15 21:42	0°8		minimum elong	13694 Apr 04 18:15	24° Y ′01'57	0°32'53
					13694 Apr 08 07:19	$0^{\circ}S$	
superior conj	13693 Apr 23 20:21	13° 8 08'23	-1°12'54	max. Earth dist.	13694 Apr 12 01:06	6° 8 08'58	1.43502 AU
minimum elong	13693 Apr 23 13:03	12° 8 38'43	1°12'36	evening rise	13694 Apr 19 01:09	17° 8 17'13	
max. Earth dist.	13693 Apr 29 09:05	22° 8 00'38	1.44937 AU		13694 Apr 27 09:10	Π \circ 0	
	13693 May 04 11:15	Π \circ 0			13694 May 19 14:42	0 \circ ∞	
evening rise	13693 May 09 08:43	7° Ⅱ 33'09		evening max el	13694 May 20 11:50	0° © 54'24	21°36'41
	13693 May 24 09:10	0 \circ \odot		asc. node	13694 May 25 14:42	5° © 01'37	
evening max el	13693 Jun 06 15:03	17° 5 04'48	20°24'56	retrograde	13694 May 29 12:43	6°5911'31	
asc. node	13693 Jun 07 17:35	18° © 08'28		evening set	13694 Jun 03 00:53	4° © 20'53	
retrograde	13693 Jun 14 14:19	21° © 39'29			13694 Jun 06 21:39	30° Ŗ Ⅱ	
evening set	13693 Jun 18 15:45	20° © 05'20		inferior conj	13694 Jun 08 06:58	28° Ⅲ 05′11	3°06'15
inferior conj	13693 Jun 23 22:09	14° © 00'33	3°12'10	minimum elong	13694 Jun 08 06:00	28° Ⅲ 08'32	3°05'07
minimum elong	13693 Jun 23 22:08	14° © 00'36	3°11'07	min. Earth dist.	13694 Jun 08 11:12	27° Ⅲ 50′27	0.68836 AU
min. Earth dist.	13693 Jun 24 15:49	12° © 59'59	0.68267 AU	morning rise	13694 Jun 13 10:56	21° Ⅱ 49'34	
morning rise	13693 Jun 29 04:12	7° 5 39'24		direct	13694 Jun 18 10:42	19° Ⅱ 40′29	
direct	13693 Jul 04 16:35	5° © 13'33		desc. node	13694 Jun 27 16:16	24° Ⅲ 51′28	
desc. node	13693 Jul 10 19:04	7° © 31'32		morning max el	13694 Jun 28 08:49	25° Ⅲ 32'16	22°41'25
morning max el	13693 Jul 15 21:29	11° 9 56'07	24°10'57		13694 Jul 02 10:02	0 \circ \odot	
	13693 Jul 30 09:10	$0^{\circ}\Omega$			13694 Jul 23 20:40	$0^{\circ}\Omega$	
	13693 Aug 18 16:51	0° m)		morning set	13694 Aug 01 06:47	13° Ω 22′26	
morning set	13693 Aug 20 08:22	2° Mp 48'58		max. Earth dist.	13694 Aug 05 23:38	21° Ω 12'57	1.40515 AU
max. Earth dist.	13693 Aug 24 00:23	9° m 15'00	1.38163 AU		13694 Aug 11 01:13	0° ™	
superior conj	13693 Aug 31 07:19	22° Tp 43'33		superior conj	13694 Aug 13 19:40	4° TD 57'13	
minimum elong	13693 Aug 31 09:30	22° m 54'02	0°31'26	minimum elong	13694 Aug 14 00:42	5° m ,19'57	1°06'34
asc. node	13693 Sep 03 18:31	29° Tp 26'10		asc. node	13694 Aug 21 15:06	19° m 26'45	
	13693 Sep 04 01:25	0∘ ⊽		evening rise	13694 Aug 23 18:34	23° m/30'22	
evening rise	13693 Sep 09 02:06	9° Ω 56'12			13694 Aug 27 05:29	0∘ ⊽	10024151
	13693 Sep 20 03:11	0°ጤ 6°ጤ53'16	19°04'52	evening max el	13694 Sep 08 17:29 13694 Sep 16 09:14	19° £ 10'51 23° £ 03'25	18°24'51
evening max el retrograde	13693 Sep 25 13:26 13693 Oct 04 12:10	11°M22'24	19 04 32	retrograde evening set	13694 Sep 18 10:07	23 ⊆ 03 23 22° ⊆ 47'42	
evening set	13693 Oct 04 12:10 13693 Oct 06 08:53	11°M11'32		desc. node	13694 Sep 23 12:55	22 ≅ 47 42 20° £ 11'02	
desc. node	13693 Oct 06 08:33	11°M08'12		inferior conj	13694 Sep 26 02:28	18° ⊆ 12'57	-0°48'38
inferior conj	13693 Oct 14 19:09	6°M57'38	-2°34'17	minimum elong	13694 Sep 26 00:36	18° ⊆ 16'41	0°47'40
minimum elong	13693 Oct 14 12:35	7°ML08'51		min. Earth dist.	13694 Sep 29 08:54	15° ⊆ 36'45	0.58088 AU
min. Earth dist.	13693 Oct 17 14:45	5°M02'25	0.56179 AU	morning rise	13694 Oct 03 11:38	12° ♀ 54'32	
morning rise	13693 Oct 22 13:30	2°M16'34		direct	13694 Oct 09 16:10	11° ≏ 15'30	
direct	13693 Oct 28 03:12	1°ML04'19		morning max el	13694 Oct 23 23:40	18° ≙ 51'27	27°11'02
morning max el	13693 Nov 11 05:59		25°53'25	morning must vi	13694 Nov 02 09:42	0°M	2, 1102
8	13693 Nov 27 09:49	0° ∡ 7		asc. node	13694 Nov 17 16:55	25°M25'46	
asc. node	13693 Nov 30 20:02	6° х ¹05'36			13694 Nov 20 00:12	0° ⊼	
morning set	13693 Dec 09 01:44	22° ∡ ³39'31		morning set	13694 Nov 23 10:39	7° ∡ °08'43	
C	13693 Dec 12 10:24	ರ°0		Č			
				superior conj	13694 Nov 30 07:48	22° ₹ 17'03	1°33'43
superior conj	13693 Dec 15 20:13	7° る 34'17	1°37'59	minimum elong	13694 Nov 30 06:34	22° ₮ 10'08	1°34'39
minimum elong	13693 Dec 15 19:58	7° る 32'53	1°39'02	max. Earth dist.	13694 Nov 30 08:19	22° х 19′53	1.31215 AU
max. Earth dist.	13693 Dec 17 00:05	10° る 08'40	1.31657 AU		13694 Dec 03 18:58	8°0	
evening rise	13693 Dec 22 21:33	22° る 52'09		evening rise	13694 Dec 07 02:42	7° る 13'26	
	13693 Dec 26 09:39	0° ≈			13694 Dec 18 21:29	0° ≈	
desc. node	13694 Jan 02 13:27	13° ≈ 18'43		desc. node	13694 Dec 20 10:22	2° ≈ 35'14	
	13694 Jan 13 05:56	0° ∀		evening max el	13695 Jan 06 05:50	24° ≈ 44'02	26°51'47
evening max el	13694 Jan 24 02:24	12° ¥ 47'16	27°28'35		13695 Jan 13 06:32	0° ∀	
retrograde	13694 Feb 07 00:37	20° ∺ 07'24		retrograde	13695 Jan 20 04:51	1° ¥ 54'47	
evening set	13694 Feb 13 22:03	17° ¥ 54'06		evening set	13695 Jan 26 20:58	0° ∺ 02'21	
min. Earth dist.	13694 Feb 17 16:22	15° ∺ 00'03	0.61690 AU		13695 Jan 26 22:40	30° R ≈	
inferior conj	13694 Feb 20 17:30	12° ¥ 13′25		min. Earth dist.	13695 Jan 30 19:52	27° ≈ 23'33	0.59508 AU
minimum elong	13694 Feb 20 21:37		1°55'06	inferior conj	13695 Feb 03 00:25	24°≈51'28	
asc. node	13694 Feb 26 17:53	7°){ 42'27		minimum elong	13695 Feb 03 07:39	24°≈37'03	3°17'30
morning rise	13694 Feb 28 00:05	7°) € 12'36		morning rise	13695 Feb 10 21:28	20°≈11'23	
direct	13694 Mar 02 04:24	6° ¥ 51'51	17040122	direct	13695 Feb 12 22:24	19°≈55'58	
morning max el	13694 Mar 09 01:05	10° ¥ 19'52 0° Ƴ	1/-49'33	asc. node	13695 Feb 13 15:19	19°≈57'52 23°≈43'49	10010100
morning set	13694 Mar 22 02:52 13694 Mar 24 18:21	4° Υ 43'10		morning max el	13695 Feb 20 14:01 13695 Feb 25 14:47	23°≈43°49 0° ∺	18°10'28
morning set	13077 Wiai 24 10.21	7 14310			13073 100 23 14.4/	υ Λ	

morning set	13695 Mar 08 05:19	18°) 32′02		morning max el	13696 Feb 03 18:56	6° ≈ 31′00	18°52'12
	13695 Mar 14 08:42	$0^{\circ}\mathbf{\Upsilon}$			13696 Feb 18 16:24	0° ∀	
				morning set	13696 Feb 20 03:04	2°) 49′07	
superior conj	13695 Mar 17 21:34	6° Y 26′06	0°04'50	Ç			
minimum elong	13695 Mar 17 21:57	6° Υ 27'47	0°04'45	superior conj	13696 Feb 28 16:56	19° ¥ 29'23	0°37'07
		5° Υ 55'03	0 0443				
behind sun begin	13695 Mar 17 14:40			minimum elong	13696 Feb 28 19:10	19°) (40′00	0°37'02
behind sun end	13695 Mar 18 05:14	7° Y ′00′27		desc. node	13696 Mar 04 08:29	28°) €06'44	
desc. node	13695 Mar 18 11:58	7° Ƴ 30'33			13696 Mar 05 09:36	0 ° Υ	
max. Earth dist.	13695 Mar 25 12:31	19° Ƴ 41'55	1.41568 AU	max. Earth dist.	13696 Mar 06 19:33	2° Y 31'13	1.39352 AU
evening rise	13695 Mar 30 10:32	27° Y '49'01		evening rise	13696 Mar 10 17:04	9° Ƴ 16'34	
Z .	13695 Mar 31 19:04	0°B		Č	13696 Mar 23 16:39	0° ႘	
	13695 Apr 21 00:25	0°II		evening max el	13696 Apr 14 18:03	28° 8 37'13	24°16'46
	•		22055154	evening max er	•		24 10 40
evening max el	13695 May 03 04:07	14° ∏ 44'44	22°55'54		13696 Apr 16 04:41	0∘П	
asc. node	13695 May 12 11:56	20° Ⅱ 42'11		retrograde	13696 Apr 26 02:31	5° Ⅱ 16'41	
retrograde	13695 May 13 09:12	20° Ⅱ 45'45		asc. node	13696 Apr 28 09:14	4° Ⅱ 53'36	
evening set	13695 May 18 08:40	18° Ⅱ 40′04		evening set	13696 May 01 13:32	2° Ⅲ 58′27	
inferior conj	13695 May 23 16:37	12° Ⅱ 15'43	2°49'52		13696 May 04 08:56	30° ₹ 8	
minimum elong	13695 May 23 14:56	12° Ⅲ 21'36	2°48'36	min. Earth dist.	13696 May 06 04:01	27° 8 40'25	0.68547 AU
min. Earth dist.	13695 May 23 07:57	12° I I45'49	0.68927 AU	inferior conj	13696 May 07 01:14	26° 8 28'45	2°23'18
	•		0.08927 AU	,	•	_	
morning rise	13695 May 28 21:06	6° Ⅱ 06'56		minimum elong	13696 May 06 23:08	26° 8 35'52	2°21'58
direct	13695 Jun 02 08:01	4° Ⅱ 17'44		morning rise	13696 May 12 08:51	20° 8 27'57	
morning max el	13695 Jun 11 00:19	9° Ⅱ 18'17	21°16'38	direct	13696 May 16 07:24	18° 8 59'27	
desc. node	13695 Jun 14 13:22	13° Ⅱ 11'16		morning max el	13696 May 23 22:31	23° 8 16'00	20°02'49
	13695 Jun 27 01:29	0° ©		Č	13696 May 29 17:30	$\Pi^{\circ}0$	
morning set	13695 Jul 12 04:22	22° 9 51'12		desc. node	13696 May 31 10:19	2° I 15'00	
morning set				desc. node	•	0°95	
	13695 Jul 16 16:14	0 ° Ω			13696 Jun 19 07:05		
max. Earth dist.	13695 Jul 19 04:11	4°&203'07	1.42674 AU	morning set	13696 Jun 20 08:17	1° 9 36'44	
				max. Earth dist.	13696 Jun 30 15:07	17° 5 641'21	1.44394 AU
superior conj	13695 Jul 26 11:29	16° Ω 15'48	-1°39'45				
minimum elong	13695 Jul 26 18:37	16° Ω 46'21	1°39'46	superior conj	13696 Jul 06 03:46	26°935'00	-2°04'24
	13695 Aug 03 07:40	0° m)		minimum elong	13696 Jul 06 09:47	26° © 59'30	
evening rise	13695 Aug 06 22:07	6° Mp 28'26		minimum ciong	13696 Jul 08 05:53	0°Ω	2 03 03
•	•						
asc. node	13695 Aug 08 11:43	9° m 17'51		evening rise	13696 Jul 19 07:48	18° Ω 38'50	
	13695 Aug 21 07:47	0∘ ⊽		asc. node	13696 Jul 25 08:24	28° Ω 55'24	
evening max el	13695 Aug 23 04:31	2° ჲ 03'07	18°05'14		13696 Jul 25 23:49	0° m y	
retrograde	13695 Aug 30 00:05	5° ₽ 32'39		evening max el	13696 Aug 05 18:42	15° m 21'15	18°04'44
evening set	13695 Sep 01 08:15	5° ഫ 08'09		retrograde	13696 Aug 12 04:28	18° m)41'41	
inferior conj	13695 Sep 08 06:41	0° م 13'04	0°39'24	evening set	13696 Aug 14 20:56	18° m) 05'00	
minimum elong	13695 Sep 08 07:54	0° ₽ 10'13	0°38'50	Č	· ·	12° m) 51'35	1°45'09
minimum eiong	•		0 38 30	inferior conj	13696 Aug 21 04:20		
	13695 Sep 08 12:17	30°Ŗ ᠓		minimum elong	13696 Aug 21 06:45	12°Mp45'11	1°43'59
desc. node	13695 Sep 10 10:28	28° m 12'01		min. Earth dist.	13696 Aug 24 00:06	9° m ,53′12	0.62603 AU
min. Earth dist.	13695 Sep 11 11:42	27° m 14'54	0.60324 AU	desc. node	13696 Aug 27 07:59	6° m 53′37	
morning rise	13695 Sep 15 04:27	24° m 23'42		morning rise	13696 Aug 27 14:19	6° mp 41'50	
direct	13695 Sep 21 18:00	22° m/18'11		direct	13696 Sep 03 06:37	4° m) 15'28	
	13695 Oct 05 20:24	0∘ ⊽		morning max el	13696 Sep 17 08:15	12° m) 16'52	27°55'02
			25052126	morning max ci	1	-	27 33 02
morning max el	13695 Oct 06 01:04	0° ≏ 11'27	2/°52'36		13696 Oct 01 10:44	0∘ ⊽	
	13695 Oct 27 12:11	0°M₊			13696 Oct 18 22:32	0° M	
asc. node	13695 Nov 04 13:42	15°M05'29		asc. node	13696 Oct 21 10:25	4°M58'46	
morning set	13695 Nov 07 15:18	21°M22'13		morning set	13696 Oct 21 13:34	5° M 14'44	
	13695 Nov 11 15:54	0° ∡ ¹		max. Earth dist.	13696 Oct 26 19:34	16° M ₊16'19	1.31900 AU
max. Earth dist.	13695 Nov 13 16:06	4° ∡ ¹25'34	1.31289 AU				
max. Earth dist.	13073 1101 13 10.00	1 7 2331	1.51207110	superior conj	13696 Oct 29 03:45	21°M22'04	1°07'51
	1260531 14 10 55	60 7 5444	1022120				
superior conj	13695 Nov 14 18:57	6° ₹ 754'44	1°23'39	minimum elong	13696 Oct 29 01:28	21°M09'34	1°08'14
minimum elong	13695 Nov 14 16:59	6° ∡ ¹43'50	1°24'20		13696 Nov 02 01:52	0° ∡ ¹	
evening rise	13695 Nov 21 11:39	21° х 42'20		evening rise	13696 Nov 04 22:29	6° ≯ 14′06	
	13695 Nov 25 10:31	0° ප			13696 Nov 17 05:57	0°₹	
desc. node	13695 Dec 07 07:23	21° ප 10'51		desc. node	13696 Nov 23 04:30	8° る 50'05	
	13695 Dec 13 17:19	0° ≈		evening max el	13696 Nov 29 12:45	16° පි 06'10	24007136
			25041140	Č			4 U/ 30
evening max el	13695 Dec 19 00:59	5°≈47'34	25°41'49	retrograde	13696 Dec 13 03:41	22°る53'11	
retrograde	13696 Jan 01 22:34	12° ≈ 48′28		evening set	13696 Dec 18 02:59	21° ろ 59'08	
evening set	13696 Jan 07 23:46	11° ≈ 23'42		min. Earth dist.	13696 Dec 24 00:08	19° る 03'42	0.55716 AU
min. Earth dist.	13696 Jan 12 13:35	8° ≈ 45'41	0.57421 AU	inferior conj	13696 Dec 26 02:41	17° る 46'53	-5°41'17
inferior conj	13696 Jan 15 11:57	6° ≈ 44'22		minimum elong	13696 Dec 26 08:36	17° る 37'54	
minimum elong	13696 Jan 15 20:49	6°≈29'03	4°38'20	morning rise	13697 Jan 03 16:05	17 3 7 348 35	
•			T 30 20	-			
morning rise	13696 Jan 23 20:37	2°≈26'32		direct	13697 Jan 06 04:18	13° る 32'21	
direct	13696 Jan 25 23:10	2° ≈ 12'52		morning max el	13697 Jan 16 11:46	18° る 29'38	19°56'35
asc. node	13696 Jan 31 12:43	3° ≈ 55′02		asc. node	13697 Jan 17 10:03	19° る 25'39	

	13697 Jan 25 03:13	0° ≈		morning max el	13697 Dec 29 13:59	29° ∡ ³33′26	21°23'44
morning set	13697 Feb 03 07:57	17° ≈ 23'24		C	13697 Dec 30 00:58	ರ∘ರ	
	13697 Feb 09 12:34	0° ∀		asc. node	13698 Jan 04 07:17	6° ට 13'12	
					13698 Jan 17 16:48	0° ≈	
superior conj	13697 Feb 11 02:45	3°) 11′22	1°02'33	morning set	13698 Jan 18 17:16	2° ≈ 07'12	
minimum elong	13697 Feb 11 05:30	3° ¥ 25′02	1°02'44				
max. Earth dist.	13697 Feb 17 01:54	14°) 43′46	1.37110 AU	superior conj	13698 Jan 25 23:08	17° ≈ 21'18	1°20'56
desc. node	13697 Feb 19 04:59	18°){ 40′04		minimum elong	13698 Jan 26 01:29	17° ≈ 33'29	1°21'28
evening rise	13697 Feb 20 19:38	21°) ₹34'57		max. Earth dist.	13698 Jan 30 12:36	26° ≈ 38′26	1.35066 AU
	13697 Feb 25 15:37	0° Υ			13698 Feb 01 05:36	0° ∀	
	13697 Mar 17 14:12	9° 8		evening rise	13698 Feb 03 15:02	4° ∺ 35'19	
evening max el	13697 Mar 28 07:33	12° 8 29'56	25°32'21	desc. node	13698 Feb 06 01:33	9° ∺ 07'02	
retrograde	13697 Apr 09 15:24	19° 8 36'58			13698 Feb 18 11:55	0° Υ	
asc. node	13697 Apr 15 06:37	17° 8 24'25		evening max el	13698 Mar 10 21:24	26° Y 17'39	26°35'10
evening set	13697 Apr 15 13:48	17° 8 09'41			13698 Mar 15 03:54	0° 8	
min. Earth dist.	13697 Apr 19 21:10	12° 8 27'18	0.67723 AU	retrograde	13698 Mar 23 22:52	3° 8 40'01	
inferior conj	13697 Apr 21 06:51	10° 8 39'08	1°46'19	evening set	13698 Mar 30 07:43	1°808'08	
minimum elong	13697 Apr 21 04:47	10° 8 45'49	1°45'04	1	13698 Mar 31 14:37	30° ₹ Υ	
morning rise	13697 Apr 26 20:14	4° 8 47'37 3° 8 38'55		asc. node min. Earth dist.	13698 Apr 02 04:02	28° Y 23'37 27° Y '00'23	0.66492 ATT
direct	13697 Apr 30 07:16	7° B 23'02	19°03'35		13698 Apr 03 09:16	24° Y 42'29	0.66482 AU 0°58'25
morning max el desc. node	13697 May 07 04:08 13697 May 18 07:08	21° 8 50'03	19 03 33	inferior conj minimum elong	13698 Apr 05 07:21	24 1 42 29 24°\bar{0}'46'45	0°57'33
greatest brilliancy	13697 May 18 07:08 13697 May 20 07:02	21° 8 30°03	-0.7m	morning rise	13698 Apr 05 05:56 13698 Apr 11 05:13	19° Υ 02'03	0 3/33
greatest offinancy	13697 May 20 07:02 13697 May 23 17:13	0° Ⅱ	-0.7111	direct	13698 Apr 14 05:49	19 1 02 03 18° Y 10'57	
morning set	13697 May 30 13:20	10° ∏ 31'13		morning max el	13698 Apr 20 16:17	21° Υ 35'22	18°20'40
morning set	13697 Jun 12 02:11	0°95		morning max cr	13698 Apr 27 10:25	0°8	10 20 40
max. Earth dist.	13697 Jun 13 07:32	1° 9 54'55	1.45491 AU	desc. node	13698 May 05 03:51	11° 8 48'08	
max. Darm dist.	15077 3411 15 07.52	1 35455	1.43471710	morning set	13698 May 10 15:28	20° 8 30'16	
superior conj	13697 Jun 15 22:22	6° © 01'47	-2°13'38	morning sec	13698 May 16 15:15	0°II	
minimum elong	13697 Jun 15 22:14	6°901'14				-	
evening rise	13697 Jun 30 18:37	29°5549'46		superior conj	13698 May 26 06:18	15° Ⅱ 06'31	-2°02'49
<i>8</i>	13697 Jun 30 21:08	$0^{\circ}\Omega$		minimum elong	13698 May 25 22:59		2°03'24
asc. node	13697 Jul 12 05:09	18° Ω 13'27		max. Earth dist.	13698 May 27 03:18	16° Ⅲ 28'33	1.45863 AU
evening max el	13697 Jul 20 08:38	28° Ω 56′24	18°22'28		13698 Jun 04 19:20	0° ©	
C	13697 Jul 21 12:16	0° ™		evening rise	13698 Jun 11 04:54	10°900'26	
retrograde	13697 Jul 26 18:11	2°m/21'25		greatest brilliancy	13698 Jun 21 06:24	25°5941'17	-0.8m
evening set	13697 Jul 29 19:19	1° Mp 30'00			13698 Jun 24 02:43	$0^{\circ}\Omega$	
	13697 Jul 31 21:04	30° R Ω		asc. node	13698 Jun 29 01:59	7° Ω 04'47	
inferior conj	13697 Aug 04 15:20	26° Ω 00′10	2°30'08	evening max el	13698 Jul 03 19:29	12° Ω 40'48	18°57'36
minimum elong	13697 Aug 04 17:39	25° Ω 53′20	2°28'55	retrograde	13698 Jul 10 13:38	16° £ 23′49	
min. Earth dist.	13697 Aug 06 21:49	23° Ω 20'44	0.64685 AU	evening set	13698 Jul 13 23:46	15° Ω 16′07	
morning rise	13697 Aug 10 14:40	19° Ω 39'37		inferior conj	13698 Jul 19 12:00	9° Ω 31′25	2°57'35
desc. node	13697 Aug 14 05:27	17° Ω 32′28		minimum elong	13698 Jul 19 13:35	9° Ω 26′23	2°56'28
direct	13697 Aug 17 03:54	17° Ω 01'42		min. Earth dist.	13698 Jul 21 03:56	7° Ω 24'40	0.66418 AU
morning max el	13697 Aug 30 18:32	24° Ω 59'20	27°22'05	morning rise	13698 Jul 25 02:41	3° Ω 07'09	
	13697 Sep 04 08:01	0° m)		direct	13698 Jul 31 08:18	0° Ω 27'31	
	13697 Sep 24 22:00	0∘ ⊽		desc. node	13698 Aug 01 02:53	0° Ω 29'44	
morning set	13697 Oct 05 02:52	18° Ω 40'16		morning max el	13698 Aug 13 05:39	8° Ω 07'33	26°21'10
asc. node	13697 Oct 08 07:03	25° Ω 00'54	1 22050 444		13698 Aug 30 07:42	0° m)	
max. Earth dist.	13697 Oct 09 15:17	27° Ω 46'18	1.33058 AU		13698 Sep 17 08:29	0° ™	
	13697 Oct 10 17:01	0°M₊		morning set	13698 Sep 18 03:58	1° 2 30'41	1 24727 ATT
aumariar aani	12607 Oat 12 00:10	50 m 22147	0°46'23	max. Earth dist.	13698 Sep 22 01:19	8° ♀ 57'29 15° ♀ 07'11	1.34737 AU
superior conj	13697 Oct 13 08:10 13697 Oct 13 06:08	5°M33'47 5°M22'54	0°46'33	asc. node	13698 Sep 25 03:37	13 ==0/11	
minimum elong evening rise	13697 Oct 13 06.08 13697 Oct 20 09:25	20°M44'21	0 40 33	superior conj	13698 Sep 27 05:42	19° ≏ 22'49	0°19'34
evening rise	13697 Oct 24 20:35	20 11144 21 0° 🗷		minimum elong	13698 Sep 27 03:42 13698 Sep 27 04:38	19 = 22 49 19° £ 17'19	0°19'37
desc. node	13697 Nov 10 01:43	25° × 12'29		minimum ciong	13698 Oct 02 07:47	0°M	0 1937
evening max el	13697 Nov 10 01:43 13697 Nov 10 23:22	26° × 1229	22°25'19	evening rise	13698 Oct 02 07.47 13698 Oct 04 18:27	5°ML07'25	
Jimis mux of	13697 Nov 15 19:49	20×0039		Cronnig 1150	13698 Oct 14 10:10	0° √	
retrograde	13697 Nov 23 19:56	0 0 2° る 29'24		evening max el	13698 Oct 23 18:06	6° ∡ ¹26'03	20°51'51
evening set	13697 Nov 27 10:19	2°る01'00		desc. node	13698 Oct 27 23:03	9° × 751'35	20 0101
	13697 Dec 02 12:07	30°R. ₹		retrograde	13698 Nov 04 06:23	12° ∡ 09'25	
min. Earth dist.	13697 Dec 05 06:43	28° ₹ 29'50	0.54690 AU	evening set	13698 Nov 06 16:43	11° ₹ 55'13	
inferior conj	13697 Dec 06 00:18	28° ₹ '05'05		inferior conj	13698 Nov 15 15:33	8° ∡ '01'25	-5°09'58
minimum elong	13697 Dec 05 21:52	28° ≯ 08'31		minimum elong	13698 Nov 15 06:10	8° ≯ 14'48	
morning rise	13697 Dec 14 10:37	24° √ 17'42		min. Earth dist.	13698 Nov 16 12:42	7° ∡ ³31'17	0.54552 AU
direct	13697 Dec 17 17:37	23° ₹ 53'14		morning rise	13698 Nov 23 19:49	4° ∡ ¹07'38	

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retrograde	13700 Sep 27 09:23	3° M ⋅34'29		evening max el	13701 Sep 02 08:28	11° ≏ 56′15	18°14'06
evening set	13700 Sep 29 07:03	3°M22'12		retrograde	13701 Sep 09 14:08	15° ≏ 36'50	
desc. node	13700 Oct 01 17:57	2°M32'57		evening set	13701 Sep 11 18:00	15° ≏ 17'47	
	13700 Oct 06 00:44	30° ₹ Ω		desc. node	13701 Sep 18 15:29	10° ჲ 58′00	
inferior conj	13700 Oct 07 10:04	28° ≏ 59'56		inferior conj	13701 Sep 19 02:32	10° ≏ 34'27	
minimum elong	13700 Oct 07 05:36	29° ≏ 08'07		minimum elong	13701 Sep 19 02:14	10° ≏ 35'06	0°08'25
min. Earth dist.	13700 Oct 10 12:10	26° ≏ 44'59	0.56929 AU	transit middle	13701 Sep 19 02:14	10° ≏ 35'06	0°08'25
morning rise	13700 Oct 15 00:48	24° ₾ 02'19		transit begin	13701 Sep 18 23:18	10° ≏ 41'23	
direct	13700 Oct 20 21:24	22° ≏ 38'43		transit end	13701 Sep 19 05:10	10° ≏ 28'48	
morning max el	13700 Nov 04 03:12	0°M02'55	26°30'19	min. Earth dist.	13701 Sep 22 09:49	7° ≏ 46'06	0.59024 AU
	13700 Nov 04 01:59	0° M ₊		morning rise	13701 Sep 26 07:03	5° Ω 01'56	
	13700 Nov 25 01:52	0° ∡¹		direct	13701 Oct 02 16:28	3° ₾ 10'53	25022125
asc. node	13700 Nov 25 22:26	1° ∡ 736'36		morning max el	13701 Oct 16 24:00	10° ≏ 55'04	27°33'25
morning set	13700 Dec 03 03:06	16° ₹ 11'48			13701 Oct 31 20:24	0°M	
	13700 Dec 09 09:32	0°ಕ		asc. node	13701 Nov 12 19:15	21°M05'41	
	12700 D 00 22.15	10710156	102754	morning set	13701 Nov 17 10:23	0° ∡ 734'29	
superior conj	13700 Dec 09 22:15	1°る10'56	1°36'54		13701 Nov 17 03:51	0° ∡ ¹	
minimum elong	13700 Dec 09 21:33		1°37'55		12701 N 24 00-50	150.750105	1920100
max. Earth dist.	13700 Dec 10 14:14	2°る40'00 16°る17'47	1.31398 AU	superior conj	13701 Nov 24 09:50	15° 🗷 52'05	1°30'09
evening rise	13700 Dec 16 20:16	16° 5 1/4/ 0°≈		minimum elong	13701 Nov 24 08:16 13701 Nov 23 22:36	15° х 43'14 14° х 49'18	1°31'00
11-	13700 Dec 23 16:37	0°≈ 8°≈55'05		max. Earth dist.		14・ メ ・49・18	1.31179 AU
desc. node	13700 Dec 28 15:45	8°≈55'05			13701 Nov 30 19:17	0°る 0°る42'54	
	13701 Jan 12 05:22		27917119	evening rise	13701 Dec 01 03:16	0°842'34 27° 8 55'35	
evening max el	13701 Jan 17 05:18 13701 Jan 31 04:35	5°) (18'49) 12°) (36'05)	2/1/18	desc. node	13701 Dec 15 12:42	2/° ⊙ 55°55°	
retrograde				avanina may al	13701 Dec 16 20:13		26925157
evening set min. Earth dist.	13701 Feb 07 00:34 13701 Feb 10 19:51	10°) (30′42 7°) (44′28	0.60754 AU	evening max el	13701 Dec 30 05:35 13702 Jan 13 04:38	16°≈53'47 24°≈00'12	26°25'57
	13701 Feb 10 19.31 13701 Feb 13 23:21	5° ∺ 01'44		retrograde	13702 Jan 13 04.38	24 ≈00 12 22°≈19'15	
inferior conj minimum elong	13701 Feb 13 23.21 13701 Feb 14 04:49	3 K 01 44 4° ¥ 49'54		evening set min. Earth dist.	13702 Jan 19 13.26 13702 Jan 23 19:15	19°≈42'32	0.58587 AU
•	13701 Feb 14 04.49 13701 Feb 21 12:13	4 X 49 34 0° X 09'36	2 29 34		13702 Jan 26 22:24	19 ≈42 32 17°≈21'51	
morning rise asc. node	13701 Feb 21 12.13 13701 Feb 21 20:28	0° ∺ 04'15		inferior conj	13702 Jan 27 06:41	17 ≈21 31 17°≈06'20	-3 3017 3°52'49
asc. node	13701 Feb 21 20.28 13701 Feb 22 04:22	0 K0413 30°R≈		minimum elong morning rise	13702 Jan 27 00.41 13702 Feb 04 00:56	17 ≈00 20 12°≈50'50	3 32 49
direct	13701 Feb 22 04.22 13701 Feb 23 14:28	30 k≈ 29°≈51'40		direct	13702 Feb 04 00:30 13702 Feb 06 01:41	12 ≈30 30 12°≈36'38	
direct	13701 Feb 25 14.28 13701 Feb 25 00:10	29 ≈31 40 0° \		asc. node	13702 Feb 08 07:41 13702 Feb 08 17:55	12 ≈30 38 13°≈02'31	
morning may al	13701 Feb 23 00.10 13701 Mar 02 18:20	0 X 3° ¥ 27'12	17056'04	morning max el	13702 Feb 08 17.33 13702 Feb 14 04:18	15 ≈02 31 16°≈36'35	18°25'30
morning max el morning set	13701 Mar 18 08:22	3 K 2/12 27° ¥ 52'38	1/ 3004	morning max er	13702 Feb 14 04.18 13702 Feb 23 14:27	10 ≈3033 0°) {	18 23 30
morning set	13701 Mar 18 08:22	27 γ (32 38		morning set	13702 Mar 02 00:26	11° ¥ 54'56	
desc. node	13701 Mar 15 12:13	13° Υ 01'20		morning set	13/02 Widi 02 00.20	11 /(3430	
desc. Hode	13/01 Wiai 20 17.36	13 10120		superior conj	13702 Mar 11 04:29	29° ∺ 14'42	0°19'18
superior conj	13701 Mar 28 19:37	16° Ƴ 40'30	-0°16'30	minimum elong	13702 Mar 11 05:50	29° H 20'57	,
minimum elong	13701 Mar 28 18:09	16° Υ 34'10	0°16'28	minimum clong	13702 Mar 11 14:21	0° Υ	0 1711
max. Earth dist.	13701 Apr 05 07:01	29° Υ 20'03	1.42723 AU	desc. node	13702 Mar 13 14:07	3° Υ 36'53	
max. Earth dist.	13701 Apr 05 07:01	0°8	1.42723710	max. Earth dist.	13702 Mar 18 16:24	12° Υ '34'37	1.40648 AU
evening rise	13701 Apr 11 07:00	9° 8 00'38		evening rise	13702 Mar 23 01:16	19° Y 56'11	1.10010110
e vennig rise	13701 Apr 25 03:33	0°II		evening rise	13702 Mar 29 07:35	0°8	
evening max el	13701 May 13 19:52	24° I 108'30	22°09'47		13702 Apr 19 09:50	0°II	
asc. node	13701 May 20 17:09	29° Ⅱ 12'40	,,	evening max el	13702 Apr 26 11:03	8° I 100'09	23°30'32
retrograde	13701 May 23 08:50	29° Ⅱ 44'47		retrograde	13702 May 07 03:58	14° Ⅱ 17'57	
evening set	13701 May 28 01:37	27° Ⅱ 47'47		asc. node	13702 May 07 14:25	14° Ⅱ 17'06	
inferior conj	13701 Jun 02 08:16	21° Ⅲ 28′05	3°00'33	evening set	13702 May 12 08:20	12° Ⅱ 06'45	
minimum elong	13701 Jun 02 06:57	21° II 32'38	2°59'23	min. Earth dist.	13702 May 17 03:44	6° Ⅱ 27'55	0.68826 AU
min. Earth dist.	13701 Jun 02 07:02	21° Ⅲ 32'24	0.68933 AU	inferior conj	13702 May 17 17:42	5° Ⅱ 39'55	2°39'51
morning rise	13701 Jun 07 12:06	15° Ⅱ 14'57		minimum elong	13702 May 17 15:47	5° Ⅱ 46'31	2°38'33
direct	13701 Jun 12 06:25	13° Ⅱ 13'53		_	13702 May 22 11:01	30° ₹ 8	
morning max el	13701 Jun 21 15:30	18° Ⅱ 43'45	22°04'14	morning rise	13702 May 22 23:11	29° 8 34'22	
desc. node	13701 Jun 22 18:42	19° Ⅱ 54'05		direct	13702 May 27 04:52	27° 8 53'44	
	13701 Jul 01 01:14	0 \circ \mathfrak{S}			13702 Jun 01 10:53	Π $^{\circ}0$	
	13701 Jul 21 11:19	$0^{\circ}\Omega$		morning max el	13702 Jun 04 09:29	2° Ⅲ 33'58	20°43'36
morning set	13701 Jul 24 12:56	4° Ω 52'44		desc. node	13702 Jun 09 15:43	8° Ⅲ 33'55	
max. Earth dist.	13701 Jul 30 01:02	13° Ω 53'14	1.41478 AU		13702 Jun 24 21:12	0 \circ \odot	
				morning set	13702 Jul 04 01:24	13° © 58'29	
superior conj	13701 Aug 06 19:37	27° Ω 13'41	-1°21'22	max. Earth dist.	13702 Jul 12 08:38	27° 5 06'23	1.43478 AU
minimum elong	13701 Aug 07 01:45	27° Q 40'44	1°21'12		13702 Jul 14 03:28	$0^{\circ}\Omega$	
	13701 Aug 08 09:06	0° m					
asc. node	13701 Aug 16 17:18	15° m 14'50		superior conj	13702 Jul 19 01:42	8° Ω 07'53	-1°51'38
evening rise	13701 Aug 17 08:51	16° m 26'58		minimum elong	13702 Jul 19 08:56	8° N 38'08	1°51'53
	13701 Aug 24 20:40	0∘ 亚		evening rise	13702 Jul 31 05:26	29° Ω 06′33	

	13702 Jul 31 17:33	0° m)		evening rise	13703 Jul 13 05:55	10° Ω 52'48	
asc. node	13702 Aug 03 13:56	5°Mp00'58		asc. node	13703 Jul 21 10:38	24°Ω30'54	
evening max el	13702 Aug 16 21:22	25° m 01'21	18°02'43	use. Hode	13703 Jul 24 22:24	0° m)	
retrograde	13702 Aug 23 11:20	28° m/ 25'02	10 02 19	evening max el	13703 Jul 31 11:47	8° Mp 27'22	18°10'02
evening set	13702 Aug 25 23:06	27° m 55'33		retrograde	13703 Aug 06 20:21	11° Mp 48'18	10 10 02
inferior conj	13702 Sep 01 14:42	22° m 52'12	1°10'00	evening set	13703 Aug 09 16:27	11° Mp 05'34	
minimum elong	13702 Sep 01 16:37	22° m) 47'27	1°09'05	inferior conj	13703 Aug 15 18:31	5° Mp 44'37	2°06'36
min. Earth dist.	13702 Sep 04 16:24	19° mp 51'41	0.61310 AU	minimum elong	13703 Aug 15 21:01	5° Mp 37'42	2°05'22
desc. node	13702 Sep 05 13:01	19° Mp 04'27		min. Earth dist.	13703 Aug 18 08:47	2° m 52'29	0.63520 AU
morning rise	13702 Sep 08 07:26	16° m 53'11			13703 Aug 21 08:20	30°R Ω	
direct	13702 Sep 14 23:00	14° mp 38'03		morning rise	13703 Aug 21 23:46	29° Ω 29'07	
morning max el	13702 Sep 29 04:04	22° m 35'00	27°58'21	desc. node	13703 Aug 23 10:32	28° Ω 29'31	
Z .	13702 Oct 05 17:45	0∘ <u>⊽</u>		direct	13703 Aug 28 15:13	26° Ω 56'59	
	13702 Oct 25 00:56	0°M			13703 Sep 05 17:57	0° m	
asc. node	13702 Oct 30 15:59	10°M51'57		morning max el	13703 Sep 11 13:06	4° m 58'07	27°45'04
morning set	13702 Nov 01 12:35	14°M39'53		Ü	13703 Sep 30 11:24	0∘ <u>⊽</u>	
max. Earth dist.	13702 Nov 07 05:11	26°M50'48	1.31488 AU	morning set	13703 Oct 16 07:23	28° ≏ 21'41	
				3	13703 Oct 17 02:54	0°M	
superior conj	13702 Nov 08 20:14	0° ∡ 726′16	1°17'38	asc. node	13703 Oct 17 12:37	0°M49'18	
minimum elong	13702 Nov 08 18:04	0° ∡ 14′20	1°18'13	max. Earth dist.	13703 Oct 21 06:00	8°M34'18	1.32332 AU
	13702 Nov 08 15:29	0° ∡ 7					
evening rise	13702 Nov 15 13:16	15° ∡ 14'09		superior conj	13703 Oct 24 03:25	14° M 47'17	0°59'25
	13702 Nov 22 18:47	0°る		minimum elong	13703 Oct 24 01:09	14°MJ35'02	0°59'42
desc. node	13702 Dec 02 09:44	16° පි 09'25		evening rise	13703 Oct 31 00:23	29°M45'43	
evening max el	13702 Dec 11 21:22	27° る 36'35	25°03'53	8	13703 Oct 31 03:02	0° ∡ ¹	
<i>8</i>	13702 Dec 14 15:14	0° ≈			13703 Nov 16 17:30	0°ठ	
retrograde	13702 Dec 25 16:35	4° ≈ 31'28		desc. node	13703 Nov 19 06:53	3° ට 18'34	
evening set	13702 Dec 31 08:20	3°≈19'47		evening max el	13703 Nov 23 07:17	7° る 41'55	23°23'49
min. Earth dist.	13703 Jan 05 09:20	0° ≈ 36'53	0.56638 AU	retrograde	13703 Dec 06 15:57	14° ට 20'39	
	13703 Jan 06 08:19	30°Rる		evening set	13703 Dec 11 01:50	13° る 38'21	
inferior conj	13703 Jan 08 01:01	28° ප් 53'24	-5°10'51	min. Earth dist.	13703 Dec 17 17:24	10° ට 29'56	0.55184 AU
minimum elong	13703 Jan 08 09:23	28° ට 39'48	5°08'08	inferior conj	13703 Dec 19 07:30	9° ට 34'25	
morning rise	13703 Jan 16 12:43	24° පි 44'21		minimum elong	13703 Dec 19 10:18		5°53'01
direct	13703 Jan 18 18:28	24° ට 30'03		morning rise	13703 Dec 27 20:27	5°₹42'48	
asc. node	13703 Jan 26 15:17	27° පි 40'47		direct	13703 Dec 30 15:45	5° ਰ 23'51	
morning max el	13703 Jan 28 04:25	29° ට 03'38	19°16'43	morning max el	13704 Jan 10 15:08	10° ට 38'44	20°31'07
	13703 Jan 29 02:37	0° ≈		asc. node	13704 Jan 13 12:33	13° ප් 45'47	
morning set	13703 Feb 14 01:36	26°≈20'20			13704 Jan 23 20:08	0° ≈	
5 5	13703 Feb 15 21:37	0°) €		morning set	13704 Jan 29 08:39	10°≈59'15	
				C			
superior conj	13703 Feb 22 06:29	12°) € 35′27	0°48'46	superior conj	13704 Feb 05 21:15	26° ≈ 30'33	1°11'12
minimum elong	13703 Feb 22 09:05	12°) 48′01	0°48'47	minimum elong	13704 Feb 05 23:55	26° ≈ 44'02	1°11'32
desc. node	13703 Feb 28 10:36	24°) 11′52		Č	13704 Feb 07 14:50	0°) €	
max. Earth dist.	13703 Feb 28 22:59	25°) €08'05	1.38393 AU	max. Earth dist.	13704 Feb 11 06:36	7°) 10′10	1.36200 AU
	13703 Mar 03 16:25	$0^{\circ}\mathbf{Y}$		evening rise	13704 Feb 15 02:43	14°) €22'30	
evening rise	13703 Mar 04 16:36	1° Y 45'41		desc. node	13704 Feb 15 07:08	14°){ 42'44	
S	13703 Mar 22 12:46	0°8			13704 Feb 24 03:04	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	13703 Apr 09 00:38	21° 8 52'47	24°49'59		13704 Mar 16 06:48	0°8	
retrograde	13703 Apr 20 19:21	28° 8 44'49		evening max el	13704 Mar 21 14:05	5° 8 43'33	26°01'02
asc. node	13703 Apr 24 11:46	27° 8 45'52		retrograde	13704 Apr 03 06:07	12° 8 59'02	
evening set	13703 Apr 26 11:25	26° 8 22'06		evening set	13704 Apr 09 09:15	10° 8 28'47	
min. Earth dist.	13703 Apr 30 22:41	21° 8 19'35	0.68255 AU	asc. node	13704 Apr 10 09:10	9° 8 35'16	
inferior conj	13703 May 02 01:15	19° 8 51'40	2°08'55	min. Earth dist.	13704 Apr 13 13:52	6° 8 01'37	0.67241 AU
minimum elong	13703 May 01 23:05	19° 8 58'49	2°07'35	inferior conj	13704 Apr 15 04:57	3° 8 59'31	1°27'24
morning rise	13703 May 07 11:00	13° 8 54'51		minimum elong	13704 Apr 15 03:04	4° 8 05'25	1°26'15
direct	13703 May 11 04:36	12° 8 34'56			13704 Apr 18 16:20	30° R Υ	
morning max el	13703 May 18 10:52	16° 8 35'40	19°35'44	morning rise	13704 Apr 20 21:38	28° Υ 12'46	
desc. node	13703 May 27 12:37	27° 8 51'43	-,	direct	13704 Apr 24 04:02	27° Υ 12'01	
	13703 May 27 12:37	0°Ⅱ			13704 Apr 29 23:45	0°8	
greatest brilliancy	13703 May 27 00:42	2° П 59'43	-0.6m	morning max el	13704 Apr 30 19:37	0° 8 46'15	18°43'22
morning set	13703 Jun 13 03:03	22° I I40'04	0.0111	desc. node	13704 Apr 30 19:37 13704 May 13 09:23	17° 8 37'24	10 13 22
morning set	13703 Jun 17 21:04	0°95		acse. Houc	13704 May 13 09:23 13704 May 21 09:14	0° I	
max. Earth dist.	13703 Jun 24 22:39	າ ອີ 11° ອີ 03'14	1.44944 AU	morning set	13704 May 21 09.14 13704 May 22 15:16	0 П 1° П 57'11	
max. Darui dist.	13/03 Juli 24 22.39	11 5003 14	1. 44 7 44 AU	morning set max. Earth dist.	13704 May 22 15:16 13704 Jun 06 16:47	25° I 27'13	1.45733 AU
superior conj	13703 Jun 29 08:00	18° © 02'01	-2°10'25	max. Bartii Uist.	13/04 Juli 00 10.4/	23 112/13	1. 1 3/33 AU
minimum elong	13703 Jun 29 08:00 13703 Jun 29 11:58	18°902'01		superior conj	13704 Jun 07 20:11	27° Ⅱ 14'19	2011/22
mmmum elong	13703 Jul 29 11:58 13703 Jul 06 16:53	0°Ω	2 11 29	minimum elong	13704 Jun 07 20:11 13704 Jun 07 16:39	27° Ⅱ 14'19 27° Ⅱ 00'31	
	10.03 Jul 00 10.33	0 06		minimum ciong	15/04 Juli 0/ 10.39	Δ/ <u>μ</u> 0031	2 12 30

	13704 Jun 09 14:31	0°ಅ		evening rise	13705 Jun 03 07:18	1° 5 26'24	
evening rise	13704 Jun 23 06:16	0 3 21° 9 37'37		greatest brilliancy	13705 Jun 15 11:23	20°906'00	-0.7m
evening rise	13704 Jun 28 11:48	21 3 3/3/ 0° Ω		greatest brilliancy	13705 Jun 22 09:51	20 3 00 00	-0.7111
greatest brilliancy	13704 Jun 29 20:33	0 δ ε 2° Ω 10'26	-0.9m	asc. node	13705 Jun 24 04:19	0 δ ι 2° Ω 15'59	
asc. node	13704 Jul 29 20:33	13°Ω38'43	-0.9111	evening max el	13705 Jun 27 09:33	5°Ω53'16	19°17'35
	13704 Jul	13 & 33 & 43 $22^{\circ} \Omega 06'57$	18°35'17	-	13705 Jul 27 09:58	9° Ω 47'50	19 1/33
evening max el		25° Ω 38'26	18 33 17	retrograde		9° Ω 33'11	
retrograde	13704 Jul 20 13:01			evening set	13705 Jul 08 00:00	2°Ω42'50	2004127
evening set	13704 Jul 23 17:48	24° Ω 40′23	2042142	inferior conj	13705 Jul 13 09:58		3°04'37
inferior conj	13704 Jul 29 10:06	19° Ω 04'00	2°43'42	minimum elong	13705 Jul 13 11:08	2° Ω 39'01	3°03'34
minimum elong	13704 Jul 29 12:09	18° Ω 57'42	2°42'32	min. Earth dist.	13705 Jul 14 19:49	0° £ 52′25	0.67027 AU
min. Earth dist.	13704 Jul 31 10:27	16° Ω 36'56	0.65465 AU		13705 Jul 15 12:18	30°R≌	
morning rise	13704 Aug 04 05:26	12° Ω 40'49		morning rise	13705 Jul 18 21:40	26°518'24	
desc. node	13704 Aug 09 08:00	10° Ω 07'21		direct	13705 Jul 24 23:10	23°540'26	
direct	13704 Aug 10 15:46	10° Ω 00'57	2 (2 5 0 1 0 4	desc. node	13705 Jul 27 05:25	23°959'26	
morning max el	13704 Aug 24 00:13	17° Ω 53'46	26°59'04		13705 Aug 05 07:07	0° Ω	25040155
	13704 Sep 03 04:10	0° mp		morning max el	13705 Aug 06 11:07	1° Ω 09'06	25°48'55
_	13704 Sep 22 09:47	0∘ ত		_	13705 Aug 28 04:30	0° m)	
morning set	13704 Sep 28 15:58	11° ≏ 33'28		morning set	13705 Sep 11 10:49	24° Mp 06'33	
max. Earth dist.	13704 Oct 02 21:41	19° ≙ 55'01	1.33713 AU		13705 Sep 14 14:38	0∘ ⊽	
asc. node	13704 Oct 03 09:13	20° £ 53'31		max. Earth dist.	13705 Sep 15 03:16	1° ≙ 00'08	1.35581 AU
				asc. node	13705 Sep 20 05:48	11° ≏ 00'39	
superior conj	13704 Oct 07 05:14	28° ≏ 49'54	0°35'38				
minimum elong	13704 Oct 07 03:30	28° ≏ 40'49	0°35'44	superior conj	13705 Sep 20 23:02	12° ≏ 27'28	0°06'45
	13704 Oct 07 18:32	0°M₊		minimum elong	13705 Sep 20 22:38	12° £ 25'27	0°06'47
evening rise	13704 Oct 14 10:45	14°MJ3'11		behind sun begin	13705 Sep 20 17:01	11° ≏ 57'06	
	13704 Oct 22 08:37	0°⊀		behind sun end	13705 Sep 21 04:15	12° ≙ 53'53	
evening max el	13704 Nov 03 20:10	17° ∡ ¹45'44	21°43'36	evening rise	13705 Sep 28 18:21	28° ≙ 31'27	
desc. node	13704 Nov 05 04:10	19° ₰ 00'19			13705 Sep 29 11:35	0° M	
retrograde	13704 Nov 16 05:00	23° ₹ ′53'43		evening max el	13705 Oct 16 20:48	28°M23'13	20°17'43
evening set	13704 Nov 19 05:39	23° 渘 ³33′02			13705 Oct 18 15:02	0° ∡ ¹	
inferior conj	13704 Nov 28 00:42	19° ∡ ³39'25	-5°43'31	desc. node	13705 Oct 23 01:33	2° ҂ ¹48′03	
minimum elong	13704 Nov 27 18:36	19° ∡ 747'59	5°41'45	retrograde	13705 Oct 27 16:32	3° ҂ 746′07	
min. Earth dist.	13704 Nov 27 23:34	19° ₰ ⁴41'01	0.54513 AU	evening set	13705 Oct 29 19:23	3° ҂ ³34'42	
morning rise	13704 Dec 06 08:26	15° ⋠ 51'36			13705 Nov 07 03:19	30°RML	
direct	13704 Dec 10 00:38	15° ∡ 22'04		inferior conj	13705 Nov 07 18:02	29°M38'22	-4°34'40
morning max el	13704 Dec 22 11:39	21° ∡ ¹20'41	22°06'47	minimum elong	13705 Nov 07 07:56	29°M53'15	4°31'00
	13704 Dec 29 17:15	ರ∘ರ		min. Earth dist.	13705 Nov 09 06:51	28°M44'07	0.54781 AU
asc. node	13704 Dec 30 09:45	1° る 00'12		morning rise	13705 Nov 15 19:44	25°M35'03	
morning set	13705 Jan 12 19:06	25° ප් 44'14		direct	13705 Nov 20 10:41	24°M48'51	
	13705 Jan 14 19:17	0° ≈			13705 Dec 02 08:16	0° ∡ ¹	
				morning max el	13705 Dec 03 22:40	1° ∡ ¹26′01	23°54'57
superior conj	13705 Jan 19 21:06	10° ≈ 49′03	1°26'40	asc. node	13705 Dec 17 06:51	19° ∡ 07'56	
minimum elong	13705 Jan 19 23:06	10° ≈ 59'38	1°27'21		13705 Dec 23 04:58	0°ರ	
max. Earth dist.	13705 Jan 23 19:49	19° ≈ 00'30	1.34289 AU	morning set	13705 Dec 28 07:00	10° ට 29'48	
evening rise	13705 Jan 28 04:08	27° ≈ 37'17		C			
S	13705 Jan 29 10:02	0°) €		superior conj	13706 Jan 04 03:08	25° ♂ 22'43	1°35'31
desc. node	13705 Feb 01 03:42	5°) €05'03		minimum elong	13706 Jan 04 04:08	25° පි 28'11	1°36'28
	13705 Feb 16 09:50	$_0$ ° $\boldsymbol{\gamma}$		Č	13706 Jan 06 06:29	0° ≈	
evening max el	13705 Mar 04 03:44	19° Y 25'15	26°56'20	max. Earth dist.	13706 Jan 06 17:01	0° ≈ 56'17	1.32792 AU
retrograde	13705 Mar 17 11:16	26° Ƴ 51'57		evening rise	13706 Jan 11 17:28	11° ≈ 21'20	
evening set	13705 Mar 23 23:52	24° Ƴ 19'41		desc. node	13706 Jan 19 00:24	25° ≈ 14'10	
min. Earth dist.	13705 Mar 27 23:12	20° Y 26′03	0.65823 AU		13706 Jan 21 17:26	0°) €	
asc. node	13705 Mar 28 06:38	20° Y ′04'58			13706 Feb 11 22:46	0° Υ	
inferior conj	13705 Mar 30 02:34	17° Υ 57'46	0°34'39	evening max el	13706 Feb 14 16:44	2° Y 47'48	27°28'28
minimum elong	13705 Mar 30 01:39	18° Υ 00'25	0°34'05	retrograde	13706 Feb 28 09:45	10° Υ 15'01	27 20 20
morning rise	13705 Apr 05 04:50	12° Υ 22'46	0 3 . 00	evening set	13706 Mar 07 05:05	7° Y 47'17	
direct	13705 Apr 08 01:14	11° Υ 38'28		min. Earth dist.	13706 Mar 11 00:38	4° Υ 24'25	0.64054 AU
morning max el	13705 Apr 08 01:14 13705 Apr 14 09:55	14° Υ 58'42	18°07'35	inferior conj	13706 Mar 13 15:27	1° Υ 40'10	
	13705 Apr 14 07:33	0°8	-0 0,55	minimum elong	13706 Mar 13 16:22	1° Υ 37'46	0°29'12
desc. node	13705 Apr 23 10.21 13705 Apr 30 06:04	7° 8 42'53		asc. node	13706 Mar 15 04:06	0° Υ 06'04	J 27 12
morning set	13705 Apr 30 00:04 13705 May 03 05:20	12° 8 30'51		ase. noue	13706 Mar 15 04:00	0 1 00 04 30°R ∺	
morning set	13705 May 03 03:20 13705 May 14 03:24	0° I		morning rise	13706 Mar 13 00:33	26° ₩ 19'20	
	15/05 Way 14 US.24	· 11		direct	13706 Mar 20 03.48 13706 Mar 22 17:40	26 X 1920 25° X 48'02	
superior conj	13705 May 18 04:56	6° Ⅱ 24'09	-1°52'31	morning max el	13706 Mar 22 17:40 13706 Mar 29 03:15	25 X 48 02 29° X 05'41	17°48'58
minimum elong	13705 May 18 04.36 13705 May 17 20:08	5° П 49'35		morning max ci	13706 Mar 29 03.13 13706 Mar 30 00:25	29 π 0341 0° Υ	1/ 70 30
max. Earth dist.			1 3243 1.45785 AU	morning set		0 γ 24° Υ 25'21	
max. Earm dist.	13705 May 20 12:30 13705 Jun 02 08:59	10° ய 01′41 0° 9	1.43/83 AU	morning set desc. node	13706 Apr 14 23:15 13706 Apr 17 02:42	24° \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
	13/03 Juli 02 08.39	وح ن		acsc. Hour	13/00 Apr 1/ 02.42	40 1 U4 3 /	

	13706 Apr 18 06:36	0°8		minimum elong	13707 Apr 08 20:57	26°Y56'38	0°38'53
	1270(4 20 02 17	1.60 • 1.512.5	1010144	E d Cd	13707 Apr 10 16:35	0°8	1 42750 ATT
superior conj	13706 Apr 28 03:17	16° 8 15'35		max. Earth dist.	13707 Apr 16 00:40	8° 8 46'17	1.43750 AU
minimum elong max. Earth dist.	13706 Apr 27 19:27 13706 May 03 07:55	15° 8 43'58	1°18'27 1.45103 AU	evening rise	13707 Apr 23 10:01	20° 8 28'29 0° Ⅱ	
max. Earm dist.	13706 May 05 07.33	24 O 33 14 0° Ⅱ	1.43103 AU		13707 Apr 29 15:30 13707 May 21 05:03	0°€	
evening rise	13706 May 13 19:14	0 <u>П</u> 10° П 49'40		evening max el	13707 May 21 03:03 13707 May 24 10:30	0 ৩ 3°©31'37	21025121
evening rise	13706 May 13 19.14 13706 May 26 13:19	10 Д 4940		asc. node	13707 May 24 10.30 13707 May 28 22:25	7°9515'22	21 23 21
evening max el	13706 Way 20 13.19 13706 Jun 10 12:57	19° 9 542'06	20°15'12	retrograde	13707 Jun 02 07:20	8°542'19	
asc. node	13706 Jun 11 01:19	20°512'29	20 13 12	evening set	13707 Jun 06 17:52	6°953'58	
retrograde	13706 Jun 18 08:42	24°9510'46		inferior conj	13707 Jun 11 23:50	0° © 39'40	3°07'50
evening set	13706 Jun 22 08:40	22°S39'02		minimum elong	13707 Jun 11 23:01	0°59710	3°06'44
inferior conj	13706 Jun 27 15:19	16°935'58	3°12'03	min. Earth dist.	13707 Jun 12 05:59	0°9518'12	0.68781 AU
minimum elong	13706 Jun 27 15:27	16°935'29	3°11'01	mm. Darm dist.	13707 Jun 12 11:13	30°RII	0.00701710
min. Earth dist.	13706 Jun 28 11:00	15°9528'48	0.68143 AU	morning rise	13707 Jun 17 03:57	24° I I23'06	
morning rise	13706 Jul 02 21:56	10°9514'17	0.001 15 110	direct	13707 Jun 22 05:35	22° I 11'23	
direct	13706 Jul 08 12:06	7° 5 46'29		desc. node	13707 Jul 01 00:00	26° ∏ 52'34	
desc. node	13706 Jul 14 02:46	9° © 43'14		morning max el	13707 Jul 02 08:26	28° Ⅱ 11'06	22°54'39
morning max el	13706 Jul 19 21:21	14° © 35'41	24°24'13		13707 Jul 04 01:55	0ಂತಾ	
S	13706 Aug 01 11:20	$0^{\circ}\Omega$			13707 Jul 26 03:08	$0^{\circ}\Omega$	
	13706 Aug 21 01:39	0° m)		morning set	13707 Aug 05 13:37	16° Ω 32'50	
morning set	13706 Aug 24 11:30	5° m 49'38		max. Earth dist.	13707 Aug 10 01:05	24° Ω 04'00	1.40172 AU
max. Earth dist.	13706 Aug 28 02:17	12° m/ 13'24	1.37813 AU		13707 Aug 13 11:10	0° ™	
	-				•		
superior conj	13706 Sep 04 05:26	25° M 31'06	-0°26'20	superior conj	13707 Aug 17 20:27	7° m 51'40	-1°01'30
minimum elong	13706 Sep 04 07:14	25° m 39'45	0°26'12	minimum elong	13707 Aug 18 01:03	8° mg 12'39	1°01'16
	13706 Sep 06 12:48	0∘ ⊽		asc. node	13707 Aug 24 22:55	21° m 07'48	
asc. node	13706 Sep 07 02:21	1° ≏ 06′29		evening rise	13707 Aug 27 14:42	26° Mp 11'45	
evening rise	13706 Sep 12 20:40	12° ≏ 33'26			13707 Aug 29 14:46	0∘ ⊽	
	13706 Sep 22 04:49	0° M		evening max el	13707 Sep 12 14:09	21° ≏ 58'46	18°29'26
evening max el	13706 Sep 29 11:36	9° ™ 48′02	19°12'40	retrograde	13707 Sep 20 09:59	25° ≏ 56′07	
retrograde	13706 Oct 08 15:47	14°M23'53		evening set	13707 Sep 22 09:50	25° ≏ 41'28	
desc. node	13706 Oct 09 23:01	14° M 18'41		desc. node	13707 Sep 26 20:32	23° ≏ 37'22	
evening set	13706 Oct 10 12:26	14°M13'20		inferior conj	13707 Sep 30 04:59	21° ≏ 09'52	-1°03'47
inferior conj	13706 Oct 19 01:00	10°M02'05	-2°50'58	minimum elong	13707 Sep 30 02:29	21° ≏ 14'46	1°02'29
minimum elong	13706 Oct 18 17:43	10° M ₊14'16	2°47'39	min. Earth dist.	13707 Oct 03 10:40	18° ≏ 38'37	0.57774 AU
min. Earth dist.	13706 Oct 21 17:34	8° ™ 14'22	0.55940 AU	morning rise	13707 Oct 07 15:40	15° ≏ 56'36	
morning rise	13706 Oct 26 20:28	5°M26'38		direct	13707 Oct 13 18:15	14° ≏ 21'38	
direct	13706 Nov 01 07:25	4° ™ 18'19		morning max el	13707 Oct 28 01:36	21° ≏ 54'50	27°01'37
morning max el	13706 Nov 15 09:02	11°M26'28	25°39'24		13707 Nov 04 04:38	0° M	
	13706 Nov 29 14:16	0° ∡		asc. node	13707 Nov 21 00:45	27°M11'06	
asc. node	13706 Dec 04 03:51	7° ∡ ¹54'58			13707 Nov 22 11:15	0° ∡	
morning set	13706 Dec 12 18:29	25° ∡ 10'07		morning set	13707 Nov 27 03:51	9° ∡ ¹40'42	
	13706 Dec 14 23:50	0°₹					
				superior conj	13707 Dec 04 00:21	24° ₹ 46'10	1°34'44
superior conj	13706 Dec 19 12:53	10°る03'37		minimum elong	13707 Dec 03 23:15	24° х 40'02	1°35'43
minimum elong	13706 Dec 19 12:48	10°る03'07		max. Earth dist.	13707 Dec 04 04:54	25° ∡ 11'39	1.31245 AU
max. Earth dist.	13706 Dec 20 21:04	13° そ 01'31	1.31769 AU		13707 Dec 06 08:38	0°る	
evening rise	13706 Dec 26 15:34	25° ♂ 25'55		evening rise	13707 Dec 10 19:55	9° る 44'53	
dogo rada	13706 Dec 28 21:08 13707 Jan 05 21:10	0° ≈ 15° ≈ 03'13		daga J-	13707 Dec 21 04:29 13707 Dec 23 18:02	0° ≈ 4° ≈ 24'22	
desc. node		0°) €		desc. node			26950129
arranina marral	13707 Jan 15 05:49	15° ∺ 37'04	27°30'59	evening max el	13708 Jan 10 07:09	27° ≈ 40'45 0°) €	26°59'28
evening max el	13707 Jan 28 02:48 13707 Feb 11 00:26	13 X 37 04 22° X 58'20	27 30 39	ratra ara da	13708 Jan 12 22:36 13708 Jan 24 06:18	4° ∺ 53′26	
retrograde evening set	13707 Feb 11 00:26 13707 Feb 17 22:09	22° X 38'20' 20° X 42'28		retrograde evening set	13708 Jan 24 06:18 13708 Jan 30 23:44	2°) € 57'17	
min. Earth dist.	13707 Feb 17 22.09 13707 Feb 21 16:19		0.62011 AU	min. Earth dist.	13708 Feb 03 21:21	0° ∺ 17'03	0.59829 AU
inferior conj	13707 Feb 21 16:19 13707 Feb 24 16:27	17 X 43 22 14° X 57'55		mm. Darm UISt.	13708 Feb 03 21.21 13708 Feb 04 06:01	0 K1/03 30°R≈	0.57047 AU
minimum elong	13707 Feb 24 20:05	14°) 49'26	1°43'06	inferior conj	13708 Feb 07 01:58	27°≈41'35	-3°08'00
asc. node	13707 Mar 02 01:35	10°\(\frac{4}{4}\)222	1 15 00	minimum elong	13708 Feb 07 01:38		3°04'52
morning rise	13707 Mar 02 01:33	9°) 54'24		morning rise	13708 Feb	27 ∞27 43 22°≈58'27	5 0 1 5 2
direct	13707 Mar 06 02:00	9°) 32'31		direct	13708 Feb 16 22:06	22°≈42'30	
morning max el	13707 Mar 12 20:34	12° X 58'15	17°48'10	asc. node	13708 Feb 16 23:03	22°≈42'31	
	13707 Mar 24 11:15	0°Υ		morning max el	13708 Feb 24 10:22	26°≈26'45	18°06'06
morning set	13707 Mar 28 15:47	7° Υ 23'46			13708 Feb 27 12:28	0°) €	
desc. node	13707 Apr 03 23:16	18° Y '31'40		morning set	13708 Mar 11 00:43	21°) 06'57	
	r	•		<i>5</i>	13708 Mar 15 19:26	0°Υ	
superior conj	13707 Apr 09 00:41	27° Y 12'25	-0°39'04				
. ,		-					

superior conj	13708 Mar 20 21:38	9° Ƴ 14'17	-0°00'39	superior conj	13709 Mar 03 14:27	22°) 10′38	0°32'36
minimum elong	13708 Mar 20 21:35	9° Ƴ 14'04	0°00'42	minimum elong	13709 Mar 03 16:30	22° ∺ 20'19	0°32'32
behind sun begin	13708 Mar 20 13:53	8° Y 39'40		desc. node	13709 Mar 07 16:12	29°) 41′51	
behind sun end	13708 Mar 21 05:18	9° Ƴ 48'22			13709 Mar 07 20:13	$0^{\circ}\Upsilon$	
desc. node	13708 Mar 20 19:44	9° Ƴ 05'45		max. Earth dist.	13709 Mar 10 19:57	5° Ƴ 19'24	1.39691 AU
max. Earth dist.	13708 Mar 28 12:31	22° Y 23'58	1.41873 AU	evening rise	13709 Mar 14 19:46	12° Y °11'28	
	13708 Apr 02 03:29	0°8	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		13709 Mar 25 22:49	0°8	
evening rise	13708 Apr 02 16:21	0° 8 51'50			13709 Apr 17 12:36	0°II	
evening rise	•	0°II			•	0 Ⅱ 1°Ⅱ13'35	24904152
	13708 Apr 22 02:39			evening max el	13709 Apr 18 17:27		24*04*32
evening max el	13708 May 06 03:16	17° Ⅲ 21'27	22°43'50	retrograde	13709 Apr 29 22:05	7° Ⅱ 47'50	
asc. node	13708 May 14 19:38	23° Ⅱ 08'03		asc. node	13709 May 01 16:56	7° Ⅱ 33'36	
retrograde	13708 May 16 04:14	23° Ⅱ 16′27		evening set	13709 May 05 07:19	5° Ⅱ 31′24	
evening set	13708 May 21 01:57	21° Ⅱ 12'55		min. Earth dist.	13709 May 09 23:02	0° Ⅱ 07'52	0.68636 AU
inferior conj	13708 May 26 09:29	14° Ⅱ 49'35	2°53'02		13709 May 10 01:22	30° ₹ 8	
minimum elong	13708 May 26 07:53	14° Ⅱ 55'09	2°51'47	inferior conj	13709 May 10 18:22	29° 8 02'15	2°28'02
min. Earth dist.	13708 May 26 02:43	15° Ⅲ 13′08	0.68941 AU	minimum elong	13709 May 10 16:18	29° 8 09'18	2°26'41
morning rise	13708 May 31 13:43	8° ∏ 39'35		morning rise	13709 May 16 01:20	23° 8 00'04	
direct	13708 Jun 05 02:29	6° Ⅱ 47'20		direct	13709 May 20 01:42	21° 8 28'24	
	13708 Jun 13 23:07		21°28'40		13709 May 27 20:07	25° 8 50'51	20°12'52
morning max el			21-28-40	morning max el	,	_	20-12-52
desc. node	13708 Jun 16 21:05	15° Ⅱ 04'24			13709 May 31 13:58	0°П	
	13708 Jun 28 05:22	0 \circ		desc. node	13709 Jun 03 18:02	4° Ⅱ 01'57	
morning set	13708 Jul 15 14:45	26° © 10'49			13709 Jun 21 14:06	0	
	13708 Jul 18 00:25	0 \circ Ω		morning set	13709 Jun 24 20:14	4° © 59'28	
max. Earth dist.	13708 Jul 22 04:25	6° Ω 45'19	1.42378 AU	max. Earth dist.	13709 Jul 04 14:18	20°916'25	1.44178 AU
superior conj	13708 Jul 29 15:34	19° Ω 18'51	-1°35'08	superior conj	13709 Jul 10 11:23	29°546'43	-2°01'30
minimum elong	13708 Jul 29 22:31	19° Ω 48'50	1°35'05	minimum elong	13709 Jul 10 17:53	0° Ω 13'24	2°02'02
	13708 Aug 04 17:25	0° m)			13709 Jul 10 14:37	$0^{\circ}\Omega$	
evening rise	13708 Aug 09 20:27	9° m) 15'43		evening rise	13709 Jul 23 09:04	21° Ω 33'36	
asc. node	•	11° my 00'22		evening rise	13709 Jul 28 06:44	0° m)	
asc. node	13708 Aug 10 19:30			1			
	13708 Aug 22 01:46	0∘ ʊ	10000150	asc. node	13709 Jul 28 16:09	0° mp 40'05	10000100
evening max el	13708 Aug 26 00:23	4° ≏ 46'16	18°06'53	evening max el	13709 Aug 09 14:21	18° m)01'16	18°03'38
retrograde	13708 Sep 01 22:16	8° 亞 18'15		retrograde	13709 Aug 16 00:51	21° m)21'57	
evening set	13708 Sep 04 05:14	7° ≏ 55'19		evening set	13709 Aug 18 16:07	20° Mp 47'12	
inferior conj	13708 Sep 11 06:14	3° ഫ 03'18	0°27'29	inferior conj	13709 Aug 25 01:32	15° m 36'25	1°36'35
minimum elong	13708 Sep 11 07:07	3° ഫ 01'17	0°27'05	minimum elong	13709 Aug 25 03:52	15° m 30'21	1°35'28
desc. node	13708 Sep 12 18:04	1° ≏ 41'06		min. Earth dist.	13709 Aug 27 23:01	12° Mp 36'48	0.62276 AU
min. Earth dist.	13708 Sep 14 12:11	0° ჲ 06'50	0.59986 AU	desc. node	13709 Aug 30 15:36	10° m) 10'18	
	13708 Sep 14 15:21	30°R, Mp	***************************************	morning rise	13709 Aug 31 13:15	9° m) 29'11	
morning rise	13708 Sep 18 05:46	27° m) 17'53		direct	13709 Sep 07 05:38	7° m) 05'21	
direct	13708 Sep 18 03:40	25° m 15'50		morning max el	13709 Sep 07 03:38 13709 Sep 21 08:13	15° m) 05'53	27057102
direct	•	-		morning max ci		-	21 3102
	13708 Oct 05 14:21	0° ⊽	27040154		13709 Oct 03 11:50	0∘ 亚	
morning max el	13708 Oct 09 01:52	3° ₾ 07'19	27°48'54	_	13709 Oct 21 09:33	0° M	
	13708 Oct 28 19:03	0° M		asc. node	13709 Oct 24 18:12	6° M 39′12	
asc. node	13708 Nov 06 21:32	16° M 47′57		morning set	13709 Oct 25 08:33	7°M52'15	
morning set	13708 Nov 10 09:14	23°M56'35		max. Earth dist.	13709 Oct 30 17:10	19° ™ 11'07	1.31774 AU
	13708 Nov 13 05:15	0° ∡ ¹					
max. Earth dist.	13708 Nov 16 12:52	7° ∡ 18′01	1.31237 AU	superior conj	13709 Nov 01 20:55	23°M53'53	1°10'36
				minimum elong	13709 Nov 01 18:39	23°M41'26	1°11'03
superior conj	13708 Nov 17 11:39	9° ∡ ¹24'47	1°25'32		13709 Nov 04 15:17	0° ∡ ¹	
minimum elong	13708 Nov 17 09:47	9° ∡ 14'22	1°26'18	evening rise	13709 Nov 08 15:04	8° ∡ ¹44'16	
evening rise	13708 Nov 24 04:23	24° ∡ 12'45		<i>5</i>	13709 Nov 19 10:34	0°ප	
evening rise	13708 Nov 26 22:02	0°る		desc. node	13709 Nov 26 12:07	00 10°る55'40	
JJ.						19°る16'34	24922140
desc. node	13708 Dec 09 15:01	23° る 06'57		evening max el	13709 Dec 03 16:22		24 22 40
	13708 Dec 14 09:42	0° ≈		retrograde	13709 Dec 17 08:44	26° ⋜ 05'44	
evening max el	13708 Dec 22 03:39	8° ≈ 52'32	25°54'15	evening set	13709 Dec 22 12:34	25° る 07'17	
retrograde	13709 Jan 05 01:55	15° ≈ 55'13		min. Earth dist.	13709 Dec 28 04:00		0.55932 AU
evening set	13709 Jan 11 05:52	14° ≈ 26′08		inferior conj	13709 Dec 30 10:20	20° る 51'49	-5°34'40
min. Earth dist.	13709 Jan 15 16:33	11° ≈ 49′00	0.57709 AU	minimum elong	13709 Dec 30 17:05	20° る 41'22	5°32'38
inferior conj	13709 Jan 18 16:36	9° ≈ 42'06	-4°30'12	morning rise	13710 Jan 07 23:33	16° る 50'50	
minimum elong	13709 Jan 19 01:26	9° ≈ 26'29	4°26'50	direct	13710 Jan 10 09:47	16° පි 35'15	
morning rise	13709 Jan 26 23:53	5° ≈ 20'53		morning max el	13710 Jan 20 11:34		19°45'30
direct	13709 Jan 29 01:37	5° ≈ 07'16		asc. node	13710 Jan 20 17:48	21° る 41'38	-
asc. node	13709 Feb 02 20:28	6°≈24'38			13710 Jan 27 06:01	0° ≈	
morning max el	13709 Feb 06 16:47		18°44'32	morning set	13710 Feb 07 01:10	0 ∞ 19° ≈ 52'53	
morning max or	13709 Feb 00 10.47 13709 Feb 20 02:41	9 ≈ 2031 0° H	10 17 32	morning set	13710 Feb 07 01:10	0° ∺	
morning set	13709 Feb 20 02:41 13709 Feb 22 21:08	5° ∺ 20'44			13/10/10/12/00/34	υ Λ	
	13/U7 FCU ZZ ZT:U8	J 77∠0′44					

superior conj	13710 Feb 14 22:23	5°) 47'18	0°59'07	morning set	13711 Jan 22 09:58	4°≈35'15	
minimum elong	13710 Feb 15 01:07	6° ₩ 00'50	0°59'16				
max. Earth dist.	13710 Feb 21 02:16	17° ¥ 36'58	1.37440 AU	superior conj	13711 Jan 29 17:25	19° ≈ 53'11	1°18'35
desc. node	13710 Feb 22 12:42	20° ¥ 15'32		minimum elong	13711 Jan 29 19:51	20° ≈ 05'48	1°19'04
evening rise	13710 Feb 24 19:33	24°) 22'42		max. Earth dist.	13711 Feb 03 12:07	29° ≈ 32'45	1.35350 AU
_	13710 Feb 28 00:51	0° Y			13711 Feb 03 17:39	0°)	
	13710 Mar 19 14:51	9° 8		evening rise	13711 Feb 07 12:38	7°) 16′42	
evening max el	13710 Apr 01 07:01	15° 8 06'37	25°21'41	desc. node	13711 Feb 09 09:16	10°) 43′14	
retrograde	13710 Apr 13 11:35	22° 8 09'53			13711 Feb 20 18:05	$0^{\circ}\mathbf{\Upsilon}$	
asc. node	13710 Apr 18 14:19	20° 8 19'28		evening max el	13711 Mar 14 20:47	28° Y 55'12	26°26'55
evening set	13710 Apr 19 08:22	19° 8 43'44			13711 Mar 16 00:09	0°8	
min. Earth dist.	13710 Apr 23 16:46	14° 8 56'06	0.67879 AU	retrograde	13711 Mar 27 19:53	6° 8 15'55	
inferior conj	13710 Apr 25 00:33	13° 8 13'07	1°52'39	evening set	13711 Apr 03 03:22	3° 8 44'16	
minimum elong	13710 Apr 24 22:27	13° 8 19'59	1°51'22	asc. node	13711 Apr 05 11:46	1° 8 30'34	
morning rise	13710 Apr 30 12:54	7° 8 20'06			13711 Apr 06 20:02	30° ₹Ƴ	
direct	13710 May 04 01:39	6° 8 08'28		min. Earth dist.	13711 Apr 07 05:40	29° Y 31'38	0.66692 AU
morning max el	13710 May 11 00:38	9° 8 56'22	19°11'21	inferior conj	13711 Apr 09 01:58	27° Ƴ 17'34	1°06'26
desc. node	13710 May 21 14:52	23° 8 32'35		minimum elong	13711 Apr 09 00:24	27° Ƴ 22'19	1°05'29
greatest brilliancy	13710 May 23 22:16	26° 8 57'03	-0.7m	morning rise	13711 Apr 14 22:24	21° Y 35'30	
	13710 May 25 23:02	Π °0		direct	13711 Apr 18 00:31	20° Ƴ 41'57	
morning set	13710 Jun 03 23:43	13° Ⅱ 48'35		morning max el	13711 Apr 24 11:59	24° Y 08'22	18°26'02
	13710 Jun 14 10:12	0 \circ \odot			13711 Apr 29 10:44	9° 8	
max. Earth dist.	13710 Jun 17 06:13	4° 5 26'16	1.45373 AU	desc. node	13711 May 08 11:37	13° 8 27'26	
				morning set	13711 May 14 21:59	23° 8 36'03	
superior conj	13710 Jun 20 08:45	9° © 19'51	-2°13'28		13711 May 18 23:15	Π °0	
minimum elong	13710 Jun 20 09:48	9° 5 23'56	2°14'31				
	13710 Jul 03 05:06	$0^{\circ}\Omega$		superior conj	13711 May 30 17:14	18° Ⅱ 24'54	-2°05'45
evening rise	13710 Jul 04 23:32	2° Ω 53'53		minimum elong	13711 May 30 10:45	17° Ⅱ 59'35	2°06'25
asc. node	13710 Jul 15 12:54	20° Ω 01'34		max. Earth dist.	13711 May 31 01:56	18° ∏ 58'51	1.45854 AU
	13710 Jul 22 17:08	0° ™			13711 Jun 07 03:15	0 \circ \odot	
evening max el	13710 Jul 24 04:33	1° m) 34'34	18°18'43	evening rise	13711 Jun 15 13:23	13° © 13'02	
retrograde	13710 Jul 30 13:30	4° Mp 58′02		greatest brilliancy	13711 Jun 24 19:46	27° © 44'51	-0.8m
evening set	13710 Aug 02 13:21	4° m)08'51			13711 Jun 26 06:54	$0 {\circ} \Omega$	
	13710 Aug 07 07:12	30° ŖΩ		asc. node	13711 Jul 02 09:44	8° Ω 57'26	
inferior conj	13710 Aug 08 10:49		2°24'29	evening max el	13711 Jul 07 16:00	15° Ω 17'45	18°51'17
minimum elong	13710 Aug 08 13:13	28° Ω 34'16	2°23'16	retrograde	13711 Jul 14 08:23	18° Ω 57'25	
min. Earth dist.	13710 Aug 10 19:21	25° Ω 58'09	0.64393 AU	evening set	13711 Jul 17 17:07	17° Ω 52'13	
morning rise	13710 Aug 14 11:38	22° Ω 21'51		inferior conj	13711 Jul 23 06:18	12° Ω 09'30	2°54'22
desc. node	13710 Aug 17 13:05	20° Ω 29'03		minimum elong	13711 Jul 23 08:01	12° Ω 04′06	2°53'16
direct	13710 Aug 21 01:36	19° Ω 45'11		min. Earth dist.	13711 Jul 25 00:22	9° Ω 57'17	0.66182 AU
morning max el	13710 Sep 03 18:13	27° Ω 43'46	27°29'00	morning rise	13711 Jul 28 22:06	5° Ω 45'19	
	13710 Sep 05 22:02	0° m)		direct	13711 Aug 04 04:59	3° Ω 05′30	
	13710 Sep 27 05:35	0∘ ⊽		desc. node	13711 Aug 04 10:34	3° Ω 05'42	
morning set	13710 Oct 08 23:23	21° ≏ 22'18		morning max el	13711 Aug 17 05:29	10° Ω 49'18	26°31'41
asc. node	13710 Oct 11 14:49	26° ≏ 40'11			13711 Sep 01 11:11	0° т р	
	13710 Oct 13 05:41	0°M₊			13711 Sep 19 18:54	0∘ ⊽	
max. Earth dist.	13710 Oct 13 14:23	0° M ₊45'13	1.32857 AU	morning set	13711 Sep 22 02:34	4° ≏ 18'29	
				max. Earth dist.	13711 Sep 26 02:03	11° ⊆ 59'08	1.34459 AU
superior conj	13710 Oct 17 02:09	8° M ₊08'21	0°50'01	asc. node	13711 Sep 28 11:24	16° ≏ 45'58	
minimum elong	13710 Oct 17 00:01	7°M56'59	0°50'12				
evening rise	13710 Oct 24 02:08	23°M15'16		superior conj	13711 Oct 01 00:53	22° ₽ 01'00	0°23'59
	13710 Oct 27 07:19	0° ∡¹		minimum elong	13711 Sep 30 23:37	21° ≏ 54'26	0°24'01
desc. node	13710 Nov 13 09:21	27°×731'03			13711 Oct 04 20:20	0°M	
evening max el	13710 Nov 15 02:28	29° ⋌ 17'06	22°40'14	evening rise	13711 Oct 08 11:35	7° M 39'38	
	13710 Nov 15 20:35	0°る			13711 Oct 20 08:50	0° ∡ 7	
retrograde	13710 Nov 28 02:28	5°る44'01		evening max el	13711 Oct 27 19:24	9° 🖈 30'59	21°04'38
evening set	13710 Dec 01 21:59	5°る12'18		desc. node	13711 Oct 31 06:42	12° ₹ 27'30	
min. Earth dist.	13710 Dec 09 10:43		0.54794 AU	retrograde	13711 Nov 08 13:20	15° ₹21'15	
inferior conj	13710 Dec 10 09:53	1°る14'49		evening set	13711 Nov 11 02:56	15° ₹ 05'42	
minimum elong	13710 Dec 10 08:51	1°る16'17	5°56'06	inferior conj	13711 Nov 20 01:11	11° 🖈 12'13	
	13710 Dec 12 15:41	30°₹ ⋌		minimum elong	13711 Nov 19 16:24	11° ₹ 24'38	
morning rise	13710 Dec 18 21:02	27° 🗷 26'52		min. Earth dist.	13711 Nov 20 16:35	10° ₹ 50'25	0.54514 AU
direct	13710 Dec 22 00:55	27° ∡ '03'58		morning rise	13711 Nov 28 06:19	7° ₹ 20'41	
	13710 Dec 30 11:36	0°る	21000120	direct	13711 Dec 02 08:21	6° ₹ 44'56	22052115
morning max el	13711 Jan 02 15:54	2° る 37'29	21~09'30	morning max el	13711 Dec 15 07:23	13°×700'05	22°52'13
asc. node	13711 Jan 07 15:02	8°る18'03		asc. node	13711 Dec 25 12:11	25° ₹ 56'31	
	13711 Jan 20 04:30	0° ≈			13711 Dec 27 23:12	0°₹	

morning set	13712 Jan 06 21:17	19° පි 21'07		morning rise	13712 Nov 06 22:06	17°ML02'40	
	13712 Jan 11 20:03	0° ≈		direct	13712 Nov 11 21:43	16°M07'52	
				morning max el	13712 Nov 25 17:14	22°M59'37	24°41'06
superior conj	13712 Jan 13 20:12	4°≈18'52			13712 Dec 01 23:13	0° ∡ 7	
minimum elong	13712 Jan 13 21:49	4°≈27'29	1°32'01	asc. node	13712 Dec 11 09:13	14° ∡ °22'14	
max. Earth dist.	13712 Jan 17 04:49	11°≈24'34	1.33594 AU		13712 Dec 19 10:58	0°る	
evening rise	13712 Jan 21 19:29	20°≈44'25		morning set	13712 Dec 21 09:10	4° る 04'59	
	13712 Jan 26 16:38	0°) {			10710 D 00 04 04	100756100	1007100
desc. node	13712 Jan 27 05:55	1°) €00'35		superior conj	13712 Dec 28 04:04	18°る56'29	1°37'22
. 1	13712 Feb 14 16:14	0°Υ 12° Ω 20157	27012112	minimum elong	13712 Dec 28 04:36	18°る59'28	1°38'23
evening max el	13712 Feb 25 10:16	12° Y 29'57	27°13'13	max. Earth dist.	13712 Dec 30 04:58	23° る 23'21	1.32288 AU
retrograde	13712 Mar 09 22:13	19° ℃ 57'50			13713 Jan 02 07:12	0°≈	
evening set	13712 Mar 16 14:19	17° Υ 26'22	0.65110.477	evening rise	13713 Jan 04 12:49	4°≈37'47	
min. Earth dist.	13712 Mar 20 11:44	13° ℃ 46'38	0.65110 AU	desc. node	13713 Jan 13 02:39	21°≈01'58	
asc. node	13712 Mar 22 09:14	11° Υ 40'44	0000147		13713 Jan 18 09:11	0°) (30)07	27022122
inferior conj	13712 Mar 22 20:14	11° Υ 10'03	0°08'47	evening max el	13713 Feb 06 22:03	25°) 39'07 0° °	2/33/32
minimum elong	13712 Mar 22 19:59	11° Y 10'45	0°08'36		13713 Feb 12 05:07		
transit middle	13712 Mar 22 19:59		0°08'36	retrograde	13713 Feb 20 17:45	3°Υ05'26	
transit begin	13712 Mar 22 17:25	11° Y 17'51 11° Y 03'38		evening set	13713 Feb 27 14:45	0° Υ 41'29	
transit end	13712 Mar 22 22:32	5° Υ 41'02		: E 4 E 4	13713 Feb 28 13:15	30° ₹ ₩	0.62202.411
morning rise	13712 Mar 29 03:22			min. Earth dist.	13713 Mar 03 09:08		0.63203 AU
direct	13712 Mar 31 19:59	5° Υ 02'40	1.705.712.0	inferior conj	13713 Mar 06 04:27	24°) (42'52	
morning max el	13712 Apr 07 04:02		17°57'38	minimum elong	13713 Mar 06 06:25	24°) (37'56	0°59'23
	13712 Apr 22 02:51	0°8		asc. node	13713 Mar 09 06:44	21°) (49'01	
desc. node	13712 Apr 24 08:16	3° 8 39'54		morning rise	13713 Mar 13 00:37	19°) € 29'21	
morning set	13712 Apr 25 00:20	4° 8 46'06		direct	13713 Mar 15 09:16	19°) €02'38	17046120
	12712.14	222	1020120	morning max el	13713 Mar 21 21:49	22° ¥ 22'36 0° Ƴ	17°46'28
superior conj	13712 May 09 06:06	27° 8 48'47			13713 Mar 27 21:16	17° Υ 09'58	
minimum elong	13712 May 08 21:03	27° 8 12'54	1°39'24	morning set	13713 Apr 07 04:37		
T d T d	13712 May 10 15:18	0°П	1 45500 ATT	desc. node	13713 Apr 11 04:50	24° Υ '04'04	
max. Earth dist.	13712 May 12 22:13	3° Ⅱ 35'55	1.45580 AU		13713 Apr 14 16:38	0°8	
evening rise	13712 May 25 07:16	22° Ⅱ 47'18			12712 4 10 12 45	00007110	1002100
4 41 311	13712 May 30 00:18	0.20 0.20	0.6	superior conj	13713 Apr 19 13:45	8° 8 07'18	
greatest brilliancy asc. node	13712 Jun 08 05:50	13°952'21 27°9519'20	-0.6m	minimum elong	13713 Apr 19 07:32	_	1°01'51
	13712 Jun 18 06:42		10040115	max. Earth dist.	13713 Apr 25 16:14	17° 8 59'43 0° Ⅱ	1.44594 AU
evening max el	13712 Jun 19 22:38 13712 Jun 20 21:16	29° © 05'46 0° Ω	19°40'15		13713 May 03 08:03	0°Щ 2°Щ12'06	
				evening rise	13713 May 04 18:22	2°Щ1206	
retrograde	13712 Jun 27 06:32	3° Ω 13'57			13713 May 23 13:51		20942140
evening set	13712 Jul 01 00:40	1° Ω 52'00		evening max el	13713 Jun 02 23:26	12°954'57	20°43'40
::	13712 Jul 03 02:02	30°R≌	2000117	asc. node	13713 Jun 05 03:46	14°955'09	
inferior conj	13712 Jul 06 08:51 13712 Jul 06 09:35	25°\$55'48		retrograde	13713 Jun 11 05:31	17°541'17	
minimum elong min. Earth dist.	13712 Jul 06 09:33	25°\$53'21 24°\$23'25	3°08'15 0.67557 AU	evening set inferior conj	13713 Jun 15 09:46 13713 Jun 20 15:50	16° © 02'35 9° © 54'27	3°11'36
	13712 Jul 07 12.32 13712 Jul 11 18:04	19° © 31'59	0.07337 AU	minimum elong	13713 Jun 20 15:33	9°955'27	3°10'33
morning rise direct	13712 Jul 17 14:48	19 931 39 16°957'42		min. Earth dist.	13713 Jun 21 05:44	9° 5 06'25	0.68472 AU
desc. node		10 3 3742				3°534'26	0.06472 AU
morning max el	13712 Jul 21 07:57 13712 Jul 29 16:21	24°5511'38	25014105	morning rise direct	13713 Jun 25 21:03 13713 Jul 01 05:56	1°9512'47	
morning max er	13712 Jul 29 10.21 13712 Aug 03 21:16	0°Ω	23 14 03	desc. node	13713 Jul 01 05:30	4°9512'18	
	13712 Aug 03 21:10 13712 Aug 24 20:58	0°mp		morning max el	13713 Jul 12 02:41	7°542'29	23°46'04
morning set	13712 Aug 24 20:38 13712 Sep 03 14:15	16° Mp 31'59		morning max ci	13713 Jul 29 12:59	0°Ω	23 40 04
max. Earth dist.	13712 Sep 03 14:13 13712 Sep 07 04:20		1.36501 AU	morning set	13713 Jul 29 12:39	27° Ω 51'30	
max. Darm UISt.	13712 Sep 07 04.20 13712 Sep 10 19:51	23 اللا04 ع4 0° Ω	1.50501 AU	morning set	13713 Aug 10 03.34 13713 Aug 17 12:00	0°m)	
	13/12 Sep 10 19.31	0 ==		max. Earth dist.	13713 Aug 17 12:00 13713 Aug 20 01:57	رابا 4°10/29'14	1.38816 AU
superior conj	13712 Sep 13 14:15	5° £ 25'00	-0°06'54	man. Barui uist.	13/13 Aug 20 01.3/	ד וע∠יין ד	1.50010 AU
minimum elong	13712 Sep 13 14:13	5° £ 27'07		superior conj	13713 Aug 27 14:38	18° m)11'51	0°41'11
behind sun begin	13712 Sep 13 14:40 13712 Sep 13 08:49	4° £ 58'09	0 00 30	minimum elong	13713 Aug 27 17:35	18° m) 25'43	0°40'59
behind sun begin	13712 Sep 13 08.49 13712 Sep 13 20:31	5° £ 56'09		asc. node	13713 Aug 27 17.33 13713 Sep 01 04:33	26° Mp 57'48	0 70 37
asc. node	13712 Sep 13 20:51 13712 Sep 14 07:58	6° £ 53'03		asc. Houc	13713 Sep 01 04:33	20 m/3/48	
evening rise	13712 Sep 14 07.38 13712 Sep 21 17:16	0 2 33 03 21° 2 51'54		evening rise	13713 Sep 02 17.37 13713 Sep 05 16:29	0 <u>≈</u> 5° Ω 45'05	
evening 11se	13712 Sep 21 17:10 13712 Sep 25 19:05	0°M		evening rise	13713 Sep 03 10.29 13713 Sep 19 22:03	0°M	
evening max el	13712 Sep 23 19.03 13712 Oct 09 02:00	20°M27'33	19°47'16	evening max el	13713 Sep 19 22:03 13713 Sep 21 22:20	2°M13'40	18°51'41
desc. node	13712 Oct 09 02:00 13712 Oct 17 04:07	20 IIL2/33 25°M18'35	17 7/10	retrograde	13713 Sep 21 22.20 13713 Sep 30 11:37	6°M31'26	10 31 41
		25°M30'25		•	13713 Sep 30 11:37 13713 Oct 02 08:49	6°M19'45	
retrograde evening set	13712 Oct 19 04:53 13712 Oct 21 03:10	25°M20'14		evening set desc. node	13713 Oct 02 08:49 13713 Oct 04 01:35	5°M50'23	
inferior conj	13712 Oct 21 03.10 13712 Oct 29 22:55	23 IIL20 14 21°M 18'31	-3°52'56	inferior conj	13713 Oct 04 01.33 13713 Oct 10 14:28	2°M00'35	-2°04'24
minimum elong	13712 Oct 29 22.33 13712 Oct 29 13:26	21°M33'12		minimum elong	13713 Oct 10 14.28 13713 Oct 10 09:15	2°M09'54	
min. Earth dist.	13712 Oct 29 13.26 13712 Nov 01 01:10		0.55172 AU	mmmum ciong	13713 Oct 10 09:13 13713 Oct 13 10:08	2 11609 34 30°R Ω	4 01 34
mm. Lattii uist.	13/12 1107 01 01.10	20 IIUUU4/	0.55112 AU		15/15 000 15 10.00	50 N==	

min. Earth dist.	13713 Oct 13 14:39	20° Ω 52'12	0.56653 AU	min. Earth dist.	13714 Sep 25 10:56	10° Ω ⊿3'⁄⁄⁄	0.58692 AU
morning rise	13713 Oct 18 06:30	27° ⊆ 08'48	0.30033 AC	morning rise	13714 Sep 29 10:50	8° ⊆ 00'32	0.36072 AC
direct	13713 Oct 24 00:52	25° £ 49'08		direct	13714 Oct 05 17:48	6° ⊆ 13'40	
unect	13713 Nov 03 13:32	0°M		morning max el	13714 Oct 20 01:19	13° £ 54'55	27°26'25
morning max el	13713 Nov 07 05:42	3°ML09'28	26°17'59	morning max or	13714 Nov 01 22:12	0°M	27 2023
morning man er	13713 Nov 26 10:05	0°×7	20 1709	asc. node	13714 Nov 15 03:00	22°M49'12	
asc. node	13713 Nov 28 06:10	3° ×7 23'10		use. Hour	13714 Nov 18 16:13	0° ₹	
morning set	13713 Dec 05 19:57	18° ×1 42'13		morning set	13714 Nov 20 03:50	3° ₹ 107'11	
	13713 Dec 10 23:22	0°ಕ					
				superior conj	13714 Nov 27 02:24	18° ∡ ¹21'23	1°31'32
superior conj	13713 Dec 12 14:48	3° る 39'37	1°37'24	minimum elong	13714 Nov 27 00:56	18° ∡ 13'12	1°32'26
minimum elong	13713 Dec 12 14:15	3° ට 36'38	1°38'27	max. Earth dist.	13714 Nov 26 19:16	17° ∡ 741'30	1.31181 AU
max. Earth dist.	13713 Dec 13 10:53	5° る 31'22	1.31478 AU		13714 Dec 02 08:22	0°ರ	
evening rise	13713 Dec 19 13:53	18° ප 50'02		evening rise	13714 Dec 03 20:15	3° る 13'55	
•	13713 Dec 25 02:49	0° ≈		desc. node	13714 Dec 17 20:22	29° ප් 47'14	
desc. node	13713 Dec 30 23:27	10° ≈ 40'46			13714 Dec 17 23:31	0° ≈	
	13714 Jan 12 21:29	0° ∀		evening max el	13715 Jan 02 07:32	19° ≈ 53'57	26°35'40
evening max el	13714 Jan 20 06:05	8°) 11′07	27°21'58	retrograde	13715 Jan 16 06:32	27° ≈ 01'40	
retrograde	13714 Feb 03 05:07	15°) 29′23		evening set	13715 Jan 22 19:25	25° ≈ 16'39	
evening set	13714 Feb 10 01:41	13°) €21′08		min. Earth dist.	13715 Jan 26 21:21	22° ≈ 39'29	0.58908 AU
min. Earth dist.	13714 Feb 13 20:34	10°) 32′17	0.61083 AU	inferior conj	13715 Jan 30 01:10	20° ≈ 14'34	-3°43'44
inferior conj	13714 Feb 16 23:19	7°) 47′53	-2°19'35	minimum elong	13715 Jan 30 09:07	19° ≈ 59'19	3°40'20
minimum elong	13714 Feb 17 04:18	7°) 36′53	2°17'08	morning rise	13715 Feb 07 01:52	15° ≈ 40'17	
morning rise	13714 Feb 24 09:59	2° 升 52'33		direct	13715 Feb 09 02:37	15° ≈ 25'42	
asc. node	13714 Feb 24 04:10	2° 升 57′01		asc. node	13715 Feb 11 01:35	15° ≈ 39'50	
direct	13714 Feb 26 12:52	2°) 33′44		morning max el	13715 Feb 17 01:07	19° ≈ 21′09	18°19'47
morning max el	13714 Mar 05 14:04	6° ₩ 06'30	17°53'21		13715 Feb 24 20:39	0° ∀	
	13714 Mar 20 22:17	$0^{\circ}\mathbf{\Upsilon}$		morning set	13715 Mar 04 19:11	14°) €27'41	
morning set	13714 Mar 21 04:49	0° Υ 29'39			13715 Mar 13 01:21	0° Υ	
desc. node	13714 Mar 29 01:22	14° Ƴ 35'51					
				superior conj	13715 Mar 14 03:19	1° Y 58'51	0°14'15
superior conj	13714 Mar 31 21:24	19° Ƴ 32'31		minimum elong	13715 Mar 14 04:21	2° Y 03'35	0°14'09
minimum elong	13714 Mar 31 19:23	19° Ƴ 23'49	0°22'15	behind sun begin	13715 Mar 14 00:57	1° Ƴ 48′03	
	13714 Apr 07 01:59	0° 8		behind sun end	13715 Mar 14 07:45	2° Y 19′06	
max. Earth dist.	13714 Apr 08 06:37	1° 8 57'49	1.43005 AU	desc. node	13715 Mar 15 21:51	5° Y 11'17	
evening rise	13714 Apr 14 14:36	12° 8 07'30		max. Earth dist.	13715 Mar 21 16:44	15° Y 19'16	1.40974 AU
	13714 Apr 26 08:55	$\Pi^{\circ}0$		evening rise	13715 Mar 26 05:41	22° Y 54'44	
evening max el	13714 May 16 18:49	26° Ⅱ 44'50	21°58'05		13715 Mar 30 15:22	0₀ R	
_	13714 May 20 12:08	0°€			13715 Apr 20 08:26	0°II	
asc. node	13714 May 23 00:55	1°530'18		evening max el	13715 Apr 29 10:21	10° Ⅱ 36'18	23°18'28
retrograde	13714 May 26 03:30	2°514'19		retrograde	13715 May 09 23:06	16° Ⅱ 48'15	
evening set	13714 May 30 18:40	0°519'32		asc. node	13715 May 09 22:09	16° Ⅱ 48'15	
	13714 May 31 03:38	30°RⅡ		evening set	13715 May 15 01:47	14° ∏ 38'53	
inferior conj	13714 Jun 05 01:04	24° I 101'17	3°02'49	inferior conj	13715 May 20 10:37	8° Ⅱ 12'55	
minimum elong	13714 Jun 04 23:53	24° I 105'25	3°01'39	minimum elong	13715 May 20 08:46	8° Ⅱ 19'17	2°42'23
min. Earth dist.	13714 Jun 05 01:45	23°II58'53	0.68910 AU	min. Earth dist.	13715 May 19 22:29	8° Ⅱ 54'43	0.68869 AU
morning rise	13714 Jun 10 04:54	17° Ⅱ 47'15 15° Ⅱ 43'15		morning rise	13715 May 25 15:41	2° Ⅱ 06'17 0° Ⅱ 22'37	
direct	13714 Jun 15 01:08	21° II 20'42	22017/05	direct	13715 May 29 23:13		20054150
morning max el	13714 Jun 24 14:42		22-17-05	morning max el	13715 Jun 07 07:46	5° Ⅱ 09'40	20°54'58
desc. node	13714 Jun 25 02:22	21° Ⅱ 50′23 0° ©		desc. node	13715 Jun 11 23:24 13715 Jun 26 02:50	10° Ⅱ 23'34 0° ⑤	
	13714 Jul 02 00:52 13714 Jul 22 18:51	0° U		morning set	13715 Jul 07 12:52	0 3 17° 9 20'25	
morning set	13714 Jul 27 21:21	8° Ω 06'42		max. Earth dist.	13715 Jul 15 08:43	29°546'20	1.43208 AU
max. Earth dist.	13714 Jul 27 21.21 13714 Aug 02 02:01	16° Ω 40'00	1.41148 AU	max. Earm dist.	13715 Jul 15 12:05	29 3 40 20 0° Ω	1.43208 AU
max. Earm dist.	13/14 Aug 02 02.01	10 064000	1.41146 AU		13/13 Jul 13 12.03	0 86	
superior conj	13714 Aug 09 21:46	0° Mp 11′28	-1°16'15	superior conj	13715 Jul 22 07:20	11° Ω 14'42	-1°47'36
minimum elong	13714 Aug 10 03:31	0° m ₂ 37'06		minimum elong	13715 Jul 22 14:37	11° Ω 45'25	
minimum crong	13714 Aug 09 19:11	0° m)	1 10 02	minimum ciong	13715 Aug 02 02:37	0° m)	1 17 13
asc. node	13714 Aug 19 01:07	16° Mp 56'10		evening rise	13715 Aug 02 02:57	1° m) 57'00	
evening rise	13714 Aug 20 05:49	19° Mp 10'12		asc. node	13715 Aug 05 04:58	6° Mp 44'33	
	13714 Aug 26 03:13	0° <u>ت</u>		evening max el	13715 Aug 05 21:45 13715 Aug 19 17:06	27° m) 43'04	18°03'09
evening max el	13714 Sep 05 04:46	0 — 14° Ω 42'00	18°17'25		13715 Aug 22 13:41	0∘ ರ	
retrograde	13714 Sep 03 04.40	18° £ 26′23	-0 1, 20	retrograde	13715 Aug 26 08:48	0 — 1° ≏ 08'34	
evening set	13714 Sep 12 13:39 13714 Sep 14 16:28	18° ⊆ 2023		evening set	13715 Aug 20 08.48	0° £ 40′54	
desc. node	13714 Sep 14 10.28 13714 Sep 20 23:06	16 ⊆ 08 34 14° ⊆ 27'09		Croning sor	13715 Aug 28 15:17 13715 Aug 30 05:56	30°RM)	
inferior conj	13714 Sep 22 03:43	13° £ 28'12	-0°22'28	inferior conj	13715 Sep 04 13:12	25° m) 40'17	0°59'30
minimum elong	13714 Sep 22 03:43	13° ⊆ 29'54		minimum elong	13715 Sep 04 13:12 13715 Sep 04 14:55	25° My 36'08	0°58'41
0.0115				0.0115		,, 5500	

min. Earth dist.	13715 Sep 07 16:10	22° m 40'13	0.60968 AU	evening set	13716 Aug 11 11:07	13° M 46'34	
desc. node	13715 Sep 07 20:38	22° Mp 30'00		inferior conj	13716 Aug 17 14:59	8° Mp 28'13	1°59'15
morning rise	13715 Sep 11 07:43	19° m 44'26		minimum elong	13716 Aug 17 17:28	8° Mp 21'25	1°58'04
direct	13715 Sep 17 22:40	17° m 32'35		min. Earth dist.	13716 Aug 20 07:14	5° m 33'31	0.63203 AU
morning max el	13715 Oct 02 04:33	25° m 28'14	27°57'08	morning rise	13716 Aug 23 21:51	2° Mp 14'26	
	13715 Oct 06 09:07	0∘ ত		desc. node	13716 Aug 24 18:10	1° m 38'27	
	13715 Oct 26 09:55	0° M .			13716 Aug 28 08:57	30° ₽ Ω	
asc. node	13715 Nov 01 23:45	12°M33'21		direct	13716 Aug 30 13:40	29° Ω 44'09	
morning set	13715 Nov 04 06:56	17° M .15'31			13716 Sep 01 20:12	0° m)	
max. Earth dist.	13715 Nov 10 02:23	29°M44'46	1.31408 AU	morning max el	13716 Sep 13 13:05	7° m 45'49	27°49'14
man. Darun dige.	13715 Nov 10 05:09	0° ∡ 7	1.51.00110	morning man er	13716 Sep 30 15:59	0∘ ⊽	2, ., 1,
	13/13/10/ 10 03.07	٠ ٪			13716 Oct 17 14:46	0° m	
	12715 N 11 12.05	20.75646	1010154				
superior conj	13715 Nov 11 13:05	2° x 56'46	1°19'54	morning set	13716 Oct 18 03:02	1°M01'30	
minimum elong	13715 Nov 11 10:59	2° ∡ ¹45'09 −	1°20'32	asc. node	13716 Oct 18 20:26	2°M29'34	
evening rise	13715 Nov 18 05:55	17° ∡ ′44′23		max. Earth dist.	13716 Oct 23 04:14	11°M31'14	1.32169 AU
	13715 Nov 24 04:20	0°₹					
desc. node	13715 Dec 04 17:24	18° る 09'09		superior conj	13716 Oct 25 20:55	17° M 20′25	1°02'33
	13715 Dec 14 06:28	0° ≈		minimum elong	13716 Oct 25 18:38	17° M 08'00	1°02'53
evening max el	13715 Dec 15 00:26	0° ≈ 43'40	25°17'35		13716 Oct 31 15:46	0° ∡ 7	
retrograde	13715 Dec 28 20:32	7° ≈ 40'44		evening rise	13716 Nov 01 17:00	2° ∡ 16'22	
evening set	13716 Jan 03 15:52	6° ≈ 24'23		8	13716 Nov 16 14:31	5°0	
min. Earth dist.	13716 Jan 08 12:33	3°≈43'39	0.56902 AU	desc. node	13716 Nov 20 14:34	5° る 29'52	
	13716 Jan 11 06:55	1°≈53'40				10°る53'19	22920114
inferior conj				evening max el	13716 Nov 25 10:52		23 39 14
minimum elong	13716 Jan 11 15:34	1°≈39'17	4°58'06	retrograde	13716 Dec 08 22:03	17° る 35'24	
	13716 Jan 14 06:21	30°₹⋜		evening set	13716 Dec 13 12:44	16° る 49'06	
morning rise	13716 Jan 19 17:45	27° る 41'41		min. Earth dist.	13716 Dec 19 21:29		0.55352 AU
direct	13716 Jan 21 22:11	27° る 27'42		inferior conj	13716 Dec 21 16:14	12° る 42'29	-5°50'46
asc. node	13716 Jan 28 22:57	0° ≈ 03'47		minimum elong	13716 Dec 21 20:15	12° る 36'33	5°49'23
	13716 Jan 28 20:55	0° ≈		morning rise	13716 Dec 30 05:31	8° ⋜ 48'48	
morning max el	13716 Jan 31 03:00	1° ≈ 55'36	19°07'40	direct	13717 Jan 01 22:04	8°る30'58	
morning set	13716 Feb 16 19:13	28° ≈ 50'31		morning max el	13717 Jan 12 15:59	13° る 39'43	20°18'35
Ü	13716 Feb 17 09:14	0°) €		asc. node	13717 Jan 14 20:15	15° る 57'17	
		• //			13717 Jan 24 04:21	0° ≈	
superior conj	13716 Feb 25 03:05	15° ¥ 13'57	0°44'44	morning set	13717 Jan 21 01:27	13° ≈ 28'33	
minimum elong	13716 Feb 25 05:35	15° ¥ 25'56	0°44'43	morning set	15/1/ 3411 51 01.5/	13 ~2033	
_		25°\(\frac{15}{46}\)'48	0 44 43		13717 Feb 07 16:17	29°≈05'25	1°08'14
desc. node	13716 Mar 01 18:19		1 2072 (111	superior conj			
max. Earth dist.	13716 Mar 02 23:29	27°) €58'36	1.38726 AU	minimum elong	13717 Feb 07 19:00	29°≈19′02	1°08'30
	13716 Mar 04 02:42	0° Υ			13717 Feb 08 03:08	0° ∀	
evening rise	13716 Mar 06 17:58	4° Ƴ 36'45		max. Earth dist.	13717 Feb 13 06:34	10°) 04′21	1.36513 AU
	13716 Mar 22 17:15	9° 8		desc. node	13717 Feb 16 14:52	16° ∺ 19'03	
evening max el	13716 Apr 10 23:59	24° 8 28'47	24°38'31	evening rise	13717 Feb 17 01:37	17°) €08'04	
	13716 Apr 18 01:09	$\Pi^{\circ}0$			13717 Feb 24 11:14	0° Y	
retrograde	13716 Apr 22 15:11	1° Ⅱ 16'43			13717 Mar 17 02:01	0° ႘	
asc. node	13716 Apr 25 19:29	0°Щ32′26		evening max el	13717 Mar 24 13:25	8° 8 20'37	25°51'14
	13716 Apr 26 18:54	30° ₹ 8		retrograde	13717 Apr 06 02:46	15° 8 33'35	
evening set	13716 Apr 28 05:31	28° 8 55'24		evening set	13717 Apr 12 04:15	13° 8 04'14	
min. Earth dist.	13716 May 02 17:50	23° 8 47'33	0.68366 AU	asc. node	13717 Apr 12 16:52	12° 8 36'46	
inferior conj	13716 May 03 18:34	22° 8 25'06	2°14'19	min. Earth dist.	13717 Apr 16 09:48	8° 8 31'43	0.67422 AU
minimum elong	13716 May 03 16:25	22° 8 32'17		inferior conj	13717 Apr 10 03:48 13717 Apr 17 23:01	6° 8 34'18	1°34'25
•	•		2 12 36	·	•		1°33'14
morning rise	13716 May 09 03:31	16° 8 26'56		minimum elong	13717 Apr 17 21:03	6° 8 40'31	1-33-14
direct	13716 May 12 22:49	15° 8 04'06		morning rise	13717 Apr 23 14:29	0° 8 45'49	
morning max el	13716 May 20 08:03	19° 8 10'07	19°44'55		13717 Apr 25 04:14	30° ₹ Υ	
desc. node	13716 May 28 20:18	29° 8 36'26		direct	13717 Apr 26 22:28	29° Y '42'22	
	13716 May 29 03:05	$\Pi^{\circ}0$			13717 Apr 28 17:41	9° 8	
greatest brilliancy	13716 Jun 02 03:56	5° Ⅱ 46′08	-0.6m	morning max el	13717 May 03 15:46	3° 8 19'52	18°50'03
morning set	13716 Jun 15 14:48	26° Ⅲ 01'58		desc. node	13717 May 15 17:06	19° 8 18'37	
	13716 Jun 18 04:36	0 \circ \odot		greatest brilliancy	13717 May 17 11:24	21° 8 59'02	-0.8m
max. Earth dist.	13716 Jun 26 21:42	13° © 36'59	1.44763 AU	Š	13717 May 22 16:16	$\Pi^{\circ}0$	
				morning set	13717 May 26 00:06	5° Ⅱ 09'59	
superior conj	13716 Jul 01 16:59	21° © 17'03	-2°08'44	max. Earth dist.	13717 Jun 09 15:03	27° П 56'46	1.45665 AU
minimum elong	13716 Jul 01 21:47	21°536'26		Durin dist.	13717 Jun 10 22:33	0°95	1
mminum ciong	13716 Jul 07 01:29	21 3 30 20	2 U/ JT		15/1/Jun 10 22.33	v -	
arraniei				avmani· ·	12717 I 11 07 07	00@33133	2012142
evening rise	13716 Jul 15 08:44	13° Ω 51'52		superior conj	13717 Jun 11 07:07	0°533'33	
asc. node	13716 Jul 22 18:27	26° Ω 17'27		minimum elong	13717 Jun 11 04:46	0°\$24'22	2~13'44
	13716 Jul 25 01:33	0° m		evening rise	13717 Jun 26 12:44	24° © 45'31	
evening max el	13716 Aug 02 07:29	11°Mp06'31	18°07'49		13717 Jun 29 18:47	0 $^{\circ}\Omega$	
retrograde	13716 Aug 08 16:20	14° m 27'06		asc. node	13717 Jul 09 15:14	15° Ω 29'02	

arranina marral	13717 Jul 16 20:47	24° Ω 44'33	18°30'30	ratra arada	13718 Jul 07 04:28	12° Ω 20'46	
evening max el			18-30-30	retrograde			
retrograde	13717 Jul 23 08:02	28° Ω 13'33		evening set	13718 Jul 10 17:09	11° Ω 08'32	2002121
evening set	13717 Jul 26 11:30	27°Ω17'53	2020100	inferior conj	13718 Jul 16 03:51	5° Ω 20'14	3°02'21
inferior conj	13717 Aug 01 05:02	21° Ω 43'49	2°39'08	minimum elong	13718 Jul 16 05:10	5° Ω 15'58	3°01'17
minimum elong	13717 Aug 01 07:12	21° Ω 37'17	2°37'57	min. Earth dist.	13718 Jul 17 15:51	3° Ω 23'54	0.66822 AU
min. Earth dist.	13717 Aug 03 07:35	19° Ω 12'06	0.65198 AU		13718 Jul 20 13:35	30°ષ્ટ્રજી	
morning rise	13717 Aug 07 01:44	15° Ω 21'24		morning rise	13718 Jul 21 16:33	28° © 55'48	
desc. node	13717 Aug 11 15:39	12° Ω 54'59		direct	13718 Jul 27 19:33	26° © 17'04	
direct	13717 Aug 13 13:10	12° Ω 41'56		desc. node	13718 Jul 29 13:05	26° © 28'11	
morning max el	13717 Aug 26 23:55	20° Ω 36′56	27°07'39		13718 Aug 05 05:37	$0^{\circ}\Omega$	
	13717 Sep 04 02:13	O°Mp		morning max el	13718 Aug 09 10:53	3° Ω 49'56	26°00'34
	13717 Sep 23 18:45	0∘ ত			13718 Aug 29 10:02	0° m)	
morning set	13717 Oct 01 13:21	14° ≏ 18′26		morning set	13718 Sep 14 10:29	26° m 57'55	
asc. node	13717 Oct 05 17:03	22° ₽ 33'16			13718 Sep 16 01:35	0∘ ত	
max. Earth dist.	13717 Oct 05 21:18	22° ♀ 54'55	1.33470 AU	max. Earth dist.	13718 Sep 18 04:25	4° ₽ 01'54	1.35276 AU
	13717 Oct 09 07:19	0° M .		asc. node	13718 Sep 22 13:38	12° ₽ 40'24	
					•		
superior conj	13717 Oct 09 23:43	1°M26'33	0°39'37	superior conj	13718 Sep 23 18:54	15° ഫ 08'33	0°11'27
minimum elong	13717 Oct 09 21:52	1°M16'44	0°39'43	minimum elong	13718 Sep 23 18:15	15° ഫ 05'12	0°11'29
evening rise	13717 Oct 17 03:38	16°ML45'03		behind sun begin	13718 Sep 23 13:57	14° £ 43'23	
evening rise	13717 Oct 17 05:36 13717 Oct 23 16:25	0° ₹		behind sun end	13718 Sep 23 22:33	15° ≏ 27'04	
evening max el	13717 Nov 06 22:47	20° × ⁷ 55'31	21°57'58	bennia sun ena	13718 Sep 30 23:11	0°M	
•			21 3/36		*	1°M05'16	
desc. node	13717 Nov 07 11:51	21° x ⁷ 26'55		evening rise	13718 Oct 01 11:47		
retrograde	13717 Nov 19 12:03	27° ₹ '08'50			13718 Oct 18 12:30	0° ⊼ ¹	2002011
evening set	13717 Nov 22 17:18	26° ⋌ ¹45'44		evening max el	13718 Oct 19 21:18	1° ⋌ ¹26'26	20°29'16
inferior conj	13717 Dec 01 10:44	22° ∡ ′51'40		desc. node	13718 Oct 25 09:14	5° ∡ ³33'47	
minimum elong	13717 Dec 01 05:51	22° ∡ ′58'31	5°47'38	retrograde	13718 Oct 30 22:51	6° ₹ 756'28	
min. Earth dist.	13717 Dec 01 03:51	23° ∡ 01'19	0.54555 AU	evening set	13718 Nov 02 04:03	6° х 44'14	
morning rise	13717 Dec 09 19:23	19° ∡ ′04'18		inferior conj	13718 Nov 11 03:03	2° ∡ ¹49'05	-4°48'07
direct	13717 Dec 13 08:18	18° ∡ ³36'40		minimum elong	13718 Nov 10 17:02	3° ∡ 03'38	4°44'38
morning max el	13717 Dec 25 14:26	24° × 129'06	21°51'23	min. Earth dist.	13718 Nov 12 10:33	2° х¹ 03'17	0.54684 AU
	13717 Dec 30 12:14	0°ರ			13718 Nov 16 06:35	30°RML	
asc. node	13718 Jan 01 17:28	3° る 02'25		morning rise	13718 Nov 19 05:38	28°M49'33	
morning set	13718 Jan 15 11:45	28° る 13'14		direct	13718 Nov 23 17:24	28°MJ06'12	
C	13718 Jan 16 08:00	0° ≈ ≈			13718 Nov 30 20:20	0° ∡ ¹	
				morning max el	13718 Dec 07 02:16	4° ∡ ³37'41	23°38'37
superior conj	13718 Jan 22 15:00	13° ≈ 21'07	1°24'44	asc. node	13718 Dec 19 14:35	21° ∡ 02'58	
minimum elong	13718 Jan 22 17:09	13° ≈ 32'19	1°25'22		13718 Dec 24 14:35	0°る	
max. Earth dist.	13718 Jan 26 18:47	21°≈55'28	1.34554 AU	morning set	13718 Dec 30 23:31	0 ろ 12° ろ 58'57	
max. Lattii dist.	13718 Jan 30 21:15	0° \	1.54554 AO	morning set	13/16 DCC 30 23.31	12 03037	
evening rise	13718 Jan 31 01:02	0° ∺ 18'08		superior conj	13719 Jan 06 20:14	27° る 52'41	102424
=		6°\(\)43'13		1 3		27° ろ 59'01	1°35'29
desc. node	13718 Feb 03 11:28	0° Υ 43°13		minimum elong	13719 Jan 06 21:25		1-35/29
	13718 Feb 17 13:29		2 (0 1012 1	F 4 F	13719 Jan 07 19:49	0° ≈	1 22000 177
evening max el	13718 Mar 07 03:13	22° Y 04'54	26°49'21	max. Earth dist.	13719 Jan 09 14:55	3°≈50'18	1.32990 AU
retrograde	13718 Mar 20 08:49	29° Y ′30′18		evening rise	13719 Jan 14 12:45	13° ≈ 58′00	
evening set	13718 Mar 26 20:06	26° Y ′58′08		desc. node	13719 Jan 21 08:09	26°≈54'38	
asc. node	13718 Mar 30 14:19	23° Y 16'15			13719 Jan 23 01:52	0° ∀	
min. Earth dist.	13718 Mar 30 20:12	22° Y ′59'32	0.66063 AU		13719 Feb 12 12:15	0° Υ	
inferior conj	13718 Apr 01 21:43	20° Ƴ 34'42	0°43'25	evening max el	13719 Feb 17 16:27		27°25'24
minimum elong	13718 Apr 01 20:36	20° Ƴ 37'58	0°42'45	retrograde	13719 Mar 03 08:13	12° Y ′58′21	
morning rise	13718 Apr 07 22:22	14° Ƴ 57'41		evening set	13719 Mar 10 02:51	10° Ƴ 29'29	
direct	13718 Apr 10 20:13	14° Y 11'03		min. Earth dist.	13719 Mar 13 22:52	7° Y ′02′23	0.64340 AU
morning max el	13718 Apr 17 05:22	17° Ƴ 32'32	18°11'46	inferior conj	13719 Mar 16 12:04	4° Ƴ 19'51	-0°19'09
	13718 Apr 26 15:20	9° 8		minimum elong	13719 Mar 16 12:39	4° Υ 18'18	0°18'53
desc. node	13718 May 02 13:49	9° 8 21'43		asc. node	13719 Mar 17 11:48	3° Ƴ 17′20	
morning set	13718 May 06 09:59	15° 8 31'43			13719 Mar 21 03:57	30° ₹	
	13718 May 15 11:35	$\Pi^{\circ}0$		morning rise	13719 Mar 23 00:28	28° ¥ 56'45	
	,			direct	13719 Mar 25 13:33	28°) €23'40	
superior conj	13718 May 21 15:16	9° Ⅱ 41'01	-1°56'31		13719 Mar 29 22:47	0° Υ	
minimum elong	13718 May 21 15:10	9° Д 41'01		morning max el	13719 Mar 31 22:26	1° Υ 40'51	17°50'39
max. Earth dist.	13718 May 21 00.51 13718 May 23 10:50			morning set	13719 Mai 31 22:20 13719 Apr 18 00:00	27° Υ 15'18	11 50 57
man. Latui Uist.			1.45050 AU	=	-		
	13718 Jun 03 16:22	0°©		desc. node	13719 Apr 19 10:26	29° Ƴ 39'42	
evening rise	13718 Jun 06 16:52	4°541'38	0.7		13719 Apr 19 15:16	0°8	
greatest brilliancy	13718 Jun 18 04:01	22°S22'02	-0.7m		1071035 01 10 11	1006 30	100405
_	13718 Jun 23 09:06	0° U		superior conj	13719 May 01 10:44	19° 8 24'17	
asc. node	13718 Jun 26 12:07	4°Ω11'44		minimum elong	13719 May 01 02:27	18° 8 51'00	
evening max el	13718 Jun 30 06:26	8° Ω 30'36	19°10'18	max. Earth dist.	13719 May 06 06:48	27° 8 05'54	1.45251 AU

	13719 May 08 03:05	0° I I			13720 Apr 29 22:05	0°Щ	
evening rise	13719 May 17 05:50	14° Ⅱ 06'40			13720 Apr 27 22:03 13720 May 20 23:57	0° ©	
evening rise	13719 May 27 18:09	0°95		evening max el	13720 May 26 09:01		21°14'10
greatest brilliancy	13719 Jun 01 04:30	6°930'38	-0.6m	asc. node	13720 May 30 06:11	9° 5 27'47	21 1110
asc. node	13719 Jun 13 09:05	22°915'25		retrograde	13720 Jun 04 01:55	11° © 13'22	
evening max el	13719 Jun 13 10:40	22° © 19'24	20°05'41	evening set	13720 Jun 08 10:48	9° 5 27'26	
retrograde	13719 Jun 21 03:06	26°5642'21		inferior conj	13720 Jun 13 16:42	3° 5 014'34	3°09'11
evening set	13719 Jun 25 01:33	25°513'04		minimum elong	13720 Jun 13 16:01	3° © 16'57	3°08'04
inferior conj	13719 Jun 30 08:31	19°511'40	3°11'43	min. Earth dist.	13720 Jun 14 00:49	2° 5 346'18	0.68719 AU
minimum elong	13719 Jun 30 08:48	19°510'41	3°10'40		13720 Jun 16 02:11	30°Ŗ Ⅱ	
min. Earth dist.	13719 Jul 01 06:13	17° 9 58'00	0.68007 AU	morning rise	13720 Jun 18 21:02	26° Ⅱ 57′00	
morning rise	13719 Jul 05 15:44	12° 5 49'27		direct	13720 Jun 24 00:29	24° ∏ 42'41	
direct	13719 Jul 11 07:39	10°919'52		desc. node	13720 Jul 02 07:36	28° ∏ 55′10	
desc. node	13719 Jul 16 10:25	11°957'00			13720 Jul 03 11:38	0 \circ \odot	
morning max el	13719 Jul 22 21:14	17° © 15'39	24°37'23	morning max el	13720 Jul 04 08:06	0° © 50'24	23°07'53
	13719 Aug 02 12:15	$0^{\circ}\Omega$			13720 Jul 26 09:03	$0^{\circ}\Omega$	
	13719 Aug 22 10:08	0° m		morning set	13720 Aug 07 19:48	19° Ω 41'47	
morning set	13719 Aug 27 14:06	8° Mp 48'53		max. Earth dist.	13720 Aug 12 02:27	26° Ω 55'47	1.39827 AU
max. Earth dist.	13719 Aug 31 04:09	15° Mp 12'37	1.37468 AU		13720 Aug 13 20:55	0° m	
aumorior aoni	12710 Cap 07 02:11	28° m) 17'26	0021100	aumorior coni	12720 Aug 10 20:42	100 mm 44152	0056111
superior conj	13719 Sep 07 03:11 13719 Sep 07 04:35			superior conj	13720 Aug 19 20:43	10° Mp 44'53	0°55'57
minimum elong	13719 Sep 07 04:35 13719 Sep 08 00:15	28° ™ 24'17 0° ₽	0°21'00	minimum elong asc. node	13720 Aug 20 00:53	11° Mp 04'03 22° Mp 48'56	0.22.27
asc. node	13719 Sep 08 00.13 13719 Sep 09 10:10	0 <u>₽</u> 2° ₽ 46'37		evening rise	13720 Aug 26 06:44 13720 Aug 29 10:29	22 11/48 36 28° Mp 52'19	
evening rise	13719 Sep 09 10:10 13719 Sep 15 15:01	2 = 40 37 15° £ 09'58		evening rise	13720 Aug 29 10:29 13720 Aug 30 00:36	0° ⊽	
evening rise	13719 Sep 13 13:01 13719 Sep 23 09:24	0°ML		evening max el	13720 Aug 30 00:30	0 = 24° £ 47'29	18°34'30
evening max el	13719 Sep 23 09:24 13719 Oct 02 09:56	12°ML43'24	19°20'56	retrograde	13720 Sep 14 10.33 13720 Sep 22 11:01	24° Ω 49'51	16 34 30
retrograde	13719 Oct 02 09:50 13719 Oct 11 19:50	17°M26'10	19 20 30	evening set	13720 Sep 22 11:01 13720 Sep 24 09:58	28° £ 36'08	
desc. node	13719 Oct 11 19:30 13719 Oct 12 06:41	17°M25'33		desc. node	13720 Sep 24 03:38 13720 Sep 28 04:09	27° Ω 01'35	
evening set	13719 Oct 12 00:41 13719 Oct 13 16:34	17°ML15'53		inferior conj	13720 Oct 02 07:54	24° ⊆ 07'48	-1°19'11
inferior conj	13719 Oct 22 07:15	13°ML07'11	-3°07'32	minimum elong	13720 Oct 02 04:44	24° ⊆ 13'52	1°17'35
minimum elong	13719 Oct 21 23:18	13°M20'13	3°03'59	min. Earth dist.	13720 Oct 05 12:37	21° Ω 41'48	0.57468 AU
min. Earth dist.	13719 Oct 24 20:30	11°ML27'07	0.55716 AU	morning rise	13720 Oct 09 20:01	18° Ω 59'50	0.07 100 110
morning rise	13719 Oct 30 03:44	8°M37'09		direct	13720 Oct 15 20:36	17° ≏ 28'50	
direct	13719 Nov 04 11:50	7°M32'36		morning max el	13720 Oct 30 03:37	24° £ 59'12	26°51'28
morning max el	13719 Nov 18 12:12	14°MJ36'33	25°24'56		13720 Nov 03 19:10	0°M	
Ü	13719 Nov 30 16:49	0° ∡ ¹		asc. node	13720 Nov 22 08:29	28°M56'49	
asc. node	13719 Dec 06 11:35	9° ∡ ¹44'41			13720 Nov 22 21:35	0° ∡ ¹	
morning set	13719 Dec 15 11:09	27° ∡ ¹40'24		morning set	13720 Nov 28 20:55	12° ∡ 12'39	
	13719 Dec 16 12:59	ರ∘ರ					
				superior conj	13720 Dec 05 16:51	27° ∡ 15'36	1°35'38
superior conj	13719 Dec 22 05:32	12° る 32'54	1°38'06	minimum elong	13720 Dec 05 15:53	27° ∡ 10′15	1°36'38
minimum elong	13719 Dec 22 05:37	12° る 33'19	1°39'10	max. Earth dist.	13720 Dec 06 01:25	28° ₮ 03'28	1.31281 AU
max. Earth dist.	13719 Dec 23 18:03	15° ප 54'11	1.31886 AU		13720 Dec 06 22:19	5°0	
evening rise	13719 Dec 29 09:39	27° る 59'48		evening rise	13720 Dec 12 13:11	12° る 16'53	
	13719 Dec 30 09:02	0° ≈			13720 Dec 21 12:25	0° ≈	
desc. node	13720 Jan 08 04:55	16° ≈ 47'24		desc. node	13720 Dec 25 01:46	6° ≈ 13'30	
	13720 Jan 16 07:32	0° ∀			13721 Jan 11 16:54	0° ∀	
evening max el	13720 Jan 31 03:00	18° ¥ 26′00	27°32'43	evening max el	13721 Jan 12 08:18	0°) 37′07	27°06'30
retrograde	13720 Feb 14 00:08	25°) 48'43		retrograde	13721 Jan 26 07:37	7°) €51'41	
evening set	13720 Feb 20 21:56	23° ¥ 30′25		evening set	13721 Feb 02 02:05	5° ¥ 52'04	
min. Earth dist.	13720 Feb 24 16:00	20°) € 30'06	0.62327 AU	min. Earth dist.	13721 Feb 05 22:39		0.60150 AU
inferior conj	13720 Feb 27 15:03	17°) 42′03		inferior conj	13721 Feb 09 03:07	0°) (31′36	
minimum elong	13720 Feb 27 18:14	17°) ₹34'30	1°31'17	minimum elong	13721 Feb 09 09:27	0°) 18′25	2°52'13
asc. node	13720 Mar 03 09:16	13°) 44'44			13721 Feb 09 18:22	30°R≈	
morning rise	13720 Mar 05 17:17	12°) ₹35'57		morning rise	13721 Feb 16 20:01	25°≈45'22	
direct	13720 Mar 07 23:18	12° ¥ 12'55	17047100	asc. node	13721 Feb 18 06:43	25°≈30'19	
morning max el	13720 Mar 14 15:59	15° ¥ 36'39 0° Ƴ	17°47'08	direct	13721 Feb 18 21:25	25°≈28'49 29°≈09'49	10002110
morning set	13720 Mar 24 18:38	10° Υ 05'38		morning max el	13721 Feb 26 06:35	29° ≈ 09'49 0°) €	18°02'10
morning set desc. node	13720 Mar 30 13:33	10°° Y °05'38 20° Y °07'51		morning set	13721 Feb 27 02:07	0° X 23° X 43'19	
desc. node	13720 Apr 05 06:58	20 TU/31		morning set	13721 Mar 13 20:24	23° Υ 43'19 0° Υ	
superior conj	13720 Apr 11 04:32	0° 8 11'32	0°45'00	desc. node	13721 Mar 17 05:53 13721 Mar 23 03:28	10° Υ 41'34	
minimum elong	13720 Apr 11 04:32 13720 Apr 11 00:09	29° Υ 53'08	0°44'55	acsc. Hout	13/21 Widi 23 U3.28	10 14134	
mmmum etong	13720 Apr 11 00:09 13720 Apr 11 01:47	0° 8	0 77 33	superior conj	13721 Mar 23 22:11	12° Y ′04'28	-0°06'14
max. Earth dist.	13720 Apr 11 01.47 13720 Apr 18 00:01	11° 8 22'46	1.43986 AU	minimum elong	13721 Mar 23 22:11 13721 Mar 23 21:40	12 γ 04 28 12° γ 02'10	0°06'15
evening rise	13720 Apr 18 00:01 13720 Apr 25 19:12	23° 8 41'04	1.75700 AU	behind sun begin	13721 Mar 23 14:22	12 γ 02 10 11° γ 29'52	0 0013
5 (ching 1150	15/20/1pi 25 17.12	25 07107		Johnna Jan Degill	15,21 Min 25 17.22	11 1 47 32	

morning set

13723 Feb 09 18:31

13723 Feb 13 13:02

22°≈23'14

0°)

13722 Feb 21 12:05

13722 Feb 25 15:24

morning set

0°**)**€

7°**¥**53'18

superior conj	13723 Feb 17 18:16	8° ¥ 24'27	0°55'34	superior conj	13724 Feb 01 11:52	22° ≈ 26'32	1°16'05
minimum elong	13723 Feb 17 20:59	8°) 37'44	0°55'38	minimum elong	13724 Feb 01 14:24	22° ≈ 39'33	1°16'30
max. Earth dist.	13723 Feb 24 02:43	20° ¥ 30′13	1.37770 AU	C	13724 Feb 05 05:42	0° ∀	
desc. node	13723 Feb 24 20:32	21°) 51'51	1.57770110	max. Earth dist.	13724 Feb 06 11:48	2°) 28′03	1.35638 AU
							1.55056 AU
evening rise	13723 Feb 27 19:50	27° ∺ 11'51		evening rise	13724 Feb 10 10:33	9°) 59'46	
	13723 Mar 01 10:18	0° Y		desc. node	13724 Feb 11 17:06	12° ∺ 20′37	
	13723 Mar 20 16:39	9° 8			13724 Feb 22 00:44	0 ° Υ	
evening max el	13723 Apr 04 06:31	17° 8 44'07	25°10'50		13724 Mar 15 07:04	$6^{\circ}B$	
retrograde	13723 Apr 16 07:42	24° 8 43'31		evening max el	13724 Mar 16 20:10	1° 8 33'27	26°18'15
asc. node	13723 Apr 20 22:00	23° 8 13'25		retrograde	13724 Mar 29 16:51	8° 8 52'33	20 1010
		_		-		_	
evening set	13723 Apr 22 02:52	22° 8 18'30		evening set	13724 Apr 04 22:53	6° 8 21'12	
min. Earth dist.	13723 Apr 26 12:14	17° 8 25'43	0.68020 AU	asc. node	13724 Apr 06 19:26	4° 8 37'34	
inferior conj	13723 Apr 27 18:12	15° 8 47'54	1°58'44	min. Earth dist.	13724 Apr 09 01:57	2° 8 03'37	0.66892 AU
minimum elong	13723 Apr 27 16:04	15° 8 54'55	1°57'25	inferior conj	13724 Apr 10 20:28	29° Ƴ 53'31	1°14'13
morning rise	13723 May 03 05:35	9° 8 53'33		minimum elong	13724 Apr 10 18:46	29° Ƴ 58'44	1°13'11
direct	13723 May 06 20:03	8° 8 38'59			13724 Apr 10 18:21	30° Ŗ ♈	1 10 11
	•		10010122		-		
morning max el	13723 May 13 21:22	12° 8 31'00	19°19'33	morning rise	13724 Apr 16 15:32	24° Y 09′52	
desc. node	13723 May 23 22:35	25° 8 16'28		direct	13724 Apr 19 19:08	23° Ƴ 13′50	
greatest brilliancy	13723 May 26 15:08	29° 8 12'31	-0.7m	morning max el	13724 Apr 26 07:52	26° Ƴ 42'38	18°31'47
	13723 May 27 03:56	Π°			13724 Apr 29 07:03	0°B	
morning set	13723 Jun 07 10:39	17° Ⅱ 08'39		desc. node	13724 May 09 19:22	15° 8 08'08	
morning set	13723 Jun 15 17:56	0°99		morning set	13724 May 17 05:11	26° 8 44'54	
				morning set	,		
max. Earth dist.	13723 Jun 20 05:15	6° © 59'58	1.45240 AU		13724 May 19 06:48	Π °0	
superior conj	13723 Jun 23 18:54	12° © 38'21	-2°12'51	superior conj	13724 Jun 02 04:21	21° Ⅱ 44'59	-2°08'13
minimum elong	13723 Jun 23 21:04	12° 9 346'56	2°13'51	minimum elong	13724 Jun 01 22:50	21° Ⅲ 23′26	2°09'01
•	13723 Jul 04 13:06	$0^{\circ}\Omega$		max. Earth dist.	13724 Jun 02 00:34	21° II 30'15	1.45829 AU
evening rise	13723 Jul 08 03:58	5° Ω 57'46		man. Darun dige.	13724 Jun 07 11:01	0ಂತ	1002) 110
•							
asc. node	13723 Jul 17 20:44	21° Ω 50′14		evening rise	13724 Jun 17 21:29	16°525'48	
	13723 Jul 23 09:42	0° m)			13724 Jun 26 11:52	$0 {\circ} \Omega$	
evening max el	13723 Jul 27 00:26	4° Mp 13'51	18°15'19	greatest brilliancy	13724 Jun 26 07:42	29° © 43'43	-0.8m
retrograde	13723 Aug 02 09:02	7° m 36'07		asc. node	13724 Jul 03 17:33	10° Ω 50′26	
evening set	13723 Aug 05 07:36	6° ™ 49'11		evening max el	13724 Jul 09 12:25	17° Ω 55'41	18°45'18
inferior conj	13723 Aug 11 06:36	1° m) 23'47	2°18'24	retrograde	13724 Jul 16 03:14	21° Ω 32'17	
	-			•			
minimum elong	13723 Aug 11 09:02	1° Mp 16'48	2°17'11	evening set	13724 Jul 19 10:34	20° Ω 29'36	
	13723 Aug 12 11:48	30° ŖΩ		inferior conj	13724 Jul 25 00:46	14° Ω 49'00	
min. Earth dist.	13723 Aug 13 17:08	28° Ω 37′20	0.64096 AU	minimum elong	13724 Jul 25 02:37	14° Ω 43'14	2°49'42
morning rise	13723 Aug 17 08:56	25° Ω 05'39		min. Earth dist.	13724 Jul 26 21:01	12° Ω 31'25	0.65942 AU
desc. node	13723 Aug 19 20:42	23° Ω 29'50		morning rise	13724 Jul 30 17:46	8° Ω 24'58	
direct	13723 Aug 23 23:30	22° Ω 30'28		desc. node	13724 Aug 05 18:10	5° Ω 45'25	
direct	•				-		
	13723 Sep 06 05:59	0° m)		direct	13724 Aug 06 01:53	5° Ω 45'02	
morning max el	13723 Sep 06 18:02	0° m ,29'58	27°35'13	morning max el	13724 Aug 19 05:22	13° Ω 32'22	26°41'41
	13723 Sep 28 12:18	0∘ ⊽			13724 Sep 01 13:21	0° m)	
morning set	13723 Oct 11 19:40	24° ₽ 04'24			13724 Sep 20 04:50	0∘ ত	
asc. node	13723 Oct 13 22:41	28° ≏ 20'44		morning set	13724 Sep 24 00:50	7° £ 06′10	
	13723 Oct 14 18:05	0° M		max. Earth dist.	13724 Sep 28 02:25	15° ♀ 00'41	1.34188 AU
max. Earth dist.	13723 Oct 14 10:09	3°M.44'39	1.32666 AU	asc. node	13724 Sep 29 19:17	18° ≏ 26'02	1.54100710
max. Earm dist.	13/23 Oct 10 13.20	J 11644 J9	1.32000 AU	asc. node	13/24 Sep 29 19.17	16 = 2002	
	12722 0 4 10 10 50	100 M 42110	0053130		12724 0 4 02 10 52	240 0 20110	002011.5
superior conj	13723 Oct 19 19:59	10°M.43'10	0°53'30	superior conj	13724 Oct 02 19:52	24° £ 39'18	0°28'15
superior conj minimum elong	13723 Oct 19 19:59 13723 Oct 19 17:48	10°M43'10 10°M31'23	0°53'30 0°53'43	superior conj minimum elong	13724 Oct 02 19:52 13724 Oct 02 18:25	24° ≙ 31'45	0°28'15 0°28'19
minimum elong	13723 Oct 19 17:48 13723 Oct 26 18:49	10°M31'23 25°M46'50		minimum elong	13724 Oct 02 18:25 13724 Oct 05 08:56	24° £ 31'45 0° ™	
minimum elong evening rise	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38	10°M31'23 25°M46'50 0°⊀			13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39	24° Ω 31'45 0° M 10° M 12'20	
minimum elong	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02	10°M31'23 25°M46'50 0°⊀ 29°⊀48'16		minimum elong	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57	24° Ω 31'45 0° M 10° M 12'20 0° X	0°28'19
minimum elong evening rise desc. node	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11	10°M31'23 25°M46'50 0°ダ 29°ダ48'16 0°G	0°53'43	minimum elong evening rise evening max el	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04	24° Ω 31'45 0° M 10° M 12'20 0° ⊀ 12° ⊀ 38'01	0°28'19
minimum elong evening rise desc. node evening max el	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45	10°M31'23 25°M46'50 0°♂ 29°♂48'16 0°♂ 2°♂528'20	0°53'43	minimum elong evening rise evening max el desc. node	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28	0°28'19
minimum elong evening rise desc. node evening max el retrograde	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57	10°M31'23 25°M46'50 0° ₹ 29° ₹48'16 0° ₹ 2° ₹28'20 8° ₹59'35	0°53'43	minimum elong evening rise evening max el desc. node retrograde	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55	0°28'19
minimum elong evening rise desc. node evening max el	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45	10°M31'23 25°M46'50 0°♂ 29°♂48'16 0°♂ 2°♂528'20	0°53'43	minimum elong evening rise evening max el desc. node	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28	0°28'19
minimum elong evening rise desc. node evening max el retrograde	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57	10°M31'23 25°M46'50 0° ₹ 29° ₹48'16 0° ₹ 2°₹28'20 8°₹59'35 8°₹24'20	0°53'43	minimum elong evening rise evening max el desc. node retrograde	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55	0°28'19 21°17'55
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist.	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35	10°™31'23 25°™46'50 0°҂ 29°҂48'16 0°℧ 2°℧28'20 8°℧59'35 8°℧24'20 5°℧05'41	0°53'43 22°55'21 0.54914 AU	evening rise evening max el desc. node retrograde evening set inferior conj	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30	0°28'19 21°17'55
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18	10° № 31'23 25° № 46'50 0° № 29° № 48'16 0° ♂ 2° ♂ 28'20 8° ♂ 59'35 8° ♂ 524'20 5° ♂ 05'41 4° ♂ 24'52	0°53'43 22°55'21 0.54914 AU -5°57'22	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43	0°28'19 21°17'55 -5°29'55 5°27'35
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41	10° № 31'23 25° № 46'50 0° № 2 29° № 48'16 0° ₹ 2° ₹28'20 8° ₹59'35 8° ₹24'20 5° ₹05'41 4° ₹24'52 4° ₹24'52	0°53'43 22°55'21 0.54914 AU -5°57'22	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 20:38	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56	0°28'19 21°17'55 -5°29'55
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13	10°M31'23 25°M46'50 0°ズ 29°ズ48'16 0°उ 2°उ28'20 8°उ59'35 8°उ24'20 5°उ05'41 4°उ24'52 4°उ24'20 0°उ36'01	0°53'43 22°55'21 0.54914 AU -5°57'22	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 20:38 13724 Nov 30 17:03	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56 10° ♂34'43	0°28'19 21°17'55 -5°29'55 5°27'35
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13 13723 Dec 25 08:01	10° № 31'23 25° № 46'50 0° № 2 29° № 48'16 0° ₹ 2° ₹28'20 8° ₹59'35 8° ₹24'20 5° ₹05'41 4° ₹24'52 4° ₹24'20 0° ₹36'01 0° ₹14'36	0°53'43 22°55'21 0.54914 AU -5°57'22 5°56'19	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 20:38 13724 Nov 30 17:03 13724 Dec 04 15:33	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56 10° ♂34'43 10° ♂01'19	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13	10°M31'23 25°M46'50 0°ズ 29°ズ48'16 0°उ 2°उ28'20 8°उ59'35 8°उ24'20 5°उ05'41 4°उ24'52 4°उ24'20 0°उ36'01	0°53'43 22°55'21 0.54914 AU -5°57'22	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 20:38 13724 Nov 30 17:03	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56 10° ♂34'43	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13 13723 Dec 25 08:01	10° № 31'23 25° № 46'50 0° № 2 29° № 48'16 0° ₹ 2° ₹28'20 8° ₹59'35 8° ₹24'20 5° ₹05'41 4° ₹24'52 4° ₹24'20 0° ₹36'01 0° ₹14'36	0°53'43 22°55'21 0.54914 AU -5°57'22 5°56'19	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 20:38 13724 Nov 30 17:03 13724 Dec 04 15:33	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56 10° ♂34'43 10° ♂01'19	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13 13723 Dec 25 08:01 13724 Jan 05 17:34	10° \mathbb{\text{m}}.31'23 25° \mathbb{\text{m}}.46'50 0° \mathbb{\text{m}}.29° \mathbb{\text{m}}.48'16 0° \mathbb{\text{T}} 2° \mathbb{\text{T}}.28'20 8° \mathbb{\text{T}}.24'20 5° \mathbb{\text{T}}.36'01 0° \mathbb{\text{T}}.36'01 0° \mathbb{\text{T}}.4'36 5° \mathbb{\text{T}}.4'28	0°53'43 22°55'21 0.54914 AU -5°57'22 5°56'19	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 03:02 13724 Nov 30 17:03 13724 Dec 04 15:33 13724 Dec 17 10:44 13724 Dec 26 19:55	24° № 31'45 0° M. 10° M.12'20 0° ℤ 12° ℤ 38'01 15° ℤ 01'28 18° ℤ 34'55 18° ℤ 17'48 14° ℤ 24'30 14° ℤ 35'43 14° ℤ 35'43 14° ℤ 34'43 10° ℤ 34'43 10° ℤ 01'19 16° ℤ 10'50	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el asc. node	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13 13723 Dec 25 08:01 13724 Jan 05 17:34 13724 Jan 09 22:44 13724 Jan 21 15:22	10°™31'23 25°™46'50 0°¾ 29°¾48'16 0°♂ 2°♂28'20 8°♂59'35 8°♂24'20 5°♂05'41 4°♂24'52 4°♂24'20 0°♂36'01 0°♂14'36 5°♂41'28 10°♂25'02 0°≈	0°53'43 22°55'21 0.54914 AU -5°57'22 5°56'19	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 03:02 13724 Nov 30 17:03 13724 Dec 04 15:33 13724 Dec 17 10:44 13724 Dec 26 19:55 13724 Dec 28 03:19	24° ♣31'45 0° M. 10° M.12'20 0° ♂ 12° ♂38'01 15° ♂01'28 18° ♂34'55 18° ♂17'48 14° ♂24'30 14° ♂35'43 14° ♂10'56 10° ♂34'43 10° ♂10'50 27° ♂55'29 0° ♂	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU
minimum elong evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13723 Oct 19 17:48 13723 Oct 26 18:49 13723 Oct 28 18:38 13723 Nov 15 17:02 13723 Nov 15 21:11 13723 Nov 18 05:45 13723 Dec 01 08:57 13723 Dec 05 09:35 13723 Dec 12 14:42 13723 Dec 13 19:18 13723 Dec 13 19:41 13723 Dec 22 07:13 13723 Dec 25 08:01 13724 Jan 05 17:34 13724 Jan 09 22:44	10°™31'23 25°™46'50 0°҂ 29°҂48'16 0°℧ 2°℧28'20 8°℧59'35 8°℧24'20 5°℧05'41 4°℧24'52 4°℧24'52 4°℧24'20 0°℧36'01 0°℧14'36 5°℧41'28 10°℧25'02	0°53'43 22°55'21 0.54914 AU -5°57'22 5°56'19	evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13724 Oct 02 18:25 13724 Oct 05 08:56 13724 Oct 10 04:39 13724 Oct 20 10:57 13724 Oct 29 21:04 13724 Nov 01 14:20 13724 Nov 10 20:31 13724 Nov 13 13:40 13724 Nov 22 11:01 13724 Nov 22 03:02 13724 Nov 22 03:02 13724 Nov 30 17:03 13724 Dec 04 15:33 13724 Dec 17 10:44 13724 Dec 26 19:55	24° № 31'45 0° M. 10° M.12'20 0° ℤ 12° ℤ 38'01 15° ℤ 01'28 18° ℤ 34'55 18° ℤ 17'48 14° ℤ 24'30 14° ℤ 35'43 14° ℤ 35'43 14° ℤ 10'56 10° ℤ 34'43 10° ℤ 01'19 16° ℤ 10'50 27° ℤ 55'29	0°28'19 21°17'55 -5°29'55 5°27'35 0.54491 AU

superior conj	13725 Jan 15 13:42	6°≈50'10	1°29'42	morning set	13725 Dec 24 01:41	6° る 34'29	
minimum elong	13725 Jan 15 15:27	6° ≈ 59'32	1°30'29				
max. Earth dist.	13725 Jan 19 03:14	14° ≈ 19′09	1.33826 AU	superior conj	13725 Dec 30 20:55	21° පි 26'16	1°36'49
evening rise	13725 Jan 23 15:35	23° ≈ 23′20		minimum elong	13725 Dec 30 21:38	21° る 30'09	1°37'49
•	13725 Jan 27 02:54	0° ∀		max. Earth dist.	13726 Jan 02 02:17	26° ප 16'15	1.32452 AU
desc. node	13725 Jan 28 13:42	2° ¥ 39'51			13726 Jan 03 20:06	0° ≈	
	13725 Feb 14 16:07	$0^{\circ}\Upsilon$		evening rise	13726 Jan 07 07:31	7° ≈ 13'18	
evening max el	13725 Feb 27 09:40	15° Y 10'41	27°07'48	desc. node	13726 Jan 15 10:22	22° ≈ 43'49	
retrograde	13725 Mar 12 20:13	22° Y ′38'34			13726 Jan 19 15:32	0°) €	
evening set	13725 Mar 19 11:10	20° Y ′06'35		evening max el	13726 Feb 09 21:53	28°) €24'27	27°32'25
min. Earth dist.	13725 Mar 23 09:11	16° Y ′22'07	0.65366 AU		13726 Feb 11 15:39	0° Y	
asc. node	13725 Mar 24 16:52	14° Y ′53'26		retrograde	13726 Feb 23 16:50	5° Y 51'22	
inferior conj	13725 Mar 25 15:56	13° Y '48'05	0°18'21	evening set	13726 Mar 02 13:17	3° Y 25'58	
minimum elong	13725 Mar 25 15:25	13° Ƴ 49'31	0°17'59	min. Earth dist.	13726 Mar 06 08:02	0° Y 10'55	0.63505 AU
morning rise	13725 Mar 31 21:19	8° Y 17′00			13726 Mar 06 12:28	30° ₹	
direct	13725 Apr 03 15:13	7° Y 36′39		inferior conj	13726 Mar 09 01:49	27°) €24'06	
morning max el	13725 Apr 09 23:21	10° Y ′54'53	18°00'46	minimum elong	13726 Mar 09 03:23	27° ∺ 20′05	0°48'22
	13725 Apr 23 10:04	0°8		asc. node	13726 Mar 11 14:21	24°) 57'13	
desc. node	13725 Apr 26 16:03	5° 8 18'10		morning rise	13726 Mar 15 19:54	22°) €07'56	
morning set	13725 Apr 28 03:14	7° 8 42'09		direct	13726 Mar 18 05:37	21°) (39'43	
	13725 May 11 23:28	Π $^{\circ}0$		morning max el	13726 Mar 24 17:00	24°) €58'44	17°46'58
	12725) (12 15 27	101100	1044122		13726 Mar 28 21:35	0°Υ 19°Υ55'42	
superior conj	13725 May 12 15:27	1° Ⅱ 03'08		morning set	13726 Apr 10 03:57		
minimum elong	13725 May 12 06:21 13725 May 15 20:33	0° Ⅱ 27'13 6° Ⅱ 06'04	1°44°24 1.45668 AU	desc. node	13726 Apr 13 12:37	25° Y 40'33 0° と	
max. Earth dist.	•	6 Д0604 26°Д04'18	1.43008 AU		13726 Apr 16 01:50	0.0	
evening rise	13725 May 28 17:37 13725 May 31 06:56	20 Д04 I8 0°95		superior conj	13726 Apr 22 19:38	11° 8 11'28	100000
greatest brilliancy	13725 Jun 11 02:26	16°\$22'39	-0.7m	minimum elong	13726 Apr 22 12:49	10° 8 43'35	
asc. node	13725 Jun 20 14:28	29° © 17'51	-0.7111	max. Earth dist.	13726 Apr 28 14:57	_	1.44784 AU
asc. node	13725 Jun 21 05:10	0°Ω		max. Lartii dist.	13726 May 04 15:40	0°Ⅱ	1.44/64 AC
evening max el	13725 Jun 22 19:50	1° Ω 42'55	19°31'57	evening rise	13726 May 08 04:34	5° ∏ 27'18	
retrograde	13725 Jun 30 01:00	5°Ω46'11	17 3137	evening rise	13726 May 24 16:23	0°95	
evening set	13725 Jul 03 17:39	4°Ω26'50		evening max el	13726 Jun 05 21:32	15° © 32'08	20°33'29
C	13725 Jul 07 23:45	30°Rூ		asc. node	13726 Jun 07 11:28	17° 5 01'24	
inferior conj	13725 Jul 09 02:24	28° © 32'39	3°07'53	retrograde	13726 Jun 13 23:55	20°512'05	
minimum elong	13725 Jul 09 03:18	28° © 29'42	3°06'49	evening set	13726 Jun 18 02:38	18° © 35'52	
min. Earth dist.	13725 Jul 10 08:16	26°953'45	0.67383 AU	inferior conj	13726 Jun 23 08:51	12° © 29'32	3°12'00
morning rise	13725 Jul 14 12:27	22° © 08'26		minimum elong	13726 Jun 23 08:43	12° © 30'01	3°10'56
direct	13725 Jul 20 10:52	19° 5 32'41		min. Earth dist.	13726 Jun 24 00:48	11° 5 34'41	0.68366 AU
desc. node	13725 Jul 23 15:34	20°910'42		morning rise	13726 Jun 28 14:30	6° © 08'52	
morning max el	13725 Aug 01 16:14	26° © 52'14	25°26'28	direct	13726 Jul 04 01:17	3° 5 544'53	
	13725 Aug 04 14:10	$0^{\circ}\Omega$		desc. node	13726 Jul 10 12:50	6° 5 20'27	
	13725 Aug 26 04:02	0° ™		morning max el	13726 Jul 15 02:27	10° 5 21'39	23°59'29
morning set	13725 Sep 06 15:06	19° m 26'34			13726 Jul 30 16:40	0 \circ Ω	
max. Earth dist.	13725 Sep 10 05:42	26° m 05'09	1.36172 AU		13726 Aug 18 21:11	0° m)	
	13725 Sep 12 07:11	0∘ ⊽		morning set	13726 Aug 19 10:01	0° m 54'49	
	12727 9 17 12 12	00 6 05:5	0001150	max. Earth dist.	13726 Aug 23 03:37	7° Mg 25′07	1.38465 AU
superior conj	13725 Sep 16 10:49	8° 2 07'54			12726 4 20 12 26	210m-01110	0925151
minimum elong	13725 Sep 16 10:56	8° Ω 08'31	0°01′54	superior conj	13726 Aug 30 13:26	21° Mp 01'10	
behind sun begin	13725 Sep 16 04:40	7° Ω 37'12		minimum elong	13726 Aug 30 15:57	21° Mp 13'09	0°35'39
behind sun end asc. node	13725 Sep 16 17:13 13725 Sep 16 15:52	8° ₤ 39'53		asc. node	13726 Sep 03 12:23 13726 Sep 04 05:07	28°M)38'16 0°Ω	
evening rise	13725 Sep 10 13.32 13725 Sep 24 11:01	24° £ 26'29		evening rise	13726 Sep 04 03.07	0 = 8° ⊆ 23'04	
evening rise	13725 Sep 27 05:02	0°M₁		evening rise	13726 Sep 20 15:08	0°M	
evening max el	13725 Oct 12 01:30	23°M27'21	19°57'29	evening max el	13726 Sep 24 20:01	5°M06'21	18°58'33
desc. node	13725 Oct 12 01:30	28°M12'54	1) 3/2)	retrograde	13726 Oct 03 14:16	9°M30'03	10 30 33
retrograde	13725 Oct 22 10:20	28°M37'14		evening set	13726 Oct 05 11:08	9° M 18'51	
evening set	13725 Oct 24 09:52	28°M26'47		desc. node	13726 Oct 06 09:11	9°M05'31	
inferior conj	13725 Nov 02 06:54	24°M27'18	-4°08'21	inferior conj	13726 Oct 13 19:20	5°M02'35	-2°20'52
minimum elong	13725 Nov 01 21:04	24°M42'14		minimum elong	13726 Oct 13 13:23	5°M12'59	
min. Earth dist.	13725 Nov 04 04:46	23°M17'37		min. Earth dist.	13726 Oct 16 17:12	3°ML01'10	0.56394 AU
morning rise	13725 Nov 10 06:56	20° ™ 16'04		morning rise	13726 Oct 21 12:37	0° ™ 16'38	
direct	13725 Nov 15 03:35	19°M24'23			13726 Oct 22 04:49	30° Ŗ Ω	
morning max el	13725 Nov 28 20:47	26°M11′26	24°25'09	direct	13726 Oct 27 04:36	29° ჲ 00'56	
	13725 Dec 02 11:47	0° ∡ ¹			13726 Nov 01 04:53	0° M	
asc. node	13725 Dec 13 16:59	16° ∡ 14'55		morning max el	13726 Nov 10 08:20	6°M17'03	26°05'01
	13725 Dec 20 22:36	ರ∘ರ			13726 Nov 27 17:02	0° ∡	

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morning max el	13730 Aug 29 23:34	23° Ω 19'58	27°15'43	morning rise	13731 Jul 24 11:34	1° Ω 32'53	
	13730 Sep 04 22:00	0° m ∕			13731 Jul 26 15:14	30° ₹ ∽	
	13730 Sep 25 03:21	0∘ ⊽		direct	13731 Jul 30 16:00	28° © 53'37	
morning set	13730 Oct 04 10:25	17° ♀ 02'01		desc. node	13731 Jul 31 20:40	28° © 58'54	
asc. node	13730 Oct 08 00:54	24° ≗ 12'47			13731 Aug 04 01:32	$0^{\circ}\Omega$	
max. Earth dist.	13730 Oct 08 20:45	25° ♀ 54'14	1.33241 AU	morning max el	13731 Aug 12 10:36	6° Ω 30′24	26°11'47
	13730 Oct 10 20:08	0° M		C	13731 Aug 30 15:00	0° m/	
				morning set	13731 Sep 17 09:40	29° m 46'59	
superior conj	13730 Oct 12 18:00	4°M02'09	0°43'27	morning set	13731 Sep 17 03:40	0∘ ⊽	
				E 41 E 4	•		1 24002 ATT
minimum elong	13730 Oct 12 16:02	3°M51'42	0°43'36	max. Earth dist.	13731 Sep 21 05:20	7° Ω 02'40	1.34982 AU
evening rise	13730 Oct 19 20:25	19° M 16'11		asc. node	13731 Sep 24 21:28	14° ≏ 19'18	
	13730 Oct 25 01:36	0° ∡ ¹					
desc. node	13730 Nov 09 19:29	23° ∡ ′50′15		superior conj	13731 Sep 26 14:26	17° ≏ 47'37	0°16'01
evening max el	13730 Nov 10 01:36	24° ∡ ¹05′21	22°12'37	minimum elong	13731 Sep 26 13:33	17° ≏ 43'02	0°16'04
	13730 Nov 19 14:34	0° ろ		behind sun begin	13731 Sep 26 13:07	17° ♀ 40'50	
retrograde	13730 Nov 22 18:55	0° る 23'36		behind sun end	13731 Sep 26 13:58	17° ≏ 45'14	
evening set	13730 Nov 26 05:04	29° × 757'45			13731 Oct 02 11:18	0°M	
e vennig see	13730 Nov 26 01:20	30°R. ₹		evening rise	13731 Oct 04 05:01	3°M37'34	
		•	5052120	evening rise		0° √	
inferior conj	13730 Dec 04 20:41	26° ₹ 02'51			13731 Oct 19 00:45		2004444
minimum elong	13730 Dec 04 17:07	26° ₹ 07'51	5°52'02	evening max el	13731 Oct 22 22:00	4° ∡ °29'18 −	20°41'16
min. Earth dist.	13730 Dec 04 08:01	26° ∡ ¹20'37	0.54621 AU	desc. node	13731 Oct 27 16:48	8° ∡ 14'58	
morning rise	13730 Dec 13 06:15	22° ∡ 15'36		retrograde	13731 Nov 03 05:21	10° ∡ 06'30	
direct	13730 Dec 16 15:59	21° ∡ ⁴49'42		evening set	13731 Nov 05 13:12	9° ∡ ¹53'17	
morning max el	13730 Dec 28 16:55	27° ∡ ³35'38	21°36'18	inferior conj	13731 Nov 14 12:13	5° ∡ ¹58'58	-5°00'36
•	13730 Dec 31 00:40	0°ჳ		minimum elong	13731 Nov 14 02:28	6° ∡ 12'59	4°57'22
asc. node	13731 Jan 04 01:13	5° ට 05'15		min. Earth dist.	13731 Nov 15 14:13	5° ∡ ′21'37	0.54604 AU
use. node	13731 Jan 17 20:29	0°≈		morning rise	13731 Nov 22 15:41	2°×2137	0.5 100 1710
				=			
morning set	13731 Jan 18 04:22	0° ≈ 41'13		direct	13731 Nov 27 00:08	1° 🗷 22'11	22022121
				morning max el	13731 Dec 10 05:44	7° ∡ ¹47'56 −	23°22'21
superior conj	13731 Jan 25 08:59	15° ≈ 52′21	1°22'39	asc. node	13731 Dec 21 22:21	22° ∡ ′58′09	
minimum elong	13731 Jan 25 11:15	16° ≈ 04'07	1°23'14		13731 Dec 25 23:14	0°₹	
max. Earth dist.	13731 Jan 29 17:55	24° ≈ 49'36	1.34828 AU	morning set	13732 Jan 02 15:59	15° る 27'07	
	13731 Feb 01 08:56	0°) €			13732 Jan 09 09:19	0° ≈	
evening rise	13731 Feb 02 22:08	2° ¥ 58'24					
desc. node	13731 Feb 05 19:16	8° ¥ 20'25		superior conj	13732 Jan 09 13:23	0° ≈ 21'54	1°33'29
dese. Hode	13731 Feb 18 18:23	0° Υ		minimum elong	13732 Jan 09 14:43	0°≈29'04	1°34'22
avanina may al	13731 Mar 10 02:41	24° Υ '43'17	26°41'57	max. Earth dist.	13732 Jan 12 12:56	6°≈43'42	1.33193 AU
evening max el			20 41 37				1.33193 AU
	13731 Mar 16 16:59	0° 8		evening rise	13732 Jan 17 08:10	16° ≈ 34'10	
retrograde	13731 Mar 23 06:08	2° 8 07'08		desc. node	13732 Jan 23 15:54	28° ≈ 33'58	
	13731 Mar 29 03:07	30° ŖƳ			13732 Jan 24 11:03	0° ℋ	
evening set	13731 Mar 29 16:06	29° Ƴ 35′06			13732 Feb 13 06:03	0 ° Υ	
asc. node	13731 Apr 01 21:59	26° Y °25′44		evening max el	13732 Feb 20 16:02	8° Y 12'44	27°21'42
min. Earth dist.	13731 Apr 02 16:59	25° Ƴ 31'37	0.66291 AU	retrograde	13732 Mar 05 06:29	15° Ƴ 40'13	
inferior conj	13731 Apr 04 16:39	23° Y 10'25	0°51'58	evening set	13732 Mar 12 00:21	13° Ƴ 10'19	
minimum elong	13731 Apr 04 15:22	23° Y 14'16	0°51'09	min. Earth dist.	13732 Mar 15 20:50	9° Y ′38'54	0.64617 AU
morning rise	13731 Apr 10 15:46	17° Υ 31'31	0 01 0)	inferior conj	13732 Mar 18 08:25		-0°08'53
•	-	16° Y '42'30		-	13732 Mar 18 08:41	6° Υ 57'31	
direct	13731 Apr 13 15:05		10016104	minimum elong			0°08'48
morning max el	13731 Apr 20 00:52	20° Y °05′28	18°16'24	transit middle	13732 Mar 18 08:41	6° Y 57'31	0°08'48
	13731 Apr 27 19:05	0° 8		transit begin	13732 Mar 18 06:07	7° Y ′04'28	
desc. node	13731 May 04 21:36	11° 8 00'35		transit end	13732 Mar 18 11:15	6° Ƴ 50'35	
morning set	13731 May 09 15:16	18° 8 33'56		asc. node	13732 Mar 18 19:27	6° Ƴ 28'29	
	13731 May 16 19:49	$\Pi^{\circ}0$		morning rise	13732 Mar 24 18:55	1° Y 33'02	
	-			direct	13732 Mar 27 09:15	0° Y 58'08	
superior conj	13731 May 25 01:51	12° ∏ 58'10	-2°00'09	morning max el	13732 Apr 02 17:37	4° Υ 15'05	17°52'44
minimum elong	13731 May 24 17:59	12° Ⅲ 27'24		morning max cr	13732 Apr 19 23:50	0°8	1, 32 11
_	-				-	0° 8 06'01	
max. Earth dist.	13731 May 26 09:24		1.45857 AU	morning set	13732 Apr 20 01:16		
	13731 Jun 05 00:02	0°©		desc. node	13732 Apr 20 18:13	1° 8 16'40	
evening rise	13731 Jun 10 02:06	7° © 55'51					
greatest brilliancy	13731 Jun 20 19:23	24° © 33'01	-0.8m	superior conj	13732 May 03 18:43	22° 8 33'54	
	13731 Jun 24 10:51	0 $^{\circ}\Omega$		minimum elong	13732 May 03 10:04	21° 8 59'18	1°29'46
asc. node	13731 Jun 28 19:51	6° Ω 05'48		max. Earth dist.	13732 May 08 05:36	29° 8 37'26	1.45382 AU
evening max el	13731 Jul 03 03:10	11° Ω 07′20	19°03'16		13732 May 08 11:20	$\Pi^{\circ}0$	
retrograde	13731 Jul 09 23:00	14° Ω 53'26		evening rise	13732 May 19 16:29	17° Ⅲ 23'20	
evening set					13732 May 27 23:45	0°95	
•	[3/3] [111 [3 111-19	13° X / 43° 3×					
interior con-	13731 Jul 13 10:19	13°Ω43'38	2°59'45	greatest hrilliangy	•		-0.6m
inferior conj	13731 Jul 18 21:49	7° Ω 57'16	2°59'45	greatest brilliancy	13732 Jun 03 11:28	9° © 36'36	-0.6m
minimum elong min. Earth dist.			2°59'45 2°58'40 0.66612 AU	greatest brilliancy asc. node evening max el	•		-0.6m 19°56'26

retrograde	13732 Jun 22 21:31	29°513'32		retrograde	13733 Jun 06 20:28	13°9543'21	
evening set	13732 Jun 26 18:28	27°5546'46		evening set	13733 Jun 11 03:43	11°S59'56	
inferior conj	13732 Jul 02 01:47	21° 5 647'06	3°11'03	inferior conj	13733 Jun 16 09:37	5° © 48'37	3°10'14
minimum elong	13732 Jul 02 02:14	21° © 45'35	3°10'01	minimum elong	13733 Jun 16 09:04	5° © 50'31	3°09'09
min. Earth dist.	13732 Jul 03 01:33	20°926'52	0.67863 AU	min. Earth dist.	13733 Jun 16 19:45	5° © 13'26	0.68643 AU
morning rise	13732 Jul 07 09:40	15° © 24'16			13733 Jun 21 01:22	30°Ŗ Ⅱ	
direct	13732 Jul 13 03:16	12° © 53'00		morning rise	13733 Jun 21 14:12	29° Ⅲ 30′05	
desc. node	13732 Jul 17 18:02	14° © 12'09		direct	13733 Jun 26 19:32	27° Ⅲ 13'11	
morning max el	13732 Jul 24 21:09	19° © 55'17	24°50'21		13733 Jul 03 10:15	0°€	
	13732 Aug 02 11:52	$0^{\circ}\Omega$		desc. node	13733 Jul 04 15:17	0°ഇ58'22	
	13732 Aug 22 18:25	0° m y		morning max el	13733 Jul 07 07:50	3° 5 28'51	23°21'10
morning set	13732 Aug 29 16:11	11° m 46'02			13733 Jul 27 14:43	$0^{\circ}\Omega$	
max. Earth dist.	13732 Sep 02 05:55	18° m) 11'23	1.37129 AU	morning set	13733 Aug 11 01:28	22° Ω 48'36	
	13732 Sep 08 11:53	0∘ ⊽		max. Earth dist.	13733 Aug 15 03:53	29° Ω 47'45	1.39476 AU
	•				13733 Aug 15 06:42	o∘ mp	
superior conj	13732 Sep 09 00:34	1° ♀ 01'54	-0°15'59		Č	•	
minimum elong	13732 Sep 09 01:37	1° Ω 07'00		superior conj	13733 Aug 22 20:36	13° m) 36'22	-0°50'50
behind sun begin	13732 Sep 09 00:25	1° ഫ 01'11		minimum elong	13733 Aug 23 00:20	13° m 53'41	0°50'36
behind sun end	13732 Sep	1° ユ 12'50		asc. node	13733 Aug 28 14:33	24° m) 29'02	0 20 30
asc. node	13732 Sep 10 18:00	4° ユ 25'51		use. Houe	13733 Aug 31 11:07	0° <u>ت</u>	
evening rise	13732 Sep 17 18:00 13732 Sep 17 09:11	7 —25 51 17° Ω 45'07		evening rise	13733 Sep 01 06:04	1° ≏ 31'32	
evening rise	13732 Sep 17 09:11 13732 Sep 23 16:14	0°M		•	13733 Sep 01 00:04 13733 Sep 17 07:56	27° ♀ 36'43	18°40'02
	*		10920120	evening max el	•	27 = 3043 0° M	18 40 02
evening max el	13732 Oct 04 08:28	15°M38'42	19°29'39	. 1	13733 Sep 20 04:57		
desc. node	13732 Oct 13 14:12	20°M28'01		retrograde	13733 Sep 25 12:28	1°M44'15	
retrograde	13732 Oct 14 00:17	20°M28'33		evening set	13733 Sep 27 10:40	1°M31'21	
evening set	13732 Oct 15 21:16	20°M18′25		desc. node	13733 Sep 30 11:42	0°M23′18	
inferior conj	13732 Oct 24 13:54	16°M₁2'17			13733 Oct 01 05:00	30°Ŗ <u>Ω</u>	
minimum elong	13732 Oct 24 05:20	16°M26′02		inferior conj	13733 Oct 05 11:21	27° ≏ 06′20	
min. Earth dist.	13732 Oct 26 23:36	14°M39'52	0.55505 AU	minimum elong	13733 Oct 05 07:29		1°33'06
morning rise	13732 Nov 01 11:21	11° M 47'25		min. Earth dist.	13733 Oct 08 14:49	24° ≏ 46'03	0.57172 AU
direct	13732 Nov 06 16:29	10° M 46′27		morning rise	13733 Oct 13 00:52	22° ჲ 03'53	
morning max el	13732 Nov 20 15:29	17° M 46'21	25°10'05	direct	13733 Oct 18 23:23	20° ≏ 36'50	
	13732 Nov 30 17:06	0° ∡ ¹		morning max el	13733 Nov 02 05:51	28° ≏ 04'06	26°40'30
asc. node	13732 Dec 07 19:23	11° ∡ ³34'33			13733 Nov 04 03:39	0° M	
morning set	13732 Dec 17 03:47	0° る 09'52			13733 Nov 24 07:18	0° ∡ ″	
	13732 Dec 17 01:56	8°0		asc. node	13733 Nov 24 16:18	0° ∡ ¹42'43	
				morning set	13733 Dec 01 13:55	14° ∡ ⁴43'42	
superior conj	13732 Dec 23 22:14	15° පි 01'41	1°37'58				
minimum elong	13732 Dec 23 22:29	15° පි 03'01	1°39'00	superior conj	13733 Dec 08 09:23	29° ∡ ⁴44'26	1°36'24
max. Earth dist.	13732 Dec 25 15:06	18° ප් 46'14	1.32011 AU	minimum elong	13733 Dec 08 08:34	29° ∡ ³39'55	1°37'24
	13732 Dec 30 21:25	0° ≈ ≈		C	13733 Dec 08 12:10	0°ჳ	
evening rise	13732 Dec 31 03:53	0° ≈ 33'24		max. Earth dist.	13733 Dec 08 21:57	0°る54'35	1.31334 AU
desc. node	13733 Jan 09 12:36	18° ≈ 30'05		evening rise	13733 Dec 15 06:35	14° る 48'37	
	13733 Jan 16 10:58	0° ∀		* · · · · · · · · · · · · · · · · · · ·	13733 Dec 22 21:26	0° ≈	
evening max el	13733 Feb 02 03:03	21°) 13'16	27°33'41	desc. node	13733 Dec 27 09:26	8° ≈ 00'39	
retrograde	13733 Feb 15 23:43	28°) 37'26	2, 33 .1	dese. node	13734 Jan 11 23:04	0° ∀	
evening set	13733 Feb 22 21:24	26°\(\frac{7}{16'53}\)		evening max el	13734 Jan 15 09:18	3°) 31'35	27°12'42
min. Earth dist.	13733 Feb 26 15:27		0.62640 AU	retrograde	13734 Jan 29 08:41	10° ¥ 47'47	2/ 12 72
inferior conj	13733 Mar 01 13:20	20°) 24'47		evening set	13734 Feb 05 04:01	8°) 45'00	
•	13733 Mar 01 15:20	20° X 18'10		min. Earth dist.	13734 Feb 08 23:49	6° ∺ 00'50	0.60474 AU
minimum elong		20 X 18 10 16° X 48'13	1 19 39			3° ∺ 19'51	
asc. node	13733 Mar 05 16:56			inferior conj	13734 Feb 12 03:51		
morning rise	13733 Mar 08 13:25	15°) € 16'05		minimum elong	13734 Feb 12 09:43	3° ∺ 07'23	2-39-38
direct	13733 Mar 10 20:19	14°) ₹51'50	1504601		13734 Feb 16 12:24	30°R≈	
morning max el	13733 Mar 17 11:22	18°) €13'57	17°46'31	morning rise	13734 Feb 19 18:36	28°≈30'26	
	13733 Mar 26 01:02	0°Υ		asc. node	13734 Feb 20 14:25	28° ≈ 19'31	
morning set	13733 Apr 02 11:43	12° Y 47'42		direct	13734 Feb 21 20:23	28°≈13'13	
desc. node	13733 Apr 07 14:47	21° Y '43'38			13734 Feb 26 21:50	0° ∀	
	13733 Apr 12 11:13	0° 8		morning max el	13734 Mar 01 02:38	1° 米 51′10	17°58'41
				morning set	13734 Mar 16 16:23	26° ¥ 19'30	
superior conj	13733 Apr 14 08:56	3° 8 11'16			13734 Mar 18 16:22	0° Υ	
minimum elong	13733 Apr 14 03:54	2° 8 50'16	0°50'58	desc. node	13734 Mar 25 11:17	12° Y 16'44	
max. Earth dist.	13733 Apr 20 23:07	13° 8 57'05	1.44214 AU				
evening rise	13733 Apr 29 04:43	26° 8 53'33		superior conj	13734 Mar 26 23:11	14° Y 54'53	-0°11'54
	13733 May 01 05:16	$\Pi^{\circ}0$		minimum elong	13734 Mar 26 22:09	14° Y ′50'23	0°11'54
	13733 May 21 22:09	0 \circ \odot		behind sun begin	13734 Mar 26 16:45	14° Y 26'41	
evening max el	13733 May 29 07:24	8° 5 45'16	21°03'15	behind sun end	13734 Mar 27 03:34	15° Y 14'03	
asc. node	13733 Jun 01 13:53	11° © 37'22		max. Earth dist.	13734 Apr 03 12:06	27° Y '45'11	1.42477 AU

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	13734 Apr 04 20:51	0°8		max. Earth dist.	13735 Mar 16 20:44	10° Y ′53'36	1.40363 AU
evening rise	13734 Apr 09 05:31	7° 8 01'59		evening rise	13735 Mar 21 02:33	18° Y 04'57	1.10202110
	13734 Apr 24 09:57	0°II		· · · · · · · · · · · · · · · · · · ·	13735 Mar 28 12:29	0°8	
evening max el	13734 May 12 01:27	22° I 35'15	22°19'55		13735 Apr 18 21:02	0°II	
asc. node	13734 May 19 11:04	27° I I53'23		evening max el	13735 Apr 24 16:20	6° Ⅱ 27'21	23°40'55
retrograde	13734 May 21 18:05	28° I I17'20		retrograde	13735 May 05 12:50	12° Ⅲ 50'12	
evening set	13734 May 26 12:19	26° Ⅱ 18'20		asc. node	13735 May 06 08:21	12° I I47'14	
inferior conj	13734 May 31 19:11	19° Ⅱ 57'28	2°58'36	evening set	13735 May 10 18:41	10° Ⅱ 37'26	
minimum elong	13734 May 31 17:47	20° Ⅱ 02'19	2°57'24	min. Earth dist.	13735 May 15 12:58	5° Ⅱ 03'09	0.68780 AU
min. Earth dist.	13734 May 31 16:17	20° Ⅱ 07'33	0.68945 AU	inferior conj	13735 May 16 04:31	4° Ⅱ 09'52	2°36'43
morning rise	13734 Jun 05 23:05	13° Ⅱ 45'12		minimum elong	13735 May 16 02:33	4° Ⅱ 16'37	2°35'24
direct	13734 Jun 10 15:43	11° Ⅱ 46'44			13735 May 19 10:34	30° ₹ 8	
morning max el	13734 Jun 19 21:02	17° Ⅱ 10'11	21°53'20	morning rise	13735 May 21 10:23	28° 8 05'14	
desc. node	13734 Jun 21 12:26	18° Ⅱ 53'21		direct	13735 May 25 14:28	26° 8 27'15	
	13734 Jun 30 10:10	0 \circ \odot			13735 Jun 01 13:47	$\Pi^{\circ}0$	
	13734 Jul 20 16:10	$0^{\circ}\Omega$		morning max el	13735 Jun 02 15:52	1° Ⅱ 01'53	20°34'03
morning set	13734 Jul 22 10:01	2° Ω 46′14		desc. node	13735 Jun 08 09:28	7° Ⅱ 38'34	
max. Earth dist.	13734 Jul 28 05:12	12° Ω 12'41	1.41755 AU		13735 Jun 24 02:57	0ංම	
				morning set	13735 Jul 01 20:04	11° © 45'52	
superior conj	13734 Aug 04 22:10	25° Ω 21'22	-1°25'26	max. Earth dist.	13735 Jul 10 13:26	25° © 31'17	1.43701 AU
minimum elong	13734 Aug 05 04:34	25° Ω 49′28	1°25'17		13735 Jul 13 07:50	$0^{\circ}\Omega$	
	13734 Aug 07 13:10	0° m					
asc. node	13734 Aug 15 11:09	14° m) 25'16		superior conj	13735 Jul 17 01:09	6° Ω 07'34	-1°54'44
evening rise	13734 Aug 15 15:59	14° m 47'33		minimum elong	13735 Jul 17 08:16	6° £ 37′11	1°55'03
	13734 Aug 24 04:25	0∘ ⊽		evening rise	13735 Jul 29 10:16	27° Ω 20'41	
evening max el	13734 Aug 31 16:29	10° ≙ 15'46	18°11'33		13735 Jul 30 22:37	0° m)	
retrograde	13734 Sep 07 19:37	13° ≙ 53'27		asc. node	13735 Aug 02 07:47	4° m 09'39	
evening set	13734 Sep 10 00:22	13° ≏ 33'20		evening max el	13735 Aug 15 05:48	23° m 24'02	18°02'39
inferior conj	13734 Sep 17 06:37	8° ≏ 47'25	0°02'03	retrograde	13735 Aug 21 18:30	26° Mp $46'30$	
minimum elong	13734 Sep 17 06:41	8° ≏ 47'16	0°02'05	evening set	13735 Aug 24 07:20	26° Mp 15′29	
transit middle	13734 Sep 17 06:41	8° ≏ 47'16	0°02'05	inferior conj	13735 Aug 30 21:00	21° m 09'51	1°17'55
transit begin	13734 Sep 17 03:18	8° ჲ 54'38		minimum elong	13735 Aug 30 23:04	21°Mp04'40	1°16'56
transit end	13734 Sep 17 10:05	8° ₾ 39'52		min. Earth dist.	13735 Sep 02 21:32	18° m 09'18	0.61606 AU
desc. node	13734 Sep 17 09:15	8° ≏ 41'40		desc. node	13735 Sep 04 06:49	16° m 53'01	
min. Earth dist.	13734 Sep 20 13:41	5° ჲ 56'13	0.59312 AU	morning rise	13735 Sep 06 12:14	15° m)08'15	
morning rise	13734 Sep 24 09:37	3° ₾ 10'53		direct	13735 Sep 13 04:11	12° m 50'21	
direct	13734 Sep 30 20:14	1° ≏ 16'19		morning max el	13735 Sep 27 08:30	20° m 48'19	27°58'37
morning max el	13734 Oct 15 03:45	9° ഫ 02'55	27°38'48		13735 Oct 05 07:33	0∘ ⊽	
	13734 Oct 31 05:05	0° M			13735 Oct 24 05:51	0°M₊	
asc. node	13734 Nov 11 13:07	20° M 14′22		asc. node	13735 Oct 29 09:51	10°M02'08	
morning set	13734 Nov 15 20:41	29° M 04'37		morning set	13735 Oct 30 22:04	13°M06'59	
	13734 Nov 16 07:08	0° ∡ ¹		max. Earth dist.	13735 Nov 05 12:11	25°M01'54	1.31566 AU
	1050434 00 00 55	1.40.70.511.0	1000155		1252531 05 05 02	200M 55140	1015115
superior conj	13734 Nov 22 20:57	14° ₹ 25'10		superior conj	13735 Nov 07 07:03	28°M57'48	1°15'45
minimum elong	13734 Nov 22 19:17	14° ∡ 15'51	1°29'47	minimum elong	13735 Nov 07 04:51	28°M45'40	1°16'18
max. Earth dist.	13734 Nov 22 06:13	13° ₹ 02'55	1.31185 AU		13735 Nov 07 18:18	0° ⊼ ¹	
evening rise	13734 Nov 29 14:05	29° √ 14'49		evening rise	13735 Nov 14 00:20	13° ∡ 746′09	
1 1	13734 Nov 29 22:31	0°る		1 1	13735 Nov 22 00:31	0°る	
desc. node	13734 Dec 14 06:24	26° ろ 56'08		desc. node	13735 Dec 01 03:28	15° る 02'55	24051146
	13734 Dec 16 05:52	0° ≈	26017101	evening max el	13735 Dec 09 23:19		24°51'46
evening max el	13734 Dec 28 08:28	14°≈59'23	26°17'01	. 1	13735 Dec 15 14:34	0°≈ 2011.5	
retrograde	13735 Jan 11 07:26	22°≈04'45		retrograde	13735 Dec 23 17:47	2°≈29'15	
evening set	13735 Jan 17 16:17	20°≈27'24	0.50215.411	evening set	13735 Dec 29 06:08	1°≈21'39	
min. Earth dist.	13735 Jan 21 21:58	17°≈50'46	0.58315 AU	i matatia	13736 Jan 01 02:39	30°Rる	0.56410.441
inferior conj	13735 Jan 25 00:22	15°≈33'59		min. Earth dist.	13736 Jan 03 11:12		0.56410 AU
minimum elong	13735 Jan 25 08:52	15°≈18'19	4°02'53	inferior conj	13736 Jan 06 00:17	26° る 58'51	
morning rise	13735 Feb 02 04:27	11°≈05'52		minimum elong	13736 Jan 06 08:17	26°る46'00	2 12 28
direct	13735 Feb 04 05:19	10°≈51'56		morning rise	13736 Jan 14 12:37	22°る52'18	
asc. node	13735 Feb 07 11:51	11°≈29'52	10020140	direct	13736 Jan 16 19:33	22° る 37'42	
morning max el	13735 Feb 12 11:36	14°≈55'51	18°30'49	asc. node	13736 Jan 25 09:12	26° る 19'18	10025100
•	13735 Feb 22 20:39	0°) €		morning max el	13736 Jan 26 10:09	27° る 16'34	19~25'00
morning set	13735 Feb 28 09:50	10° ¥ 25′27			13736 Jan 28 22:11	0°≈ 24052120	
		270 1/25/54	0022111	morning set	13736 Feb 12 11:57 13736 Feb 15 01:04	24°≈53'20 0° 米	
					14/46 HAB 15 (11:0/	11" 11	
superior conj	13735 Mar 09 10:31	27°) ₹35'54			13/30100 13 01.04	0 /	
superior conj minimum elong	13735 Mar 09 12:06	27°) 43′14					0051140
				superior conj minimum elong	13736 Feb 20 14:24 13736 Feb 20 17:03	11° 米 01'53 11° 米 14'49	

minimum elong	13738 Jan 18 09:10	9° ≈ 31'37	1°28'46		13738 Dec 22 09:33	8°0	
max. Earth dist.	13738 Jan 22 01:44	17°≈13'27	1.34072 AU	morning set	13738 Dec 26 18:12	9° る 03'59	
evening rise	13738 Jan 26 11:53	26°≈02'41	1.54072 AO	morning set	13/36 Dec 20 16.12) 00337	
evening rise	13738 Jan 28 13:35	0° H		superior conj	13739 Jan 02 13:52	23° る 56'15	1°36'09
desc. node	13738 Jan 30 21:24	4° ₩ 18'25		minimum elong	13739 Jan 02 14:44	24°る01'02	1°37'06
dese. node	13738 Feb 15 17:41	0°Υ		max. Earth dist.	13739 Jan 04 23:47	29° る 09'38	1.32631 AU
evening max el	13738 Mar 02 09:01	17° Y 50'39	27°01'49		13739 Jan 05 09:11	0° ≈	
retrograde	13738 Mar 15 18:03	25° Y 18′05		evening rise	13739 Jan 10 02:26	9° ≈ 49'24	
evening set	13738 Mar 22 07:44	22° Y 45'52		desc. node	13739 Jan 17 18:05	24° ≈ 25′10	
min. Earth dist.	13738 Mar 26 06:25	18° Ƴ 56'31	0.65617 AU		13739 Jan 20 22:46	0° ∀	
asc. node	13738 Mar 27 00:34	18° Ƴ 05'19			13739 Feb 11 17:30	0° Y	
inferior conj	13738 Mar 28 11:22	16° Y 25′25	0°27'34	evening max el	13739 Feb 12 21:41	1° Y 09'15	27°30'37
minimum elong	13738 Mar 28 10:38	16° Ƴ 27'32	0°27'05	retrograde	13739 Feb 26 15:41	8° Y 36'27	
morning rise	13738 Apr 03 15:03	10° Y 52'13		evening set	13739 Mar 05 11:33	6° Y 09'46	
direct	13738 Apr 06 10:17	10° Ƴ 09'46		min. Earth dist.	13739 Mar 09 06:43		0.63801 AU
morning max el	13738 Apr 12 18:39	13° Y 29'00	18°04'14	inferior conj	13739 Mar 11 22:55	0° Y 04'58	
	13738 Apr 24 16:36	9° 8		minimum elong	13739 Mar 12 00:07	0° Y 01'51	0°37'36
desc. node	13738 Apr 28 23:46	6° 8 56'31			13739 Mar 12 00:50	30° ₹ ₩	
morning set	13738 May 01 06:38	10° 8 39'29		asc. node	13739 Mar 13 22:03	28° ∺ 06′50	
	13738 May 13 07:37	Π °0		morning rise	13739 Mar 18 14:58	24°) 46′15	
				direct	13739 Mar 21 01:48	24° ¥ 16′25	
superior conj	13738 May 16 01:06	4° ∏ 18'11		morning max el	13739 Mar 27 12:09		17°47'52
minimum elong	13738 May 15 16:06	3° ∏ 42'47			13739 Mar 29 17:01	0°Υ	
max. Earth dist.	13738 May 18 18:45	8° Ⅱ 35'35	1.45738 AU	morning set	13739 Apr 13 03:46	22° Y 43'08	
evening rise	13738 Jun 01 03:38	29° Ⅱ 20'34		desc. node	13739 Apr 15 20:22	27° Y 17'32	
	13738 Jun 01 13:51	0.00	0.5		13739 Apr 17 10:49	0°B	
greatest brilliancy	13738 Jun 13 21:29	18°947'45	-0.7m		12720 4 26 02 05	140017120	1014102
1-	13738 Jun 21 21:43	0°Ω 1°Ω15'29		superior conj	13739 Apr 26 02:05	14° 8 17'30 13° 8 47'27	
asc. node	13738 Jun 22 22:11	4°Ω20'18	10924/04	minimum elong max. Earth dist.	13739 Apr 25 18:41	23° 8 05'04	1°13'45 1.44960 AU
evening max el	13738 Jun 25 16:53 13738 Jul 02 19:27	8°Ω18'46	19°24'04	max. Earth dist.	13739 May 01 13:44	23° O 03'04 0° I	1.44960 AU
retrograde evening set	13738 Jul 02 19.27 13738 Jul 06 10:40	7° Ω 01'59		evening rise	13739 May 05 23:22 13739 May 11 14:59	8° П 43'39	
inferior conj	13738 Jul 11 20:03	1° Ω 09'52	3°06'07	evening rise	13739 May 11 14:39 13739 May 25 19:53	0° 9	
minimum elong	13738 Jul 11 21:05	1°Ω06'26	3°05'04	evening max el	13739 Jun 08 19:33	18° © 09'52	20°23'30
minimum ciong	13738 Jul 12 17:15	30°R95	3 03 04	asc. node	13739 Jun 09 19:12	19°906'53	20 23 30
min. Earth dist.	13738 Jul 13 04:04	29°524'40	0.67196 AU	retrograde	13739 Jun 16 18:18	22°5643'37	
morning rise	13738 Jul 17 06:58	24°5945'28		evening set	13739 Jun 20 19:31	21°509'48	
direct	13738 Jul 23 07:03	22°908'26		inferior conj	13739 Jun 26 01:56	15° © 05'17	3°12'05
desc. node	13738 Jul 25 23:12	22°535'03		minimum elong	13739 Jun 26 01:58	15° © 05'13	3°11'03
morning max el	13738 Aug 04 16:03	29° © 33'08	25°38'39	min. Earth dist.	13739 Jun 26 19:54	14° © 03'44	0.68251 AU
	13738 Aug 05 02:33	$0^{\circ}\Omega$		morning rise	13739 Jul 01 08:06	8°5544'02	
	13738 Aug 27 10:30	0° m		direct	13739 Jul 06 20:43	6° © 17'56	
morning set	13738 Sep 09 15:30	22°M/20'21		desc. node	13739 Jul 12 20:31	8° 5 31'04	
max. Earth dist.	13738 Sep 13 06:58	29°Mp06'19	1.35851 AU	morning max el	13739 Jul 18 02:15	13° © 01'27	24°12'50
	13738 Sep 13 18:16	0。 ⊽			13739 Jul 31 19:19	0 $^{\circ}\Omega$	
asc. node	13738 Sep 18 23:37	10° ≏ 12'53			13739 Aug 20 06:01	0° ™	
				morning set	13739 Aug 22 13:35	3° m 57'03	
superior conj	13738 Sep 19 07:08	10° Ω 50'35	0°02'57	max. Earth dist.	13739 Aug 26 05:25	10° TD 22'43	1.38118 AU
minimum elong	13738 Sep 19 06:57	10° Ω 49'41	0°02'59				
behind sun begin	13738 Sep 19 00:49	10° Ω 18'52		superior conj	13739 Sep 02 11:51	23° m/49'53	
behind sun end	13738 Sep 19 13:05	11° Ω 20'33		minimum elong	13739 Sep 02 13:58	24° m 00'00	0°30'22
evening rise	13738 Sep 27 04:38	27° Ω 01'05		asc. node	13739 Sep 05 20:11	0° Ω 18'51	
	13738 Sep 28 15:41	0°M	20000111		13739 Sep 05 16:20	0° ⊽	
evening max el	13738 Oct 15 01:23	26°M28'49 0°⊀	20°08'11	evening rise	13739 Sep 11 06:07	11° £ 00'58 0° I L	
desc. node	13738 Oct 19 12:22 13738 Oct 21 19:20	0 x . 1° x 04'29		evening max el	13739 Sep 21 14:15 13739 Sep 27 17:55	8°M00'19	19°05'53
retrograde	13738 Oct 21 19.20 13738 Oct 25 16:05	1°×7'45'40		retrograde	13739 Sep 27 17:33 13739 Oct 06 17:24	12°M30'21	19 03 33
evening set	13738 Oct 23 16.03	1°×'43'40 1°×'34'46		evening set	13739 Oct 06 17.24 13739 Oct 08 14:06	12 IIL3021 12°M19'32	
evening set	13738 Nov 01 08:29	1 x·34 40 30°RM		desc. node	13739 Oct 08 14:06 13739 Oct 08 16:47	12 IL 1932 12°M 18'13	
inferior conj	13738 Nov 05 15:17	27°M37'09	-4°23'08	inferior conj	13739 Oct 08 10:47 13739 Oct 17 00:41	8°M05'58	-2°37'29
minimum elong	13738 Nov 05 15:17	27°IL57'09		minimum elong	13739 Oct 17 00:41 13739 Oct 16 18:00	8°M17'23	
min. Earth dist.	13738 Nov 07 08:24	26°M35'43	0.54880 AU	min. Earth dist.	13739 Oct 10 10:00 13739 Oct 19 19:52	6°M11'48	0.56148 AU
morning rise	13738 Nov 13 16:12	23°M30'20		morning rise	13739 Oct 24 19:09	3°M25'46	
direct	13738 Nov 18 09:51	22°M41'36		direct	13739 Oct 30 08:33	2°M13'59	
morning max el	13738 Dec 02 00:21	29°M23'31	24°08'58	morning max el	13739 Nov 13 11:08	9°M25'45	25°51'31
-	13738 Dec 02 15:29	0°⊀		-	13739 Nov 28 22:30	0° ∡ ¹	
asc. node	13738 Dec 16 00:45	18° ≯ 08'38		asc. node	13739 Dec 02 21:44	6° ₹ 759'43	

morning max el	13741 Oct 07 05:55	1° ≏ 18'22	27°52'09		13742 Oct 02 21:22	0∘ ⊽	
	13741 Oct 28 01:27	0° M ₊			13742 Oct 20 13:25	0° ™	
asc. node	13741 Nov 05 15:23	15°M58'03		morning set	13742 Oct 23 17:39	6°M₁9'33	
morning set	13741 Nov 08 19:14	22°M26'19		asc. node	13742 Oct 23 12:03	5°M51'06	
T d F d	13741 Nov 12 08:03	0° ∡¹ 5°. ∡¹ 2210€	1 21270 ATT	max. Earth dist.	13742 Oct 29 00:01	17°M23'34	1.31881 AU
max. Earth dist.	13741 Nov 14 20:24	5° ∡ '32'06	1.31278 AU		12742 0 4 21 07 24	220M 26102	1000127
	12741 N 15 22 41	70 7 50110	1024102	superior conj	13742 Oct 31 07:34	22°M26'03	1°08'27
superior conj	13741 Nov 15 22:41	7° 🗷 58'10		minimum elong	13742 Oct 31 05:17	22°M₁3'33 0°⊀	1°08'52
minimum elong evening rise	13741 Nov 15 20:45 13741 Nov 22 15:23	7° х ⁴47'22 22° х ⁴45'49	1°24'47		13742 Nov 03 18:02	0° x ' 7° x '17'48	
evening rise	13741 Nov 26 01:49	22 x ·4349		evening rise	13742 Nov 07 02:13 13742 Nov 18 18:17	7 x·1/48	
desc. node	13741 Nov 20 01.49 13741 Dec 08 08:46	0 0 22° る 05'34		desc. node	13742 Nov 18 18.17 13742 Nov 25 05:53	0 0 9° る 46'47	
desc. node	13741 Dec 08 08:40 13741 Dec 14 00:24	0°≈		evening max el	13742 Nov 23 03:33 13742 Dec 01 18:04	7 34047 17° る 15'34	24°00'45
evening max el	13741 Dec 14 00:24 13741 Dec 20 06:11		25°43'41	retrograde	13742 Dec 01 18:04 13742 Dec 15 09:10	24°る02'46	24 09 43
retrograde	13741 Dec 20 00:11 13742 Jan 03 03:53	13°≈57'28	25 45 41	evening set	13742 Dec 13 09:10 13742 Dec 20 09:10	24 00240 23°る08'06	
evening set	13742 Jan 09 05:27	12°≈32'07		min. Earth dist.	13742 Dec 26 05:31		0.55748 AU
min. Earth dist.	13742 Jan 13 18:50	9° ≈ 54'14	0.57456 AU	inferior conj	13742 Dec 28 08:34	18° る 55'26	
inferior conj	13742 Jan 16 17:26	7°≈52'09		minimum elong	13742 Dec 28 14:38	18° る 46'10	
minimum elong	13742 Jan 17 02:19	7°≈36'45		morning rise	13743 Jan 05 22:01	14° る 56'42	0 00 20
morning rise	13742 Jan 25 01:58	3°≈33'51	. 5010	direct	13743 Jan 08 09:54	14° る 40'35	
direct	13742 Jan 27 04:19	3°≈20'15		morning max el	13743 Jan 18 16:33	19° る 37'04	19°54'58
asc. node	13742 Feb 01 14:24	4° ≈ 57'28		asc. node	13743 Jan 19 11:42	20° る 24'55	
morning max el	13742 Feb 04 23:28	7° ≈ 37'44	18°51'06		13743 Jan 26 15:26	0° ≈	
C	13742 Feb 19 07:06	0° ∀		morning set	13743 Feb 05 11:46	18° ≈ 26'45	
morning set	13742 Feb 21 07:01	3° ¥ 53′09		C	13743 Feb 11 03:56	0° ∀	
superior conj	13742 Mar 01 21:22	20°) 34′48	0°36'09	superior conj	13743 Feb 13 06:55	4° ¥ 15'39	1°01'49
minimum elong	13742 Mar 01 23:35	20°) 45′14	0°36'05	minimum elong	13743 Feb 13 09:40	4° ¥ 29'17	1°01'59
desc. node	13742 Mar 06 09:54	28° ¥ 57'52		max. Earth dist.	13743 Feb 19 06:41	15° ¥ 50′19	1.37158 AU
	13742 Mar 06 23:38	0° Y		desc. node	13743 Feb 21 06:24	19°) 30′56	
max. Earth dist.	13742 Mar 09 00:26	3° Ƴ 37'46	1.39402 AU	evening rise	13743 Feb 23 00:24	22°) 40′54	
evening rise	13742 Mar 12 22:13	10° Y 23'49			13743 Feb 27 04:58	0° Y	
	13742 Mar 25 04:12	0°8			13743 Mar 18 23:26	0°8	
evening max el	13742 Apr 16 22:44	29° 8 41'35	24°15'03	evening max el	13743 Mar 30 12:15	13° 8 34'14	25°30'51
	13742 Apr 17 06:13	0°II		retrograde	13743 Apr 11 19:39	20° 8 40'44	
retrograde	13742 Apr 28 06:39	6° Ⅱ 20'19		asc. node	13743 Apr 17 08:16	18° 8 33'04	
asc. node	13742 Apr 30 10:53	5° Ⅱ 59'17		evening set	13743 Apr 17 17:49	18° 8 13'35	
evening set	13742 May 03 17:27	4° Ⅱ 02'18		min. Earth dist.	13743 Apr 22 01:19	13° 8 30'29	0.67749 AU
· Patra	13742 May 07 08:59	30°₹ ႘	0.60566 ATT	inferior conj	13743 Apr 23 10:45	11° 8 43'01	
min. Earth dist.	13742 May 08 08:06		0.68566 AU	minimum elong	13743 Apr 23 08:40	11° 8 49'44	1°46'28
inferior conj	13742 May 09 05:03	27° 8 32'39		morning rise	13743 Apr 28 23:58	5° 8 51'17	
minimum elong morning rise	13742 May 09 02:57 13742 May 14 12:34	27° 8 39'46 21° 8 31'37	2 23 01	direct	13743 May 02 11:16 13743 May 09 08:24	4° 8 42'08 8° 8 26'42	19°04'37
direct	13742 May 14 12.34 13742 May 18 11:22	20° 8 02'40		morning max el desc. node	13743 May 20 08:35	22° 8 42'47	19 04 37
morning max el	13742 May 16 11:22 13742 May 26 02:56		20°04'08	greatest brilliancy	13743 May 22 10:28	25° 8 48'18	-0.7m
morning max cr	13742 May 31 01:59	0° П	20 04 00	greatest orimancy	13743 May 25 05:02	0°Ⅱ	-0.7111
desc. node	13742 Jun 02 11:45	3° Ⅱ 08'46		morning set	13743 Jun 01 19:31	11° Ⅱ 40'56	
dese. Hode	13742 Jun 20 19:04	0°95		morning sec	13743 Jun 13 14:34	0.2 11.2	
morning set	13742 Jun 22 14:40	2°9647'18		max. Earth dist.	13743 Jun 15 12:04		1.45477 AU
max. Earth dist.	13742 Jul 02 19:41		1.44363 AU				
				superior conj	13743 Jun 18 04:33	7° 5 011'29	-2°13'38
superior conj	13742 Jul 08 09:34	27° © 44'03	-2°03'53	minimum elong	13743 Jun 18 04:38	7° © 11'47	
minimum elong	13742 Jul 08 15:42	28° © 09'02	2°04'31	Č	13743 Jul 02 09:57	$0^{\circ}\Omega$	
_	13742 Jul 09 18:50	$0^{\circ}\Omega$		evening rise	13743 Jul 03 00:05	0° Ω 57'39	
evening rise	13742 Jul 21 12:45	19° Ω 45'42		asc. node	13743 Jul 14 06:46	19° Ω 07'21	
asc. node	13742 Jul 27 10:02	29° Ω 48'52		evening max el	13743 Jul 22 12:48	0° mg 00'27	18°21'55
	13742 Jul 27 12:41	0° m			13743 Jul 22 12:37	0° ™	
evening max el	13742 Aug 07 22:51	16° Mp 26'02	18°04'36	retrograde	13743 Jul 28 22:15	3°M 25'13	
retrograde	13742 Aug 14 08:44	19° m 46'32		evening set	13743 Jul 31 23:11	2° m 34'08	
evening set	13742 Aug 17 01:00	19° m 10'09			13743 Aug 04 04:13	30° R Ω	
inferior conj	13742 Aug 23 08:41	13° m 57'07	1°43'19	inferior conj	13743 Aug 06 19:25	27° Ω 04'36	
minimum elong	13742 Aug 23 11:05	13° m 50'47	1°42'11	minimum elong	13743 Aug 06 21:45	26° Ω 57'45	
min. Earth dist.	13742 Aug 26 04:41	10° m 58'35	0.62553 AU	min. Earth dist.	13743 Aug 09 02:11		0.64643 AU
desc. node	13742 Aug 29 09:23	8° m 05'34		morning rise	13743 Aug 12 18:58	20° Ω 44'12	
morning rise	13742 Aug 29 18:55	7° m 47'44		desc. node	13743 Aug 16 06:54	18° Ω 39'52	
direct	13742 Sep 05 11:13	5° m 21'43		direct	13743 Aug 19 08:17	18° Ω 06'30	
morning max el	13742 Sep 19 12:59	13° m 23'01	27°55'24	morning max el	13743 Sep 01 23:12	26° Ω 04'15	27°23'06

	13743 Sep 05 14:25	0° m)		direct	13744 Aug 01 12:35	1° Ω 31'33	
	13743 Sep 26 11:13	0∘ ⊽		desc. node	13744 Aug 02 04:20	1° Ω 33′09	
morning set	13743 Oct 07 07:07	19° ≏ 44'59		morning max el	13744 Aug 14 10:23	9° Ω 12'04	26°22'36
asc. node	13743 Oct 10 08:40	25° ≏ 52'28			13744 Aug 30 18:57	0° m y	
max. Earth dist.	13743 Oct 11 19:55	28° ₽ 53′23	1.33029 AU		13744 Sep 17 22:58	0∘ ত	
	13743 Oct 12 08:45	0° M .		morning set	13744 Sep 19 08:30	2° ♀ 35'44	
				max. Earth dist.	13744 Sep 23 06:06	10° ≏ 04'11	1.34698 AU
superior conj	13743 Oct 15 12:04	6° M 37′28	0°47'10	asc. node	13744 Sep 26 05:15	15° ≏ 58'26	
minimum elong	13743 Oct 15 10:00	6°M26'28	0°47'20		1		
evening rise	13743 Oct 22 13:07	21°ML47'26		superior conj	13744 Sep 28 09:46	20° ≏ 26'34	0°20'30
e vennig nige	13743 Oct 26 11:42	0° √		minimum elong	13744 Sep 28 08:40	20° ₽ 20'51	0°20'32
desc. node	13743 Nov 12 03:07	26° × 711'18		minimum ciong	13744 Oct 02 23:38	0°M	0 20 32
evening max el	13743 Nov 12 03:07		22°27'24	evening rise	13744 Oct 02 23:38 13744 Oct 05 22:12	6° M ₊10'14	
evening max er			22 21 24	evening rise			
	13743 Nov 16 08:51	0°る			13744 Oct 18 20:15	0° ⊼ ¹ 70. 7 1000 4	20052120
retrograde	13743 Nov 26 01:34	3°₹38'35		evening max el	13744 Oct 24 23:00	7° ⋌ ³33'34	20°53'39
evening set	13743 Nov 29 16:44	3°る09'41		desc. node	13744 Oct 29 00:28	10° ₹ 53'36	
	13743 Dec 06 21:18	30°Ŗ ⋌ ¹		retrograde	13744 Nov 05 12:05	13° ∡ 17'55	
min. Earth dist.	13743 Dec 07 12:01	29° ∡ ³39′25	0.54705 AU	evening set	13744 Nov 07 22:55	13° ∡ ′03'31	
inferior conj	13743 Dec 08 06:22	29° х 13′35	-5°56'04	inferior conj	13744 Nov 16 21:37	9° ∡ ′09'48	-5°12'02
minimum elong	13743 Dec 08 04:11	29° ∡ 16'40	5°54'56	minimum elong	13744 Nov 16 12:19	9° ∡ ¹23'02	5°09'07
morning rise	13743 Dec 16 16:50	25° ∡ ¹26′08		min. Earth dist.	13744 Nov 17 17:59	8° ∡ ¹40'48	0.54542 AU
direct	13743 Dec 19 23:23	25° ∡ '01'53		morning rise	13744 Nov 25 01:58	5° ∡ 16′23	
	13743 Dec 31 01:09	0°ಕ		direct	13744 Nov 29 06:58	4° ∡ ³38'27	
morning max el	13743 Dec 31 19:01	0° る 41'12	21°21'43	morning max el	13744 Dec 12 09:11	10° ∡ 58'34	23°06'10
asc. node	13744 Jan 06 08:55	7° る 09'42		asc. node	13744 Dec 23 06:04	24° ∡ ¹54'37	
	13744 Jan 19 08:21	0° ≈			13744 Dec 26 06:25	0°ਰ	
morning set	13744 Jan 20 20:59	3° ≈ 09'55		morning set	13745 Jan 04 08:28	17° る 55'52	
morning set	13/44 Juli 20 20.37	3 70.0733		morning set	13745 Jan 09 22:42	0°≈	
superior conj	13744 Jan 28 03:05	18° ≈ 24'34	1°20'26		13/43 3411 07 22.42	0 ∼	
minimum elong	13744 Jan 28 05:27	18°≈36'51	1°20'57	gumarian aani	12745 Ion 11 06:29	2° ≈ 52'04	1922116
_				superior conj	13745 Jan 11 06:38		
max. Earth dist.	13744 Feb 01 17:17	27° ≈ 44'53	1.35104 AU	minimum elong	13745 Jan 11 08:07		1°33'06
	13744 Feb 02 20:42	0° \		max. Earth dist.	13745 Jan 14 11:05	9° ≈ 37'48	1.33402 AU
evening rise	13744 Feb 05 19:27	5°) 39′59		evening rise	13745 Jan 19 03:48	19° ≈ 11'26	
desc. node	13744 Feb 08 02:58	9° ¥ 57'42		desc. node	13745 Jan 24 23:36	0° ¥ 13'17	
	13744 Feb 19 23:54	0° Y			13745 Jan 24 20:40	0° ∀	
evening max el	13744 Mar 12 02:06	27° Y 22'02	26°34'05		13745 Feb 13 02:37	0 ° Υ	
	13744 Mar 15 00:03	9° 8		evening max el	13745 Feb 22 15:31	10° Ƴ 54'18	27°17'23
retrograde	13744 Mar 25 03:14	4° 8 44'16		retrograde	13745 Mar 08 04:39	18° Ƴ 22'04	
evening set	13744 Mar 31 11:54	2° 8 12'24		evening set	13745 Mar 14 21:37	15° Ƴ 51'14	
	13744 Apr 02 20:15	30° ŖƳ		min. Earth dist.	13745 Mar 18 18:34	12° Y 15′26	0.64888 AU
asc. node	13744 Apr 03 05:42	29° Ƴ 34'35		inferior conj	13745 Mar 21 04:32	9° Y ′36'47	0°01'06
min. Earth dist.	13744 Apr 04 13:33	28° Y ′04'00	0.66510 AU	minimum elong	13745 Mar 21 04:30	9° Y '36'53	0°01'02
inferior conj	13744 Apr 06 11:24	25° Y ′46'36	1°00'10	transit middle	13745 Mar 21 04:30	9° Y ′36'53	0°01'02
minimum elong	13744 Apr 06 09:57	25° Y ′50′58	0°59'17	transit begin	13745 Mar 21 01:28	9° Υ 45'15	
morning rise	13744 Apr 12 09:02	20° Υ '05'57	0 27 17	transit end	13745 Mar 21 07:33	9° Υ 28'32	
direct	13744 Apr 15 09:52	19° Υ 14'29		asc. node	13745 Mar 21 03:10	9° Υ '40'32	
morning max el	13744 Apr 21 20:28	22° Υ '39'09	18°21'27	morning rise	13745 Mar 27 13:12	4° Υ '09'33	
morning max er	-	0° 8	10 21 27	direct	13745 Mar 30 04:47	3° Υ 32'48	
1 1-	13744 Apr 27 20:44					5 1 32 48 6° Υ 49'50	17055111
desc. node	13744 May 06 05:18	12° 8 40'12		morning max el	13745 Apr 05 12:51		1/-35/11
morning set	13744 May 11 21:13	21° 8 38'53			13745 Apr 21 07:56	0°8	
	13744 May 17 03:43	Π °0		morning set	13745 Apr 23 03:05	2° 8 58'44	
		_		desc. node	13745 Apr 23 01:56	2° 8 53'55	
superior conj	13744 May 27 12:40	16° Ⅱ 16'50					
minimum elong	13744 May 27 05:30	15° Ⅱ 48'52	2°04'00	superior conj	13745 May 07 03:11	25° 8 45'21	-1°35'18
max. Earth dist.	13744 May 28 08:01	17° Ⅱ 32′23	1.45865 AU	minimum elong	13745 May 06 18:16	25° 8 09'52	1°35'10
	13744 Jun 05 07:40	0 \circ \odot			13745 May 09 19:32	$\Pi^{\circ}0$	
evening rise	13744 Jun 12 10:59	11° © 10'03		max. Earth dist.	13745 May 11 04:14	2° Ⅲ 08'39	1.45497 AU
greatest brilliancy	13744 Jun 22 09:38	26°9540'31	-0.8m	evening rise	13745 May 23 03:02	20° Ⅱ 40′15	
	13744 Jun 24 14:04	$0^{\circ}\Omega$		-	13745 May 29 05:46	0∘ ©	
asc. node	13744 Jun 30 03:38	7° Ω 59'52		greatest brilliancy	13745 Jun 06 12:14	12° 5 21'04	-0.6m
evening max el	13744 Jul 04 23:47	13° Ω 44'50	18°56'36	asc. node	13745 Jun 17 00:37	26°9516'38	
retrograde	13744 Jul 11 17:39	17° Ω 27'16		evening max el	13745 Jun 18 05:42	27° © 32'54	19°47'35
evening set	13744 Jul 11 17.39 13744 Jul 15 03:34	16° Ω 19'56		Svening max ci	13745 Jun 21 01:39	27 3 32 34 0° Ω	17 7133
•			2056140	ratragrada			
inferior conj	13744 Jul 20 15:57	10° Ω 35'28	2°56'48	retrograde	13745 Jun 25 16:00	1° Ω 45'20	
minimum elong	13744 Jul 20 17:33	10° Ω 30′22	2°55'42	evening set	13745 Jun 29 11:26	0° Ω 21'07	
min. Earth dist.	13744 Jul 22 08:11	8° Ω 27'57	0.66390 AU		13745 Jun 29 22:16	30° ₹ 55	*****
morning rise	13744 Jul 26 06:49	4° Ω 11'09		inferior conj	13745 Jul 04 19:12	24° © 23'17	3°10'08

	12745 1-1 04 10-40	24° © 21'14	2000107		12746 I 12 20.20	1.49@22120	
minimum elong	13745 Jul 04 19:48			evening set	13746 Jun 13 20:39	14°932'39	2011105
min. Earth dist.	13745 Jul 05 21:04	22°556'28	0.67703 AU	inferior conj	13746 Jun 19 02:36	8°923'00	3°11'05
morning rise	13745 Jul 10 03:47	17°959'50		minimum elong	13746 Jun 19 02:12	8°9524'23	3°10'01
direct	13745 Jul 15 23:03	15° © 26'57		min. Earth dist.	13746 Jun 19 14:45	7° © 40'53	0.68555 AU
desc. node	13745 Jul 20 01:41	16° © 29'48		morning rise	13746 Jun 24 07:30	2° © 03'37	
morning max el	13745 Jul 27 21:08	22° © 35'39	25°03'12		13746 Jun 27 18:45	30°RⅡ	
	13745 Aug 03 09:23	0 ° Ω		direct	13746 Jun 29 14:44	29° Ⅱ 44'07	
	13745 Aug 24 02:12	0° m)			13746 Jul 01 12:45	0 \circ	
morning set	13745 Sep 01 17:54	14° M 42'52		desc. node	13746 Jul 06 22:57	3°503'09	
max. Earth dist.	13745 Sep 05 07:41	21° Mp 11'40	1.36788 AU	morning max el	13746 Jul 10 07:37	6° ॐ 07'32	23°34'32
	13745 Sep 09 23:22	0∘ ⊽			13746 Jul 28 19:45	$0^{\circ}\Omega$	
				morning set	13746 Aug 14 06:38	25° Ω 54'25	
superior conj	13745 Sep 11 21:43	3° ≏ 46'21	-0°10'54		13746 Aug 16 16:15	0° m y	
minimum elong	13745 Sep 11 22:25	3° ≏ 49'47	0°10'48	max. Earth dist.	13746 Aug 18 05:22	2° m 40'59	1.39120 AU
behind sun begin	13745 Sep 11 17:33	3° £ 25'50					
behind sun end	13745 Sep 12 03:17	4° ₽ 13'47		superior conj	13746 Aug 25 20:08	16° My 27′21	-0°45'29
asc. node	13745 Sep 13 01:50	6° ഫ 05'30		minimum elong	13746 Aug 25 23:26	16° m 42'45	0°45'15
evening rise	13745 Sep 20 03:15	20° ჲ 20'38		asc. node	13746 Aug 30 22:25	26° m 09'27	
	13745 Sep 25 00:28	0° M			13746 Sep 01 21:57	0∘ ত	
evening max el	13745 Oct 07 07:25	18° M 36'11	19°38'55	evening rise	13746 Sep 04 01:26	4° ₽ 10'36	
desc. node	13745 Oct 15 21:53	23°M28'08			13746 Sep 19 18:26	0° M .	
retrograde	13745 Oct 17 05:10	23°M33'05		evening max el	13746 Sep 20 05:15	0° M 27'41	18°46'06
evening set	13745 Oct 19 02:44	23°M22'59		retrograde	13746 Sep 28 14:24	4°M40'35	
inferior conj	13745 Oct 27 21:08	19° ™ 19'18	-3°40'08	evening set	13746 Sep 30 12:00	4°M28'23	
minimum elong	13745 Oct 27 12:01	19° ™ 33'39	3°36'17	desc. node	13746 Oct 02 19:23	3°M43'15	
min. Earth dist.	13745 Oct 30 02:57	17° M 54'43	0.55316 AU	inferior conj	13746 Oct 08 15:23	0°ML06'34	-1°51'11
morning rise	13745 Nov 04 19:29	14°M59'24	***************************************	minimum elong	13746 Oct 08 10:46	0° M .14'58	
direct	13745 Nov 09 21:41	14° M 01'48		8	13746 Oct 08 18:58	30°R <u>Ω</u>	- 1000
morning max el	13745 Nov 23 18:58	20°M57'28	24°54'41	min. Earth dist.	13746 Oct 11 17:13	27° ₽ 52'31	0.56889 AU
morning man vi	13745 Dec 01 14:04	0° ₹	2.0	morning rise	13746 Oct 16 06:14	25° ₽ 09'49	0.0000 110
asc. node	13745 Dec 10 03:06	13° × ⁷ 25'07		direct	13746 Oct 22 02:38	23° Ω 46'40	
use. Houe	13745 Dec 18 14:29	0° る		uncer	13746 Nov 04 01:58	0°M	
morning set	13745 Dec 19 20:22	0 C 2°る39'19		morning max el	13746 Nov 05 08:16	1°ML10'20	26°28'43
morning set	13743 Dec 17 20.22	2 37 17		morning max er	13746 Nov 25 16:07	0° √	20 20 43
superior conj	13745 Dec 26 15:01	17° る 30'48	1°37'41	asc. node	13746 Nov 27 00:03	2° ∡ ¹28'58	
minimum elong	13745 Dec 26 15:25	17 3 3048	1°38'42	morning set	13746 Dec 04 06:53	17° х 14'36	
max. Earth dist.	13745 Dec 28 12:14	17 3 3304 21° る 38'22	1.32154 AU	morning set	13746 Dec 10 02:02	0°る	
max. Earm dist.			1.32134 AU		13/40 Dec 10 02.02	0.0	
	13746 Jan 01 10:05	0°≈ 20~ -07/2.4			1274CD 11 01 50	2° る 13'24	1027100
evening rise	13746 Jan 02 22:18	3°≈07'34		superior conj	13746 Dec 11 01:58		
desc. node	13746 Jan 11 20:21	20°≈12'21 0°) €		minimum elong max. Earth dist.	13746 Dec 11 01:18	2°る09'44	1°38'02 1.31405 AU
	13746 Jan 17 15:45		27022152		13746 Dec 11 18:32	3° 3 45'46	1.31405 AU
evening max el	13746 Feb 05 02:58	23°) € 59'24	2/°33'52	evening rise	13746 Dec 18 00:08	17° る 20'47	
	13746 Feb 13 07:27	0°γ			13746 Dec 24 07:15	0° ≈	
retrograde	13746 Feb 18 23:10	1° Υ 24'49		desc. node	13746 Dec 29 17:11	9° ≈ 47'09	
	13746 Feb 24 06:48	30° ₹			13747 Jan 12 12:07	0°) {	25210102
evening set	13746 Feb 25 20:31	29°) €02'20	0.60040.477	evening max el	13747 Jan 18 10:11	6° ¥ 24'43	2/018/02
min. Earth dist.	13746 Mar 01 14:42	25°) 54'49	0.62948 AU	retrograde	13747 Feb 01 09:27	13°) (42′11	
inferior conj	13746 Mar 04 11:16	23°\(\)06'36		evening set	13747 Feb 08 05:29	11°) €36′27	0.60700 444
minimum elong	13746 Mar 04 13:34	23°) €00'56	1°08'15	min. Earth dist.	13747 Feb 12 00:44	8°) 49′50	0.60799 AU
asc. node	13746 Mar 08 00:38	19°) ₹53'05		inferior conj	13747 Feb 15 04:09	6°) €06'49	
morning rise	13746 Mar 11 09:14	17° ¥ 55'18		minimum elong	13747 Feb 15 09:31	5° ¥ 55'09	2°27'07
direct	13746 Mar 13 17:02	17°) €29'47		morning rise	13747 Feb 22 16:42	1°) 14'14	
morning max el	13746 Mar 20 06:40	20°) € 50'36	17°46'17	asc. node	13747 Feb 22 22:05	1°) 10′38	
	13746 Mar 27 05:47	0° Υ		direct	13747 Feb 24 19:02	0° ¥ 56'12	
morning set	13746 Apr 05 10:15	15° Y 30'42		morning max el	13747 Mar 03 22:30	4°) 31′18	17°55'39
desc. node	13746 Apr 09 22:31	23° Y 19'10		morning set	13747 Mar 19 12:37	28° ¥ 56′11	
	13746 Apr 13 20:39	0°8			13747 Mar 20 02:36	0° Υ	
				desc. node	13747 Mar 27 19:03	13° Y 51'33	
superior conj	13746 Apr 17 13:50	6° 8 12'16					
minimum elong	13746 Apr 17 08:09	5° 8 48'44		superior conj	13747 Mar 30 00:37	17° Y 46′13	
max. Earth dist.	13746 Apr 23 22:00	16° 8 30'15	1.44427 AU	minimum elong	13747 Mar 29 23:03	17° Ƴ 39'25	0°17'37
evening rise		00TO(145			13747 Apr 06 05:57	0° 8	
evening rise	13746 May 02 14:28	0° Ⅱ 06'45			=		
evening rise	13746 May 02 12:42	$\Pi^{\circ}0$		max. Earth dist.	13747 Apr 06 11:42	0° 8 23'43	1.42764 AU
evening rise	13746 May 02 12:42 13746 May 22 22:26	0°© ∏°0		max. Earth dist. evening rise	13747 Apr 06 11:42 13747 Apr 12 12:46	10° 8 08'16	1.42764 AU
evening max el	13746 May 02 12:42	$\Pi^{\circ}0$	20°52'39		=	10° 8 08'16 0° Ⅱ	
· ·	13746 May 02 12:42 13746 May 22 22:26	0°© ∏°0	20°52'39		13747 Apr 12 12:46	10° 8 08'16 0°Ⅲ 25°Ⅲ12'00	
evening max el	13746 May 02 12:42 13746 May 22 22:26 13746 Jun 01 05:43	0°Ⅱ 0°໑ 11°໑21'45	20°52'39	evening rise	13747 Apr 12 12:46 13747 Apr 25 14:52	10° 8 08'16 0° Ⅱ	

						_	
asc. node	13747 May 21 18:49	0° © 12'50			13748 Apr 18 18:17	Π °0	
retrograde	13747 May 24 12:50	0°947'18		evening max el	13748 Apr 26 15:43	9° Ⅱ 03'48	23°28'49
	13747 May 27 13:10	30°RⅡ		retrograde	13748 May 07 08:02	15° Ⅱ 20'44	
evening set	13747 May 29 05:26	28° Ⅱ 50′34		asc. node	13748 May 07 16:04	15° Ⅲ 20′13	
inferior conj	13747 Jun 03 12:01	22° Ⅲ 31′08	3°01'04	evening set	13748 May 12 12:11	13° Ⅱ 09'45	
minimum elong	13747 Jun 03 10:45	22° Ⅱ 35'34	2°59'52	inferior conj	13748 May 17 21:28	6° Ⅱ 43'03	2°40'43
min. Earth dist.	13747 Jun 03 11:04	22° Ⅱ 34'26	0.68932 AU	minimum elong	13748 May 17 19:34	6° Ⅱ 49'35	2°39'24
morning rise	13747 Jun 08 15:52	16° Ⅱ 17'50		min. Earth dist.	13748 May 17 07:45	7° Ⅱ 30'11	0.68836 AU
direct	13747 Jun 13 10:26	14° Ⅱ 16′22		morning rise	13748 May 23 02:53	0°Ⅱ37′20	
morning max el	13747 Jun 22 20:10	19° Ⅱ 47'19	22°06'01		13748 May 23 23:40	30° ₹ 8	
desc. node	13747 Jun 23 20:06	20° Ⅱ 49′02		direct	13748 May 27 08:51	28° 8 56'16	
	13747 Jul 01 10:45	0 \circ \odot			13748 May 31 00:19	$\Pi^{\circ}0$	
	13747 Jul 21 23:50	$0^{\circ}\Omega$		morning max el	13748 Jun 04 14:00	3° Ⅲ 37′25	20°45'08
morning set	13747 Jul 25 18:54	6° Ω 01'34		desc. node	13748 Jun 09 17:07	9° Ⅱ 27'29	
max. Earth dist.	13747 Jul 31 05:56	14° Ω 58′08	1.41433 AU		13748 Jun 24 08:53	0 \circ \odot	
				morning set	13748 Jul 04 07:44	15° ഇ 08'07	
superior conj	13747 Aug 08 00:44	28° £ 20′22	-1°20'24	max. Earth dist.	13748 Jul 12 13:24	28° © 10'16	1.43447 AU
minimum elong	13747 Aug 08 06:48	28° Ω 47'11	1°20'11		13748 Jul 13 16:31	$0^{\circ}\Omega$	
•	13747 Aug 08 23:13	0° m					
asc. node	13747 Aug 17 19:01	16° Mp 06'58		superior conj	13748 Jul 19 07:14	9° Ω 15'21	-1°50'53
evening rise	13747 Aug 18 13:14	17° mp 31'35		minimum elong	13748 Jul 19 14:29	9° Ω 45'45	1°51'08
Č	13747 Aug 25 09:54	0∘ ত		evening rise	13748 Jul 31 10:08	0° Mp 11'46	
evening max el	13747 Sep 03 12:43	13° ഫ 01'03	18°14'30	8	13748 Jul 31 07:28	0° m)	
retrograde	13747 Sep 10 18:49	16° ≙ 42'10		asc. node	13748 Aug 03 15:37	5° m 53'18	
evening set	13747 Sep 12 22:31	16° ≙ 23'19		evening max el	13748 Aug 17 01:30	26° m) 05'05	18°02'44
desc. node	13747 Sep 19 16:53	12° £ 11'13		retrograde	13748 Aug 23 15:42	29° m) 29'02	
inferior conj	13747 Sep 20 07:27	11° ♀ 40'21	-0°11'24	evening set	13748 Aug 26 03:16	28° m 59'50	
minimum elong	13747 Sep 20 07:03	11° £ 41'13	0°11'08	inferior conj	13748 Sep 01 19:12	23° m 56'49	1°07'49
transit middle	13747 Sep 20 07:03	11° £ 41'13	0°11'08	minimum elong	13748 Sep 01 21:05	23° m/52'11	1°06'57
transit begin	13747 Sep 20 04:33	11° ≏ 46'32	0 11 00	min. Earth dist.	13748 Sep 04 21:04	20° m/56'22	0.61265 AU
transit end	13747 Sep 20 04:33	11° ⊆ 35'52		desc. node	13748 Sep 05 14:25	20° m/ 16'34	0.01203710
min. Earth dist.	13747 Sep 23 14:42	8° £ 52'35	0.58980 AU	morning rise	13748 Sep 08 12:11	17° mp 58'14	
morning rise	13747 Sep 23 14:42 13747 Sep 27 12:10	6° ⊆ 08'34	0.50700710	direct	13748 Sep 15 03:39	15° m) 43'33	
direct	13747 Oct 03 21:26	4° ₽ 18'02		morning max el	13748 Sep 29 08:51	23° m/40'17	27°58'14
morning max el	13747 Oct 03 21:20 13747 Oct 18 04:55	12° £ 01'40	27°32'30	morning max ci	13748 Oct 05 01:28	ე∘ <u>ফ</u>	27 36 14
morning max ci	13747 Nov 01 08:02	0°M	27 32 30		13748 Oct 24 15:16	0° m	
asc. node	13747 Nov 13 20:54	21°ML57'29		asc. node	13748 Oct 24 13:10 13748 Oct 30 17:39	11°M43'16	
asc. node	13747 Nov 13 20:34 13747 Nov 17 19:46	21 11 G 3729		morning set	13748 Nov 01 16:34	15°M42'59	
morning set	13747 Nov 17 19:40 13747 Nov 18 14:15	1° ∡ 737′26		max. Earth dist.	13748 Nov 07 09:32		1.31472 AU
morning set max. Earth dist.	13747 Nov 18 14.13 13747 Nov 25 02:53		1.31177 AU	max. Earth dist.	13748 Nov 07 09.32 13748 Nov 08 07:58	27 11€30 20 0° ⊼ ¹	1.31472 AU
max. Earm dist.	13/4/ NOV 23 02.33	13 8 34 30	1.311// AU		13/46 NOV 06 07.36	0 X	
superior conj	13747 Nov 25 13:34	16° ∡ 754′29	1°30'27	superior conj	13748 Nov 08 23:58	1° ∡ ¹28'36	1°18'08
minimum elong	13747 Nov 25 12:00	16° × 45'48	1°31'20	minimum elong	13748 Nov 08 23:50	1° x 16'44	1°18'44
minimum clong	13747 Nov 23 12:00 13747 Dec 01 11:28	0°중	1 31 20	evening rise	13748 Nov 15 16:59	16° × 16'28	1 10 44
evening rise	13747 Dec 01 11:28 13747 Dec 02 07:02	1°る45'33		evening rise	13748 Nov 22 09:27	0°る	
desc. node	13747 Dec 02 07:02 13747 Dec 16 14:07	28°る48'32		desc. node	13748 Dec 02 11:10	7°る04'00	
desc. Hode	13747 Dec 10 14:07 13747 Dec 17 08:02	28° ⊙ 48 32		evening max el	13748 Dec 02 11:10 13748 Dec 12 02:37	28°る44'32	25°05'56
evening max el	13747 Dec 17 08:02 13747 Dec 31 10:38	0 ~ 18° ≈ 00'35	26°27'23	evening max er	13748 Dec 12 02:37	0°≈	23 03 30
retrograde	13748 Jan 14 09:41	25°≈07'10	20 27 23	retrograde	13748 Dec 25 21:58	5° ≈ 39'46	
evening set	13748 Jan 20 20:44	23°≈25'44		evening set	13748 Dec 31 14:13	4°≈27'25	
min. Earth dist.	13748 Jan 25 00:18	20°≈48'56	0.58627 AU	min. Earth dist.	13749 Jan 05 14:35	1°≈44'53	0.56666 AU
inferior conj	13748 Jan 28 03:34	20 ≈48 30 18°≈27'40		inferior conj	13749 Jan 08 06:39	0°≈00'31	
minimum elong	13748 Jan 28 11:48	18°≈12'11		minimum elong	13749 Jan 08 15:05	0 ≈0031 29° ठ 46'45	
•			3 30 32	minimum clong			3 00 27
morning rise	13748 Feb 05 05:52	13°≈56'12			13749 Jan 08 06:58	30°Rる	
direct	13748 Feb 07 06:36	13°≈41'58		morning rise	13749 Jan 16 18:17	25° る 51'05	
asc. node	13748 Feb 09 19:31	14°≈05'19	10024142	direct	13749 Jan 18 23:46	25° る 36'52	
morning max el	13748 Feb 15 08:38	17° ≈ 41'19 0° 米	18°24'42	asc. node	13749 Jan 26 16:52 13749 Jan 28 04:59	28°る40'48 0°≈	
	13748 Feb 24 03:52						10015120
morning set	13748 Mar 02 04:27	12° ¥ 57'59		morning max el	13749 Jan 28 09:02	0°≈09'44	19°15'28
aumonia '	12740 14 11 00 04	000010100	0010115	morning set	13749 Feb 14 05:29	27°≈23'28	
superior conj	13748 Mar 11 09:04	0°Υ19'23	0°18'15		13749 Feb 15 12:53	0° ∺	
minimum elong	13748 Mar 11 10:21	0° Y 25'19	0°18'08		12740 E 1 22 12 12	1201/20150	0047155
1 1	13748 Mar 11 04:51	0°Υ 4° Ω 27'02		superior conj	13749 Feb 22 10:48	13° ¥ 39'50	0°47'55
desc. node	13748 Mar 13 15:32	4° Υ 27'02	1 40/02 433	minimum elong	13749 Feb 22 13:22	13° ¥ 52'17	0°47'54
max. Earth dist.	13748 Mar 18 21:13	13° Y 39'30	1.40692 AU	desc. node	13749 Feb 28 12:02	25°) €02'24	1 20425 477
evening rise	13748 Mar 23 06:37	21° Y 02'49		max. Earth dist.	13749 Mar 01 03:57	26°) 14'36	1.38437 AU
	13748 Mar 28 20:03	$_{0}$ 8			13749 Mar 03 06:21	0° Y	

	1271031 01 21 25	200051152			10550 F. I. 15 00 04	1.50\/.00100	
evening rise	13749 Mar 04 21:35	2° Y ′51′52		desc. node	13750 Feb 15 08:34	15°) 33′22	
	13749 Mar 21 23:43	0 \circ 8			13750 Feb 23 16:02	0° Y	
evening max el	13749 Apr 09 05:20	22° 8 56'51	24°48'17		13750 Mar 16 13:52	9° 8	
retrograde	13749 Apr 20 23:32	29° 8 48'19		evening max el	13750 Mar 22 18:45	6° 8 47'32	25°59'37
asc. node	13749 Apr 24 13:23	28° 8 52'42		retrograde	13750 Apr 04 10:26	14° 8 02'43	
evening set	13749 Apr 26 15:23	27° 8 25'45		evening set	13750 Apr 10 13:19	11° 8 32'35	
min. Earth dist.	13749 May 01 02:47	22° 8 22'30	0.68278 AU	asc. node	13750 Apr 11 10:47	10° 8 44'53	
inferior conj	13749 May 02 05:06	20° 8 55'18	2°10'08	min. Earth dist.	13750 Apr 14 18:04	7° 8 04'40	0.67272 AU
•	-	21° 8 02'28	2°08'47		-	5° 8 03'11	1°28'57
minimum elong	13749 May 02 02:56		2 0847	inferior conj	13750 Apr 16 08:54	_	
morning rise	13749 May 07 14:43	14° 8 58'18		minimum elong	13750 Apr 16 07:00	5° 8 09'09	1°27'47
direct	13749 May 11 08:34	13° 8 37'57			13750 Apr 21 00:42	30° ₹ Υ	
morning max el	13749 May 18 15:15	17° 8 39'23	19°36'58	morning rise	13750 Apr 22 01:24	29° Ƴ 16'11	
desc. node	13749 May 27 14:01	28° 8 44'30		direct	13750 Apr 25 08:02	28° Ƴ 15′03	
	13749 May 28 11:24	$\Pi^{\circ}0$			13750 Apr 29 20:39	0° 8	
greatest brilliancy	13749 May 31 07:11	4° Ⅱ 04'43	-0.6m	morning max el	13750 May 01 23:50	1° 8 49'41	18°44'15
morning set	13749 Jun 13 09:27	23° II 50'06		desc. node	13750 May 14 10:48	18° 8 29'20	
C	13749 Jun 17 09:23	0° ©			13750 May 21 21:33	$\Pi^{\circ}0$	
max. Earth dist.	13749 Jun 25 03:17	12° © 06'27	1.44928 AU	morning set	13750 May 23 21:16	3° I 106'01	
max. Lartii dist.	13/47 Juli 23 03.17	12 30027	1.44)20 110	max. Earth dist.	13750 Jun 07 21:16	26° Ⅱ 29'48	1.45728 AU
	12740 I 20 12.50	10061050	2010116	max. Earth dist.	13/30 Juli 0/ 21.10	20 112948	1.43726 AU
superior conj	13749 Jun 29 13:59	19°5010'50			12750 1 00 02 20	200 T 22150	2011140
minimum elong	13749 Jun 29 18:08	19° © 27'25	2°11'10	superior conj	13750 Jun 09 02:28	28° Ⅲ 23'58	
	13749 Jul 06 06:00	0 $^{\circ}\Omega$		minimum elong	13750 Jun 08 23:10	28° Ⅱ 11'01	2°12'46
evening rise	13749 Jul 13 11:06	11° Ω 59'26			13750 Jun 10 03:01	0	
asc. node	13749 Jul 21 12:18	25° Ω 23'54		evening rise	13750 Jun 24 11:58	22° © 45'47	
	13749 Jul 24 09:56	0° m)			13750 Jun 29 00:22	$0^{\circ}\Omega$	
evening max el	13749 Jul 31 15:54	9° Mp 30'46	18°09'41	greatest brilliancy	13750 Jun 30 21:35	3° Ω 00′29	-0.9m
retrograde	13749 Aug 07 00:30	12° m 51'38		asc. node	13750 Jul 08 09:05	14° Ω 32'50	
evening set	13749 Aug 09 20:24	12° m) 09'14		evening max el	13750 Jul 15 04:51	23° Ω 10'29	18°34'34
inferior conj	13749 Aug 15 22:44	6° Mp 48'38	2°05'00	retrograde	13750 Jul 21 17:02	26° Ω 41'35	10 3 1 3 1
	13749 Aug 16 01:13	6° Mp 41'44	2°03'48	•	13750 Jul 24 21:38	25°Ω43'54	
minimum elong	· ·			evening set			20.42140
min. Earth dist.	13749 Aug 18 13:17	3° m 56'08	0.63478 AU	inferior conj	13750 Jul 30 14:06	20° Ω 07'50	2°42'40
morning rise	13749 Aug 22 04:13	0° m ₂ 33'20		minimum elong	13750 Jul 30 16:11	20° Ω 01'29	2°41'30
	13749 Aug 22 22:40	30° ŖΩ		min. Earth dist.	13750 Aug 01 14:47	17° Ω 40'04	0.65429 AU
desc. node	13749 Aug 23 11:56	29° £ 38′31		morning rise	13750 Aug 05 09:39	13° Ω 44'44	
direct	13749 Aug 28 19:43	28° Ω 01′29		desc. node	13750 Aug 10 09:24	11° Ω 12'35	
	13749 Sep 04 05:58	o∘ m		direct	13750 Aug 11 20:07	11° Ω 04'58	
morning max el	13749 Sep 11 17:49	6° m 02'43	27°45'40	morning max el	13750 Aug 25 04:54	18° Ω 58'07	27°00'18
3	13749 Sep 29 23:39	0∘ <u>⊽</u>		. <i>&</i>	13750 Sep 03 13:31	0° m)	
morning set	13749 Oct 16 11:32	29° ≏ 25'23			13750 Sep 22 23:40	0° ت	
morning set				marning got	•		
,	13749 Oct 16 18:25	0°M,		morning set	13750 Sep 29 20:23	12° 2 38'17	1 22/75 111
asc. node	13749 Oct 17 14:17	1° M ₊40'33		max. Earth dist.	13750 Oct 04 02:22	21° ≏ 01'48	1.33675 AU
max. Earth dist.	13749 Oct 21 10:27	9° M ₊40'13	1.32304 AU	asc. node	13750 Oct 04 10:54	21° ≏ 45′01	
superior conj	13749 Oct 24 07:15	15°M50'05	1°00'06	superior conj	13750 Oct 08 09:14	29° ≏ 53'35	0°36'30
minimum elong	13749 Oct 24 04:59	15° M 37'47	1°00'24	minimum elong	13750 Oct 08 07:29	29° ≏ 44'20	0°36'35
	13749 Oct 30 19:08	0° ⊼			13750 Oct 08 10:27	0° M	
evening rise	13749 Oct 31 04:04	0° ∡ ¹48'10		evening rise	13750 Oct 15 14:30	15° M ₊16′09	
-	13749 Nov 16 02:58	0°రె		-	13750 Oct 22 22:35	0° ∡ ¹	
desc. node	13749 Nov 19 08:20	4°る15'37		evening max el	13750 Nov 05 01:20	18° ∡ 54′20	21°45'41
evening max el	13749 Nov 23 12:36	8° る 50'33	23°26'06	desc. node	13750 Nov 06 05:37	20° х 00′40	
retrograde	13749 Dec 06 21:37	15° る 29'47		retrograde	13750 Nov 17 10:47	25°×00'40	
•		13 3 2547		•		24° × 42'00	
evening set	13749 Dec 11 08:14		0.55202.411	evening set	13750 Nov 20 12:09		5044144
min. Earth dist.	13749 Dec 17 22:47	11° る 39'13	0.55202 AU	inferior conj	13750 Nov 29 06:55	20° ∡ 748'25	
inferior conj	13749 Dec 19 13:31	10° ろ 42'40		minimum elong	13750 Nov 29 01:01	20° ∡ 56'41	5°43'02
minimum elong	13749 Dec 19 16:34	10° る 38'14	5°52'35	min. Earth dist.	13750 Nov 29 05:00	20° ∡ ′51′07	0.54517 AU
morning rise	13749 Dec 28 02:34	6° る 50'46		morning rise	13750 Dec 07 14:47	17° ∡ °00'40	
direct	13749 Dec 30 21:25	6° ප 32'01		direct	13750 Dec 11 06:31	16° ∡ ³31′25	
morning max el	13750 Jan 10 20:05	11° පි 46'08	20°29'20	morning max el	13750 Dec 23 16:52	22° ∡ °29′15	22°04'34
asc. node	13750 Jan 13 14:10	14° る 43'27		-	13750 Dec 30 02:57	8°0	
	13750 Jan 23 10:27	0° ≈		asc. node	13750 Dec 31 11:23	1° る 56'05	
morning set	13750 Jan 29 12:26	12°≈02'10		morning set	13751 Jan 13 22:51	26°පි47'08	
morning set	15/50 Jan 27 12.20	12 ~02 10		morning set		20° ≈	
avmani ·	12750 E-L 07 01 00	2702411	1010124		13751 Jan 15 11:15	U ~~	
superior conj	13750 Feb 06 01:20	27°≈34'16	1°10'34		10001 X 01 01 01	110 7000	100611.5
minimum elong	13750 Feb 06 04:00	27°≈47'47	1°10'52	superior conj	13751 Jan 21 01:01	11°≈52'21	1°26'15
	13750 Feb 07 06:13	0° ∀		minimum elong	13751 Jan 21 03:03	12° ≈ 03'05	1°26'55
max. Earth dist.	13750 Feb 11 11:24	8° ¥ 16'45	1.36244 AU	max. Earth dist.	13751 Jan 25 00:28	20° ≈ 07'04	1.34327 AU
evening rise	13750 Feb 15 07:21	15° ∺ 27'46		evening rise	13751 Jan 29 08:30	28° ≈ 41'52	

desc. node	13751 Jan 30 00:49 13751 Feb 02 05:10 13751 Feb 16 20:52	0° ℋ 5° ℋ 56'01 0° Ƴ		superior conj minimum elong	13752 Jan 05 06:55 13752 Jan 05 07:58 13752 Jan 06 22:36	26°පි25'30 26°පි31'10 0°≈	1°35'18 1°36'15
evening max el retrograde	13751 Mar 05 08:27 13751 Mar 18 15:44	20° Y '29'37 27° Y '56'10	26°55'23	max. Earth dist.	13752 Jan 07 21:29 13752 Jan 12 21:33	2°≈02'34 12°≈25'09	1.32815 AU
evening set	13751 Mar 25 04:08	25°Υ23'55		desc. node	13752 Jan 20 01:52	26°≈05'37	
min. Earth dist.	13751 Mar 29 03:34	21° Υ 29'36	0.65858 AU	dese. Hode	13752 Jan 22 06:55	0° ∺	
asc. node	13751 Mar 29 08:15	21° Υ 16'16	0.00000110		13752 Feb 12 03:43	0° Υ	
inferior conj	13751 Mar 31 06:40	19° Ƴ 01'44	0°36'33	evening max el	13752 Feb 15 21:29	3° Y ′52'55	27°28'11
minimum elong	13751 Mar 31 05:43	19° Ƴ 04'31	0°35'57	retrograde	13752 Feb 29 14:23	11° Y ′20'17	
morning rise	13751 Apr 06 08:41	13° Y 26′27		evening set	13752 Mar 07 09:36	8° Y 52'26	
direct	13751 Apr 09 05:19	12° Y 41'48		min. Earth dist.	13752 Mar 11 05:12	5° Y 29'00	0.64090 AU
morning max el	13751 Apr 15 14:02	16° Ƴ 02'11	18°08'08	inferior conj	13752 Mar 13 19:49	2° Y ′44'55	
	13751 Apr 25 22:27	0° 8		minimum elong	13752 Mar 13 20:40	2° Y '42'42	0°27'02
desc. node	13751 May 01 07:30	8° 8 34'20		asc. node	13752 Mar 15 05:45	1° Υ 17'24	
morning set	13751 May 04 10:44	13° 8 38'06			13752 Mar 16 14:07	30° ₹ ₩	
	13751 May 14 16:00	Π $^{\circ}$ 0		morning rise	13752 Mar 20 09:52	27°) (23'47	
superior conj	13751 May 19 11:09	7° Ⅱ 33'41	1052117	direct	13752 Mar 22 21:54 13752 Mar 29 03:19	26° ¥ 52'13 0° Ƴ	
minimum elong	13751 May 19 11:09 13751 May 19 02:25	6° I I59'24		morning max el	13752 Mar 29 07:22	0° Υ 09'46	17°49'12
max. Earth dist.	13751 May 17 02:25	11° I I04'43	1.45793 AU	morning set	13752 Apr 15 04:09	25° Υ 31'34	17 47 12
max. Earth dist.	13751 Jun 02 21:13	0°9	1.13773110	desc. node	13752 Apr 17 04:07	28° Y '53'57	
evening rise	13751 Jun 04 13:28	2°935'50		desc. node	13752 Apr 17 19:49	0°8	
greatest brilliancy	13751 Jun 16 15:13	21° © 07'19	-0.7m		ī		
	13751 Jun 22 19:10	$0^{\circ}\Omega$		superior conj	13752 Apr 28 09:08	17° 8 24'31	-1°19'51
asc. node	13751 Jun 25 05:59	3° Ω 11'35		minimum elong	13752 Apr 28 01:13	16° 8 52'34	1°19'35
evening max el	13751 Jun 28 13:53	6° Ω 57'11	19°16'29	max. Earth dist.	13752 May 03 12:36	25° 8 37'18	1.45123 AU
retrograde	13751 Jul 05 13:56	10° Ω 51′01			13752 May 06 07:25	Π °0	
evening set	13751 Jul 09 03:46	9° Ω 36'44		evening rise	13752 May 14 01:34	11° Ⅱ 59'54	
inferior conj	13751 Jul 14 13:50	3° Ω 46'41	3°04'06		13752 May 26 00:28	0° ©	
minimum elong	13751 Jul 14 15:02	3° Ω 42'46	3°03'01	evening max el	13752 Jun 10 17:27	20°546'42	20°13'46
min. Earth dist.	13751 Jul 16 00:00 13751 Jul 17 13:11	1° Ω 55'24 30° 8 ©	0.67001 AU	asc. node	13752 Jun 11 03:00 13752 Jun 18 12:42	21°©10'16 25°©14'29	
morning rise	13751 Jul 20 01:42	30 k≊ 27°©22'12		retrograde evening set	13752 Jun 22 12:27	23°543'04	
direct	13751 Jul 26 03:24	24°544'10		inferior conj	13752 Jun 27 19:08	17° © 40'16	3°11'56
desc. node	13751 Jul 28 06:50	25° © 01'16		minimum elong	13752 Jun 27 19:18	17°539'40	3°10'53
acse. noue	13751 Aug 05 08:10	0° Ω		min. Earth dist.	13752 Jun 28 15:07	16°932'09	0.68127 AU
morning max el	13751 Aug 07 15:50		25°50'32	morning rise	13752 Jul 03 01:51	11° © 18'28	
C	13751 Aug 28 16:34	0° m)		direct	13752 Jul 08 16:15	8°950'27	
morning set	13751 Sep 12 15:30	25° m 12'05		desc. node	13752 Jul 14 04:08	10° © 42'35	
	13751 Sep 15 05:24	0∘ 亚		morning max el	13752 Jul 20 02:07	15° 5 40'32	24°26'02
max. Earth dist.	13751 Sep 16 08:08	2° ჲ 06'56	1.35542 AU		13752 Jul 31 21:12	$0^{\circ}\Omega$	
asc. node	13751 Sep 21 07:29	11° ≏ 52'11			13752 Aug 20 14:50	0° ™	
	10751 0 00 00 10	100 6 01100	0005142	morning set	13752 Aug 24 16:37	6° My 56'48	
superior conj	13751 Sep 22 03:13	13° £ 31'39	0°07'43	max. Earth dist.	13752 Aug 28 07:17	13° Mg 20'26	1.37772 AU
minimum elong	13751 Sep 22 02:45	13° Ω 29'20 13° Ω 01'57	0°07'46	aumorior coni	13752 Sep 04 09:54	26° m/36'29	0025117
behind sun begin behind sun end	13751 Sep 21 21:20 13751 Sep 22 08:10	13° ⊆ 56'47		superior conj minimum elong	13752 Sep 04 09:34 13752 Sep 04 11:37	26° Mp 44'46	
evening rise	13751 Sep 22 08:10 13751 Sep 29 22:09	29° ₽ 34'29		minimum clong	13752 Sep 04 11:57 13752 Sep 06 03:51	20 ი ე∘ ჲ	0 23 08
e vennig rise	13751 Sep 30 03:07	0°M		asc. node	13752 Sep 07 04:03	1° ≏ 58'36	
evening max el	13751 Oct 18 01:35	29°MJ30'17	20°19'16	evening rise	13752 Sep 13 00:39	13° ≏ 37'18	
Č	13751 Oct 18 13:48	0° ∡ 7		J	13752 Sep 21 17:21	0° M	
desc. node	13751 Oct 24 03:00	3° ₹ 751'48		evening max el	13752 Sep 29 16:03	10°M54'12	19°13'42
retrograde	13751 Oct 28 22:06	4° ∡ ¹54'07		retrograde	13752 Oct 08 21:01	15° ™ 30′59	
evening set	13751 Oct 31 01:18	4° ∡ ¹42'35		desc. node	13752 Oct 10 00:26	15°M26'59	
inferior conj	13751 Nov 08 23:58	0° ∡ ¹46'26		evening set	13752 Oct 10 17:41	15° ™ 20′29	
minimum elong	13751 Nov 08 13:52	1° ∡ 701'17	4°33'35	inferior conj	13752 Oct 19 06:32	11°M09'34	
	13751 Nov 10 07:31	30°RM	0.54767.411	minimum elong	13752 Oct 18 23:08	11°M21'55	
min. Earth dist.	13751 Nov 10 12:05	29°M53'19 26°M43'43	0.54767 AU	min. Earth dist.	13752 Oct 21 22:41	9°M22'51	0.55911 AU
morning rise direct	13751 Nov 17 01:45 13751 Nov 21 16:19	25°M57'52		morning rise direct	13752 Oct 27 02:05 13752 Nov 01 12:43	6°M34'54 5°M27'02	
ancet	13751 Dec 02 03:20	23 IIG3/32 0° ⊀		morning max el	13752 Nov 01 12.43 13752 Nov 15 14:10	12°M34'35	25°37'30
morning max el	13751 Dec 02 03:20 13751 Dec 05 03:54	2° × ⁷ 34'18	23°52'45	mun or	13752 Nov 29 02:26	0° √	_0 0/00
asc. node	13751 Dec 18 08:29	20° ∡ '02'08	-	asc. node	13752 Dec 04 05:29	8° ∡ ¹48'19	
	13751 Dec 23 19:53	0°రె		morning set	13752 Dec 12 22:14	26° ₹ 13'10	
morning set	13751 Dec 29 10:44	11° る 32'32			13752 Dec 14 16:04	0°ಕ	

morning set	13754 Nov 11 13:08	25°M01'01		morning set	13755 Oct 26 12:37	8°M57'15	
	13754 Nov 13 21:13	0° ∡ ¹		max. Earth dist.	13755 Oct 31 21:36	20° M 18'41	1.31756 AU
max. Earth dist.	13754 Nov 17 17:11	8° ≯ 25′01	1.31231 AU				
				superior conj	13755 Nov 03 00:42	24°M58'03	1°11'11
superior conj	13754 Nov 18 15:22	10° ∡ ¹28'35	1°25'57	minimum elong	13755 Nov 02 22:27	24°M45'37	1°11'39
minimum elong	13754 Nov 18 13:31	10° ₰ 18'16	1°26'42		13755 Nov 05 07:26	0° ∡ ¹	
evening rise	13754 Nov 25 08:08	25° х 16′37		evening rise	13755 Nov 09 18:46	9° ∡ ¹48'14	
	13754 Nov 27 13:31	0°₹			13755 Nov 19 23:34	0°₹	
desc. node	13754 Dec 10 16:28	24° る 01'56		desc. node	13755 Nov 27 13:33	11° る 52'30	
	13754 Dec 14 18:28	0° ≈		evening max el	13755 Dec 04 21:39	20° る 26'09	24°24'47
evening max el	13754 Dec 23 08:45	10° ≈ 00'57	25°55'54	retrograde	13755 Dec 18 14:10	27° る 15'28	
retrograde	13755 Jan 06 07:05	17° ≈ 03'47		evening set	13755 Dec 23 18:39	26° る 16'23	
evening set	13755 Jan 12 11:21	15° ≈ 34'11		min. Earth dist.	13755 Dec 29 09:18	23° る 25'16	0.55965 AU
min. Earth dist.	13755 Jan 16 21:44	12° ≈ 57′02	0.57751 AU	inferior conj	13755 Dec 31 16:07	22° る 00'27	-5°33'24
inferior conj	13755 Jan 19 21:56	10° ≈ 49′27	-4°28'06	minimum elong	13755 Dec 31 23:01	21° る 49'45	5°31'19
minimum elong	13755 Jan 20 06:46	10° ≈ 33'48	4°24'43	morning rise	13756 Jan 09 05:22	17° る 59'02	
morning rise	13755 Jan 28 05:03	6° ≈ 27'45		direct	13756 Jan 11 15:17	17° る 43'33	
direct	13755 Jan 30 06:40	6° ≈ 14'08		morning max el	13756 Jan 21 16:16	22° る 33'52	19°43'58
asc. node	13755 Feb 03 22:01	7° ≈ 27'06		asc. node	13756 Jan 21 19:22	22° る 41'24	
morning max el	13755 Feb 07 21:13	10° ≈ 26'46	18°43'32		13756 Jan 27 16:48	0° ≈	
	13755 Feb 20 17:07	0° ∀		morning set	13756 Feb 08 04:58	20° ≈ 56'32	
morning set	13755 Feb 24 01:04	6° ¥ 24'36		•	13756 Feb 12 16:11	0° ₩	
C							
superior conj	13755 Mar 04 18:54	23° ¥ 16′00	0°31'40	superior conj	13756 Feb 16 02:32	6° ¥ 51'57	0°58'23
minimum elong	13755 Mar 04 20:55	23° ¥ 25'27	0°31'33	minimum elong	13756 Feb 16 05:16	7° ₩ 05'25	0°58'29
C	13755 Mar 08 10:21	0° Y		max. Earth dist.	13756 Feb 22 07:03	18° ¥ 43'50	1.37486 AU
desc. node	13755 Mar 08 17:42	0° Ƴ 33'21		desc. node	13756 Feb 23 14:12	21° ¥ 07'12	
max. Earth dist.	13755 Mar 12 00:43	6°Υ25'17	1.39738 AU	evening rise	13756 Feb 26 00:19	25° ¥ 29'01	
evening rise	13755 Mar 16 00:57	13° Y 18'45		3	13756 Feb 28 14:15	0° Υ	
8	13755 Mar 26 10:34	0°8			13756 Mar 19 00:31	0°8	
	13755 Apr 17 17:02	0°II		evening max el	13756 Apr 01 11:43	16° 8 11'35	25°20'12
evening max el	13755 Apr 19 22:08	2° Ⅱ 18'18	24°03'12	retrograde	13756 Apr 13 15:50	23° 8 14'21	
retrograde	13755 May 01 02:12	8° Ⅱ 51'47		asc. node	13756 Apr 18 15:54	21° 8 28'32	
asc. node	13755 May 02 18:32	8° Ⅱ 39'11		evening set	13756 Apr 19 12:23	20° 8 48'20	
evening set	13755 May 06 11:13	6° П 35'36		min. Earth dist.	13756 Apr 23 20:54	16° 8 00'02	0.67900 AU
min. Earth dist.	13755 May 11 03:07	1° I I1'18	0.68648 AU	inferior conj	13756 Apr 25 04:27	14° 8 17'44	1°54'01
inferior conj	13755 May 11 22:10	0°Щ06′34	2°29'01	minimum elong	13756 Apr 25 02:20	14° 8 24'38	1°52'43
minimum elong	13755 May 11 20:07	0° П 13'34		morning rise	13756 Apr 30 16:39	8° 8 24'33	1 02 10
minimum crong	13755 May 12 00:06	30°R₩	2 27 11	direct	13756 May 04 05:39	7° 8 12'28	
morning rise	13755 May 17 05:03	24° 8 04'12		morning max el	13756 May 11 04:57	11° 8 00'56	19°12'30
direct	13755 May 21 05:41	22° 8 32'04		desc. node	13756 May 21 16:18	24° 8 26'07	19 1200
morning max el	13755 May 29 00:34	26° 8 55'20	20°14'19	greatest brilliancy	13756 May 24 01:55	27° 8 58'29	-0.7m
morning man er	13755 May 31 20:45	0°Ⅱ	20 1.17	greatest similare)	13756 May 25 10:25	0°Ⅱ	0.711
desc. node	13755 Jun 04 19:27	4° ∏ 56'10		morning set	13756 Jun 04 06:04	14° Ⅱ 59'37	
acse. noac	13755 Jun 22 01:52	0°50		morning sec	13756 Jun 13 22:22	0°95	
morning set	13755 Jun 26 02:43	6°9510'44		max. Earth dist.	13756 Jun 17 10:57		1.45360 AU
max. Earth dist.	13755 Jul 05 18:58	21° © 20'57	1.44146 AU	man. Darun diot.	15,000 0011 1, 10.57	5 251 00	1.10500110
	13755 Jul 11 03:26	0°Ω		superior conj	13756 Jun 20 14:58	10°530'31	-2°13'24
	15,000 001 11 05.20	~ 00		minimum elong	13756 Jun 20 16:14	10°535'28	
superior conj	13755 Jul 11 17:10	0° Ω 56'15	-2°00'55	violig	13756 Jul 02 17:49	0°Ω	
minimum elong	13755 Jul 11 23:46	1° Ω 23'18		evening rise	13756 Jul 05 05:00	4°Ω02'35	
evening rise	13755 Jul 24 14:00	22°Ω40'50	2 0120	asc. node	13756 Jul 15 14:35	20° Ω 56'14	
evening rise	13755 Jul 28 19:50	0° m)		450. 11040	13756 Jul 21 23:29	0° m)	
asc. node	13755 Jul 29 17:51	1° Mp 34'09		evening max el	13756 Jul 24 08:44	2° m/39'19	18°18'09
evening max el	13755 Aug 10 18:31	19° Mp 06'31	18°03'31	retrograde	13756 Jul 30 17:36	6° my 02'32	10 10 0)
retrograde	13755 Aug 17 05:09	22° m) 27'19	10 03 31	evening set	13756 Aug 02 17:16	5° m) 13'42	
evening set	13755 Aug 19 20:13	21° m ₂ 52'51		evening set	13756 Aug 08 10:14	30°R€	
inferior conj	13755 Aug 26 05:57	16° mp 42'26	1°34'37	inferior conj	13756 Aug 08 14:58	29° Ω 46'21	2°23'09
minimum elong	13755 Aug 26 08:15	16° Mp 36'27	1°33'32	minimum elong	13756 Aug 08 17:22	29° Ω 39'23	2°21'56
min. Earth dist.	13755 Aug 20 08:15	13° Mp 42'44	0.62227 AU	min. Earth dist.	13756 Aug 10 23:46	$27^{\circ}\Omega_{02'48}$	0.64356 AU
desc. node	13755 Aug 21 16:57	11° Mp 23'16	3.02227710	morning rise	13756 Aug 14 16:00	23° Ω 27'06	5.0.550710
morning rise	13755 Sep 01 17:54	10° m 35'37		desc. node	13756 Aug 17 14:28	21° Ω 37'46	
direct	13755 Sep 08 10:17	8° mg 12'11		direct	13756 Aug 21 06:03	20°Ω50'41	
morning max el	13755 Sep 22 12:58	16° Mp 12'30	27°57'16	morning max el	13756 Sep 03 22:56	28° Ω 49'22	27°29'52
	13755 Oct 03 21:42	0° ⊡	2, 3/10		13756 Sep 05 02:21	0° m)	_, _, _,
	13755 Oct 03 21:42 13755 Oct 22 00:09	0° m .			13756 Sep 26 18:26	0° <u>ت</u> 0° <u>ت</u>	
asc. node	13755 Oct 25 19:53	7°M32'09		morning set	13756 Oct 09 03:37	0 = 22° £ 27'22	
	15,00 000 25 17.55	, 11032 07			25,000 000 07 05.57		

asc. node	13756 Oct 11 16:33	27° £ 32'45			13757 Aug 31 21:48	0° m)	
asc. noue	13756 Oct 12 21:16	0°M			13757 Sep 19 09:04	0∘ ⊽	
max. Earth dist.	13756 Oct 12 21:16		1.32825 AU	morning set	13757 Sep 22 07:05	ა – 5° ჲ 24'17	
				max. Earth dist.	13757 Sep 26 06:46	13° ≏ 06'26	1.34419 AU
superior conj	13756 Oct 17 06:02	9° ™ 12'27	0°50'45	asc. node	13757 Sep 28 13:09	17° ≏ 38'31	
minimum elong	13756 Oct 17 03:54	9°M00'59	0°50'57				
evening rise	13756 Oct 24 05:49	24°M18'51		superior conj	13757 Oct 01 04:57	23° ჲ 05'34	0°24'52
	13756 Oct 26 22:38	0° ∡ ″		minimum elong	13757 Oct 01 03:39	22° ≏ 58'46	0°24'55
desc. node	13756 Nov 13 10:46	28° ₹ 30'17			13757 Oct 04 12:06	0°M,	
·	13756 Nov 14 20:53	0°궁 0°궁26'48	22042120	evening rise	13757 Oct 08 15:22	8°M43'22	
evening max el retrograde	13756 Nov 15 07:44 13756 Nov 28 08:12	6°る54'23	22°42'29	evening max el	13757 Oct 19 20:16 13757 Oct 28 00:23	0° ⊀ 10° ⊀ 39'43	21°06'32
evening set	13756 Dec 02 04:30	6°る22'08		desc. node	13757 Oct 28 00:25 13757 Oct 31 08:05	13° x 29'54	21 00 32
min. Earth dist.	13756 Dec 02 04:30	2°る58'22	0.54803 AU	retrograde	13757 Nov 08 19:07	16° ₹ 30'59	
inferior conj	13756 Dec 10 16:01	2° る 24'29		evening set	13757 Nov 11 09:15	16° х 15′13	
minimum elong	13756 Dec 10 15:15	2° る 25'35	5°56'24	inferior conj	13757 Nov 20 07:18	12° ∡ °21'51	-5°22'27
	13756 Dec 15 05:15	30°₹ ҂		minimum elong	13757 Nov 19 22:39	12° ∡ ³34′05	5°19'49
morning rise	13756 Dec 19 03:18	28° ₰ ³36′28		min. Earth dist.	13757 Nov 20 21:56	12° х °01′09	0.54502 AU
direct	13756 Dec 22 06:42	28° ∡ 13'49		morning rise	13757 Nov 28 12:32	8° ∡ ³30'38	
	13756 Dec 28 20:08	0°る		direct	13757 Dec 02 14:04	7° ∡ 755'14	
morning max el	13757 Jan 02 20:58	3° る 46'29	21°07'33	morning max el	13757 Dec 15 12:39	14° ₹ 09'46	22°50'02
asc. node	13757 Jan 07 16:39	9° ට 16'02		asc. node	13757 Dec 25 13:51	26° ₹ 52'51	
	13757 Jan 19 19:33	0°≈ 5°2 • 2012 (13757 Dec 27 11:49	0°る 20°る25'15	
morning set	13757 Jan 22 13:44	5° ≈ 39'26		morning set	13758 Jan 07 01:01 13758 Jan 11 11:57	20° ⊘ 25°15 0° ≈	
superior conj	13757 Jan 29 21:25	20° ≈ 57'57	1°18'02		15/50 Juli 11 11.5/	· ~	
minimum elong	13757 Jan 29 23:52	21°≈10'39	1°18'30	superior conj	13758 Jan 14 00:04	5° ≈ 23'16	1°30'52
g	13757 Feb 03 08:36	0° ∀	1 1030	minimum elong	13758 Jan 14 01:42	5°≈32'03	1°31'41
max. Earth dist.	13757 Feb 03 16:56	0°) 41′01	1.35389 AU	max. Earth dist.	13758 Jan 17 09:26	12° ≈ 32'34	1.33624 AU
evening rise	13757 Feb 07 17:09	8°) 22′56		evening rise	13758 Jan 21 23:43	21° ≈ 49'57	
desc. node	13757 Feb 09 10:46	11°) ₹35′29			13758 Jan 26 06:42	0°)	
	13757 Feb 20 06:04	0° Υ		desc. node	13758 Jan 27 07:23	1° ¥ 52'58	
evening max el	13757 Mar 15 01:30	0° 8 00'46	26°25'40		13758 Feb 14 01:20	0° Υ	
. 1	13757 Mar 15 01:12	0°8		evening max el	13758 Feb 25 14:58	13° ℃ 35'41	27°12'27
retrograde	13757 Mar 28 00:16	7° と 21'18 4° と 49'40		retrograde	13758 Mar 11 02:45 13758 Mar 17 18:40	21° Y 03'37 18° Y 32'03	
evening set asc. node	13757 Apr 03 07:33 13757 Apr 05 13:21	2° 8 42'44		evening set min. Earth dist.	13758 Mar 21 16:09	18 γ 52 03 14° γ 51'41	0.65152 AU
min. Earth dist.	13757 Apr 07 09:57	0° 8 36'21	0.66726 AU	asc. node	13758 Mar 23 10:49	12° Υ 53'27	0.03132710
mm. Barm dige.	13757 Apr 07 22:04	30°RY	0.00720110	inferior conj	13758 Mar 24 00:26	12° Υ 15'21	0°10'52
inferior conj	13757 Apr 09 06:01	28° Y ′22'47	1°08'11	minimum elong	13758 Mar 24 00:08	12° Y 16′12	
minimum elong	13757 Apr 09 04:25	28° Y 27'39	1°07'11	transit middle	13758 Mar 24 00:08	12° Y 16'12	0°10'37
morning rise	13757 Apr 15 02:14	22° Y 40'31		transit begin	13758 Mar 23 21:52	12° Y ′22'31	
direct	13757 Apr 18 04:35	21° Y 46'35		transit end	13758 Mar 24 02:24	12° Y ′09'54	
morning max el	13757 Apr 24 16:12	25° Y 13'15	18°26'48	morning rise	13758 Mar 30 07:19	6° Y 46′02	
	13757 Apr 28 19:27	0°8		direct	13758 Apr 02 00:08	6° Y 07'23	15055150
desc. node morning set	13757 May 08 13:04	14° 8 20'33 24° 8 45'42		morning max el	13758 Apr 08 08:09	9° Y 24'54 0° と	17°57'59
morning set	13757 May 15 03:47 13757 May 18 11:27	24 O 43 42 0° Ⅱ		desc. node	13758 Apr 22 15:30 13758 Apr 25 09:44	4° 8 32'14	
	25/5/ Way 10 11.2/	V д		morning set	13758 Apr 26 05:28	5° 8 53'27	
superior conj	13757 May 30 23:36	19° Ⅱ 36′02	-2°06'14	<i>5</i>	r	- /	
minimum elong	13757 May 30 17:18	19° Ⅱ 11'24		superior conj	13758 May 10 12:09	28° 8 58'38	-1°40'25
max. Earth dist.	13757 May 31 06:34	20° Ⅱ 03'13	1.45857 AU	minimum elong	13758 May 10 03:04	28° 8 22'43	1°40'22
	13757 Jun 06 15:24	0 \circ \odot			13758 May 11 03:40	Π °0	
evening rise	13757 Jun 15 19:24	14° © 23'15		max. Earth dist.	13758 May 14 02:43		1.45597 AU
greatest brilliancy	13757 Jun 24 22:53	28°5544'24	-0.8m	evening rise	13758 May 26 13:29	23° Ⅱ 57'32	
,	13757 Jun 25 18:28	0° N		4 41 111	13758 May 30 12:05	0°©	0.6
asc. node	13757 Jul 02 11:25	9° £ 53′10	10050120	greatest brilliancy	13758 Jun 09 10:18	14°956'38	-0.6m
evening max el retrograde	13757 Jul 07 20:17 13757 Jul 14 12:25	16°Ω22'30 20°Ω01'40	18°50'20	asc. node	13758 Jun 19 08:21 13758 Jun 20 22:55	28° © 16′10 0° Ω	
evening set	13757 Jul 14 12.23 13757 Jul 17 20:57	18° Ω 56'50		evening max el	13758 Jun 21 03:00	0° Ω 10'19	19°39'03
inferior conj	13757 Jul 23 10:16	13° Ω 14'24	2°53'34	retrograde	13758 Jun 28 10:31	4° Ω 17'46	-, -, -,
minimum elong	13757 Jul 23 12:01	13° Ω 08'55	2°52'26	evening set	13758 Jul 02 04:26	2° Ω 56'11	
min. Earth dist.	13757 Jul 25 04:39	11° Ω 01′24	0.66155 AU	Č	13758 Jul 05 04:35	30°Rூ	
morning rise	13757 Jul 29 02:16	6° Ω 50′10		inferior conj	13758 Jul 07 12:41	27° © 00'18	3°08'57
direct	13757 Aug 04 09:18	4° Ω 10′22		minimum elong	13758 Jul 07 13:28	26° © 57'44	3°07'54
desc. node	13757 Aug 04 11:56	4°Ω10'25		min. Earth dist.	13758 Jul 08 16:42	25°526'56	0.67533 AU
morning max el	13757 Aug 17 10:13	11° Ω 54'37	26°33'02	morning rise	13758 Jul 12 22:02	20° © 36'22	

direct	13758 Jul 18 18:59	18° © 01'55		min. Earth dist.	13759 Jun 22 09:48	10° © 09'30	0.68459 AU
desc. node	13758 Jul 22 09:19	18° © 50'07		morning rise	13759 Jun 27 00:53	4°938'24	0.00 107 110
morning max el	13758 Jul 30 21:06	25°©16'44	25°15'50	direct	13759 Jul 02 10:01	2°916'26	
5 5	13758 Aug 04 04:08	$0^{\circ}\Omega$		desc. node	13759 Jul 09 06:36	5°910'31	
	13758 Aug 25 09:26	0° m		morning max el	13759 Jul 13 07:23	8°947'10	23°47'55
morning set	13758 Sep 04 19:10	17° m 39'04		Č	13759 Jul 29 23:49	$0^{\circ}\Omega$	
max. Earth dist.	13758 Sep 08 09:17	24° m 12'39	1.36455 AU	morning set	13759 Aug 17 11:11	28° Ω 59'23	
	13758 Sep 11 10:39	0∘ ⊽			13759 Aug 18 01:25	0° m)	
				max. Earth dist.	13759 Aug 21 06:53	5° Mp 36'00	1.38770 AU
superior conj	13758 Sep 14 18:35	6° ₽ 30'33	-0°05'54				
minimum elong	13758 Sep 14 18:56	6° £ 32'22	0°05'48	superior conj	13759 Aug 28 19:13	19° m 17'55	
behind sun begin	13758 Sep 14 12:56	6° £ 02'35		minimum elong	13759 Aug 28 22:06	19° m 31'25	0°39'55
behind sun end	13758 Sep 15 00:57	7° ≏ 02'12		asc. node	13759 Sep 02 06:14	27° m 50'21	
asc. node	13758 Sep 15 09:43	7° ≏ 45'49			13759 Sep 03 08:52	0∘ ⊽	
evening rise	13758 Sep 22 21:11	22° £ 56'12		evening rise	13759 Sep 06 20:31	6° ≏ 49'31	
	13758 Sep 26 09:46	0°M	10040120		13759 Sep 20 05:18	0°M	10050105
evening max el	13758 Oct 10 06:41	21°M35'21	19°48'39	evening max el	13759 Sep 23 02:44	3°M20'00	18°52'35
desc. node	13758 Oct 18 05:29	26°M25'18		retrograde	13759 Oct 01 16:41	7°M38'34	
retrograde	13758 Oct 20 10:23	26°M39'12		evening set	13759 Oct 03 13:49	7°M26'56	
evening set	13758 Oct 22 08:51	26°M28'58 22°M27'37	2055152	desc. node	13759 Oct 05 02:57 13759 Oct 11 19:50	7°M00'59 3°M08'08	2007/21
inferior conj minimum elong	13758 Oct 31 04:46 13758 Oct 30 19:13	22°M42'22	-5 55 52 3°52'00	inferior conj minimum elong	13759 Oct 11 19:30 13759 Oct 11 14:29	3°ML17'40	2°04'55
min. Earth dist.	13758 Nov 02 06:26	21°ML10'58	0.55147 AU	min. Earth dist.	13759 Oct 11 14.29 13759 Oct 14 19:43	1°ML00'43	0.56621 AU
morning rise	13758 Nov 02 00:20	18°M12'28	0.33147 AU	iiiii. Latui dist.	13759 Oct 14 19:43 13759 Oct 16 08:32	30°R ≏	0.30021 AC
direct	13758 Nov 13 03:18	17°ML18'02		morning rise	13759 Oct 10 08:32 13759 Oct 19 12:00	28° ≙ 17'13	
morning max el	13758 Nov 26 22:30	24°ML09'13	24°38'56	direct	13759 Oct 25 06:07	26° ⊆ 58'00	
morning max or	13758 Dec 02 06:26	0° x 7	21 30 30	direct	13759 Nov 03 03:49	0° M .	
asc. node	13758 Dec 12 10:55	15° ₹ 17'14		morning max el	13759 Nov 08 10:45	4°ML17'38	26°16'15
	13758 Dec 20 02:27	0°ਰ			13759 Nov 26 23:44	0° ∡ 7	
morning set	13758 Dec 22 12:55	5° පි 08'56		asc. node	13759 Nov 29 07:52	4° ∡ 16'43	
C				morning set	13759 Dec 06 23:42	19° ∡ ¹45'32	
superior conj	13758 Dec 29 07:50	20° ට 00'25	1°37'14		13759 Dec 11 15:44	0°ರ	
minimum elong	13758 Dec 29 08:25	20° る 03'35	1°38'15				
max. Earth dist.	13758 Dec 31 09:24	24° පි 30'41	1.32308 AU	superior conj	13759 Dec 13 18:29	4° ප 42'41	1°37'29
	13759 Jan 02 22:55	0° ≈		minimum elong	13759 Dec 13 17:59	4° る 39'53	1°38'32
evening rise	13759 Jan 05 16:51	5° ≈ 42'33		max. Earth dist.	13759 Dec 14 15:08	6° る 37'28	1.31486 AU
desc. node	13759 Jan 14 04:05	21° ≈ 54'30		evening rise	13759 Dec 20 17:44	19° る 53'40	
	13759 Jan 18 21:33	0° ∀			13759 Dec 25 17:33	0° ≈	
evening max el	13759 Feb 08 02:48	26°) 45′16	27°33'26	desc. node	13760 Jan 01 00:53	11° ≈ 33'30	
	13759 Feb 11 21:04	0° Υ			13760 Jan 13 05:30	0° ∀	
retrograde	13759 Feb 21 22:25	4° Υ 11'44		evening max el	13760 Jan 21 10:57	9° 米 17'48	27°22'41
evening set	13759 Feb 28 19:19	1° Y 47'36		retrograde	13760 Feb 04 09:59	16° ∺ 36′20	
	13759 Mar 03 01:33	30° ₹ ₩	0.62247.433	evening set	13760 Feb 11 06:34	14°) €27'48	0.61100.177
min. Earth dist.	13759 Mar 04 13:46	28°\(\frac{1}{3}6'06\)	0.63247 AU	min. Earth dist.	13760 Feb 15 01:24	11°) ₹38'35	
inferior conj	13759 Mar 07 08:53	25°\(\dagger)48'26 25°\(\dagger)43'42		inferior conj	13760 Feb 18 04:04	8° ¥ 53'55 8° ¥ 43'06	
minimum elong asc. node	13759 Mar 07 10:46 13759 Mar 10 08:19	23° X 43'42 23° X 00'10	0-3/03	minimum elong asc. node	13760 Feb 18 08:58 13760 Feb 25 05:46	8° X 43 06 4° X 05'02	2-14-44
morning rise	13759 Mar 14 04:45	20°\(\frac{1}{3}\)34'33		morning rise	13760 Feb 25 14:25	3° ¥ 58'12	
direct	13759 Mar 16 13:33	20° X 07'37		direct	13760 Feb 27 17:23	3° \ 39'15	
morning max el	13759 Mar 23 01:54	23° H 27'22	17°46'28	morning max el	13760 Mar 05 18:13	7° ∺ 11'38	17°53'03
morning max or	13759 Mar 28 07:58	0° Υ	17 10 20	morning max or	13760 Mar 20 12:12	0°Υ	17 33 03
morning set	13759 Apr 08 09:14	18° Y 15'46		morning set	13760 Mar 21 09:08	1° Υ '34'44	
desc. node	13759 Apr 12 06:18	24°Υ55'56		desc. node	13760 Mar 29 02:50	15° Y ′27'33	
	13759 Apr 15 05:50	0°8					
	1	_		superior conj	13760 Apr 01 02:30	20° Ƴ 39'51	-0°23'31
superior conj	13759 Apr 20 19:17	9° 8 15'40	-1°03'19	minimum elong	13760 Apr 01 00:23	20° Ƴ 30'40	
minimum elong	13759 Apr 20 12:58	8° 8 49'41	1°03'01		13760 Apr 06 14:57	9° 8	
max. Earth dist.	13759 Apr 26 20:47	19° 8 03'39	1.44624 AU	max. Earth dist.	13760 Apr 08 11:23	3° 8 03'05	1.43042 AU
	13759 May 03 20:06	$\Pi^{\circ}0$		evening rise	13760 Apr 14 20:29	13° 8 16'51	
evening rise	13759 May 06 00:29	3° Ⅲ 21′50			13760 Apr 25 20:05	Π °0	
	13759 May 23 24:00	0ං ව		evening max el	13760 May 16 23:27	27° Ⅱ 49'44	21°56'23
evening max el	13759 Jun 04 03:54	13° © 59'23	20°42'14		13760 May 19 07:43	0 \circ	
asc. node	13759 Jun 06 05:22	15° © 53'31		asc. node	13760 May 23 02:30	2° © 31'19	
retrograde	13759 Jun 12 09:28	18°5544'47		retrograde	13760 May 26 07:29	3°5518'10	
evening set	13759 Jun 16 13:31	17°506'24		evening set	13760 May 30 22:27	1°523'40	
inferior conj	13759 Jun 21 19:36	10°958'33	3°11'39		13760 Jun 01 09:16	30°RⅡ 250₩05120	2002112
minimum elong	13759 Jun 21 19:20	10° © 59'25	3°10'36	inferior conj	13760 Jun 05 04:49	25° Ⅱ 05'38	3°03'13

		_				_	
minimum elong	13760 Jun 05 03:40	25° Ⅱ 09'39	3°02'04	inferior conj	13761 May 20 14:22	9° Ⅱ 16'53	2°44'27
min. Earth dist.	13760 Jun 05 05:47	25° Ⅱ 02'14	0.68911 AU	minimum elong	13761 May 20 12:33	9° Ⅱ 23'11	2°43'09
morning rise	13760 Jun 10 08:40	18° Ⅱ 51′26		morning rise	13761 May 25 19:24	3° Ⅱ 10′04	
direct	13760 Jun 15 05:10	16° Ⅱ 47'03		direct	13761 May 30 03:12	1° Ⅱ 25'59	
morning max el	13760 Jun 24 19:22	22° Ⅲ 25'31	22°18'52	morning max el	13761 Jun 07 12:19	6° Ⅱ 13'59	20°56'30
desc. node	13760 Jun 25 03:46	22° Ⅱ 46'47		desc. node	13761 Jun 12 00:49	11° Ⅱ 18′08	
	13760 Jul 01 09:16	0 \circ \odot			13761 Jun 25 14:09	0°9	
	13760 Jul 22 06:58	$0^{\circ}\Omega$		morning set	13761 Jul 07 19:06	18° © 30'28	
morning set	13760 Jul 28 03:09	9° Ω 15'59		Č	13761 Jul 15 00:55	$0^{\circ}\Omega$	
max. Earth dist.	13760 Aug 02 06:54	17° Ω 45'56	1.41108 AU	max. Earth dist.	13761 Jul 15 13:27	0°Ω50'44	1.43176 AU
	13760 Aug 09 09:04	0° m)					
	13,001148 03 03.01	ÿ y		superior conj	13761 Jul 22 12:44	12° Ω 22'27	-1°46'50
superior conj	13760 Aug 10 02:44	1° mp 18'31	-1°15'15	minimum elong	13761 Jul 22 20:02	12° Ω 53'14	
minimum elong	13760 Aug 10 02:44	1° mg 43'53		minimum ciong	13761 Aug 01 16:29	0° m)	1 4037
asc. node	13760 Aug 10 08:23	17° Mp 48'52	1 13 02	evening rise	13761 Aug 01 10.29	3°M)02'32	
	•			asc. node	_	7° Mg 37'18	
evening rise	13760 Aug 20 10:05	20° Mp 15′14 0° <u>Ω</u>			13761 Aug 05 23:24		10002115
	13760 Aug 25 16:50		10015152	evening max el	13761 Aug 19 21:12	28° m/47'24	18°03'15
evening max el	13760 Sep 05 08:58	15° ≏ 47'20	18°17'53		13761 Aug 21 05:20	0∘ ʊ	
retrograde	13760 Sep 12 18:21	19° △ 32'20		retrograde	13761 Aug 26 13:11	2° △ 13'12	
evening set	13760 Sep 14 21:00	19° ≙ 14'41		evening set	13761 Aug 28 23:27	1° ≏ 45'49	
desc. node	13760 Sep 21 00:27	15° ≏ 40'38			13761 Sep 01 01:33	30°₽, TD)	
inferior conj	13760 Sep 22 08:39	14° ≏ 34'39		inferior conj	13761 Sep 04 17:44	26° Mp 45'34	0°57'14
minimum elong	13760 Sep 22 07:44	14° ≏ 36'35	0°24'46	minimum elong	13761 Sep 04 19:24	26° Mp 41'34	0°56'29
min. Earth dist.	13760 Sep 25 15:48	11° ≙ 50'48	0.58651 AU	desc. node	13761 Sep 07 21:58	23° m 43'04	
morning rise	13760 Sep 29 15:01	9° ჲ 07'43		min. Earth dist.	13761 Sep 07 20:51	23° m 45'38	0.60919 AU
direct	13760 Oct 05 22:44	7° ≏ 21'21		morning rise	13761 Sep 11 12:28	20° m 50'12	
morning max el	13760 Oct 20 06:13	15° ≏ 02'05	27°25'22	direct	13761 Sep 18 03:20	18° m 38'48	
	13760 Nov 01 08:57	0°M		morning max el	13761 Oct 02 09:20	26° M 34'20	27°56'58
asc. node	13760 Nov 15 04:42	23°M41'57			13761 Oct 05 14:54	0∘ ত	
	13760 Nov 18 07:49	0° ∡ ¹			13761 Oct 25 23:47	0° M .	
morning set	13760 Nov 20 07:39	4° ∡ 10'33		asc. node	13761 Nov 02 01:27	13°M25'43	
Č				morning set	13761 Nov 04 10:54	18° ™ 19'27	
superior conj	13760 Nov 27 06:06	19° ∡ ²24'14	1°31'50	· ·	13761 Nov 09 21:26	0° ∡ ¹	
minimum elong	13760 Nov 27 04:39	19° х 16′12	1°32'43	max. Earth dist.	13761 Nov 10 06:44		1.31393 AU
max. Earth dist.	13760 Nov 26 23:31	18°×747'30	1.31179 AU	max. Earth dist.	137011107 10 00.11	0 % 31 17	1.51575710
max. Earth dist.	13760 Dec 02 00:34	0°る	1.51177710	superior conj	13761 Nov 11 16:50	4° ∡ °00'01	1°20'23
evening rise	13760 Dec 02 00:34 13760 Dec 04 00:01	4°♂17'06		minimum elong	13761 Nov 11 14:45	3° × ⁷ 48'29	1°21'01
evening rise	13760 Dec 17 11:51	0°≈		evening rise	13761 Nov 18 09:39	18° х' 47'38	1 2101
daga mada		0 ∞ 0°≈40'44		evening rise	13761 Nov 18 09.39 13761 Nov 23 19:12	18 メ・47 38 0°る	
desc. node	13760 Dec 17 21:48		26927104	J J.	13761 Nov 23 19.12 13761 Dec 04 18:49	0 8 19° る 04'16	
evening max el	13761 Jan 02 12:35	21°≈01'27	20 37 04	desc. node			
retrograde	13761 Jan 16 11:36	28°≈09'27			13761 Dec 13 08:51	0° ≈	25010124
evening set	13761 Jan 23 00:42	26°≈23'56	0.50044.477	evening max el	13761 Dec 15 05:40	1°≈52'22	25°19'34
min. Earth dist.	13761 Jan 27 02:23	23°≈46'41	0.58944 AU	retrograde	13761 Dec 29 01:53	8°≈49'46	
inferior conj	13761 Jan 30 06:18	21° ≈ 21'12		evening set	13762 Jan 03 21:42	7°≈32'46	
minimum elong	13761 Jan 30 14:12	21° ≈ 06′01	3°38'01	min. Earth dist.	13762 Jan 08 17:49	4° ≈ 52'17	0.56936 AU
morning rise	13761 Feb 07 06:44	16° ≈ 46′30		inferior conj	13762 Jan 11 12:31	3° ≈ 01'26	
direct	13761 Feb 09 07:27	16° ≈ 31'53		minimum elong	13762 Jan 11 21:13	2° ≈ 46'55	4°56'13
asc. node	13761 Feb 11 03:12	16° ≈ 44'11			13762 Jan 16 14:11	30°Ŗる	
morning max el	13761 Feb 17 05:26	20° ≈ 26'47	18°19'05	morning rise	13762 Jan 19 23:15	28° る 49'01	
	13761 Feb 24 09:03	0° ℋ		direct	13762 Jan 22 03:28	28° る 35'06	
morning set	13761 Mar 04 23:15	15°) 31′55			13762 Jan 27 08:04	0° ≈	
	13761 Mar 12 15:40	0 ° Υ		asc. node	13762 Jan 29 00:35	1° ≈ 05'00	
				morning max el	13762 Jan 31 07:36	3° ≈ 02'17	19°06'27
superior conj	13761 Mar 14 08:00	3° Y ′04'53	0°13'11	morning set	13762 Feb 16 23:08	29° ≈ 54'15	
minimum elong	13761 Mar 14 08:58	3° Ƴ 09'17	0°13'04		13762 Feb 17 00:18	0°) €	
behind sun begin	13761 Mar 14 04:43	2° Y 49'55					
behind sun end	13761 Mar 14 13:14	3° Y ′28'37		superior conj	13762 Feb 25 07:29	16° ¥ 19′01	0°43'50
desc. node	13761 Mar 15 23:20	6° Y ′02'40		minimum elong	13762 Feb 25 09:57	16° ¥ 30′50	0°43'48
max. Earth dist.	13761 Mar 21 21:41	16° Y °25'32	1.41018 AU	desc. node	13762 Mar 02 19:50	26°) 38′06	
evening rise	13761 Mar 26 11:10	24° Y '02'46		max. Earth dist.	13762 Mar 04 04:24	29° \ 05'11	1.38775 AU
	13761 Mar 30 03:46	0°8			13762 Mar 04 16:40	0°Υ	
	13761 Apr 19 17:22	0°II		evening rise	13762 Mar 07 23:03	5°Υ43'36	
evening max el	13761 Apr 29 15:01	11° Ⅱ 40'51	23°16'39	0,0111115 113C	13762 Mar 23 04:26	0° 8	
asc. node	13761 May 09 23:44	17° ∏ 51'48	25 10 57	evening max el	13762 Apr 12 04:40	25° 8 33'05	24°36'48
asc. Houc	15/01 Iviay 07 25.44	1/ 11/31/40		evening max ci	13/02 Apr 12 04.40		27 JU40
retrograde	13761 May 10 02-10	170 1 51151			13762 Apr 17 11:01	ωπ	
retrograde	13761 May 10 03:10	17° ∏ 51'54		retrogrado	13762 Apr 17 11:01	0°Ⅱ 2°Ⅲ20'26	
retrograde evening set min. Earth dist.	13761 May 10 03:10 13761 May 15 05:38 13761 May 20 02:31	17° ∏ 51'54 15° ∏ 42'44 9° ∏ 57'49	0.68883 AU	retrograde asc. node	13762 Apr 17 11:01 13762 Apr 23 19:22 13762 Apr 26 21:04	0°П 2°П20'26 1°П39'05	

evening set	13762 Apr 29 09:28	29° 8 59'18		asc. node	13763 Apr 13 18:29	13° 8 46'08	
evening set	13762 Apr 29 09:09	30°RB		min. Earth dist.	13763 Apr 17 14:01	9° 8 34'49	0.67444 AU
min. Earth dist.	13762 May 03 21:57	24° 8 50'39	0.68386 AU	inferior conj	13763 Apr 19 02:58	7° 8 38'01	1°35'58
inferior conj	13762 May 04 22:24	23° 8 29'00	2°15'28	minimum elong	13763 Apr 19 00:59	7° 8 44'18	1°34'44
minimum elong	13762 May 04 20:16	23° 8 36'11	2°14'07	morning rise	13763 Apr 24 18:15	1° 8 49'19	1 3
morning rise	13762 May 10 07:15	17° 8 30'37	2 1407	direct	13763 Apr 28 02:29	0° 8 45'27	
direct	13762 May 14 02:48	16° 8 07'20		morning max el	13763 May 04 20:02	4° 8 23'26	18°51'02
morning max el	13762 May 14 02:48	20° 8 14'06	19°46'11	desc. node	13763 May 16 18:35	20° 8 11'05	10 31 02
desc. node	13762 May 29 21:46	0° Ⅲ 29'51	17 1011	greatest brilliancy	13763 May 18 13:20	22° 8 52'58	-0.8m
desc. node	13762 May 29 13:06	0°II		greatest orimaney	13763 May 23 04:25	0°Ⅱ	0.0111
greatest brilliancy	13762 Jun 03 10:13	6° Ⅱ 56'16	-0.6m	morning set	13763 May 27 06:15	6° Ⅱ 19'32	
morning set	13762 Jun 16 21:14	27° I 12'26	0.0111	max. Earth dist.	13763 Jun 10 19:40	29° I 100'09	1.45653 AU
morning set	13762 Jun 18 16:47	0°95		max. Lartii dist.	13763 Jun 11 10:58	0°95	1.43033710
max. Earth dist.	13762 Jun 28 02:17	14°9540'22	1.44741 AU		15705 Juli 11 10.50	0 3	
max. Lartii dist.	13702 Juli 20 02.17	14 340 22	1.44741710	superior conj	13763 Jun 12 13:28	1° © 43'45	-2°12'53
superior conj	13762 Jul 02 22:56	22° 5 26'10	-2°08'22	minimum elong	13763 Jun 12 11:21	1°935'28	
minimum elong	13762 Jul 03 03:54	22°546'10	2°09'10	evening rise	13763 Jun 27 18:27	25°954'08	2 13 33
minimum clong	13762 Jul 07 14:31	0°Ω	2 07 10	evening rise	13763 Jun 30 07:25	0°Ω	
evening rise	13762 Jul 16 13:51	14° Ω 58'44		asc. node	13763 Jul 10 16:53	16° Ω 23'18	
C	13762 Jul 10 13.31 13762 Jul 23 20:05	27°Ω10'41			13763 Jul 18 01:01	$25^{\circ}\Omega 48'42$	10020140
asc. node	13762 Jul 25 13:43	0°m)		evening max el	13763 Jul 24 12:05	23 δί 48 42 29° Ω 17'17	16 29 46
			10007121	retrograde			
evening max el	13762 Aug 03 11:36	12° Mp 10'28	18°07'31	evening set	13763 Jul 27 15:22	28° Ω 22'00	2020101
retrograde	13762 Aug 09 20:31	15° m/31'02		inferior conj	13763 Aug 02 09:06	22° Ω 48'15	
evening set	13762 Aug 12 15:05	14° m 50'50		minimum elong	13763 Aug 02 11:17	22°Ω41'40	
inferior conj	13762 Aug 18 19:14	9° m 32'50	1°57'38	min. Earth dist.	13763 Aug 04 11:57	20° Ω 15'54	0.65162 AU
minimum elong	13762 Aug 18 21:43	9° Mg 26'04	1°56'26	morning rise	13763 Aug 08 06:01	16° Ω 25'55	
min. Earth dist.	13762 Aug 21 11:45	6° Mp 37′48	0.63157 AU	desc. node	13763 Aug 12 17:01	14° Ω 01'26	
morning rise	13762 Aug 25 02:20	3° m 19'20		direct	13763 Aug 14 17:35	13° Ω 46'36	
desc. node	13762 Aug 25 19:31	2° Mp 48'38		morning max el	13763 Aug 28 04:38	21° Ω 41'46	27°08'46
direct	13762 Aug 31 18:11	0° m ,49′19			13763 Sep 04 10:37	0° m y	
morning max el	13762 Sep 14 17:47	8° Mp 51'00	27°49'48		13763 Sep 24 08:25	0∘ ⊽	
	13762 Oct 01 03:40	0∘ 亚		morning set	13763 Oct 02 17:42	15° ≙ 23'05	
	13762 Oct 18 06:02	0° M ₊		asc. node	13763 Oct 06 18:45	23° ≏ 24'56	
morning set	13762 Oct 19 07:09	2°M05'44		max. Earth dist.	13763 Oct 07 01:57	24° ₽ 01'36	1.33439 AU
asc. node	13762 Oct 19 22:08	3° M 21′31			13763 Oct 09 23:12	0° M	
max. Earth dist.	13762 Oct 24 08:42	12° M 37'49	1.32143 AU				
				superior conj	13763 Oct 11 03:40	2°M30'04	0°40'25
superior conj	13762 Oct 27 00:44	18° M 23'43	1°03'13	minimum elong	13763 Oct 11 01:47	2°M20'06	0°40'33
minimum elong	13762 Oct 26 22:27	18° M ₊11'17	1°03'33	evening rise	13763 Oct 18 07:21	17° M 47'49	
	13762 Nov 01 07:54	0° ∡ ¹			13763 Oct 24 06:57	0° ∡ ¹	
evening rise	13762 Nov 02 20:42	3° ∡ 19'19		evening max el	13763 Nov 08 03:55	22° х 03'44	22°00'01
	13762 Nov 17 01:21	0°ರ		desc. node	13763 Nov 08 13:13	22° ∡ ¹26'11	
desc. node	13762 Nov 21 15:58	6° ප 26'44		retrograde	13763 Nov 20 17:45	28° ҂ 17′38	
evening max el	13762 Nov 26 16:09	12° る 02'10	23°41'27	evening set	13763 Nov 23 23:44	27° ∡ 54′08	
retrograde	13762 Dec 10 03:39	18° る 44'36		inferior conj	13763 Dec 02 16:51	24° ₹ '00'01	-5°50'06
evening set	13762 Dec 14 19:03	17° る 57'42		minimum elong	13763 Dec 02 12:11	24° ∡ ¹06'33	5°48'38
min. Earth dist.	13762 Dec 21 02:51		0.55377 AU	min. Earth dist.	13763 Dec 02 09:12	24° √ 10'45	0.54563 AU
inferior conj	13762 Dec 22 22:11	13° る 50'43		morning rise	13763 Dec 11 01:38	20° х 12'41	
minimum elong	13762 Dec 23 02:25	13° る 44'26		direct	13763 Dec 14 14:07	19° х 45′17	
morning rise	13762 Dec 31 11:34	9° る 56'39	2 ·* ·*	morning max el	13763 Dec 26 19:33	25° х 36'54	21°49'16
direct	13763 Jan 03 03:43	9° ට 39'00		morning max or	13763 Dec 30 19:51	0°る	21 1910
morning max el	13763 Jan 13 20:53	14° る 46'57	20°16'50	asc. node	13764 Jan 02 19:09	3°る58'20	
asc. node	13763 Jan 15 21:55	14° ろ 55'26	20 10 30	morning set	13764 Jan 16 15:27	29° ට 15'39	
asc. node	13763 Jan 24 18:05	0°≈		morning set	13764 Jan 16 23:53	0° ≈	
morning set	13763 Feb 01 05:24	0 ≈ 14° ≈ 31'18			13/04 Jan 10 23.33	0 &	
morning set	13/03/100 01 03.24	14 251 16		gunariar aani	12764 Ion 22 19:54	1400022156	1°24'17
superior conj	13763 Feb 08 20:23	0° ₩ 08'59	1°07'33	superior conj minimum elong	13764 Jan 23 18:54 13764 Jan 23 21:04	14°≈23'56 14°≈35'16	1°24'17 1°24'54
	13763 Feb 08 20:23 13763 Feb 08 23:05	0° ∺ 22'37	1°07'33 1°07'49	max. Earth dist.	13764 Jan 23 21:04 13764 Jan 27 23:25	23°≈01'35	1.34590 AU
minimum elong		0° ∺ 22′37 0° ∺	1 0/49	max. Earth dist.		23°≈01°35 0° ∺	1.54590 AU
may Faul 11 /	13763 Feb 08 18:36		1 26550 ATT	arraniei	13764 Jan 31 12:14		
max. Earth dist.	13763 Feb 14 11:17	11° 光 10′19	1.36558 AU	evening rise	13764 Feb 01 05:22	1° ¥ 22'16	
desc. node	13763 Feb 17 16:22	17°) €09'52		desc. node	13764 Feb 04 12:57	7°) €33'57	
evening rise	13763 Feb 18 06:16	18°) 13′10			13764 Feb 18 01:01	0° Υ	26040125
	13763 Feb 25 00:26	0° Υ		evening max el	13764 Mar 07 07:55	23° Y ′09'00	26°48'25
		0°B			13764 Mar 17 06:03	0°B	
	13763 Mar 17 10:09	_		_		_	
evening max el	13763 Mar 25 18:07	9° 8 24'37	25°49'53	retrograde	13764 Mar 20 13:14	0° 8 34'17	
retrograde	13763 Mar 25 18:07 13763 Apr 07 07:07	9° 8 24'37 16° 8 37'15	25°49'53		13764 Mar 20 13:14 13764 Mar 23 15:59	0° 8 34'17 30° R Υ	
•	13763 Mar 25 18:07	9° 8 24'37	25°49'53	retrograde evening set	13764 Mar 20 13:14	0° 8 34'17	

ī	1276434 20 15 57	2.40002712.0			12765 1 22 15 27	001/	
asc. node	13764 Mar 30 15:57	24° Y 27'20	0.66002.444		13765 Jan 22 15:37	0° ∀	
min. Earth dist.	13764 Mar 31 00:33	24° Υ 02'53	0.66093 AU		13765 Feb 11 18:58	0°Υ 6° Ω 26105	27024150
inferior conj	13764 Apr 02 01:49	21° Y 38'30	0°45'18	evening max el	13765 Feb 17 21:12	6° Y 36′05	27°24'58
minimum elong	13764 Apr 02 00:40	21° Y 41'53	0°44'35	retrograde	13765 Mar 03 12:49	14° Y ′03′29	
morning rise	13764 Apr 08 02:14	16° Y ′01′13		evening set	13765 Mar 10 07:19	11° Y '34'30	
direct	13764 Apr 11 00:18	15° Y 14'14		min. Earth dist.	13765 Mar 14 03:23	8° Y ′06'49	0.64380 AU
morning max el	13764 Apr 17 09:31	18° Ƴ 35'53	18°12'24	inferior conj	13765 Mar 16 16:24	5° Y 24'26	
	13764 Apr 26 02:58	0° 8		minimum elong	13765 Mar 16 16:55	5° Y 23′04	0°16'43
desc. node	13764 May 02 15:18	10° 8 13'25		asc. node	13765 Mar 17 13:25	4° Υ 28'52	
morning set	13764 May 06 15:30	16° 8 39'14		morning rise	13765 Mar 23 04:31	0° Υ 01'04	
	13764 May 15 00:12	$0^{\circ}\Pi$			13765 Mar 23 05:30	30° Ŗ ₩	
				direct	13765 Mar 25 17:48	29° ∺ 27'42	
superior conj	13764 May 21 21:32	10° Ⅱ 50'39	-1°57'14		13765 Mar 28 06:05	0° Y	
minimum elong	13764 May 21 13:12	10° Ⅱ 18′04	1°57'37	morning max el	13765 Apr 01 02:33	2° Y 44'46	17°50'54
max. Earth dist.	13764 May 23 15:29	13° Ⅱ 34'39	1.45835 AU	morning set	13765 Apr 18 04:59	28° Y 21′23	
	13764 Jun 03 04:40	0		desc. node	13765 Apr 19 11:56	0° 8 31'05	
evening rise	13764 Jun 06 23:01	5° © 51'06			13765 Apr 19 04:30	$_{0\circ}$ 8	
greatest brilliancy	13764 Jun 18 07:42	23° © 22'46	-0.7m				
	13764 Jun 22 19:28	0 $^{\circ}$ Ω		superior conj	13765 May 01 16:40	20° 8 32'59	-1°25'31
asc. node	13764 Jun 26 13:45	5° Ω 06'58		minimum elong	13765 May 01 08:18	19° 8 59'27	1°25'17
evening max el	13764 Jun 30 10:47	9° Ω 34'30	19°09'13	max. Earth dist.	13765 May 06 11:28	28° 8 09'19	1.45274 AU
retrograde	13764 Jul 07 08:28	13° Ω 24'01			13765 May 07 15:36	$\Pi^{\circ}0$	
evening set	13764 Jul 10 20:57	12° Ω 12′08		evening rise	13765 May 17 12:10	15° Ⅱ 16′20	
inferior conj	13764 Jul 16 07:45	6° £ 24′05	3°01'42		13765 May 27 05:43	0 \circ \odot	
minimum elong	13764 Jul 16 09:06	6° Ω 19'43	3°00'38	greatest brilliancy	13765 Jun 01 11:13	7° 5 41'59	-0.6m
min. Earth dist.	13764 Jul 17 20:03	4° Ω 26′57	0.66798 AU	asc. node	13765 Jun 13 10:43	23° © 12'00	
morning rise	13764 Jul 21 20:38	29° 9 59'37		evening max el	13765 Jun 13 15:08	23°523'11	20°04'18
•	13764 Jul 21 20:27	30° ₹ 5		retrograde	13765 Jun 21 07:05	27°545'17	
direct	13764 Jul 27 23:49	27°520'51		evening set	13765 Jun 25 05:20	26°516'20	
desc. node	13764 Jul 29 14:27	27°530'28		inferior conj	13765 Jun 30 12:20	20°©15'12	3°11'29
	13764 Aug 03 23:40	$0^{\circ}\Omega$		minimum elong	13765 Jun 30 12:40	20°914'04	3°10'28
morning max el	13764 Aug 09 15:35	4° Ω 54'11	26°02'05	min. Earth dist.	13765 Jul 01 10:21	19° © 00'32	0.67991 AU
C	13764 Aug 28 21:52	0° m		morning rise	13765 Jul 05 19:40	13° © 52'49	
morning set	13764 Sep 14 15:06	28° m/02'58		direct	13765 Jul 11 11:48	11° © 23'03	
	13764 Sep 15 16:17	$0 \circ \overline{\mathbf{v}}$		desc. node	13765 Jul 16 11:49	12°956'00	
max. Earth dist.	13764 Sep 18 09:12	5° ഫ 08'13	1.35238 AU	morning max el	13765 Jul 23 01:59	18°9519'44	24°39'10
asc. node	13764 Sep 22 15:20	13° £ 31'44			13765 Aug 01 21:47	0°N	
					13765 Aug 21 23:19	0° m)	
superior conj	13764 Sep 23 23:02	16° £ 12'16	0°12'23	morning set	13765 Aug 27 19:09	9° m) 55'12	
minimum elong	13764 Sep 23 22:20	16° £ 08'39		max. Earth dist.	13765 Aug 31 09:08		1.37422 AU
behind sun begin	13764 Sep 23 18:27	15° Ω 48'54	0 12 20	man. Darin diot.	15/001148 51 05.00	10	1.57 .22 110
behind sun end	13764 Sep 24 02:12	16° £ 28'26		superior conj	13765 Sep 07 07:36	29° m 22'05	-0°20'05
oomina san ona	13764 Sep 30 14:55	0°M		minimum elong	13765 Sep 07 08:56	29° m) 28'35	
evening rise	13764 Oct 01 15:34	2°ML07'55		minimum crong	13765 Sep 07 15:24	0ಂ ⊽	0 17 37
e vennig rise	13764 Oct 17 18:05	0° ⊼ ¹		asc. node	13765 Sep 09 11:52	ა <u>—</u> 3° ჲ 38'04	
evening max el	13764 Oct 20 02:06	2° × ⁷ 33'16	20°30'53	evening rise	13765 Sep 15 18:58	16° £ 13'13	
desc. node	13764 Oct 25 10:33	6° ₹ 36'25	20 3033	evening rise	13765 Sep 22 22:56	0°M	
retrograde	13764 Oct 31 04:26	8° ∡ 104'17		evening max el	13765 Oct 02 14:26	13°M49'19	19°22'05
evening set	13764 Nov 02 10:02	7° ∡ 751'54		retrograde	13765 Oct 12 01:09	18°MJ33'06	17 22 00
inferior conj	13764 Nov 11 09:00	3° ∡ 756'55	-4°50'30	desc. node	13765 Oct 12 07:59	18°M32'51	
minimum elong	13764 Nov 10 23:00	4° ∡ 11′24	4°47'04	evening set	13765 Oct 12 01:55	18°M22'50	
min. Earth dist.	13764 Nov 12 15:48	3° ∡ 112'13	0.54669 AU	inferior conj	13765 Oct 22 12:52	14°M14'30	-3°10'40
morning rise	13764 Nov 19 11:39	29°M57'56	0.54007710	minimum elong	13765 Oct 22 04:48	14°M27'41	3°07'04
morning rise	13764 Nov 19 09:01	30°RM		min. Earth dist.	13765 Oct 25 01:39	12°M35'27	0.55685 AU
direct	13764 Nov 23 23:00	29°M14'55		morning rise	13765 Oct 30 09:26	9°M45'14	0.55005710
direct	13/04/10/ 23 23.00			direct		8°M41'07	
morning max el	13764 Nov. 28, 10:23	0∘ ∕21					
	13764 Nov 28 10:23	0° √ 5° √ 145'42	23°36'27		13765 Nov 04 17:11		25°22'57
•	13764 Dec 07 07:28	5° ∡ ¹45'42	23°36'27	morning max el	13765 Nov 18 17:23	15°M44'32	25°22'57
asc. node	13764 Dec 07 07:28 13764 Dec 19 16:16	5° х ⁴45'42 21° х ⁴57'23	23°36'27	morning max el	13765 Nov 18 17:23 13765 Nov 30 04:11	15° ™ 44'32 0° √	25°22'57
asc. node	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06	5°፟፟፟፟፟፟፟፟፟፟፟45'42 21°፟፟፟፟፟፟57'23 0°る	23°36'27	morning max el asc. node	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16	15° ™ .44'32 0° ҂ ¹ 10° ҂ ³38'02	25°22'57
•	13764 Dec 07 07:28 13764 Dec 19 16:16	5° х ⁴45'42 21° х ⁴57'23	23°36′27	morning max el	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53	15°M44'32 0°⊀ 10°⊀38'02 28°⊀43'08	25°22'57
asc. node morning set	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15	5° ₹45'42 21° ₹57'23 0° ጜ 14° ጜ01'38		morning max el asc. node	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16	15° ™ .44'32 0° ҂ ¹ 10° ҂ ³38'02	25°22'57
asc. node morning set superior conj	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15 13765 Jan 07 00:02	5° \$\frac{7}{45}\$'42 21° \$\frac{7}{57}\$'23 0° \frac{7}{5}\$ 14° \frac{7}{50}1'38 28° \frac{7}{55}\$'28	1°34'20	morning max el asc. node morning set	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53 13765 Dec 16 05:09	15°M44'32 0°♂ 10°♂38'02 28°♂43'08 0°♂	
asc. node morning set	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15 13765 Jan 07 00:02 13765 Jan 07 01:14	5° 🛪 45'42 21° 🛪 57'23 0° 云 14° 云01'38 28° 云55'28 29° 云02'00		morning max el asc. node morning set superior conj	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53 13765 Dec 16 05:09 13765 Dec 22 09:15	15°M44'32 0°ズ 10°ズ38'02 28°ズ43'08 0°云 13°云35'26	1°38'05
asc. node morning set superior conj minimum elong	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15 13765 Jan 07 00:02 13765 Jan 07 01:14 13765 Jan 07 11:58	5° ₹45'42 21° ₹57'23 0° ℧ 14° ℧01'38 28° ℧55'28 29° ℧02'00 0° ≫	1°34'20 1°35'14	morning max el asc. node morning set superior conj minimum elong	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53 13765 Dec 16 05:09 13765 Dec 22 09:15 13765 Dec 22 09:22	15°M44'32 0°ダ 10°ダ38'02 28°ダ43'08 0°ゼ 13°ゼ35'26 13°ゼ36'04	1°38'05 1°39'07
asc. node morning set superior conj minimum elong max. Earth dist.	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15 13765 Jan 07 00:02 13765 Jan 07 01:14 13765 Jan 07 11:58 13765 Jan 09 19:25	5° 🗷 45'42 21° 🗷 57'23 0° 云 14° 云 01'38 28° 云 55'28 29° 云 02'00 0° ≈ 4° ※ 56'42	1°34'20	morning max el asc. node morning set superior conj minimum elong max. Earth dist.	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53 13765 Dec 16 05:09 13765 Dec 22 09:15 13765 Dec 22 09:22 13765 Dec 23 22:25	15°M44'32 0°ズ 10°ズ38'02 28°ズ43'08 0°G 13°G35'26 13°G36'04 17°G00'12	1°38'05
asc. node morning set superior conj minimum elong	13764 Dec 07 07:28 13764 Dec 19 16:16 13764 Dec 24 05:06 13764 Dec 31 03:15 13765 Jan 07 00:02 13765 Jan 07 01:14 13765 Jan 07 11:58	5° ₹45'42 21° ₹57'23 0° ℧ 14° ℧01'38 28° ℧55'28 29° ℧02'00 0° ≫	1°34'20 1°35'14	morning max el asc. node morning set superior conj minimum elong	13765 Nov 18 17:23 13765 Nov 30 04:11 13765 Dec 06 13:16 13765 Dec 15 14:53 13765 Dec 16 05:09 13765 Dec 22 09:15 13765 Dec 22 09:22	15°M44'32 0°ダ 10°ダ38'02 28°ダ43'08 0°ゼ 13°ゼ35'26 13°ゼ36'04	1°38'05 1°39'07

daga mada	12766 Ion 00 06:10	1790029140		daga mada	12766 Dag 26 02:00	7°≈05'42	
desc. node	13766 Jan 08 06:18	17° ≈ 38'49 0° ¥		desc. node	13766 Dec 26 03:08	0°¥	
	13766 Jan 15 18:55		27022155		13767 Jan 11 19:28		25005122
evening max el	13766 Jan 31 07:47	19°) € 31'24	27°32'55	evening max el	13767 Jan 13 13:12	1°) 43′18	27°07'23
retrograde	13766 Feb 14 04:52	26° ¥ 54'24		retrograde	13767 Jan 27 12:33	8° ¥ 58′08	
evening set	13766 Feb 21 02:38	24°) 35′48		evening set	13767 Feb 03 07:06	6° ¥ 58′08	
min. Earth dist.	13766 Feb 24 20:41	21°) ₹35′02	0.62371 AU	min. Earth dist.	13767 Feb 07 03:36	4°) (15′47	0.60195 AU
inferior conj	13766 Feb 27 19:37	18°) 46 ′51	-1°30'30	inferior conj	13767 Feb 10 08:00	1° ∺ 36'55	-2°52'44
minimum elong	13766 Feb 27 22:42	18° ¥ 39'30	1°28'55	minimum elong	13767 Feb 10 14:15	1°) 23′52	2°49'47
asc. node	13766 Mar 04 10:53	14° ¥ 53'43			13767 Feb 12 07:48	30°R ≈	
morning rise	13766 Mar 06 21:33	13° ¥ 40′24		morning rise	13767 Feb 18 00:36	26°≈50'15	
direct	13766 Mar 09 03:40	13°) 17′12		asc. node	13767 Feb 19 08:21	26° ≈ 35'48	
morning max el	13766 Mar 15 20:07	16°) 40′39	17°47'01	direct	13767 Feb 20 02:03	26° ≈ 33'37	
morning max or	13766 Mar 25 07:44	0°Υ	17 17 01	uncet	13767 Feb 27 04:55	0° \	
	13766 Mar 31 18:03	11° Υ 10'04			13767 Feb 27 10:47	0°) 14'10	18°01'39
morning set				morning max el			18 01 39
desc. node	13766 Apr 06 08:28	20° Y ′58′37		morning set	13767 Mar 15 00:34	24°) (46'44	
	13766 Apr 11 15:13	$0^{\circ}S$			13767 Mar 17 20:22	0°Υ	
				desc. node	13767 Mar 24 04:57	11° Y 32'02	
superior conj	13766 Apr 12 09:55	1° 8 18'27	-0°46'20				
minimum elong	13766 Apr 12 05:25	0° 8 59'33	0°46'07	superior conj	13767 Mar 25 03:04	13° Y 10'00	-0°07'22
max. Earth dist.	13766 Apr 19 04:40	12° 8 26'09	1.44023 AU	minimum elong	13767 Mar 25 02:27	13° Ƴ 07'15	0°07'24
evening rise	13766 Apr 27 01:16	24° 8 49'32		behind sun begin	13767 Mar 24 19:24	12° Y 36'05	
Č	13766 Apr 30 10:11	$\Pi^{\circ}0$		behind sun end	13767 Mar 25 09:30	13° Ƴ 38'21	
	13766 May 21 08:31	0°9		max. Earth dist.	13767 Apr 01 17:04	26° Y 09'31	1.42222 AU
evening max el	13766 May 27 13:33	7°9512'18	21°12'36	max. Earth dist.	13767 Apr 04 01:01	0°8	1.42222 710
•	•		21 12 30		•	_	
asc. node	13766 May 31 07:46	10°525'56		evening rise	13767 Apr 07 04:23	5° 8 04'13	
retrograde	13766 Jun 05 05:54	12° © 15'46			13767 Apr 23 16:36	0°II	
evening set	13766 Jun 09 14:34	10° © 30'09		evening max el	13767 May 10 06:59	21° I I02'12	22°30'06
inferior conj	13766 Jun 14 20:28	4° © 17'31	3°09'22	asc. node	13767 May 18 04:58	26° Ⅱ 32'59	
minimum elong	13766 Jun 14 19:48	4° © 19'48	3°08'17	retrograde	13767 May 20 03:13	26° Ⅱ 49'55	
min. Earth dist.	13766 Jun 15 04:53	3° 5 48'14	0.68710 AU	evening set	13767 May 24 22:57	24° ∏ 48'55	
	13766 Jun 18 02:28	30° ₹Ⅱ		inferior conj	13767 May 30 06:04	18° Ⅱ 26'57	2°56'32
morning rise	13766 Jun 20 00:50	27° Ⅱ 59'47		minimum elong	13767 May 30 04:36	18° Ⅲ 32′05	2°55'18
direct	13766 Jun 25 04:32	25° Ⅱ 45′08		min. Earth dist.	13767 May 30 01:31	18° Ⅱ 42'48	0.68952 AU
desc. node	13766 Jul 03 09:04	29° Ⅱ 51'31		morning rise	13767 Jun 04 10:06	12° Ⅱ 15'35	
	13766 Jul 03 12:54	0°ಅ		direct	13767 Jun 09 01:03	10° Ⅱ 19'47	
morning max el	13766 Jul 05 12:50	1°954'04	23°09'44	morning max el	13767 Jun 18 02:37	15° Ⅱ 36'40	21°42'35
morning max ci	13766 Jul 26 20:51	0°Ω	23 09 44	desc. node	13767 Jun 20 06:11	17° I I53′22	21 42 33
				desc. node			
morning set	13766 Aug 09 01:22	20° Ω 49'31			13767 Jun 29 18:36	0°99	
max. Earth dist.	13766 Aug 13 07:23	28° Ω 01'18	1.39775 AU		13767 Jul 19 20:59	0°N	
	13766 Aug 14 10:48	0° m)		morning set	13767 Jul 20 06:39	0° Ω 38′21	
				max. Earth dist.	13767 Jul 26 09:27	10° Ω 32'48	1.42030 AU
superior conj	13766 Aug 21 01:29	11° m y 50'37	-0°55'07				
minimum elong	13766 Aug 21 05:35	12°M) 09'27	0°54'53	superior conj	13767 Aug 03 00:17	23° Ω 27'39	-1°29'26
asc. node	13766 Aug 27 08:24	23° Mp 40'36		minimum elong	13767 Aug 03 06:56	23° Ω 56′39	1°29'18
evening rise	13766 Aug 30 14:39	29° m 56'20			13767 Aug 06 17:20	0° m)	
	13766 Aug 30 15:25	0∘ ⊽		evening rise	13767 Aug 13 22:48	13°M)06'56	
evening max el	13766 Sep 15 15:16	25° ♀ 53'02	18°35'18	asc. node	13767 Aug 14 04:58	13° m 35'10	
retrograde	13766 Sep 23 16:01	29° ≏ 56'10			13767 Aug 23 13:04	0∘ <u>⊽</u>	
evening set	13766 Sep 25 14:50	29° £ 42'36		evening max el	13767 Aug 30 00:33	8° £ 35'18	18°09'20
desc. node	13766 Sep 29 05:30	28° ₽ 13'38		retrograde	13767 Sep 06 01:20	12° ⊆ 10′26	10 07 20
	•		1022121	-	-		
inferior conj	13766 Oct 03 13:10	25° £ 14'45		evening set	13767 Sep 08 06:59	11° £ 49'10	0012126
minimum elong	13766 Oct 03 09:52	25° £ 21'03		inferior conj	13767 Sep 15 10:59	7° £ 00'39	0°12'26
min. Earth dist.	13766 Oct 06 17:41	22° Ω 49'36	0.57424 AU	minimum elong	13767 Sep 15 11:24	6° £ 59'43	0°12'17
morning rise	13766 Oct 11 01:26	20° ≏ 07'37		transit middle	13767 Sep 15 11:24	6° £ 59'43	0°12'17
direct	13766 Oct 17 01:47	18° ≏ 37'08		transit begin	13767 Sep 15 09:12	7° ≏ 04'37	
morning max el	13766 Oct 31 08:42	26° ჲ 07'02	26°49'58	transit end	13767 Sep 15 13:36	6° £ 54'49	
	13766 Nov 04 00:58	0° M		desc. node	13767 Sep 16 03:04	6° £ 24'44	
asc. node	13766 Nov 23 10:10	29°M49'40		min. Earth dist.	13767 Sep 18 17:41	4° ≙ 06'57	0.59600 AU
	13766 Nov 23 12:20	0° ∡ ¹		morning rise	13767 Sep 22 12:28	1° ≏ 20'14	
morning set	13766 Nov 30 00:43	13° ∡ 15'49		-	13767 Sep 25 08:09	30°R, Mp	
Č				direct	13767 Sep 29 00:03	29° m 22'19	
superior conj	13766 Dec 06 20:34	28° ∡ 18'21	1°35'48		13767 Oct 02 18:42	0∘ ಹ	
minimum elong	13766 Dec 06 19:38	28° × 1021	1°36'48	morning max el	13767 Oct 13 07:35	ა — 7° ჲ 11'10	27°43'36
max. Earth dist.	13766 Dec 07 05:43	29° × 1911	1.31289 AU	morning max of	13767 Oct 13 07:33 13767 Oct 30 13:12	0°ML	2, 1550
max. Earth dist.	13766 Dec 07 03.43	29 x ・0930	1.51207 AU	aco nodo		19°M23'10	
i ·				asc. node	13767 Nov 10 06:58		
evening rise	13766 Dec 13 17:02	13° る 20'04		morning set	13767 Nov 14 06:54	27°M34'18	
	13766 Dec 22 02:32	0° ≈			13767 Nov 15 10:20	0° ∡ 7	

max. Earth dist.	13767 Nov 20 13:51	11° ₰ 16'34	1.31197 AU	superior conj minimum elong	13768 Nov 04 17:48 13768 Nov 04 15:35	27°M29'03 27°M16'46	1°13'47 1°14'19
superior conj	13767 Nov 21 08:02	12° ∡ 57′57	1°27'41		13768 Nov 05 21:08	0° ∡ ¹	
minimum elong	13767 Nov 21 06:16	12° ∡ ⁴48'10	1°28'29	evening rise	13768 Nov 11 11:24	12° ∡ 18′05	
evening rise	13767 Nov 28 00:56	27° ∡ ¹46'43			13768 Nov 20 06:39	0°ರ	
-	13767 Nov 29 01:52	8°0		desc. node	13768 Nov 28 21:13	13° る 55'41	
desc. node	13767 Dec 13 00:07	25° る 56'03		evening max el	13768 Dec 07 01:12	23° る 35'30	24°39'32
	13767 Dec 15 16:27	0° ≈		Č	13768 Dec 17 08:35	0° ≈	
evening max el	13767 Dec 26 11:16	13° ≈ 04'16	26°07'38	retrograde	13768 Dec 20 18:50	0° ≈ 26'53	
retrograde	13768 Jan 09 10:02	20°≈08'33			13768 Dec 24 05:48	30°Rる	
evening set	13768 Jan 15 16:49	18°≈34'46		evening set	13768 Dec 26 03:40	29° る 23'15	
min. Earth dist.	13768 Jan 20 00:32	15°≈58'02	0.58047 AU	min. Earth dist.	13768 Dec 31 13:00	26° る 35'33	0.56193 AU
inferior conj	13768 Jan 23 02:02	13°≈45'21		inferior conj	13769 Jan 02 23:17	25° る 03'49	
minimum elong	13768 Jan 23 10:43	13°≈29'38		minimum elong	13769 Jan 03 06:52	23 3 03 4 7 24° る 51'51	
morning rise	13768 Jan 31 07:34	9°≈20'11	4 12 40	morning rise	13769 Jan 11 12:09	24 3 51 51 20° る 59'40	3 23 16
direct	13768 Feb 02 08:40	9°≈2011 9°≈06'28		direct	13769 Jan 13 20:21	20°る3940 20°る44'43	
asc. node		9°≈58'43		asc. node	13769 Jan 23 03:09	20 3 44 43 24° 3 59'16	
	13768 Feb 06 05:46		10027120				10022122
morning max el	13768 Feb 10 18:44	13°≈14'24	18°36'29	morning max el	13769 Jan 23 15:43	25° ♂ 28'53	19°33'33
	13768 Feb 22 02:21	0°) {			13769 Jan 27 13:59	0°≈	
morning set	13768 Feb 26 19:22	8° ¥ 56′19		morning set	13769 Feb 09 22:21	23°≈26'17	
					13769 Feb 13 04:26	0° ∀	
superior conj	13768 Mar 06 16:49	25° ¥ 57'52					
minimum elong	13768 Mar 06 18:36	26° ∺ 06′10	0°26'52	superior conj	13769 Feb 17 22:30	9° ∺ 28'34	0°54'45
	13768 Mar 08 21:17	0° Y		minimum elong	13769 Feb 18 01:11	9° ∺ 41'47	0°54'49
desc. node	13768 Mar 10 01:27	2° Y 07'59		max. Earth dist.	13769 Feb 24 07:39	21° ¥ 36′50	1.37816 AU
max. Earth dist.	13768 Mar 14 01:10	9° Ƴ 12'27	1.40075 AU	desc. node	13769 Feb 24 21:57	22°) 42′20	
evening rise	13768 Mar 18 04:12	16° Ƴ 14'40		evening rise	13769 Feb 28 00:43	28°) (17′43	
	13768 Mar 26 17:31	9° 8			13769 Mar 01 00:03	0 ° Υ	
	13768 Apr 17 09:14	Π $^{\circ}0$			13769 Mar 20 03:01	9° 8	
evening max el	13768 Apr 21 21:36	4° ∏ 54'43	23°51'13	evening max el	13769 Apr 04 11:13	18° 8 48'10	25°09'14
retrograde	13768 May 02 21:38	11° Ⅱ 22'33		retrograde	13769 Apr 16 11:54	25° 8 47'01	
asc. node	13768 May 04 02:16	11° Ⅱ 16′11		asc. node	13769 Apr 20 23:39	24° 8 20'57	
evening set	13768 May 08 04:56	9° Ⅱ 08'11		evening set	13769 Apr 22 06:51	23° 8 22'07	
min. Earth dist.	13768 May 12 22:06	3° Ⅲ 38'30	0.68726 AU	min. Earth dist.	13769 Apr 26 16:22	18° 8 28'38	0.68045 AU
inferior conj	13768 May 13 15:15	2° Ⅱ 39'55	2°33'27	inferior conj	13769 Apr 27 22:04	16° 8 51'33	2°00'03
minimum elong	13768 May 13 13:15	2° ∏ 46'47	2°32'07	minimum elong	13769 Apr 27 19:56	16° 8 58'35	1°58'43
Č	13768 May 15 15:27	30° ₹ 8		morning rise	13769 May 03 09:19	10° 8 57'00	
morning rise	13768 May 18 21:34	26° 8 36'17		direct	13769 May 07 00:02	9° 8 42'00	
direct	13768 May 23 00:04	25° 8 00'58		morning max el	13769 May 14 01:41	13° 8 34'36	19°20'42
morning max el	13768 May 30 22:24	29° 8 30'17	20°24'48	desc. node	13769 May 24 00:03	26° 8 09'11	
	13768 May 31 10:11	0°II			13769 May 26 15:18	0°II	
desc. node	13768 Jun 06 03:11	6° Ⅱ 43'50		greatest brilliancy	13769 May 26 19:04	0° П 13'54	-0.7m
dese. Hode	13768 Jun 22 08:30	0°50		morning set	13769 Jun 07 17:00	18° Ⅱ 18'37	0.7111
morning set	13768 Jun 28 14:41	9° © 33'25		morning set	13769 Jun 15 06:20	0°95	
max. Earth dist.	13768 Jul 07 18:30	23° © 57'29	1.43919 AU	max. Earth dist.	13769 Jun 20 09:53		1.45226 AU
max. Lartii dist.	13768 Jul 11 12:12	0°Ω	1.43717 AU	max. Lartii dist.	13/0/Jun 20 07.33	0 303 17	1.43220 AC
	13/06 Jul 11 12.12	0 06		superior conj	13769 Jun 24 01:03	13° © 47'43	2012/41
superior conj	13768 Jul 14 00:16	4° Ω 06'28	1057127	minimum elong	13769 Jun 24 01:03	13°957'06	
minimum elong	13768 Jul 14 00:10			minimum clong	13769 Jul 04 02:07	0°Ω	2 13 42
_	13768 Jul 26 14:46	25° Ω 34'03	1 3802		13769 Jul 04 02:07	7° Ω 05'07	
evening rise	13768 Jul 29 03:54	23 8 6 34 03		evening rise	13769 Jul 17 22:23	22°Ω43'32	
1-				asc. node			
asc. node	13768 Jul 31 01:38	3° mp 18'01	10002140		13769 Jul 22 19:04	0° Mp	10014140
evening max el	13768 Aug 12 14:13	21° Mp 46'44	18°02'49	evening max el	13769 Jul 27 04:35	5° Mp 17'30	18°14'49
retrograde	13768 Aug 19 01:50	25° m 08'11		retrograde	13769 Aug 02 13:10	8° m 39'37	
evening set	13768 Aug 21 15:41	24° Tp 35'36		evening set	13769 Aug 05 11:30	7° m 53'03	
inferior conj	13768 Aug 28 03:32	19° m 27'44	1°25'30	inferior conj	13769 Aug 11 10:45	2° Tp 27'56	
minimum elong	13768 Aug 28 05:43	19° Tp 22'10	1°24'27	minimum elong	13769 Aug 11 13:12	2° Tp 20'56	2°15'47
min. Earth dist.	13768 Aug 31 02:48	16° Mp 27'23	0.61899 AU		13769 Aug 13 14:43	30°R Ω	
desc. node	13768 Sep 02 00:36	14° m 42'34		min. Earth dist.	13769 Aug 13 21:34	29° Ω 41'02	0.64055 AU
morning rise	13768 Sep 03 17:14	13° m 23'38		morning rise	13769 Aug 17 13:19	26° Ω 09'57	
direct	13768 Sep 10 09:30	11° m 03'05		desc. node	13769 Aug 19 22:07	24° Ω 38′00	
morning max el	13768 Sep 24 13:03	19° m 02'09	27°58'20	direct	13769 Aug 24 03:57	23° Ω 35′01	
	13768 Oct 03 20:15	0∘ ত			13769 Sep 05 07:37	0° ™	
	13768 Oct 22 10:36	0° M		morning max el	13769 Sep 06 22:45	1° m 34'38	27°36'04
asc. node	13768 Oct 27 03:42	9° ™ 12'19			13769 Sep 28 01:03	0∘ ⊽	
morning set	13768 Oct 28 07:26	11° M 33'39		morning set	13769 Oct 11 23:55	25° ≏ 08'42	
max. Earth dist.	13768 Nov 02 19:06	23°M12'44	1.31644 AU	asc. node	13769 Oct 14 00:22	29° ≙ 12'10	

max. Earth dist.	13769 Oct 14 09:44 13769 Oct 16 17:54	0°ጤ 4°ጤ51'05	1.32633 AU	max. Earth dist.	13770 Sep 29 07:11 13770 Sep 30 20:56	16° ♀ 07'46 19° ♀ 17'32	1.34149 AU
superior conj	13769 Oct 19 23:54	11°M46'28	0°54'13	superior conj	13770 Oct 03 23:54	25° ≏ 43'14	0°29'08
minimum elong	13769 Oct 19 21:42	11° M 34'37	0°54'28	minimum elong	13770 Oct 03 22:25	25° ≏ 35'29	0°29'12
evening rise	13769 Oct 26 22:33	26°M49'41		-	13770 Oct 06 00:49	0° M .	
	13769 Oct 28 10:22	0° ∡		evening rise	13770 Oct 11 08:24	11°ML15'27	
	13769 Nov 15 02:36	0°る			13770 Oct 20 23:38	0° ⊼ ¹	21010150
desc. node	13769 Nov 15 18:25	0°る46'12	22057127	evening max el	13770 Oct 31 02:05	13° х 46′12 16° х 02′39	21°19'50
evening max el retrograde	13769 Nov 18 11:02 13769 Dec 01 14:42	3°る37'18 10°る09'14	22°57'37	desc. node retrograde	13770 Nov 02 15:44 13770 Nov 12 02:16	16° x ' 02'39 19° x ' 43'58	
evening set	13769 Dec 05 16:06	9° る 33'25		evening set	13770 Nov 12 02:10	19° × 26'35	
min. Earth dist.	13769 Dec 12 20:07	6° ප 15'40	0.54925 AU	inferior conj	13770 Nov 23 17:08	15° х 33′20	-5°31'32
inferior conj	13769 Dec 14 01:26	5° ರ 33'47	-5°57'26	minimum elong	13770 Nov 23 09:19	15° ∡ ¹44'20	5°29'16
minimum elong	13769 Dec 14 02:04	5° る 32'53	5°56'22	min. Earth dist.	13770 Nov 24 01:59	15° ∡ °20'53	0.54489 AU
morning rise	13769 Dec 22 13:29	1° る 44'48		morning rise	13770 Dec 01 23:17	11° ∡ ′43′46	
direct	13769 Dec 25 13:47	1° る 23'38		direct	13770 Dec 05 21:19	11° ∡ 10'40	
morning max el	13770 Jan 05 22:38	6° る 49'43	20°53'47	morning max el	13770 Dec 18 15:59		22°33'56
asc. node	13770 Jan 10 00:25	11°る22'43 0°≈		asc. node	13770 Dec 27 21:35	28°♂51'05 0°る	
morning set	13770 Jan 21 06:17 13770 Jan 25 06:32	0 ≈ 8°≈07'47		morning set	13770 Dec 28 15:13 13771 Jan 09 17:31	0 る 22° る 53'16	
morning set	13770 Juli 23 00.32	0 70 07 47		morning set	13771 Jan 13 01:16	0°≈	
superior conj	13770 Feb 01 15:55	23° ≈ 30'37	1°15'30				
minimum elong	13770 Feb 01 18:27	23° ≈ 43'40	1°15'53	superior conj	13771 Jan 16 17:33	7° ≈ 53'29	1°29'21
	13770 Feb 04 20:55	0°)		minimum elong	13771 Jan 16 19:21	8° ≈ 02'59	1°30'05
max. Earth dist.	13770 Feb 06 16:37	3° ¥ 35′23	1.35680 AU	max. Earth dist.	13771 Jan 20 07:48	15° ≈ 25'46	1.33859 AU
evening rise	13770 Feb 10 15:07	11° ∺ 05'17		evening rise	13771 Jan 24 19:49	24°≈27'47	
desc. node	13770 Feb 11 18:30	13°) 11'34 0° ℃		1 1	13771 Jan 27 17:23	0° \ 3° \	
	13770 Feb 21 13:13 13770 Mar 15 11:25	0.8 0.4.		desc. node	13771 Jan 29 15:07 13771 Feb 15 02:12	3° ¥ 30'57 0° ℃	
evening max el	13770 Mar 13 11.23	2° 8 37'51	26°16'55	evening max el	13771 Feb 13 02.12 13771 Feb 28 14:20	0 1 16° Υ 15'19	27°07'01
retrograde	13770 Mar 10 00:31	9° 8 56'42	20 10 33	retrograde	13771 Mar 14 00:43	23° Υ 43'16	27 07 01
evening set	13770 Apr 06 03:01	7° 8 25'24		evening set	13771 Mar 20 15:28	21° Υ 11'15	
asc. node	13770 Apr 07 21:05	5° 8 48'01		min. Earth dist.	13771 Mar 24 13:34	17° Y ′26′08	0.65403 AU
min. Earth dist.	13770 Apr 10 06:11	3° 8 07'07	0.66927 AU	asc. node	13771 Mar 25 18:31	16° Ƴ 05'02	
inferior conj	13770 Apr 12 00:28	0° ႘ 57'32	1°15'52	inferior conj	13771 Mar 26 20:06	14° Ƴ 52'25	0°20'19
minimum elong	13770 Apr 11 22:44	1° 8 02'49	1°14'49	minimum elong	13771 Mar 26 19:32	14° Y 54'00	0°19'56
	13770 Apr 12 19:20	30°₹ Υ		morning rise	13771 Apr 02 01:13	9° Υ 21'03	
morning rise direct	13770 Apr 17 19:20	25° Y 13'39 24° Y 17'15		direct	13771 Apr 04 19:18 13771 Apr 11 03:27	8° Y 40'24 11° Y 58'45	18°01'12
morning max el	13770 Apr 20 23:10 13770 Apr 27 12:03	24 γ 17 13 27° γ 46'21	18°32'32	morning max el	13771 Apr 11 03.27 13771 Apr 23 22:38	0° 8	16 01 12
morning max cr	13770 Apr 29 13:56	0°8	10 32 32	desc. node	13771 Apr 27 17:28	6° 8 09'49	
desc. node	13770 May 10 20:48	16° 8 00'10		morning set	13771 Apr 29 08:26	8° 8 49'04	
morning set	13770 May 18 10:58	27° 8 53'20		-	13771 May 12 11:58	$\Pi^{\circ}0$	
	13770 May 19 19:12	Π °0					
		_		superior conj	13771 May 13 21:31	2° Ⅱ 12'32	
superior conj	13770 Jun 03 10:36	22° I I54'39		minimum elong	13771 May 13 12:26	1° Ⅱ 36'42	
minimum elong max. Earth dist.	13770 Jun 03 05:16 13770 Jun 03 05:04		2°09'27 1.45828 AU	max. Earth dist. evening rise	13771 May 17 01:04 13771 May 29 23:46	7°Щ09°14 27°Щ13'57	1.45679 AU
max. Earm dist.	13770 Jun 03 03:04 13770 Jun 07 23:28	0°95	1.43626 AU	evening rise	13771 May 29 23:40 13771 May 31 18:56	27 π 1337	
evening rise	13770 Jun 19 03:18	17° © 34'24		greatest brilliancy	13771 Jun 12 06:37	17° 5 25'35	-0.7m
C	13770 Jun 26 23:59	$0^{\circ}\Omega$		2	13771 Jun 21 11:19	$0^{\circ}\Omega$	
greatest brilliancy	13770 Jun 27 10:41	0° Ω 41'52	-0.8m	asc. node	13771 Jun 21 16:06	0° Ω 14'05	
asc. node	13770 Jul 04 19:12	11° Ω 44'55		evening max el	13771 Jun 24 00:11	2° Ω 47'06	19°30'49
evening max el	13770 Jul 10 16:38	18° Ω 59'23	18°44'29	retrograde	13771 Jul 01 04:58	6° Ω 49'39	
retrograde	13770 Jul 17 07:15	22° Ω 35'34		evening set	13771 Jul 04 21:25	5° Ω 30'40	
evening set inferior conj	13770 Jul 20 14:23 13770 Jul 26 04:44	21° Ω 33'15 15° Ω 52'58	2°49'55	inferior con:	13771 Jul 09 23:14 13771 Jul 10 06:15	30°R∽ 29°∽36'47	3°07'24
minimum elong	13770 Jul 26 04:44 13770 Jul 26 06:36	$15^{\circ}0.02^{\circ}0.8$ $15^{\circ}0.047^{\circ}0.8$	2°49'55 2°48'48	inferior conj minimum elong	13771 Jul 10 06:15 13771 Jul 10 07:10	29°936'47 29°933'44	3°07'24 3°06'22
min. Earth dist.	13770 Jul 28 01:18	13° Ω 34'37	0.65906 AU	min. Earth dist.	13771 Jul 10 07:10	27° 9 56'58	0.67357 AU
morning rise	13770 Jul 31 21:55	9° Ω 28'56		morning rise	13771 Jul 15 16:26	23° © 12'31	
desc. node	13770 Aug 06 19:35	6° Ω 49'46		direct	13771 Jul 21 15:04	20°536'36	
direct	13770 Aug 07 06:09	6° Ω 49'03		desc. node	13771 Jul 24 16:57	21° © 11'57	
morning max el	13770 Aug 20 10:04		26°43'03	morning max el	13771 Aug 02 20:57	27° © 56'58	25°28'11
	13770 Sep 01 23:39	0° my			13771 Aug 04 19:36	0° Q	
morning set	13770 Sep 20 18:56	0° ጥ		morning set	13771 Aug 26 16:22	0°M) 20°m, 22'50	
morning set	13770 Sep 25 05:18	8° ≏ 11'18		morning set	13771 Sep 07 19:53	20° m 32'59	

desc. node	13775 May 30 12:49 13775 Jun 01 05:28	0°П 2°П15'59		morning set	13776 May 23 10:44 13776 May 29 15:46	0° П 9° П 34'57	
morning set	13775 Jun 19 23:57 13775 Jun 20 09:11	0° © 0° © 35'27		max. Earth dist.	13776 Jun 11 18:50 13776 Jun 12 18:06	0° © 1° © 30'59	1.45567 AU
max. Earth dist.	13775 Jul 01 01:21	17° © 15'01	1.44544 AU				
superior conj	13775 Jul 06 07:27	25° © 40'40	2°06'03	superior conj minimum elong	13776 Jun 15 00:15 13776 Jun 14 23:21	5° © 03'22 4° © 59'49	-2°13'31 2°14'33
minimum elong	13775 Jul 06 13:07	26°503'38		evening rise	13776 Jun 30 00:20	29° © 01'11	2 14 33
	13775 Jul 08 23:05	0°N		- · · · · · · · · · · · · · · · · · · ·	13776 Jun 30 14:50	0°N	
evening rise	13775 Jul 19 16:07	17° Ω 56'49		asc. node	13776 Jul 12 00:42	18° Ω 13′18	
asc. node	13775 Jul 26 03:56	28° Ω 57'08		evening max el	13776 Jul 19 21:03	28° Ω 27'05	18°25'23
	13775 Jul 26 19:04	0° ™			13776 Jul 21 15:07	0° m	
evening max el	13775 Aug 06 07:20	14° m 50'40	18°05'43	retrograde	13776 Jul 26 07:11	1° m 53'28	
retrograde	13775 Aug 12 16:41	18° Mp 11'05		evening set	13776 Jul 29 09:11 13776 Jul 30 20:19	1° ዀ 00'28 30°℞ ብ	
evening set inferior conj	13775 Aug 15 09:59 13775 Aug 21 16:01	17° my 32'59 12° my 17'39	1°49'46	inferior conj	13776 Aug 04 04:14	30 κδι 25° Ω 29'00	2°32'59
minimum elong	13775 Aug 21 18:27	12° m) 11'06	1°48'36	minimum elong	13776 Aug 04 06:30	25° Ω 22'14	2°31'48
min. Earth dist.	13775 Aug 24 10:26	9° m/20'33	0.62837 AU	min. Earth dist.	13776 Aug 06 09:12	22° Ω 52'25	0.64888 AU
morning rise	13775 Aug 28 00:47	6° Mp 06′14		morning rise	13776 Aug 10 02:33	19° Ω 07'39	
desc. node	13775 Aug 28 03:11	6° ™ 01'50		desc. node	13776 Aug 14 00:39	16° Ω 53′27	
direct	13775 Sep 03 16:56	3°M/38'16		direct	13776 Aug 16 15:08	16° Ω 29'05	
morning max el	13775 Sep 17 17:46	11° m 39'55	27°53'05	morning max el	13776 Aug 30 04:16	24° Ω 25'44	27°16'41
	13775 Oct 02 06:28	0∘ 亚			13776 Sep 04 05:01	0° m)	
morning set	13775 Oct 19 17:20 13775 Oct 22 02:33	0°ጤ 4°ጤ45'11		marning gat	13776 Sep 24 16:34 13776 Oct 04 14:42	0° ჲ 18° ჲ 07'13	
asc. node	13775 Oct 22 02.33	5°M02'20		morning set asc. node	13776 Oct 04 14.42 13776 Oct 08 02:33	18 ≥ 07 13 25° ♀ 04'57	
max. Earth dist.	13775 Oct 22 05:38	15°M34'09	1.31997 AU	max. Earth dist.	13776 Oct 08 02:33	27° ⊆ 01'17	1.33214 AU
max. Dartii dist.	13773 000 27 00.30	13 1103 107	1.51777 110	max. Earth dist.	13776 Oct 10 11:49	0°M	1.55211710
superior conj	13775 Oct 29 18:07	20°M56'50	1°06'11				
minimum elong	13775 Oct 29 15:49	20°M44'20	1°06'35	superior conj	13776 Oct 12 21:55	5°M06'17	0°44'15
	13775 Nov 02 20:59	0° ∡ ¹		minimum elong	13776 Oct 12 19:56	4° ™ 55'42	0°44'23
evening rise	13775 Nov 05 13:19	5° ∡ 750′10		evening rise	13776 Oct 20 00:08	20° ™ 19'38	
	13775 Nov 18 02:58	0°る			13776 Oct 24 16:26	0°×7	
desc. node	13775 Nov 23 23:39 13775 Nov 29 19:43	8°る35'55 15°る13'26	23°56'43	desc. node	13776 Nov 09 20:53 13776 Nov 10 06:43	24° ₹ 49'46 25° ₹ 14'08	22°14'37
evening max el retrograde	13775 Dec 13 09:19	13° ろ 13°26 21° ろ 58'35	23-30-43	evening max el	13776 Nov 10 06:43	25° X '14'08	22 14 3 /
evening set	13775 Dec 18 05:22	21° る 07'34		retrograde	13776 Nov 23 00:31	1°る32'59	
min. Earth dist.	13775 Dec 24 06:53	18° ろ 09'09	0.55564 AU	evening set	13776 Nov 26 11:25	1° る 06'41	
inferior conj	13775 Dec 26 06:27	16° ප 57'42	-5°45'13	Č	13776 Nov 29 16:50	30°₽ ⋌	
minimum elong	13775 Dec 26 11:45	16° る 49'43	5°43'36	min. Earth dist.	13776 Dec 04 13:20	27° ∡ °30'30	0.54628 AU
morning rise	13776 Jan 03 19:58	13° る 01'14		inferior conj	13776 Dec 05 02:42	27° ∡ 11'44	-5°54'01
direct	13776 Jan 06 09:38	12° ろ 44'29		minimum elong	13776 Dec 04 23:22	27° ∡ 16′25	5°52'46
morning max el	13776 Jan 16 21:15	17°る46'24	20°04'55	morning rise	13776 Dec 13 12:24	23° x 24'29	
asc. node	13776 Jan 18 05:37 13776 Jan 25 23:49	19°る09'02 0°≈		direct morning max el	13776 Dec 16 21:41 13776 Dec 28 21:57	22° 🖈 58'50 28° 🖈 44'00	2102420
morning set	13776 Feb 03 22:27	0 ≈ 17°≈00'53		morning max er	13776 Dec 28 21:37 13776 Dec 30 04:25	28 メ・44 00 0°る	21 34 20
morning set	13776 Feb 10 06:55	0° ∺		asc. node	13777 Jan 04 02:50	6° ろ 02'09	
					13777 Jan 17 11:59	0° ≈	
superior conj	13776 Feb 11 15:37	2°) 44'31	1°04'24	morning set	13777 Jan 18 08:04	1° ≈ 44'46	
minimum elong	13776 Feb 11 18:21	2° ¥ 58′10	1°04'36				
max. Earth dist.	13776 Feb 17 11:21	14° ∺ 04'15	1.36875 AU	superior conj	13777 Jan 25 12:53	16° ≈ 56′22	1°22'11
desc. node	13776 Feb 20 00:06	18°) 46′18		minimum elong	13777 Jan 25 15:10	17°≈08'15	1°22'44
evening rise	13776 Feb 21 05:31	20° ¥ 59'54 0° Ƴ		max. Earth dist.	13777 Jan 29 22:35	25°≈57'03	1.34861 AU
	13776 Feb 26 09:08 13776 Mar 17 08:31	0°8		evening rise	13777 Jan 31 23:47 13777 Feb 03 02:29	0° 光 4° 光 03'49	
evening max el	13776 Mar 27 17:31		25°39'47	desc. node	13777 Feb 05 02:29	9° ∺ 11'58	
retrograde	13776 Apr 09 03:36	19° 8 11'40	20 05 1,	dese. Hode	13777 Feb 18 05:56	0° Υ	
evening set	13776 Apr 15 03:12	16° 8 43'31		evening max el	13777 Mar 10 07:21	25° Y '48'31	26°40'54
asc. node	13776 Apr 15 02:12	16° 8 45'35		-	13777 Mar 15 05:53	9° 8	
min. Earth dist.	13776 Apr 19 09:50	12° 8 04'57	0.67613 AU	retrograde	13777 Mar 23 10:30	3° 8 12'13	
inferior conj	13776 Apr 20 20:53	10° 8 13'06	1°42'40	evening set	13777 Mar 29 20:17	0° 8 40'13	
minimum elong	13776 Apr 20 18:50	10° 8 19'39	1°41'25	•	13777 Mar 30 15:16	30°₹ Υ	
morning rise	13776 Apr 26 11:02	4° 8 22'44		asc. node	13777 Apr 01 23:37	27° Y 37'38	0.66224 417
direct morning max el	13776 Apr 29 20:54 13776 May 06 16:18	3° 8 16'02 6° 8 57'29	18°58'10	min. Earth dist. inferior conj	13777 Apr 02 21:16 13777 Apr 04 20:42	26° Y 36'04 24° Y 15'19	0.66324 AU 0°53'44
desc. node	13776 May 06 16:18 13776 May 18 02:17	21° 8 53′29	10 30 10	minimum elong	13777 Apr 04 20:42 13777 Apr 04 19:22	24° Y 15'19'17	0°52'55
greatest brilliancy	13776 May 20 00:07	24° 8 45'17	-0.7m	morning rise	13777 Apr 10 19:35	18° Υ 36'10	0 0200
- · · · · · · · · · · · · · · · · · · ·	J//	'		<i>5</i> -	1		

direct	13777 Apr 13 19:09	17° Ƴ 46'46		transit begin	13778 Mar 19 10:05	8° Ƴ 10′29	
morning max el	13777 Apr 20 05:01	21° Ƴ 09'53	18°17'04	transit end	13778 Mar 19 15:39	7° Y 55′23	
	13777 Apr 27 05:46	$_{0\circ}$ 8		asc. node	13778 Mar 19 21:04	7° Ƴ 40'45	
desc. node	13777 May 04 22:59	11° 8 52'59		morning rise	13778 Mar 25 22:54	2° Ƴ 37'58	
morning set	13777 May 09 20:51	19° 8 42'38		direct	13778 Mar 28 13:25	2° Y 02'48	
	13777 May 16 08:09	Π $^{\circ}0$		morning max el	13778 Apr 03 21:42	5° Ƴ 19'40	17°53'01
					13778 Apr 20 12:46	$_{0\circ}$ 8	
superior conj	13777 May 25 08:06	14° Ⅲ 08'40	-2°00'49	morning set	13778 Apr 21 06:15	1° 8 12'51	
minimum elong	13777 May 25 00:21	13° Ⅲ 38′24	2°01'18	desc. node	13778 Apr 21 19:37	2° 8 08'30	
max. Earth dist.	13777 May 26 13:57	16° Ⅱ 05'17	1.45861 AU				
	13777 Jun 04 12:09	0°ಅ		superior conj	13778 May 05 00:37	23° 8 43'13	-1°30'59
evening rise	13777 Jun 10 08:08	9° © 05'49		minimum elong	13778 May 04 15:55	23° 8 08'28	1°30'49
greatest brilliancy	13777 Jun 20 22:51	25°533'48	-0.8m	· ·	13778 May 08 23:42	Π°	
,	13777 Jun 23 21:40	$0^{\circ}\Omega$		max. Earth dist.	13778 May 09 10:11	0° Ⅱ 41'16	1.45403 AU
asc. node	13777 Jun 28 21:32	7° Ω 01'51		evening rise	13778 May 20 22:40	18° Ⅱ 33'18	
evening max el	13777 Jul 03 07:28	12° Ω 12'03	19°02'19	8 21	13778 May 28 11:19	0°ಅ	
retrograde	13777 Jul 10 03:00	15° Ω 57'35	1, 021,	greatest brilliancy	13778 Jun 04 16:21	10°5642'09	-0.6m
evening set	13777 Jul 13 14:08	14° Ω 48'08		asc. node	13778 Jun 15 18:28	25°S13'26	0.0111
inferior conj	13777 Jul 19 01:45	9° Ω 02'03	2°59'02	evening max el	13778 Jun 16 12:38	26°900'15	19°55'11
minimum elong	13777 Jul 19 03:14		2°57'58	evening max er	13778 Jun 22 06:36	0°Ω	17 33 11
min. Earth dist.	13777 Jul 19 03:14 13777 Jul 20 16:10	6° Ω 59'14	0.66580 AU	retrograde	13778 Jun 24 01:29	0° Ω 17'02	
	13777 Jul 24 15:41	2° Ω 37'38	0.00380 AU	retrograde	13778 Jun 25 18:58	30°RS	
morning rise						30 k≊ 28°€50'36	
1	13777 Jul 30 04:41	30°Rூ		evening set	13778 Jun 27 22:13		2010140
direct	13777 Jul 30 20:16	29°958'23		inferior conj	13778 Jul 03 05:36	22°951'12	3°10'49
desc. node	13777 Jul 31 22:04	0° Ω 02'40		minimum elong	13778 Jul 03 06:05	22°549'33	3°09'47
	13777 Jul 31 12:04	0°Ω		min. Earth dist.	13778 Jul 04 05:40	21° © 30'00	0.67840 AU
morning max el	13777 Aug 12 15:20	7° Ω 35'42	26°13'20	morning rise	13778 Jul 08 13:35	16° © 28'13	
	13777 Aug 30 02:12	0° m p		direct	13778 Jul 14 07:24	13° © 56'47	
	13777 Sep 17 02:47	0∘ ऌ		desc. node	13778 Jul 18 19:26	15° © 12'10	
morning set	13777 Sep 17 14:17	0° £ 53'24		morning max el	13778 Jul 26 01:54	21°9500'02	24°52'10
max. Earth dist.	13777 Sep 21 10:13	8° ≏ 10'48	1.34940 AU		13778 Aug 02 20:28	$0 {\circ} \Omega$	
asc. node	13777 Sep 24 23:08	15° ≏ 11'44			13778 Aug 23 07:12	0° m)	
				morning set	13778 Aug 30 21:11	12° m 53'14	
superior conj	13777 Sep 26 18:35	18° ≏ 52'45	0°16'58	max. Earth dist.	13778 Sep 03 10:55	19° m 19'04	1.37077 AU
minimum elong	13777 Sep 26 17:39	18° ≏ 47'55	0°17'01		13778 Sep 09 02:46	0∘ ত	
	13777 Oct 02 02:54	0° M					
evening rise	13777 Oct 04 08:50	4°M41'44		superior conj	13778 Sep 10 04:57	2° ♀ 07'31	-0°14'57
	13777 Oct 18 09:10	0° ∡ ¹		minimum elong	13778 Sep 10 05:55	2° ₽ 12'17	0°14'50
evening max el	13777 Oct 23 02:54	5° ҂ ³37'57	20°42'59	behind sun begin	13778 Sep 10 03:18	1° ≏ 59'28	
desc. node	13777 Oct 27 18:14	9° ∡ 18'43		behind sun end	13778 Sep 10 08:32	2° ≏ 25'07	
retrograde	13777 Nov 03 11:03	11° ∤ 716′10		asc. node	13778 Sep 11 19:41	5° ≏ 18'15	
evening set	13777 Nov 05 19:23	11° ₹ 02'45		evening rise	13778 Sep 18 13:07	18° ≏ 49'27	
inferior conj	13777 Nov 14 18:18	7° ∡ ¹08'34	-5°02'52		13778 Sep 24 06:10	0°M₊	
minimum elong	13777 Nov 14 08:37	7° ∡ ¹22'28	4°59'41	evening max el	13778 Oct 05 13:06	16°ML46'19	19°30'59
min. Earth dist.	13777 Nov 15 19:32	6° ҂ ³32′22	0.54594 AU	desc. node	13778 Oct 14 15:40	21°MJ36'10	
morning rise	13777 Nov 22 21:51	3° ∡ 12'49		retrograde	13778 Oct 15 05:45	21°MJ37'11	
direct	13777 Nov 27 05:52	2° ∡ ³32'35		evening set	13778 Oct 17 02:50	21°ML27'04	
morning max el	13777 Dec 10 11:01	8° ∡ 757'36	23°20'04	inferior conj	13778 Oct 25 19:43	17°ML21'15	-3°27'04
asc. node	13777 Dec 21 23:57	23° х 53′43		minimum elong	13778 Oct 25 11:02		
	13777 Dec 25 12:58	0°ರ		min. Earth dist.	13778 Oct 28 04:49	15°M50'00	0.55478 AU
morning set	13778 Jan 02 19:43	16° පි 30'58		morning rise	13778 Nov 02 17:13	12°M57'09	0.00170110
morning sec	13778 Jan 09 01:17	0° ≈		direct	13778 Nov 07 22:01	11°M56'36	
	13770 3411 07 01.17	0 / 0 .		morning max el	13778 Nov 21 20:45	18°M55'52	25°07'53
superior conj	13778 Jan 09 17:12	1°≈25'54	1022112	morning max er	13778 Dec 01 03:05	0° ∡ 7	23 07 33
minimum elong	13778 Jan 09 17:12	1°≈33'15	1°34'05	asc. node	13778 Dec 01 03:03 13778 Dec 08 20:59	12° ∡ 28'42	
max. Earth dist.	13778 Jan 12 17:28		1.33221 AU	asc. nouc	13778 Dec 08 20:39 13778 Dec 17 17:47	0°る	
			1.33221 AU	marning act		0 8 1° る 13'26	
evening rise	13778 Jan 17 12:20	17°≈39'13		morning set	13778 Dec 18 07:30	1 01320	
desc. node	13778 Jan 23 17:19	29°≈26'03			12770 D 25 01 50	160705106	1027154
	13778 Jan 24 00:50	0° ∀		superior conj	13778 Dec 25 01:59	16° ろ 05'06	1°37'54
	13778 Feb 12 13:46	0° Υ	27921107	minimum elong	13778 Dec 25 02:15	16° る 06'39	1°38'56
evening max el	13778 Feb 20 20:44	9°Υ18'25	2/~21.0/	max. Earth dist.	13778 Dec 26 19:29	19° る 53'00	1.32034 AU
retrograde	13778 Mar 06 11:01	16° Y 45'58			13778 Dec 31 13:01	0° ≈	
evening set	13778 Mar 13 04:44	14°Υ15'56	0.64670.:	evening rise	13779 Jan 01 07:52	1°≈37'35	
min. Earth dist.	13778 Mar 17 01:16	10° Y 43′56	0.64659 AU	desc. node	13779 Jan 10 14:04	19°≈22'23	
inferior conj	13778 Mar 19 12:40	8° Y 03′28			13779 Jan 16 22:45	0° ∀	
minimum elong	13778 Mar 19 12:52	8° Y 02'56	0°06'42	evening max el	13779 Feb 03 07:47	22°) 18′53	27°33'43
transit middle	13778 Mar 19 12:52	8° Y 02'56	0°06'42	retrograde	13779 Feb 17 04:24	29°) 43′18	

evening set	13779 Feb 24 02:00	27°) €22'33		evening max el	13780 Jan 16 14:13	4° ¥ 38'18	27012120
min. Earth dist.	13779 Feb 24 02:00 13779 Feb 27 20:05	24° X 18'14	0.62682 AU	retrograde	13780 Jan 30 13:37	11°) 54'41	27 13 29
	13779 Mar 02 17:48	24 X 18 14 21° X 29'51		-	13780 Jan 30 13.37 13780 Feb 06 08:59	9° ¥ 51'32	
inferior conj		21° X 2931 21° X 23'26	1°17'20	evening set min. Earth dist.	13780 Feb 00 08.39 13780 Feb 10 04:44		0.60518 AU
minimum elong	13779 Mar 02 20:27 13779 Mar 06 18:32	21 ★ 23 26 17° ¥ 57'58	1 1/20		13780 Feb 10 04.44 13780 Feb 13 08:42	4° ¥ 25'41	
asc. node		1/° X 3/′38 16° X 20′50		inferior conj		4° ★ 23'41 4° ★ 13'22	
morning rise	13779 Mar 09 17:35			minimum elong	13780 Feb 13 14:28		2°3/11
direct	13779 Mar 12 00:37	15°) ₹56'25	17046120		13780 Feb 19 19:05	30°R≈	
morning max el	13779 Mar 18 15:26	19°) 18'18	17°46'28	morning rise	13780 Feb 20 23:08	29° ≈ 35'49	
	13779 Mar 26 13:23	0°Υ •••••••••		asc. node	13780 Feb 21 16:01	29° ≈ 26'08	
morning set	13779 Apr 03 16:15	13° Y ′52'54		direct	13780 Feb 23 00:59	29°≈18'29	
desc. node	13779 Apr 08 16:12	22° Y 34'55			13780 Feb 26 04:35	0°) {	
	13779 Apr 13 00:30	0°B		morning max el	13780 Mar 01 06:50	2°) 56′02	17°58'13
				morning set	13780 Mar 16 20:35	27°) €23'42	
superior conj	13779 Apr 15 14:22	4° 8 19'05			13780 Mar 18 06:38	0° Υ	
minimum elong	13779 Apr 15 09:13	3° 8 57'36		desc. node	13780 Mar 25 12:44	13° Ƴ 07'41	
max. Earth dist.	13779 Apr 22 03:43	15° 8 01'02	1.44243 AU			••	
evening rise	13779 Apr 30 10:49	28° 8 03'00		superior conj	13780 Mar 27 04:08	16° Ƴ 01'14	
	13779 May 01 17:14	Π °0		minimum elong	13780 Mar 27 03:00	15° Ƴ 56'17	0°13'03
	13779 May 22 07:19	0 \circ		behind sun begin	13780 Mar 26 22:20	15° Ƴ 35'46	
evening max el	13779 May 30 11:56	9° 5 49'39	21°01'43	behind sun end	13780 Mar 27 07:41	16° Ƴ 16'46	
asc. node	13779 Jun 02 15:32	12° © 36'22		max. Earth dist.	13780 Apr 03 16:48	28° Ƴ 49'44	1.42517 AU
retrograde	13779 Jun 08 00:27	14°9346'50			13780 Apr 04 09:51	9° 8	
evening set	13779 Jun 12 07:29	13° © 03'44		evening rise	13780 Apr 09 11:16	8° 8 10'21	
inferior conj	13779 Jun 17 13:23	6° 9 52'41	3°10'25		13780 Apr 23 20:53	$\Pi^{\circ}0$	
minimum elong	13779 Jun 17 12:52	6° 9 54'27	3°09'20	evening max el	13780 May 12 06:05	23° Ⅲ 39'38	22°18'13
min. Earth dist.	13779 Jun 17 23:48	6° © 16'27	0.68632 AU	asc. node	13780 May 19 12:43	28° Ⅲ 54'40	
morning rise	13779 Jun 22 18:01	0° ഇ 33'59		retrograde	13780 May 21 22:06	29° Ⅲ 20'43	
	13779 Jun 23 10:21	30°RⅡ		evening set	13780 May 26 16:07	27° Ⅲ 22'01	
direct	13779 Jun 27 23:36	28° Ⅱ 16'43		inferior conj	13780 May 31 22:55	21° Ⅲ 01′22	2°59'09
	13779 Jul 03 01:48	0 \circ \odot		minimum elong	13780 May 31 21:34	21° Ⅱ 06′07	2°57'57
desc. node	13779 Jul 05 16:41	1° 9 55'56		min. Earth dist.	13780 May 31 20:19	21° Ⅱ 10′27	0.68947 AU
morning max el	13779 Jul 08 12:34	4° © 33'31	23°23'04	morning rise	13780 Jun 06 02:50	14° Ⅱ 48'55	
Ü	13779 Jul 28 02:03	$0^{\circ}\Omega$		direct	13780 Jun 10 19:44	12° Ⅱ 50′01	
morning set	13779 Aug 12 06:58	23° Ω 57'02		morning max el	13780 Jun 20 01:40	18° Ⅱ 14'31	21°55'05
	13779 Aug 15 20:17	0° m)		desc. node	13780 Jun 21 13:50	19° Ⅱ 48'52	
max. Earth dist.	13779 Aug 16 08:48	0° mp 54'12	1.39426 AU		13780 Jun 29 19:51	0°ಅ	
	101177111111111111111111111111111111111				13780 Jul 20 04:36	0°N	
superior conj	13779 Aug 24 01:19	14° m 42'49	-0°49'47	morning set	13780 Jul 22 16:00	3° £ 55'34	
minimum elong	13779 Aug 24 04:58	14° m 59'46		max. Earth dist.	13780 Jul 28 10:02		1.41716 AU
asc. node	13779 Aug 29 16:15	25° m/21'39	0 .552	man. Darun diot.	15,000 tal 20 10.02	13 0017 10	1.11/10110
use. Houe	13779 Sep 01 01:54	0° <u>م</u>		superior conj	13780 Aug 05 03:17	26° Ω 28'24	-1°24'29
evening rise	13779 Sep 01 01:34	° - 2° - 36'16		minimum elong	13780 Aug 05 09:38	26°Ω56'17	
evening max el	13779 Sep	28° Ω 43'10	18°40'54	minimum ciong	13780 Aug 07 03:11	0° m)	1 24 10
evening max er	13779 Sep 19 21:47	0°M	10 40 54	evening rise	13780 Aug 15 20:22	15° Mp 52'24	
retrograde	13779 Sep 26 17:31	2°M51'29		asc. node	13780 Aug 15 20:22 13780 Aug 15 12:51	15° m) 17'47	
evening set	13779 Sep 28 15:37	2°M38'42		asc. nouc	13780 Aug 13 12:31 13780 Aug 23 17:07	ე∘ <u>ი</u>	
desc. node	13779 Oct 01 13:09	1°M35'26		evening max el	13780 Aug 23 17:07 13780 Aug 31 20:40	0 = 11° £ 20'32	10011157
desc. node	13779 Oct 01 13:09 13779 Oct 04 05:35	30°RΩ		retrograde	13780 Sep 08 00:11	11 = 20 32 14° £ 58'41	16 11 54
inferior conj	13779 Oct 04 03:33	30 K== 28° £ 14'07	1020110	evening set	13780 Sep 08 00.11 13780 Sep 10 04:47	14° ⊆ 38'46	
	13779 Oct 06 10:42 13779 Oct 06 12:41	28° £ 21'36	1°36'10	inferior conj	-	9° £ 53'14	0900126
minimum elong				,	13780 Sep 17 11:26		
min. Earth dist.	13779 Oct 09 19:56	25° £ 54'44	0.57132 AU	minimum elong	13780 Sep 17 11:24	9° £ 53'17	
morning rise	13779 Oct 14 06:20	23° Ω 12'32		transit middle	13780 Sep 17 11:24	9° £ 53'17	0°00'31
direct	13779 Oct 20 04:37	21° Ω 45'57	2.602.0152	transit begin	13780 Sep 17 07:59	10° 2 00'42	
morning max el	13779 Nov 03 10:57	29° Ω 12'40	26°38'53	transit end	13780 Sep 17 14:49	9° Ω 45'50	
	13779 Nov 04 06:12	0°M		desc. node	13780 Sep 17 10:40	9° £ 54'54	0.50065.433
	13779 Nov 24 21:36	0° ₹		min. Earth dist.	13780 Sep 20 18:32	7° ₾ 02'29	0.59265 AU
asc. node	13779 Nov 25 17:57	1°×735'59		morning rise	13780 Sep 24 14:38	4° £ 17'24	
morning set	13779 Dec 02 17:44	15° ₹ 47'28		direct	13780 Oct 01 01:06	2° 2 23′20	27020107
	13779 Dec 09 04:33	0°₹		morning max el	13780 Oct 15 08:38	10° ⊆ 09'32	27~38'06
	10000 - 01 11		100//21	_	13780 Oct 30 17:01	0°M,	
superior conj	13779 Dec 09 13:07	0°る47'49		asc. node	13780 Nov 11 14:48	21°M06'45	
minimum elong	13779 Dec 09 12:20	0°る43'30	1°37'33		13780 Nov 15 23:01	0° ∡ ¹	
max. Earth dist.	13779 Dec 10 02:16	2°る01'10	1.31343 AU	morning set	13780 Nov 16 00:36	0° ⋌ '08'18	
evening rise	13779 Dec 16 10:28	15° る 52'29		max. Earth dist.	13780 Nov 22 10:32	14° ∡ ¹09'17	1.31174 AU
	13779 Dec 23 11:46	0° ≈				=	
desc. node	13779 Dec 28 10:54	8°≈53'41		superior conj	13780 Nov 23 00:42	15° ∡ 28'19	1°29'17
	13780 Jan 12 04:19	0° ∀		minimum elong	13780 Nov 22 23:03	15° ∡ 19'08	1°30'08

evening rise	13780 Nov 29 17:52	0° る 18'11		evening rise	13781 Nov 14 04:03	14° ₹ 49'03	
	13780 Nov 29 14:29	5°0			13781 Nov 21 14:48	8°0	
desc. node	13780 Dec 14 07:51	27° る 50'18		desc. node	13781 Dec 01 04:55	15° る 58'27	
	13780 Dec 15 16:58	0° ≈		evening max el	13781 Dec 10 04:37	26° පි 45'04	24°53'58
evening max el	13780 Dec 28 13:39	16° ≈ 07'42	26°18'41	-	13781 Dec 14 01:54	0° ≈	
retrograde	13781 Jan 11 12:39	23°≈13'18		retrograde	13781 Dec 23 23:14	3° ≈ 38'31	
evening set	13781 Jan 17 21:48	21° ≈ 35'23		evening set	13781 Dec 29 12:10	2°≈30'14	
min. Earth dist.	13781 Jan 22 03:10	18°≈58'46	0.58354 AU	evening sec	13782 Jan 03 07:12	30°R₹	
inferior conj	13781 Jan 25 05:44	16° ≈ 41'19		min. Earth dist.	13782 Jan 03 16:31	• -	0.56440 AU
5							
minimum elong	13781 Jan 25 14:11	16°≈25'40	4°00'35	inferior conj	13782 Jan 06 06:03	28° る 06'55	
morning rise	13781 Feb 02 09:34	12° ≈ 12'43		minimum elong	13782 Jan 06 14:09	27° る 53'53	5°14'22
direct	13781 Feb 04 10:22	11° ≈ 58'47		morning rise	13782 Jan 14 18:21	23° る 59'59	
asc. node	13781 Feb 07 13:27	12° ≈ 33'34		direct	13782 Jan 17 01:00	23° る 45'28	
morning max el	13781 Feb 12 16:02	16° ≈ 02'02	18°29'53	asc. node	13782 Jan 25 10:49	27° る 19'38	
	13781 Feb 22 10:14	0°) €		morning max el	13782 Jan 26 14:51	28° る 23'32	19°23'35
morning set	13781 Feb 28 13:52	11° ¥ 29'31			13782 Jan 28 03:49	0° ≈	
· ·				morning set	13782 Feb 12 15:49	25°≈56'47	
superior conj	13781 Mar 09 15:07	28° ¥ 41'34	0°22'10	. 8	13782 Feb 14 16:21	0° ∀	
minimum elong	13781 Mar 09 16:38	28°\(\frac{1131}{48'36}\)	0°22'02		13/02/00 11 10:21	٠,٨	
minimum clong	13781 Mar 10 08:08	26 γ (46 30	0 22 02	aumorior comi	12792 Eak 20 19.41	12°) €06'26	0°50'59
		0 1 3°Υ43'31		superior conj	13782 Feb 20 18:41	12 X 00 20 12° X 19'15	
desc. node	13781 Mar 12 09:14			minimum elong	13782 Feb 20 21:19		0°51'00
max. Earth dist.	13781 Mar 17 01:41	11° Υ 59'52	1.40413 AU	desc. node	13782 Feb 27 05:44	24° ∺ 18′09	
evening rise	13781 Mar 21 07:56	19° Ƴ 12'35		max. Earth dist.	13782 Feb 27 08:15	24° ∺ 29'37	1.38152 AU
	13781 Mar 28 00:41	9° 8			13782 Mar 02 10:01	$0^{\circ}\mathbf{\Upsilon}$	
	13781 Apr 18 04:43	Π $^{\circ}0$		evening rise	13782 Mar 03 01:28	1° Ƴ 07'46	
evening max el	13781 Apr 24 21:02	7° Ⅱ 31'42	23°39'07		13782 Mar 21 06:25	8° 0	
retrograde	13781 May 05 16:55	13° Ⅱ 53'38		evening max el	13782 Apr 07 10:39	21° 8 24'50	24°58'01
asc. node	13781 May 06 09:59	13° Ⅲ 51′22		retrograde	13782 Apr 19 07:52	28° 8 19'42	
evening set	13781 May 10 22:33	11° ∏ 41'04		asc. node	13782 Apr 23 07:20	27° 8 11'29	
min. Earth dist.	13781 May 15 17:01	6°П06'02	0.68796 AU	evening set	13782 Apr 25 01:10	25° 8 56'00	
	•	5° П 13'39	2°37'36	•	-	20° 8 57'17	0.68179 AU
inferior conj	13781 May 16 08:18			min. Earth dist.	13782 Apr 29 11:41	_	
minimum elong	13781 May 16 06:21	5° Ⅱ 20′20	2°36'17	inferior conj	13782 Apr 30 15:34	19° 8 25'27	2°05'48
	13781 May 20 14:46	30° ₹ 8		minimum elong	13782 Apr 30 13:24	19° 8 32'34	2°04'28
morning rise	13781 May 21 14:06	29° 8 08'50		morning rise	13782 May 06 01:55	13° 8 29'37	
direct	13781 May 25 18:28	27° 8 30'24		direct	13782 May 09 18:20	12° 8 11'43	
	13781 May 31 12:11	Π $^{\circ}0$		morning max el	13782 May 16 22:34	16° 8 08'52	19°29'15
morning max el	13781 Jun 02 20:22	2° Ⅱ 05'54	20°35'32	desc. node	13782 May 26 07:44	27° 8 53'06	
desc. node	13781 Jun 08 10:51	8° Ⅲ 32'29			13782 May 27 19:09	$\Pi^{\circ}0$	
	13781 Jun 23 14:37	0°ಅ		greatest brilliancy	13782 May 29 13:55	2° Ⅱ 35'57	-0.7m
morning set	13781 Jul 02 02:26	12°956'06		morning set	13782 Jun 11 04:16	21° Ⅲ 39'05	*******
max. Earth dist.	13781 Jul 10 18:10	26°535'22	1.43673 AU	morning sec	13782 Jun 16 14:01	0°9	
max. Larm dist.	13781 Jul 12 20:47	0°Ω	1.43073 AC	max. Earth dist.	13782 Jun 23 08:54	10°536'36	1.45072 AU
	13/81 Jul 12 20.4/	0 86		max. Earm dist.	13/82 Juli 23 08.34	10 930 30	1.43072 AU
	12701 I1 17 06.46	70 0 15142	1054101		12792 I 27 10.42	1796-04126	2011122
superior conj	13781 Jul 17 06:46	7° Ω 15'43		superior conj	13782 Jun 27 10:42	17°504'26	
minimum elong	13781 Jul 17 13:55	7° Ω 45'32	1°54′20	minimum elong	13782 Jun 27 14:06	17°©17'57	2°12'29
evening rise	13781 Jul 29 15:01	28° Ω 26′30			13782 Jul 05 10:28	$0^{\circ}\Omega$	
	13781 Jul 30 12:20	O° m y		evening rise	13782 Jul 11 13:05	10° Ω 06'41	
asc. node	13781 Aug 02 09:29	5° Mp 02'30		asc. node	13782 Jul 20 06:11	24° Ω 30'56	
evening max el	13781 Aug 15 09:55	24° m 28'03	18°02'36		13782 Jul 23 18:55	0° m	
retrograde	13781 Aug 21 22:48	27° m 50'42		evening max el	13782 Jul 30 00:21	7° ™ 56'17	18°11'52
evening set	13781 Aug 24 11:25	27° mp 19'58		retrograde	13782 Aug 05 08:51	11° m) 17'37	
inferior conj	13781 Aug 31 01:26	22° m/ 14'38	1°15'49	evening set	13782 Aug 08 05:51	10°m/33'19	
minimum elong	13781 Aug 31 03:28	22° m 09'34	1°14'52	inferior conj	13782 Aug 14 06:44	5° m 10'34	2°10'24
min. Earth dist.	13781 Sep 03 02:08	19° m) 14'06	0.61559 AU	minimum elong	13782 Aug 14 09:13	5° m 03'36	
desc. node	13781 Sep 03 02:08	18° Mp 05'06	0.01337 AC	min. Earth dist.	13782 Aug 16 19:33	2°M)20'32	
	-			IIIII. Eartii tist.	-	-•	0.03740 AU
morning rise	13781 Sep 06 16:54	16° Mp 13'28			13782 Aug 19 03:31	30°R€	
direct	13781 Sep 13 08:49	13° m 55'58	25050111	morning rise	13782 Aug 20 10:51	28° Ω 53'55	
morning max el	13781 Sep 27 13:14	21° To 53'44	27°58'41	desc. node	13782 Aug 22 05:41	27° Ω 41'50	
	13781 Oct 04 15:57	0∘ ⊽		direct	13782 Aug 27 01:58	26° Ω 20'37	
	13781 Oct 23 20:15	0° M			13782 Sep 05 00:09	0° m/	
asc. node	13781 Oct 29 11:31	10°M53'56		morning max el	13782 Sep 09 22:37	4° ™ 21'10	27°41'33
morning set	13781 Oct 31 02:04	14°M10'42			13782 Sep 29 06:43	0∘ ⊽	
max. Earth dist.	13781 Nov 05 16:33	26°M08'03	1.31544 AU	morning set	13782 Oct 14 19:54	27° ≏ 49'38	
				-	13782 Oct 15 21:51	0°M	
superior conj	13781 Nov 07 10:49	0° ∡ 00'47	1°16'17	asc. node	13782 Oct 16 08:10	0°M52'23	
minimum elong	13781 Nov 07 08:38	29°M48'42		max. Earth dist.	13782 Oct 19 16:34	7° M 49'34	1.32453 AU
Ciong	13781 Nov 07 08:38	2) 110 4 042 0° √ 1	1 1000	Lui tii tiist.	15,02 OCC 17 10.54	, IIV 17 5T	1.52 155 710
	25,011107 07 10.40	~ ^					

superior conj	13782 Oct 22 17:33	14°M20'16	0°57'34	superior conj	13783 Oct 06 18:36	28° ≏ 20'13	
minimum elong	13782 Oct 22 15:18	14°ML08'08	0°57'50	minimum elong	13783 Oct 06 16:57	28° ≙ 11'36	0°33'22
evening rise	13782 Oct 29 15:10	29°M20'36			13783 Oct 07 13:35	0° M ₊	
	13782 Oct 29 22:32	0° ∡ ′		evening rise	13783 Oct 14 01:19	13°M47'06	
	13782 Nov 15 17:00	0°ਰ			13783 Oct 22 05:20	0° ∡ ¹	
desc. node	13782 Nov 18 02:05	3° る 00'27		evening max el	13783 Nov 03 04:03	16° ∡ 753'34	21°33'34
evening max el	13782 Nov 21 14:23	6°₹48'14	23°12'52	desc. node	13783 Nov 04 23:21	18° ∡ ³32'38	
retrograde	13782 Dec 04 21:02	13° ♂ 24'10		retrograde	13783 Nov 15 09:22	22° ∡ 57′23	
evening set	13782 Dec 09 03:26	12° ⋜ 44'36		evening set	13783 Nov 18 07:04	22° ∡ ³38′08	
min. Earth dist.	13782 Dec 16 00:04		0.55067 AU	inferior conj	13783 Nov 27 03:00	18° ∡ ¹44'49 −	
inferior conj	13782 Dec 17 10:34	8° ප 42'36		minimum elong	13783 Nov 26 20:10	18° ∡ ¹54'24	
minimum elong	13782 Dec 17 12:32	8° る 39'44	5°54'54	min. Earth dist.	13783 Nov 27 06:07	18° ∡ ¹40'27	0.54492 AU
morning rise	13782 Dec 25 23:14	4° る 52'12		morning rise	13783 Dec 05 10:03	14° ∡ ¹56′23	
direct	13782 Dec 28 20:31	4° る 32'24		direct	13783 Dec 09 04:39	14° ∡ ¹25'25	
morning max el	13783 Jan 08 23:56	9° ප 52'02	20°40'29	morning max el	13783 Dec 21 19:03	20° ∡ ¹28'31	22°18'08
asc. node	13783 Jan 12 08:05	13° පි 31'04			13783 Dec 29 15:39	0°₹	
	13783 Jan 22 16:00	0° ≈		asc. node	13783 Dec 30 05:16	0° ප 50'36	
morning set	13783 Jan 27 23:20	10° ≈ 36′20		morning set	13784 Jan 12 10:01	25° පි 21'29	
					13784 Jan 14 14:21	0° ≈	
superior conj	13783 Feb 04 10:33	26° ≈ 04'00	1°12'47				
minimum elong	13783 Feb 04 13:10	26° ≈ 17′20	1°13'08	superior conj	13784 Jan 19 11:09	10° ≈ 24′17	1°27'39
	13783 Feb 06 09:14	0° ∀		minimum elong	13784 Jan 19 13:05	10° ≈ 34'30	1°28'22
max. Earth dist.	13783 Feb 09 16:21	6° ∺ 29'29	1.35979 AU	max. Earth dist.	13784 Jan 23 06:19	18° ≈ 19′24	1.34101 AU
evening rise	13783 Feb 13 13:21	13°) 48′39		evening rise	13784 Jan 27 16:10	27° ≈ 06'40	
desc. node	13783 Feb 14 02:17	14°) 48′01			13784 Jan 29 04:22	0°) €	
	13783 Feb 22 20:53	0° Y		desc. node	13784 Jan 31 22:53	5°) €09'13	
	13783 Mar 16 02:38	9° 8			13784 Feb 16 04:27	0° Y	
evening max el	13783 Mar 21 00:07	5° 8 14'50	26°07'47	evening max el	13784 Mar 02 13:43	18° Ƴ 55'01	27°01'02
retrograde	13783 Apr 02 18:00	12° 8 31'55		retrograde	13784 Mar 15 22:34	26° Y 22'31	
evening set	13783 Apr 08 22:17	10° 8 01'08		evening set	13784 Mar 22 12:03	23° Y 50'19	
asc. node	13783 Apr 10 04:43	8° 8 52'13		min. Earth dist.	13784 Mar 26 10:49	20° Y 00′18	0.65649 AU
min. Earth dist.	13783 Apr 13 02:16	5° 8 37'45	0.67117 AU	asc. node	13784 Mar 27 02:09	19° Ƴ 17'00	
inferior conj	13783 Apr 14 18:43	3° 8 32'22	1°23'19	inferior conj	13784 Mar 28 15:33	17° Ƴ 29'33	0°29'33
minimum elong	13783 Apr 14 16:53	3° 8 38'04	1°22'12	minimum elong	13784 Mar 28 14:45	17° Ƴ 31'49	0°29'02
	13783 Apr 17 19:55	30° ŖƳ		morning rise	13784 Apr 03 18:57	11° Y 56'05	
morning rise	13783 Apr 20 12:17	27° Y 46'50		direct	13784 Apr 06 14:24	11° Y 13'18	
direct	13783 Apr 23 17:37	26° Ƴ 47'55		morning max el	13784 Apr 12 22:48	14° Ƴ 32'39	18°04'48
	13783 Apr 29 23:41	9° 8			13784 Apr 24 04:58	9° 8	
morning max el	13783 Apr 30 08:00	0° 8 19'52	18°38'40	desc. node	13784 Apr 29 01:13	7° 8 47'55	
desc. node	13783 May 13 04:31	17° 8 40'39		morning set	13784 May 01 12:03	11° 8 46'46	
	13783 May 21 02:38	$\Pi^{\circ}0$			13784 May 12 20:15	$\Pi^{\circ}0$	
morning set	13783 May 21 18:49	1° Ⅱ 03'20					
max. Earth dist.	13783 Jun 06 03:29	25° Ⅱ 03'06	1.45783 AU	superior conj	13784 May 16 07:20	5° Ⅱ 27'47	-1°49'50
				minimum elong	13784 May 15 22:23	4° ∏ 52'34	1°50'00
superior conj	13783 Jun 06 21:41	26° Ⅱ 14'10	-2°10'35	max. Earth dist.	13784 May 18 23:21	9° ∏ 38'42	1.45751 AU
minimum elong	13783 Jun 06 17:26	25° Ⅱ 57'34	2°11'29	evening rise	13784 Jun 01 09:53	0°530'09	
	13783 Jun 09 07:27	0ංම			13784 Jun 01 02:04	0ංම	
evening rise	13783 Jun 22 10:45	20°5944'54		greatest brilliancy	13784 Jun 14 01:21	19° 5 48'59	-0.7m
	13783 Jun 28 06:09	$0^{\circ}\Omega$			13784 Jun 21 06:14	$0^{\circ}\Omega$	
greatest brilliancy	13783 Jun 29 19:56	2° Ω 29'30	-0.9m	asc. node	13784 Jun 22 23:52	2° Ω 10′59	
asc. node	13783 Jul 07 02:58	13° Ω 36′18		evening max el	13784 Jun 25 21:15	5° Ω 23'56	19°22'54
evening max el	13783 Jul 13 12:52	21° Ω 36'38	18°38'58	retrograde	13784 Jul 02 23:25	9° £ 21′39	
retrograde	13783 Jul 20 02:07	25° Ω 10′00		evening set	13784 Jul 06 14:27	8° Ω 05′13	
evening set	13783 Jul 23 07:52	24° Ω 10′13		inferior conj	13784 Jul 11 23:55	2° Ω 13'25	3°05'38
inferior conj	13783 Jul 28 23:19	18° Ω 32′10	2°45'58	minimum elong	13784 Jul 12 01:00	2° Ω 09'52	3°04'34
minimum elong	13783 Jul 29 01:19	18° £ 26′01	2°44'49	min. Earth dist.	13784 Jul 13 08:16	0° Ω 27'17	0.67176 AU
min. Earth dist.	13783 Jul 30 22:06	16° Ω 08'39	0.65654 AU		13784 Jul 13 16:43	30°R∽	
morning rise	13783 Aug 03 17:46	12° Ω 08'31		morning rise	13784 Jul 17 11:00	25°5648'56	
desc. node	13783 Aug 09 03:10	9° £ 32′18		direct	13784 Jul 23 11:18	23° © 11'48	
direct	13783 Aug 10 03:13	9° £ 28'37		desc. node	13784 Jul 26 00:34	23° © 36'06	
morning max el	13783 Aug 23 09:50	17° Ω 19'32	26°52'31		13784 Aug 04 05:56	0° Ω	
2	13783 Sep 03 00:00	0° m)		morning max el	13784 Aug 04 20:45	0° Ω 37'02	25°40'14
	13783 Sep 22 04:24	0∘ ⊽		<i>3</i>	13784 Aug 26 22:50	0° m)	
morning set	13783 Sep 28 03:08	10° £ 57'22		morning set	13784 Sep 09 20:12	23° m/ 25'26	
max. Earth dist.	13783 Oct 02 07:11	19° £ 08'04	1.33890 AU	<i>3 ,</i>	13784 Sep 13 09:10	0° ⊽	
asc. node	13783 Oct 02 07:11 13783 Oct 03 04:45	20° ♀ 57'00		max. Earth dist.	13784 Sep 13 11:46		1.35811 AU
						. —	

13788 May 30 09:59

 $0^{\circ}\Pi$

13787 Jun 27 23:08

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20°Y18'10

13790 Apr 16 13:55

direct

13789 May 24 16:44

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	12700 4 22 00.27	2200042102	10022100		12701 Mar. 20 17.00	5° Ƴ 13'56	
morning max el	13790 Apr 23 00:37	23° Y 43'03	18°22'08	morning rise	13791 Mar 28 17:08	5° γ 13'56 4° Υ 36'55	
desc. node	13790 Apr 28 06:33 13790 May 07 06:47	0° と 13° と 32'29		direct	13791 Mar 31 08:54	4° γ 36'55 7° γ 53'58	17°55'33
morning set	13790 May 07 00.47 13790 May 13 02:52	22° 8 47'09		morning max el	13791 Apr 06 16:57 13791 Apr 21 20:49	0° ႘	17 33 33
morning set	13790 May 17 16:10	0°П		morning set	13791 Apr 21 20:49 13791 Apr 24 08:10	4° 8 05'33	
	13/90 Way 17 10.10	υщ		desc. node	13791 Apr 24 03:10	3° 8 45'59	
superior conj	13790 May 28 18:54	17° Ⅱ 26'41	-2°03'58	dese. Hode	15771 Apr 24 05.20	3 04337	
minimum elong	13790 May 28 11:53	16° ∏ 59'18		superior conj	13791 May 08 09:11	26° 8 54'46	-1°36'18
max. Earth dist.	13790 May 29 12:33		1.45867 AU	minimum elong	13791 May 08 00:14	26° 8 19'11	
	13790 Jun 05 19:59	0° ©		Č	13791 May 10 07:58	0°II	
evening rise	13790 Jun 13 16:55	12° © 19'12		max. Earth dist.	13791 May 12 08:49	3° Ⅱ 12'14	1.45514 AU
greatest brilliancy	13790 Jun 23 12:56	27° 5 40'12	-0.8m	evening rise	13791 May 24 09:15	21° Ⅲ 50′15	
	13790 Jun 25 01:32	$0^{\circ}\Omega$			13791 May 29 17:30	0 \circ \odot	
asc. node	13790 Jul 01 05:15	8° Ω 54'57		greatest brilliancy	13791 Jun 07 16:46	13° © 25'19	-0.6m
evening max el	13790 Jul 06 04:02	14° Ω 48'57	18°55'44	asc. node	13791 Jun 18 02:12	27° © 13'14	
retrograde	13790 Jul 12 21:39	18° Ω 30′54		evening max el	13791 Jun 19 10:04	28° © 37'07	19°46'20
evening set	13790 Jul 16 07:23	17° Ω 23'56			13791 Jun 20 21:33	$0^{\circ}\Omega$	
inferior conj	13790 Jul 21 19:53	11° Ω 39'46	2°56'05	retrograde	13791 Jun 26 19:58	2° Ω 48'48	
minimum elong	13790 Jul 21 21:31	11° Ω 34'34	2°54'58	evening set	13791 Jun 30 15:11	1° Ω 24'58	
min. Earth dist.	13790 Jul 23 12:26	9° Ω 31′26	0.66353 AU		13791 Jul 02 05:50	30°ષ્દ્	
morning rise	13790 Jul 27 10:55	5°Ω15'26		inferior conj	13791 Jul 05 23:00	25° © 27'25	3°09'50
direct	13790 Aug 02 16:51	2° Ω 35'52		minimum elong	13791 Jul 05 23:39	25° © 25'15	3°08'48
desc. node	13790 Aug 03 05:42	2° Ω 36'55		min. Earth dist.	13791 Jul 07 01:11	23°S59'38	0.67682 AU
morning max el	13790 Aug 15 15:07	10° Ω 17'01	26°24'09	morning rise	13791 Jul 11 07:43	19°503'51	
	13790 Aug 31 05:51	0° Mp		direct	13791 Jul 17 03:12	16°930'47	
	13790 Sep 18 13:12	0° ⊽		desc. node	13791 Jul 21 03:06	17°530'16	25904157
morning set	13790 Sep 20 13:06	3° Ω 41'52	1 24655 ATT	morning max el	13791 Jul 29 01:52	23°540'23	25°04'57
max. Earth dist. asc. node	13790 Sep 24 11:01 13790 Sep 27 06:58	11° £ 12'21 16° £ 50'55	1.34655 AU		13791 Aug 03 17:04 13791 Aug 24 14:50	0° N 0° n	
asc. Houe	13/90 Sep 2/ 00.38	10 = 30 33		morning set	13791 Aug 24 14:30 13791 Sep 02 22:48	15° Mp 49'35	
superior conj	13790 Sep 29 13:54	21° ≏ 31'29	0°21'25	max. Earth dist.	13791 Sep 02 22:48 13791 Sep 06 12:36		1.36741 AU
minimum elong	13790 Sep 29 12:45	21° ⊆ 25'31	0°21'29	max. Lartii dist.	13791 Sep 10 14:14	ე∘ <u>ი</u>	1.50741 AC
minimum ciong	13790 Oct 03 15:20	0°M	0 21 2)		13771 бер 10 14.14	· –	
evening rise	13790 Oct 07 02:01	7° M .14'16		superior conj	13791 Sep 13 02:01	4° ≏ 51'30	-0°09'53
evening noe	13790 Oct 19 06:45	0° ∡ 7		minimum elong	13791 Sep 13 02:39	4° £ 54'35	0°09'47
evening max el	13790 Oct 26 04:00	8° ∡ 742'28	20°55'30	behind sun begin	13791 Sep 12 21:27	4° £ 28'58	
desc. node	13790 Oct 30 01:50	11° ∡ ¹56'38		behind sun end	13791 Sep 13 07:51	5° ≏ 20'14	
retrograde	13790 Nov 06 17:53	14° ∡ ¹27'47		asc. node	13791 Sep 14 03:31	6° ჲ 57'42	
evening set	13790 Nov 09 05:15	14° ∡ °13′10		evening rise	13791 Sep 21 07:08	21° ≏ 24'31	
inferior conj	13790 Nov 18 03:48	10° ∡ 19'30	-5°14'08		13791 Sep 25 14:56	0° M	
minimum elong	13790 Nov 17 18:36	10° ∡ ³32'34	5°11'15	evening max el	13791 Oct 08 12:02	19°M43'26	19°40'17
min. Earth dist.	13790 Nov 18 23:21	9° ∡ ′51'41	0.54538 AU	desc. node	13791 Oct 16 23:15	24°M35'01	
morning rise	13790 Nov 26 08:14	6° ₹ ¹26'25		retrograde	13791 Oct 18 10:39	24° M 41'21	
direct	13790 Nov 30 12:48	5° ≯ 48'50		evening set	13791 Oct 20 08:20	24°M31'14	
morning max el	13790 Dec 13 14:30	12° ∡ *08'09	23°03'50	inferior conj	13791 Oct 29 02:56	20°M27'53	-3°43'05
asc. node	13790 Dec 24 07:45	25° ∡ 50′27		minimum elong	13791 Oct 28 17:44	20°M42'19	3°39'15
	13790 Dec 26 19:36	0° ろ		min. Earth dist.	13791 Oct 31 08:11	19° ™ .04'23	0.55291 AU
morning set	13791 Jan 05 12:13	18° る 59'25		morning rise	13791 Nov 06 01:20	16°M08'41	
	13791 Jan 10 14:45	0° ≈		direct	13791 Nov 11 03:11	15°M11'28	24052122
	12701 I 12 10:20	290 05 5140	1021157	morning max el	13791 Nov 25 00:13	22°M.06'33 0°⊀	24°52'33
superior conj minimum elong	13791 Jan 12 10:30 13791 Jan 12 12:01	3°≈55'49 4°≈03'59	1°31'57 1°32'47	asc. node	13791 Dec 01 22:38	0° x ′ 14° x ′19'40	
max. Earth dist.	13791 Jan 12 12:01 13791 Jan 15 15:40	4 ≈03 39 10°≈44'56	1.33436 AU	asc. node	13791 Dec 11 04:49 13791 Dec 19 06:10	14 メ ・1940	
evening rise	13791 Jan 20 08:02	10 ≈44 30 20°≈16'16	1.55450 AU	morning set	13791 Dec 19 00:10 13791 Dec 21 00:07	3° る 42'50	
evening rise	13791 Jan 25 10:48	0° ₩		morning set	13/71 Dec 21 00.07	3 04230	
desc. node	13791 Jan 26 01:04	1° ¥ 05'02		superior conj	13791 Dec 27 18:46	18° ට 34'16	1°37'35
dese. node	13791 Feb 13 11:28	0°Υ		minimum elong	13791 Dec 27 19:13	18° පි 36'44	
evening max el	13791 Feb 23 20:12	11° Y ′59'19	27°16'41	max. Earth dist.	13791 Dec 29 16:36		1.32171 AU
retrograde	13791 Mar 09 09:09	19° Y ′27'10	-		13792 Jan 02 01:48	0°≈	
evening set	13791 Mar 16 01:58	16° Y 56'16		evening rise	13792 Jan 04 02:18	4°≈11'50	
min. Earth dist.	13791 Mar 19 23:00	13° Y 19'49	0.64927 AU	desc. node	13792 Jan 12 21:48	21° ≈ 04'37	
inferior conj	13791 Mar 22 08:45	10° Ƴ 41'26	0°03'12		13792 Jan 18 03:58	0° ∀	
minimum elong	13791 Mar 22 08:39	10° Ƴ 41'41	0°03'04	evening max el	13792 Feb 06 07:44	25°) €05'26	27°33'55
transit middle	13791 Mar 22 08:39	10° Ƴ 41'41	0°03'04		13792 Feb 12 11:56	0° Y	
transit begin	13791 Mar 22 05:40	10° Ƴ 49'56		retrograde	13792 Feb 20 03:55	2° Y 31'09	
transit end	13791 Mar 22 11:38	10° Ƴ 33′28		evening set	13792 Feb 27 01:09	0° Y ′08′29	
asc. node	13791 Mar 22 04:45	10° Y ′52′26			13792 Feb 27 06:02	30°₽)	

min. Earth dist.	13792 Mar 01 19:22	270¥00'26	0.62986 AU	min. Earth dist.	13793 Feb 12 05:39	0°¥56'47	0.60841 AU
inferior conj	13792 Mar 04 15:46	24° X 12'12		inferior conj	13793 Feb 12 03:39 13793 Feb 15 09:00	7° ∺ 13′27	
minimum elong	13792 Mar 04 17:59	24° X 06'43	1°05'58	minimum elong	13793 Feb 15 14:17	7° ₩ 01'57	
asc. node	13792 Mar 04 17:39	21° X 03'51	1 03 30	morning rise	13793 Feb 22 21:15	2° ¥ 20′25	2 2441
morning rise	13792 Mar 11 13:25	19°) € 00'34		asc. node	13793 Feb 22 23:45	2°)(18'41	
direct	13792 Mar 13 21:22	18°) 34'50		direct	13793 Feb 24 23:38	2° \ 02'17	
morning max el	13792 Mar 20 10:47	21° X 55'29	17°46'17	morning max el	13793 Mar 04 02:43	5°) 36'58	17°55'13
	13792 Mar 26 17:11	0°Υ	-,,	morning set	13793 Mar 19 16:53	0° Υ '01'20	-,
morning set	13792 Apr 05 14:54	16° Ƴ 36'43			13793 Mar 19 16:35	0° Υ	
desc. node	13792 Apr 10 00:00	24° Y ′11'12		desc. node	13793 Mar 27 20:31	14° Υ '43'20	
	13792 Apr 13 09:50	0°8					
	1	_		superior conj	13793 Mar 30 05:39	18° Ƴ 53'31	-0°18'50
superior conj	13792 Apr 17 19:24	7° 8 21'00	-0°58'29	minimum elong	13793 Mar 30 03:59	18° Ƴ 46'16	0°18'48
minimum elong	13792 Apr 17 13:36	6° 8 56'59	0°58'12	S	13793 Apr 05 18:52	0° ႘	
max. Earth dist.	13792 Apr 24 02:40	17° 8 34'52	1.44454 AU	max. Earth dist.	13793 Apr 06 16:30	1° 8 29'14	1.42808 AU
	13792 May 02 00:39	0°II		evening rise	13793 Apr 12 18:37	11° 8 17'34	
evening rise	13792 May 02 20:41	1° Ⅱ 17′07		C	13793 Apr 25 01:54	0°II	
C	13792 May 22 08:07	0ಂತಾ		evening max el	13793 May 15 05:07	26° Ⅱ 16'48	22°06'23
evening max el	13792 Jun 01 10:15	12° © 26'46	20°51'04	C	13793 May 19 14:12	0° ©	
asc. node	13792 Jun 03 23:16	14°9544'49		asc. node	13793 May 21 20:26	1°9514'05	
retrograde	13792 Jun 09 19:00	17° © 17'33		retrograde	13793 May 24 16:50	1°951'03	
evening set	13792 Jun 14 00:24	15° © 37'01		evening set	13793 May 29 09:13	29° Ⅱ 54'36	
inferior conj	13792 Jun 19 06:22	9° 5 27'39	3°11'09	<i>8</i>	13793 May 29 06:37	30°R Ⅱ	
minimum elong	13792 Jun 19 06:00	9° © 28'55	3°10'05	inferior conj	13793 Jun 03 15:45	23° Ⅲ 35′22	3°01'29
min. Earth dist.	13792 Jun 19 18:50	8° © 44'29	0.68547 AU	minimum elong	13793 Jun 03 14:31	23° Ⅲ 39'43	3°00'19
morning rise	13792 Jun 24 11:21	3° 5 08'05		min. Earth dist.	13793 Jun 03 15:05	23° II 37'42	0.68937 AU
direct	13792 Jun 29 18:50	0°9548'17		morning rise	13793 Jun 08 19:37	17° Ⅲ 21'55	
desc. node	13792 Jul 07 00:22	4° © 01'35		direct	13793 Jun 13 14:27	15° Ⅲ 20′03	
morning max el	13792 Jul 10 12:21	7° © 12'41	23°36'21	morning max el	13793 Jun 23 00:47	20° Ⅱ 52'03	22°07'44
C	13792 Jul 28 06:44	$0^{\circ}\Omega$		desc. node	13793 Jun 23 21:31	21° Ⅱ 45′16	
morning set	13792 Aug 14 11:59	27° Ω 02'35			13793 Jun 30 19:38	0° ©	
S	13792 Aug 16 05:42	0° m)			13793 Jul 21 12:01	$0^{\circ}\Omega$	
max. Earth dist.	13792 Aug 18 10:15		1.39077 AU	morning set	13793 Jul 26 00:45	7° Ω 10'59	
	Č	•		max. Earth dist.	13793 Jul 31 10:45	16° Ω 03'43	1.41393 AU
superior conj	13792 Aug 26 00:45	17° m 33'32	-0°44'25				
minimum elong	13792 Aug 26 03:58	17° m) 48'35	0°44'12	superior conj	13793 Aug 08 05:45	29° Ω 27'38	-1°19'25
minimum elong asc. node	13792 Aug 26 03:58 13792 Aug 31 00:04		0°44'12	superior conj minimum elong	13793 Aug 08 05:45 13793 Aug 08 11:46	29° Ω 27'38 29° Ω 54'12	
=		17° My 48'35 27° My 01'54 0° <u>∩</u>	0°44'12		•	29° Ω 54'12	
=	13792 Aug 31 00:04 13792 Sep 01 12:47	27° Mp 01'54	0°44'12		13793 Aug 08 11:46		
asc. node	13792 Aug 31 00:04	27° m 01'54 0° <u>Ω</u>	0°44'12	minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04	29° Ω 54'12 0° m 16° m 59'46	
asc. node	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47	27° № 01'54 0° <u>Ω</u> 5° <u>Ω</u> 15'02	0°44'12 18°46'56	minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40	29° Ω 54'12 0° m	
asc. node	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29	27° ന് 01'54 0° <u>റ</u> 5° <u>റ</u> 15'02 0° സ്		minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32	29° Q 54'12 0° Th 16° Th 59'46 18° Th 36'48	
asc. node evening rise evening max el	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35	27° M 01'54 0° Ω 5° Ω 15'02 0° M 1° M 33'48		minimum elong asc. node evening rise	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53	29° Ω 54'12 0° m 16° m 59'46 18° m 36'48 0° Ω	1°19'12
asc. node evening rise evening max el retrograde	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23	27° m 01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m 1° m 33'48 5° m 47'29		minimum elong asc. node evening rise evening max el retrograde	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09	29° £ 54'12 0° m 16° m 59'46 18° m 36'48 0° ⊆ 14° ⊆ 06'28	1°19'12
asc. node evening rise evening max el retrograde evening set desc. node	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54	27° m01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m. 1° m.33'48 5° m.47'29 5° m.35'22 4° m.54'15	18°46'56	minimum elong asc. node evening rise evening max el	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57	29° \Omega 54'12 0° m 16° m 59'46 18° m 36'48 0° Ω 14° Ω 06'28 17° Ω 48'08	1°19'12
evening rise evening max el retrograde evening set desc. node inferior conj	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44	27° m 01'54 0° <u>n</u> 5° <u>n</u> 15'02 0° m. 1° m 33'48 5° m 47'29 5° m 35'22	18°46'56 -1°54'17	minimum elong asc. node evening rise evening max el retrograde evening set	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13	29° \Pi 54'12 0° \Pi 16° \Pi 59'46 18° \Pi 36'48 0° \Pi 14° \Pi 06'28 17° \Pi 48'08 17° \Pi 29'28	1°19'12 18°14'55
asc. node evening rise evening max el retrograde evening set desc. node	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41	27° m 01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m 1° m 33'48 5° m 47'29 5° m 35'22 4° m 54'15 1° m 13'59	18°46'56 -1°54'17	minimum elong asc. node evening rise evening max el retrograde evening set desc. node	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57	29° \$\mathbb{O}_54'12 0° \$\mathbb{M}_\$ 59'46 18° \$\mathbb{M}_\$ 36'48 0° \$\mathbb{\Omega}_\$ 14° \$\mathbb{O}_06'28 17° \$\mathbb{O}_48'08 17° \$\mathbb{O}_29'28 13° \$\mathbb{O}_24'58 12° \$\mathbb{O}_46'54	1°19'12 18°14'55
evening rise evening max el retrograde evening set desc. node inferior conj	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 08 15:56	27° m01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37	18°46'56 -1°54'17	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58	1°19'12 18°14'55 -0°14'08
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 08 15:56 13792 Oct 10 13:10	27° m01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37 30° R <u>a</u>	18°46'56 -1°54'17 1°51'57	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 10 23:26 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58	1°19'12 18°14'55 -0°14'08 0°13'48
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist.	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 08 15:56 13792 Oct 10 13:10 13792 Oct 11 22:17	27° m01'54 0° <u>a</u> 5° <u>a</u> 15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37 30° R <u>a</u> 29° <u>a</u> 00'49	18°46'56 -1°54'17 1°51'57	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47	29° \$\mathbb{A}54'12 0° \$\mathbb{m}\$ 59'46 18° \$\mathbb{m}\$ 36'48 0° \$\mathbb{\Omega}\$ 14° \$\mathbb{\Omega}\$ 06'28 17° \$\mathbb{\Omega}\$ 48'08 17° \$\mathbb{\Omega}\$ 24'58 12° \$\mathbb{\Omega}\$ 46'54 12° \$\mathbb{\Omega}\$ 47'58 12° \$\mathbb{\Omega}\$ 47'58	1°19'12 18°14'55 -0°14'08 0°13'48
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39	27° m01'54 0° \(\oldsymbol{\Omega}\) 5° \(\oldsymbol{\Omega}\) 15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37 30° R \(\oldsymbol{\Omega}\) 29° \(\oldsymbol{\Omega}\) 00'49 26° \(\oldsymbol{\Omega}\) 18'06	18°46'56 -1°54'17 1°51'57	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 09:59	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 51'47	1°19'12 18°14'55 -0°14'08 0°13'48
evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48	27° m01'54 0° \(\oldsymbol{\Omega}\) 5° \(\oldsymbol{\Omega}\) 15'02 0° \(\oldsymbol{\Omega}\) 1° \(\oldsymbol{\Omega}\) 33'48 5° \(\oldsymbol{\Omega}\) 35'22 4° \(\oldsymbol{\Omega}\) 54'15 1° \(\oldsymbol{\Omega}\) 13'59 1° \(\oldsymbol{\Omega}\) 20'49 26° \(\oldsymbol{\Omega}\) 18'06 24° \(\oldsymbol{\Omega}\) 55'25	18°46'56 -1°54'17 1°51'57 0.56851 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 09:59 13793 Sep 20 13:35	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 08 15:56 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12	27° m01'54 0° Ω 5° Ω 15'02 0° m 1° m.33'48 5° m.47'29 5° m.35'22 4° m.54'15 1° m.13'59 1° m.22'37 30° RΩ 29° Ω00'49 26° Ω 18'06 24° Ω 55'25 0° m.	18°46'56 -1°54'17 1°51'57 0.56851 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist.	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 17 20:40 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 09:59 13793 Sep 20 13:35 13793 Sep 20 13:35	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18	27° m01'54 0° a 5° a 15'02 0° m 1° m 33'48 5° m 47'29 5° m 35'22 4° m 54'15 1° m 13'59 1° m 22'37 30° R a 29° a 00'49 26° a 18'06 24° a 55'25 0° m 2° m 18'33	18°46'56 -1°54'17 1°51'57 0.56851 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 09:59 13793 Sep 20 13:35 13793 Sep 23 19:31 13793 Sep 27 17:11	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 12 20:48 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00	27° m01'54 0° \(\text{0} \) 5° \(\text{0} \) 1° m. 33'48 5° m.47'29 5° m.35'22 4° m.54'15 1° m.13'59 1° m.22'37 30° R \(\text{0} \) 29° \(\text{0} \) 26° \(\text{0} \) 26° \(\text{0} \) 26° \(\text{0} \) 26° \(\text{0} \) 20° m. 18'33 0° \(\text{0} \)	18°46'56 -1°54'17 1°51'57 0.56851 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 23 19:31 13793 Sep 27 17:11 13793 Oct 04 02:18	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 51'47 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50 5° \$\oldsymbol{\Omega}\$ 25'50	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU
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asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 16 11:39 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:39 13792 Dec 11 05:39 13792 Dec 11 05:02 13792 Dec 11 05:02	27° m01'54 0° n 5° n15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37 30° R n 29° n00'49 26° n18'06 24° n55'25 0° m 2° m18'33 0° x 3° x 22'42 18° x 18'20 0° \text{3} 3° \text{313'21} 4° \text{55'2'28}	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 13:35 13793 Sep 27 17:11 13793 Oct 18 09:46 13793 Nov 13 22:35 13793 Nov 17 11:19 13793 Nov 18 18:06	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50 5° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 50'46 17° \$\alpha 58'17	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:39 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 11 05:02	27° m01'54 0° n 5° n15'02 0° m 1° m33'48 5° m47'29 5° m35'22 4° m54'15 1° m13'59 1° m22'37 30° R n 29° n00'49 26° n18'06 24° n55'25 0° m 2° m18'33 0° x 3° x22'42 18° x18'20 0° 3° 516'50 3° 516'50 3° 513'21 4° 552'28 18° 524'48	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 19 18:13 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 13:35 13793 Sep 27 17:11 13793 Oct 04 02:18 13793 Oct 18 09:46 13793 Nov 13 22:35 13793 Nov 13 19:06 13793 Nov 14 18:06	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\oldsymbol{\Omega}\$ 2° \$\oldsymbol{\Omega}\$ 41'44 17° \$\oldsymbol{\Omega}\$ 58'17 17° \$\oldsymbol{\Omega}\$ 49'44	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41 1°30'46 1°31'38
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:39 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 18 03:59 13792 Dec 23 21:46	27° m01'54 0° Ω 5° Ω 15'02 0° m 1° m 33'48 5° m 47'29 5° m 35'22 4° m 54'15 1° m 13'59 1° m 22'37 30° R Ω 29° Ω 00'49 26° Ω 18'06 24° Ω 55'25 0° m 2° m 18'33 0° ¾ 3° ¾ 22'42 18° ¾ 18'20 0° ♂ 3° ♂ 16'50 3° ♂ 13'21 4° ♂ 52'28 18° ♂ 24'48 0° ≈	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 13:35 13793 Sep 23 19:31 13793 Sep 24 17:11 13793 Oct 04 02:18 13793 Oct 18 09:46 13793 Nov 13 22:35 13793 Nov 13 19:06 13793 Nov 14 11:19 13793 Nov 15 15:44 13793 Nov 25 17:16	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 48'08 17° \$\oldsymbol{\Omega}\$ 29'28 13° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 50'46 0° \$\vec{\sigma}\$ 2° \$\vec{\sigma}\$ 41'44 17° \$\vec{\sigma}\$ 49'44 17° \$\vec{\sigma}\$ 49'44	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41 1°30'46 1°31'38
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:39 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 12 22:49 13792 Dec 13 03:59 13792 Dec 23 21:46 13792 Dec 29 18:36	27° m01'54 0° a 5° a15'02 0° m 1° m.33'48 5° m.47'29 5° m.35'22 4° m.54'15 1° m.13'59 1° m.22'37 30° R.a 29° a00'49 26° a18'06 24° a55'25 0° m 2° m.18'33 0° ¾ 3° ¾22'42 18° ¾18'20 0° ♂ 3° ♂16'50 3° ♂13'21 4° ♂52'28 18° ♂24'48 0° ≈ 10° ≈40'17	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07 1°37'07 1°38'09 1.31409 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist.	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 19:31 13793 Sep 21 19:31 13793 Sep 27 17:11 13793 Oct 18 09:46 13793 Nov 18 18:06 13793 Nov 18 18:06	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50 5° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 40'44 17° \$\nalpha\$ 58'17 17° \$\nalpha\$ 49'44 17° \$\nalpha\$ 01'53 0° \$\oldsymbol{\Omega}\$	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41 1°30'46 1°31'38
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:39 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 18 03:59 13792 Dec 23 21:46 13792 Dec 29 18:36 13793 Jan 11 19:05	27° m01'54 0° a 5° a15'02 0° m 1° m.33'48 5° m.47'29 5° m.35'22 4° m.54'15 1° m.13'59 1° m.22'37 30° r.a 29° a00'49 26° a18'06 24° a55'25 0° m. 2° m.18'33 0° x 3° x'22'42 18° x'18'20 0° \text{3} 3° \text{313'21} 4° \text{352'28} 18° \text{324'48} 0° \text{8} 10° \text{\$\text{40'17}} 0° \text{\$\text{4}}	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07 1°37'07 1°38'09 1.31409 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 10 23:26 13793 Sep 20 12:17 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 13:35 13793 Sep 22 13:35 13793 Sep 23 19:31 13793 Sep 25 17:11 13793 Sep 25 17:16 13793 Sep 26 10 03:25 13793 Sep 27 10:48	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 16° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50 5° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 40'44 17° \$\oldsymbol{\Omega}\$ 49'44 17° \$\oldsymbol{\Omega}\$ 49'49'38	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41 1°30'46 1°31'38
asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13792 Aug 31 00:04 13792 Sep 01 12:47 13792 Sep 04 05:29 13792 Sep 18 22:47 13792 Sep 20 09:35 13792 Sep 28 19:23 13792 Sep 30 16:54 13792 Oct 02 20:44 13792 Oct 08 20:41 13792 Oct 10 13:10 13792 Oct 10 13:10 13792 Oct 11 22:17 13792 Oct 16 11:39 13792 Oct 22 07:48 13792 Nov 02 23:12 13792 Nov 05 13:18 13792 Nov 05 13:18 13792 Nov 25 06:00 13792 Nov 27 01:45 13792 Dec 04 10:39 13792 Dec 09 18:21 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 11 05:02 13792 Dec 23 21:46 13792 Dec 29 18:36 13793 Jan 11 19:05 13793 Jan 18 15:07	27° m01'54 0° a 5° a15'02 0° m 1° m.33'48 5° m.47'29 5° m.35'22 4° m.54'15 1° m.13'59 1° m.22'37 30° r.a 29° a00'49 26° a18'06 24° a55'25 0° m. 2° m.18'33 0° x 3° x 22'42 18° x 18'20 0° \text{3} 3° \text{313'21} 4° \text{352'28} 18° \text{32'448} 0° \text{8} 10° \text{\$\text{48}} 0° \text{\$\text{48}} 10° \text{\$\text{48}} 0° \text{\$\text{48}} 10° \text{\$\text{48}} 10° \text{\$\text{49}} 7° \text{\$\text{32'07}	18°46'56 -1°54'17 1°51'57 0.56851 AU 26°27'07 1°37'07 1°38'09 1.31409 AU	minimum elong asc. node evening rise evening max el retrograde evening set desc. node inferior conj minimum elong transit middle transit begin transit end min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	13793 Aug 08 11:46 13793 Aug 08 13:04 13793 Aug 18 17:32 13793 Aug 18 17:32 13793 Aug 24 23:09 13793 Sep 03 16:53 13793 Sep 10 23:26 13793 Sep 13 02:57 13793 Sep 20 12:17 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 11:47 13793 Sep 20 13:35 13793 Sep 20 13:35 13793 Sep 21 13:35 13793 Sep 21 13:31	29° \$\alpha 54'12 0° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 59'46 18° \$\mathbf{m}\$ 36'48 0° \$\oldsymbol{\Omega}\$ 14° \$\oldsymbol{\Omega}\$ 06'28 17° \$\oldsymbol{\Omega}\$ 24'58 12° \$\oldsymbol{\Omega}\$ 46'54 12° \$\oldsymbol{\Omega}\$ 47'58 12° \$\oldsymbol{\Omega}\$ 44'08 9° \$\oldsymbol{\Omega}\$ 59'41 7° \$\oldsymbol{\Omega}\$ 15'50 5° \$\oldsymbol{\Omega}\$ 25'50 13° \$\oldsymbol{\Omega}\$ 09'04 0° \$\mathbf{m}\$ 22° \$\mathbf{m}\$ 50'46 0° \$\nalpha\$ 2° \$\nalpha\$ 44'44 17° \$\nalpha\$ 36'17 17° \$\nalpha\$ 49'44 17° \$\nalpha\$ 36'38 2° \$\oldsymbol{\Omega}\$ 49'38 29° \$\oldsymbol{\Omega}\$ 43'00	1°19'12 18°14'55 -0°14'08 0°13'48 0°13'48 0.58932 AU 27°31'41 1°30'46 1°31'38 1.31170 AU

retrograde	13794 Jan 14 14:48	26°≈16'10			13794 Dec 13 10:32	0° ≈ ≈	
evening set	13794 Jan 21 02:08	24°≈34'11		evening max el	13794 Dec 13 10:32	29° る 53'30	25°07'54
min. Earth dist.	13794 Jan 25 05:26	21°≈57'21	0.58669 AU	retrograde	13794 Dec 27 03:16	6°≈49'02	23 07 34
inferior conj	13794 Jan 28 08:49	19°≈35'26		evening set	13795 Jan 01 20:01	5°≈36'02	
minimum elong	13794 Jan 28 16:59	19° ≈ 20'00	3°48'10	min. Earth dist.	13795 Jan 06 19:47	2°≈53'47	0.56700 AU
morning rise	13794 Feb 05 10:52	15°≈03'31	3 40 10	inferior conj	13795 Jan 09 12:13	1°≈08'33	
direct	13794 Feb 07 11:34	14° ≈ 49'14		minimum elong	13795 Jan 09 20:43	0°≈54'37	
asc. node	13794 Feb 09 21:09	15°≈10'10		minimum ciong	13795 Jan 11 06:49	30°Rる	3 0441
morning max el	13794 Feb 15 13:00	18° ≈ 47'56	18°23'52	morning rise	13795 Jan 17 23:47	26° る 58'42	
morning max or	13794 Feb 23 16:38	0° ∀	10 23 32	direct	13795 Jan 20 05:02	26° る 44'34	
morning set	13794 Mar 03 08:30	14°) €02'43		asc. node	13795 Jan 27 18:30	29° る 41'56	
morning sec	13794 Mar 11 19:04	0°Υ		use. Houe	13795 Jan 28 03:28	0°≈	
	13774 Will 11 17.04	0 1		morning max el	13795 Jan 29 13:36	1°≈16'42	19°14'13
superior conj	13794 Mar 12 13:43	1° Y 25'47	0°17'12	morning set	13795 Feb 15 09:21	28°≈27'22	17 1415
minimum elong	13794 Mar 12 14:56	1° Y 31'24	0°17'05	morning set	13795 Feb 16 03:58	0° ∀	
desc. node	13794 Mar 14 17:01	5°Υ18'52	0 17 03		137731 60 10 03.30	υ / (
max. Earth dist.	13794 Mar 20 02:06	14° Υ 46'00	1.40743 AU	superior conj	13795 Feb 23 15:06	14° ¥ 44'58	0°47'03
evening rise	13794 Mar 24 12:02	22°Υ11'08	1.40/43 AU	minimum elong	13795 Feb 23 17:39	14° X 57'16	0°47'02
evening rise	13794 Mar 29 08:16	0°8		desc. node	13795 Mar 01 13:31	25° H 53'58	0 4/02
	13794 Mai 29 08:10 13794 Apr 19 02:41	0°U		max. Earth dist.	13795 Mar 02 08:47	27°\(\frac{1}{2}\)21'22	1.38483 AU
avanina may al	13794 Apr 19 02.41 13794 Apr 27 20:23	0 П 10°П08'35	22027102	max. Earm dist.	13795 Mar 03 20:11	27 π 21 22 0° Υ	1.36463 AU
evening max el	*		23 27 02			3° Υ 58'42	
retrograde	13794 May 08 12:06	16° Ⅱ 24'37		evening rise	13795 Mar 06 02:32		
asc. node	13794 May 08 17:40	16° Ⅱ 24'22			13795 Mar 22 10:35	0°8	24046142
evening set	13794 May 13 16:03	14° Ⅱ 13'50	0.60050 ATT	evening max el	13795 Apr 10 10:01	24° 8 01'41	24°46'42
min. Earth dist.	13794 May 18 11:48	8° ∏ 33'30	0.68850 AU		13795 Apr 18 09:10	0°П	
inferior conj	13794 May 19 01:14	7° ∏ 47'16	2°41'32	retrograde	13795 Apr 22 03:44	0°П52'36	
minimum elong	13794 May 18 23:21	7° Ⅱ 53'45	2°40'13	asc. node	13795 Apr 25 14:59	0° П 00'15	
morning rise	13794 May 24 06:36	1° ∏ 41′22			13795 Apr 25 15:11	30°₹ 8	
	13794 May 28 09:07	30°₹ 8		evening set	13795 Apr 27 19:21	28° 8 30'11	
direct	13794 May 28 12:49	29° 8 59'52		min. Earth dist.	13795 May 02 06:53	23° 8 26'12	0.68295 AU
	13794 May 28 16:31	Π °0		inferior conj	13795 May 03 08:56	21° 8 59'45	2°11'22
morning max el	13794 Jun 05 18:30	4° ∏ 41'55	20°46'38	minimum elong	13795 May 03 06:47	22° 8 06'55	2°10'00
desc. node	13794 Jun 10 18:33	10° ∏ 22'18		morning rise	13795 May 08 18:27	16° 8 02'34	
	13794 Jun 24 20:12	0∘ ௐ		direct	13795 May 12 12:33	14° 8 41'47	
morning set	13794 Jul 05 14:01	16° © 18'48		morning max el	13795 May 19 19:39	18° 8 43'58	19°38'14
max. Earth dist.	13794 Jul 13 18:06	29° © 15'01	1.43411 AU	desc. node	13795 May 28 15:29	29° 8 38'28	
	13794 Jul 14 05:13	0 $^{\circ}$ Ω			13795 May 28 21:38	Π °0	
				greatest brilliancy	13795 Jun 01 11:51	5° Ⅱ 09'40	-0.6m
superior conj	13794 Jul 20 12:44	10° Ω 23′58		morning set	13795 Jun 14 15:53	25° Ⅱ 01'21	
minimum elong	13794 Jul 20 20:01	10° Ω 54'31	1°50'22		13795 Jun 17 21:24	0	
	13794 Jul 31 21:07	0° m ∤		max. Earth dist.	13795 Jun 26 07:58	13° © 11'02	1.44903 AU
evening rise	13794 Aug 01 14:50	1° Mp 18'13					
asc. node	13794 Aug 04 17:16	6° Mp 46′42		superior conj	13795 Jun 30 20:02	20° © 21'02	
evening max el	13794 Aug 18 05:36	27° Mp 10'09	18°02'46	minimum elong	13795 Jul 01 00:20	20° © 38'19	2°10'50
	13794 Aug 22 04:03	0∘ ⊽			13795 Jul 06 18:48	0 \circ Ω	
retrograde	13794 Aug 24 20:03	0° ჲ 34'24		evening rise	13795 Jul 14 16:19	13° Ω 07'32	
evening set	13794 Aug 27 07:25	0° ჲ 05'29		asc. node	13795 Jul 22 13:57	26° Ω 18'12	
	13794 Aug 27 12:53	30°Ŗ ₯			13795 Jul 24 21:25	0° ™	
inferior conj	13794 Sep 02 23:41	25° Mp 02'50	1°05'39	evening max el	13795 Aug 01 20:03	10° m 35'49	18°09'20
minimum elong	13794 Sep 03 01:31	24° m 58'19	1°04'48	retrograde	13795 Aug 08 04:42	13° m 56'37	
min. Earth dist.	13794 Sep 06 01:43	22° Mp 02'28	0.61216 AU	evening set	13795 Aug 11 00:23	13° m) 14'34	
desc. node	13794 Sep 06 15:46	21°Mp30'12		inferior conj	13795 Aug 17 03:00	7° m 54'19	2°03'24
morning rise	13794 Sep 09 16:54	19° Mp 04'42		minimum elong	13795 Aug 17 05:29	7° ™ ,47'27	2°02'12
direct	13794 Sep 16 08:17	16° Mp 50′27		min. Earth dist.	13795 Aug 19 17:48	5° m 01'29	0.63434 AU
morning max el	13794 Sep 30 13:36	24° Mp 46'59	27°58'08	morning rise	13795 Aug 23 08:43	1° m 39'14	
	13794 Oct 05 08:07	0∘ ⊽		desc. node	13795 Aug 24 13:18	0° Mp 49′25	
	13794 Oct 25 05:09	0° M			13795 Aug 26 01:50	30°R Ω	
asc. node	13794 Oct 31 19:18	12°M36'05		direct	13795 Aug 30 00:15	29° Ω 07'40	
morning set	13794 Nov 02 20:31	16°M47'31			13795 Sep 03 04:39	0° ™	
max. Earth dist.	13794 Nov 08 13:53	29°M03'25	1.31458 AU	morning max el	13795 Sep 12 22:34	7° Mp 08'58	27°46'15
	13794 Nov 09 00:09	0° ∡ 7			13795 Sep 30 11:22	0∘ ⊽	
					13795 Oct 17 09:36	0° M	
superior conj	13794 Nov 10 03:43	2° ∡ ³32′22	1°18'37	morning set	13795 Oct 17 15:40	0° M 30′22	
minimum elong	13794 Nov 10 01:35	2° ≯ 20'34	1°19'14	asc. node	13795 Oct 18 15:59	2°M33'10	
evening rise	13794 Nov 16 20:41	17° ∡ ²20′12		max. Earth dist.	13795 Oct 22 14:57	10° M ₄47'30	1.32282 AU
	13794 Nov 22 23:59	5°0					
desc. node	13794 Dec 03 12:32	17° る 59'37		superior conj	13795 Oct 25 11:05	16°M54'05	1°00'45

superior conj	13797 Sep 22 07:23	14° £ 36'14	0°08'41	max. Earth dist.	13798 Aug 29 12:16	1.4° m 27'26	1.37723 AU
minimum elong	13797 Sep 22 07:23 13797 Sep 22 06:52	14° ⊆ 33'40	0°08'44	max. Earth dist.	13796 Aug 29 12.10	14 11/2/20	1.57725 AO
behind sun begin	13797 Sep 22 00:32 13797 Sep 22 01:41	14° ⊆ 07'24	0 00 11	superior conj	13798 Sep 05 14:23	27° m 42'00	-0°24'13
behind sun end	13797 Sep 22 01:41 13797 Sep 22 12:04	14° ⊆ 59'58		minimum elong	13798 Sep 05 14:25	27° m/42'56	
ocimia sun cha	13797 Sep 22 12:01 13797 Sep 29 18:36	0°ML		minimum ciong	13798 Sep 06 18:51	0° ⊡	0 2 1 03
evening rise	13797 Sep 30 01:58	0°M37'59		asc. node	13798 Sep 08 05:43	° ⊆ 50'39	
e vennig 1150	13797 Oct 17 15:29	0° x 7⊓		evening rise	13798 Sep 14 04:37	14° £ 41'22	
evening max el	13797 Oct 18 06:23	0° ∡ ³38'06	20°20'55	<i>3</i> 21	13798 Sep 22 06:13	0°M	
desc. node	13797 Oct 24 04:21	4° ∡ ¹56'06		evening max el	13798 Sep 30 20:34	12°M00'55	19°14'51
retrograde	13797 Oct 29 03:43	6° ∡ ¹02'58		retrograde	13798 Oct 10 02:21	16°M38'42	
evening set	13797 Oct 31 07:17	5° ∡ ¹51'18		desc. node	13798 Oct 11 01:48	16°M35'47	
inferior conj	13797 Nov 09 05:57	1° ∡ 755'23	-4°39'47	evening set	13798 Oct 11 23:00	16°M28'14	
minimum elong	13797 Nov 08 19:52	2° ∡ 10′11	4°36'10	inferior conj	13798 Oct 20 12:09	12°M17'40	-2°57'15
min. Earth dist.	13797 Nov 10 17:21	1° ∡ ¹03'26	0.54748 AU	minimum elong	13798 Oct 20 04:38	12°M30'12	2°53'49
	13797 Nov 12 14:08	30°RML		min. Earth dist.	13798 Oct 23 03:50	10°M32'03	0.55878 AU
morning rise	13797 Nov 17 07:48	27°ML53'17		morning rise	13798 Oct 28 07:47	7°M43'51	
direct	13797 Nov 21 22:00	27°ML07'47		direct	13798 Nov 02 18:05	6°M36'27	
	13797 Nov 30 16:54	0° ∡ ¹		morning max el	13798 Nov 16 19:21	13°M43'23	25°35'32
morning max el	13797 Dec 05 09:09	3° х ⁴43'30	23°50'31		13798 Nov 29 14:09	0° ∡ ¹	
asc. node	13797 Dec 18 10:10	20° ∡ 757′22		asc. node	13798 Dec 05 07:11	9° ∡ ¹42'21	
	13797 Dec 23 10:28	0°ರ		morning set	13798 Dec 14 01:59	27° ∡ 16'38	
morning set	13797 Dec 29 14:27	12° る 36'03			13798 Dec 15 08:11	5°0	
		_				_	
superior conj	13798 Jan 05 10:42	27° る 29'05	1°35'06	superior conj	13798 Dec 20 20:19	12° る 09'41	1°38'06
minimum elong	13798 Jan 05 11:47	27° る 34'56	1°36'01	minimum elong	13798 Dec 20 20:18	12° る 09'36	1°39'09
	13798 Jan 06 14:35	0° ≈		max. Earth dist.	13798 Dec 22 05:45	15° る 14'23	1.31794 AU
max. Earth dist.	13798 Jan 08 02:00	3° ≈ 09'49	1.32841 AU	evening rise	13798 Dec 27 23:24	27° る 33'23	
evening rise	13798 Jan 13 01:39	13° ≈ 29'46			13798 Dec 29 03:52	0° ≈	
desc. node	13798 Jan 20 03:16	26°≈57'25		desc. node	13799 Jan 07 00:00	16°≈47'36	
	13798 Jan 21 20:22	0° ∺			13799 Jan 15 03:18	0° ∀	25221120
	13798 Feb 11 09:16	0°Υ 4° Ω 50 3 0	27227146	evening max el	13799 Jan 29 12:24	17°) (49'09	27°31'39
evening max el	13798 Feb 16 02:14	4° Υ 58'29 12° Υ 25'52	27°27'46	retrograde	13799 Feb 12 09:57	25°) 11'00	
retrograde	13798 Mar 01 18:56			evening set	13799 Feb 19 07:38	22°) 54'32	0.62007.444
evening set	13798 Mar 08 14:03	9° Y 57'52 6° Y 33'50	0.64122.411	min. Earth dist.	13799 Feb 23 01:46	19° ¥ 56'34 17° ¥ 08'46	0.62097 AU
min. Earth dist.	13798 Mar 12 09:43	3° Y 49'57	0.64133 AU	inferior conj	13799 Feb 26 01:41	17° X 08'46 17° X 00'39	
inferior conj	13798 Mar 15 00:08 13798 Mar 15 00:54	3° Y 49'37 3° Y 47'54	0°24'52	minimum elong asc. node	13799 Feb 26 05:08 13799 Mar 03 04:52	13° H 00'39	1°38'21
minimum elong asc. node	13798 Mar 16 07:22	2° Υ 29'00	0 24 32	morning rise	13799 Mar 05 04:32 13799 Mar 05 05:27	13 X 00 3 7 12° X 04'34	
asc. Houe	13798 Mar 19 01:10	2 1 29 00 30°R ∺		direct	13799 Mar 03 03.27 13799 Mar 07 10:51	11°) (42'22	
morning rise	13798 Mar 21 13:53	28° ∺ 28′29		morning max el	13799 Mar 14 04:49	15°) (42.22	17°47'47
direct	13798 Mar 24 02:07	27° H 56'39		morning max ci	13799 Mar 14 04:49 13799 Mar 24 13:51	15 γ (0/24 0° γ	1/4/4/
uncet	13798 Mar 29 02:02	27 γ (303)		morning set	13799 Mar 30 00:38	9° Υ 33'31	
morning max el	13798 Mar 30 11:27	1° Υ 14'04	17°49'24	desc. node	13799 Apr 05 02:07	20° Υ 14'00	
morning set	13798 Apr 16 09:01	26° Υ 37'51	17 4724	dese. Hode	13777 Apr 03 02.07	20 1400	
desc. node	13798 Apr 18 05:36	29° Υ 45'49		superior conj	13799 Apr 10 11:15	29° Y 27′05	-0°41'28
	13798 Apr 18 08:59	0°8		minimum elong	13799 Apr 10 07:16	29° Υ 10'18	
					13799 Apr 10 19:05	0°8	
superior conj	13798 Apr 29 14:57	18° 8 33'26	-1°20'57	max. Earth dist.	13799 Apr 17 10:02	10° 8 54'47	1.43818 AU
minimum elong	13798 Apr 29 06:57	18° 8 01'12		evening rise	13799 Apr 24 22:02	22° 8 46'42	
max. Earth dist.	13798 May 04 17:15	26° 8 41'12	1.45147 AU	C	13799 Apr 29 15:02	0° I I	
	13798 May 06 19:46	$\Pi^{\circ}0$			13799 May 20 19:34	0°€	
evening rise	13798 May 15 07:50	13° Ⅱ 09'56		evening max el	13799 May 25 19:38	5°5340'11	21°22'08
	13798 May 26 11:44	0 \circ \odot		asc. node	13799 May 30 01:42	9°514'23	
evening max el	13798 Jun 11 21:54	21° 9 51'01	20°12'23	retrograde	13799 Jun 03 15:19	10°5549'02	
asc. node	13798 Jun 12 04:37	22° © 07'38		evening set	13799 Jun 08 01:26	9° © 01'18	
retrograde	13798 Jun 19 16:39	26°517'55		inferior conj	13799 Jun 13 07:21	2°547'26	3°08'22
evening set	13798 Jun 23 16:12	24°9546'50		minimum elong	13799 Jun 13 06:35	2°550'05	3°07'15
inferior conj	13798 Jun 28 22:55	18° 5 344'16	3°11'47	min. Earth dist.	13799 Jun 13 14:04	2°523'58	0.68768 AU
minimum elong	13798 Jun 28 23:08	18° © 43'33	3°10'45		13799 Jun 15 08:23	30°RⅡ	
min. Earth dist.	13798 Jun 29 19:12	17° © 35'11	0.68111 AU	morning rise	13799 Jun 18 11:32	26° Ⅲ 30'30	
morning rise	13798 Jul 04 05:45	12° © 22'21		direct	13799 Jun 23 13:38	24° Ⅱ 18′07	
direct	13798 Jul 09 20:23	9° 9 54'07		desc. node	13799 Jul 02 02:48	28° Ⅱ 46′20	
desc. node	13798 Jul 15 05:36	11°9541'55			13799 Jul 03 09:47	0ං ව	
morning max el	13798 Jul 21 06:52	16°9545'10	24°27'53	morning max el	13799 Jul 03 17:52	0°520'10	22°58'19
	13798 Aug 01 06:53	0° Q			13799 Jul 26 02:37	0°N	
	13798 Aug 21 03:56	0° m)		morning set	13799 Aug 07 00:51	18° Ω 49'55	1 10001 :==
morning set	13798 Aug 25 21:45	8° Mp 04'00		max. Earth dist.	13799 Aug 11 10:59	26° Ω 16'17	1.40081 AU

	12700 1 12 11 11	00 %			12000 1 1 10 01 22	00.0	
	13799 Aug 13 14:44	0° m			13800 Jul 19 01:32	0°N	1 42200 ATT
superior coni	12700 Aug 10 06:05	10° Mp 04'29	0°50'25	max. Earth dist.	13800 Jul 24 13:59	8,9722,11	1.42298 AU
superior conj minimum elong	13799 Aug 19 06:05 13799 Aug 19 10:31	10° m) 24'48	-0°59'25 0°59'10	superior conj	13800 Aug 01 02:06	21° Ω 34'14	1022120
asc. node	•	22° m 52'25	0 39 10	minimum elong	•	$21^{\circ} 034^{\circ} 14$ $22^{\circ} \Omega 04'00$	
evening rise	13799 Aug 26 02:15 13799 Aug 28 23:04	28° m/ 20'55		minimum ciong	13800 Aug 01 08:59 13800 Aug 05 21:20	0°m)	1 33 14
evening rise	13799 Aug 28 23:04 13799 Aug 29 19:50	0° ⊽		evening rise	13800 Aug 03 21:20 13800 Aug 12 05:26	11°Mg 26'48	
evening max el	13799 Rug 29 19:30 13799 Sep 13 22:41	0 = 24° £ 09'48	18°30'44	asc. node	13800 Aug 12 03:20 13800 Aug 12 22:50	12° m) 45'57	
retrograde	13799 Sep 21 19:42	28° ₾ 08'36	10 30 44	use. Houe	13800 Aug 22 22:34	0° ம	
evening set	13799 Sep 23 19:16	27° ♀ 54'14		evening max el	13800 Aug 28 08:44	° - 6° - 256'24	18°07'24
desc. node	13799 Sep 27 23:18	26° ₽ 02'00		retrograde	13800 Sep 04 07:18	10° £ 29'08	10 0/2.
inferior conj	13799 Oct 01 15:14	23° ₾ 23'30	-1°09'46	evening set	13800 Sep 06 13:54	10° Ω 06'40	
minimum elong	13799 Oct 01 12:28	23° ≏ 28'52	1°08'21	inferior conj	13800 Sep 13 15:41	5° ≏ 15'29	0°22'26
min. Earth dist.	13799 Oct 04 20:39	20° ≏ 53'42	0.57692 AU	minimum elong	13800 Sep 13 16:25	5° ≏ 13'49	0°22'07
morning rise	13799 Oct 09 02:12	18° ≙ 11'47		desc. node	13800 Sep 14 20:50	4° ₽ 09'01	
direct	13799 Oct 15 04:21	16° ≏ 37'46		min. Earth dist.	13800 Sep 16 21:47	2° ≏ 19'44	0.59893 AU
morning max el	13799 Oct 29 11:36	24° ≏ 10′08	26°58'57		13800 Sep 19 21:48	30°₽, Т р	
	13799 Nov 03 19:28	0° M		morning rise	13800 Sep 20 15:39	29° m 31'19	
asc. node	13799 Nov 22 04:03	28°M56'45		direct	13800 Sep 27 04:09	27° Mp 30'10	
	13799 Nov 22 17:07	0° ∡ ¹			13800 Oct 04 20:50	0∘ ⊽	
morning set	13799 Nov 28 11:27	11° ∡ °47'33		morning max el	13800 Oct 11 11:33	5° ≏ 20'57	27°47'42
					13800 Oct 29 20:40	0° M	
superior conj	13799 Dec 05 07:44	26° ₹ 52'09	1°35'08	asc. node	13800 Nov 09 00:50	18°M32'38	
minimum elong	13799 Dec 05 06:42	26° ∡ ¹46′21	1°36'07	morning set	13800 Nov 12 17:01	26°M04'04	
max. Earth dist.	13799 Dec 05 13:26	27° х 24′00	1.31246 AU		13800 Nov 14 13:23	0° ∡	
	13799 Dec 06 17:23	0°ප		max. Earth dist.	13800 Nov 18 21:25	9° ∡ ³30′22	1.31223 AU
evening rise	13799 Dec 12 03:31	11° る 51'39					
	13799 Dec 21 07:52	0° ≈		superior conj	13800 Nov 19 19:05	11° ∡ ³31′03	1°26'19
desc. node	13799 Dec 24 20:52	6°≈10'35		minimum elong	13800 Nov 19 17:16	11° ∡ 120′51	1°27'06
evening max el	13800 Jan 11 17:03	29°≈55'01	27°01'42	evening rise	13800 Nov 26 11:52	26° ₹ 19'10	
	13800 Jan 11 19:10	0° ∺			13800 Nov 28 05:19	0°る	
retrograde	13800 Jan 25 16:20	7°) €08'27		desc. node	13800 Dec 11 17:51	24° る 55'29	
evening set	13800 Feb 01 09:58	5°) 11′25	0.50010.411		13800 Dec 15 04:03	0° ≈	0.50.5.71.4.1
min. Earth dist.	13800 Feb 05 07:18	2°) 30'43	0.59910 AU	evening max el	13800 Dec 24 13:54	11°≈08'32	25°57'41
inferior conj	13800 Feb 08 11:56	29°≈54'18		retrograde	13801 Jan 07 12:19	18°≈11'40	
minimum elong	13800 Feb 08 18:34 13800 Feb 08 09:09	29°≈40'42	3-00-00	evening set	13801 Jan 13 16:55	16°≈41'31 14°≈04'26	0.57784 AU
morning rise	13800 Feb 08 09:09 13800 Feb 16 06:22	30°R≈ 25°≈10'20		min. Earth dist. inferior conj	13801 Jan 18 02:56 13801 Jan 21 03:19	14 ≈04 26 11°≈56'10	
morning rise direct	13800 Feb 18 07:30	23 ≈10 20 24°≈54'16		minimum elong	13801 Jan 21 12:08	11°≈40'29	
asc. node	13800 Feb 18 02:18	24°≈54'27		morning rise	13801 Jan 29 10:15	7°≈34'00	4 22 33
morning max el	13800 Feb 25 18:53	28°≈37'35	18°04'57	direct	13801 Jan 31 11:43	7°≈20'25	
morning max or	13800 Feb 27 02:09	0° ∺	10 0127	asc. node	13801 Feb 04 23:42	8° ≈ 29'14	
morning set	13800 Mar 13 09:02	23°) 15'35		morning max el	13801 Feb 09 01:40	11° ≈ 32'27	18°42'33
	13800 Mar 17 00:05	0° Υ			13801 Feb 21 07:33	0°) €	
desc. node	13800 Mar 22 22:36	10° Y 48′04		morning set	13801 Feb 25 05:03	7°) €28'00	
				C			
superior conj	13800 Mar 23 07:21	11° Y ′27'00	-0°02'56	superior conj	13801 Mar 05 23:23	24°) 20′54	0°30'40
minimum elong	13800 Mar 23 07:07	11° Y °25'55	0°02'59	minimum elong	13801 Mar 06 01:21	24°) € 30'06	0°30'34
behind sun begin	13800 Mar 22 23:27	10° Y 51′51			13801 Mar 09 00:40	0° Y	
behind sun end	13800 Mar 23 14:46	11° Y 59'54		desc. node	13801 Mar 09 19:06	1° Y 23'46	
max. Earth dist.	13800 Mar 30 22:07	24° Y ′34'32	1.41962 AU	max. Earth dist.	13801 Mar 13 05:37	7° Ƴ 31'11	1.39786 AU
	13800 Apr 03 05:02	0° 8		evening rise	13801 Mar 17 06:10	14° Y 25'33	
evening rise	13800 Apr 05 03:39	3° 8 08'25			13801 Mar 26 22:35	0° 8	
	13800 Apr 22 23:19	Π °0			13801 Apr 17 22:35	Π °0	
evening max el	13800 May 08 12:34	19° Ⅲ 30′14	22°40'21	evening max el	13801 Apr 21 02:49	3° Ⅲ 22'12	24°01'27
asc. node	13800 May 16 22:54	25° Ⅱ 12'19		retrograde	13801 May 02 06:19	9° ∏ 54'52	
retrograde	13800 May 18 12:21	25° Ⅱ 23'24		asc. node	13801 May 03 20:12	9° Ⅱ 43'45	
evening set	13800 May 23 09:36	23° Ⅱ 20'25	2054110	evening set	13801 May 07 15:07	7° Ⅱ 38'54	0.00000
inferior conj	13800 May 28 17:00	16° Ⅱ 57'26	2°54'18	min. Earth dist.	13801 May 12 07:11	2° Ⅱ 13'49	0.68666 AU
minimum elong	13800 May 28 15:27	17° Ⅱ 02'50	2°53'03	inferior conj	13801 May 13 01:58	1° Ⅱ 09'59	2°30'01
min. Earth dist.	13800 May 28 10:48	17° Ⅱ 19'02	0.68951 AU	minimum elong	13801 May 12 23:55	1° Ⅱ 16'57	2~28'40
morning rise	13800 Jun 02 21:11	10° Ⅱ 47'03		morning rig-	13801 May 13 22:41	30°₹ ႘	
direct	13800 Jun 07 10:29	8° Ⅱ 53'54 14° Ⅱ 04'16	21°32'01	morning rise direct	13801 May 18 08:45	25° 8 07'23 23° 8 34'47	
morning max el desc. node	13800 Jun 16 08:21 13800 Jun 18 23:53	14°Щ04°16 16°Щ54'43	41 34 VI	morning max el	13801 May 22 09:40 13801 May 30 05:01	23° 6 34'47 27° 6 58'52	20°15'42
desc. Houc	13800 Jun 18 23.33 13800 Jun 29 02:20	10 ш 3443		morning max ci	13801 May 30 03.01 13801 Jun 01 02:57	27 O 38 32 0° Ⅱ	20 1342
morning set	13800 Jul 29 02.20 13800 Jul 18 03:01	28°930'46		desc. node	13801 Jun 01 02.57 13801 Jun 05 20:52	0 П 5°П49'33	
morning sec	15000 301 10 05.01	20 - 20 - 10		dose. Hode	15001 3011 05 20.52	J 117/33	

asc. node

retrograde

desc. node

direct

asc. node

desc. node

retrograde

direct

asc. node

desc node

retrograde

asc. node

direct

desc. node

morning set

greatest brilliancy

13802 May 23 17:45

13802 May 26 05:46

13802 May 26 22:03

13802 Jun 06 12:19

25°**8**18'25

16°**Ⅱ**08'57

 $0^{\circ}\Pi$

28°**8**59'14 -0.7m

minimum elong

morning rise

morning max el

direct

13803 Apr 11 08:25

13803 Apr 17 06:02

13803 Apr 20 08:36

13803 Apr 26 20:24

29°**Y**31'12

23°**Y**43'46

22° Y 49' 28

26°**Y**16'27 18°27'36

1°08'52

	13803 Apr 30 03:56	0°B		direct	13804 Apr 03 04:15	7° Ƴ 10'36	
desc. node	13803 May 10 14:31	15° 8 12'08		morning max el	13804 Apr 09 12:16	10° Υ 28'12	17°58'25
morning set	13803 May 17 09:36	25° 8 53'53		morning max or	13804 Apr 23 04:23	0°8	17 30 23
	13803 May 19 24:00	0°II		desc. node	13804 Apr 26 11:09	5° 8 23'13	
	,			morning set	13804 Apr 27 10:39	6° 8 59'47	
superior conj	13803 Jun 02 05:56	20° Ⅱ 45'42	-2°06'44	-	•		
minimum elong	13803 Jun 01 23:48	20° Ⅲ 21'45	2°07'28	superior conj	13804 May 11 18:14	0° Ⅱ 07'36	-1°41'22
max. Earth dist.	13803 Jun 02 11:13	21° Ⅲ 06′17	1.45854 AU	minimum elong	13804 May 11 09:09	29° 8 31'41	1°41'21
	13803 Jun 08 03:54	0ංම			13804 May 11 16:19	Π °0	
evening rise	13803 Jun 18 01:21	15° © 32'02		max. Earth dist.	13804 May 15 07:18	5° Ⅱ 42'28	1.45610 AU
greatest brilliancy	13803 Jun 27 01:58	29° © 42'37	-0.8m	evening rise	13804 May 27 19:45	25° Ⅱ 06'57	
	13803 Jun 27 06:27	0 $^{\circ}\Omega$			13804 May 31 00:10	0ංම	
asc. node	13803 Jul 04 13:05	10° Ω 47'40		greatest brilliancy	13804 Jun 10 14:44	15° © 59'49	-0.7m
evening max el	13803 Jul 10 00:32	17° Ω 26'05	18°49'27	asc. node	13804 Jun 20 10:01	29° © 12'01	
retrograde	13803 Jul 16 16:27	21° Ω 04'47			13804 Jun 21 03:11	0°N	10025145
evening set	13803 Jul 20 00:46	20° Ω 00′20	2052141	evening max el	13804 Jun 22 07:23	1° Ω 13'51	19°37'47
inferior conj	13803 Jul 25 14:14	14°Ω18'11	2°52'41	retrograde	13804 Jun 29 14:28	5° Ω 20'32	
minimum elong min. Earth dist.	13803 Jul 25 16:00 13803 Jul 27 08:56	14° Ω 12'37 12° Ω 04'24	2°51'35 0.66121 AU	evening set	13804 Jul 03 08:11 13804 Jul 07 04:58	3° € 59'19 30° №	
morning rise	13803 Jul 27 08:36 13803 Jul 31 06:25	7° Ω 53'56	0.00121 AU	inferior conj	13804 Jul 07 04.38 13804 Jul 08 16:32	30 k≌ 28°©03'43	3°08'32
direct	13803 Aug 06 13:36	5° Ω 14'10		minimum elong	13804 Jul 08 17:20	28°901'03	3°07'30
desc. node	13803 Aug 06 13:21	5°Ω14'10		min. Earth dist.	13804 Jul 09 20:51	26°\$29'23	0.67515 AU
morning max el	13803 Aug 19 14:57	12°Ω58'56	26°34'28	morning rise	13804 Jul 14 02:01	21°939'40	0.07313710
morning max cr	13803 Sep 02 08:30	0° m)	20 34 20	direct	13804 Jul 19 23:10	19°905'03	
	13803 Sep 20 23:20	0∘ ⊽		desc. node	13804 Jul 23 10:44	19°950'15	
morning set	13803 Sep 24 11:35	6° ₽ 29'11		morning max el	13804 Aug 01 01:49	26°920'35	25°17'29
max. Earth dist.	13803 Sep 28 11:34	14° ≏ 13'13	1.34380 AU	C	13804 Aug 04 10:52	$0^{\circ}\Omega$	
asc. node	13803 Sep 30 14:47	18° ≏ 29'39			13804 Aug 25 22:07	0° m)	
	-			morning set	13804 Sep 05 23:58	18° m 44'26	
superior conj	13803 Oct 03 09:00	24° ≏ 09'11	0°25'46	max. Earth dist.	13804 Sep 09 14:06	25° m 18'27	1.36411 AU
minimum elong	13803 Oct 03 07:39	24° ഫ 02'11	0°25'50		13804 Sep 12 01:40	0∘ ⊽	
	13803 Oct 06 04:02	0° M.					
evening rise	13803 Oct 10 19:07	9° M 46′08		superior conj	13804 Sep 15 22:49	7° ≏ 34'22	-0°04'53
	13803 Oct 21 08:24	0° ∡ ¹		minimum elong	13804 Sep 15 23:07	7° ≏ 35'52	0°04'48
evening max el	13803 Oct 30 05:23	11° ∡¹ 47'27 −	21°08'25	behind sun begin	13804 Sep 15 16:59	7° ≙ 05'28	
desc. node	13803 Nov 02 09:30	14° ⋌ ³31'11		behind sun end	13804 Sep 16 05:15	8° ≏ 06'21	
retrograde	13803 Nov 11 00:53	17° ⋌ ³39'38		asc. node	13804 Sep 16 11:22	8° △ 36'49	
evening set	13803 Nov 13 15:34	17° х 23'36	502 411 5	evening rise	13804 Sep 24 01:00	23° ♀ 58'47	
inferior conj minimum elong	13803 Nov 22 13:26	13° х 30′17 13° х 42′19		avanina may al	13804 Sep 27 00:50	0°ጤ 22°ጤ41'33	19°50'05
min. Earth dist.	13803 Nov 22 04:55 13803 Nov 23 03:17	13° x '42 19	0.54500 AU	evening max el desc. node	13804 Oct 11 11:18 13804 Oct 19 06:53	27°M30'21	19 30 03
morning rise	13803 Nov 30 18:47	9° × ⁷ 39'18	0.54500 AU	retrograde	13804 Oct 19 00:33	27°M46'24	
direct	13803 Dec 04 19:49	9° × 704'13		evening set	13804 Oct 23 14:30	27°M36'08	
morning max el	13803 Dec 17 17:54	15° ∡ 18'00	22°47'44	inferior conj	13804 Nov 01 10:34	23°M35'10	-3°58'49
asc. node	13803 Dec 27 15:28	27° ∡ ¹47'35		minimum elong	13804 Nov 01 00:56	23°M49'59	
	13803 Dec 29 00:26	ರ°0		min. Earth dist.	13804 Nov 03 11:41	22°M19'35	0.55121 AU
morning set	13804 Jan 09 04:43	21° る 27'36		morning rise	13804 Nov 09 09:51	19° M 20'44	
	13804 Jan 13 04:09	0° ≈ ≈		direct	13804 Nov 14 08:47	18°M26'42	
				morning max el	13804 Nov 28 03:43	25°M17'21	24°36'50
superior conj	13804 Jan 16 03:54	6° ≈ 25'53	1°30'33		13804 Dec 02 13:13	0° ∡ ¹	
minimum elong	13804 Jan 16 05:34	6° ≈ 34'49	1°31'19	asc. node	13804 Dec 13 12:32	16° ∡ 10'47	
max. Earth dist.	13804 Jan 19 13:57	13° ≈ 38′26	1.33656 AU		13804 Dec 20 18:03	0°₹	
evening rise	13804 Jan 24 03:56	22°≈53'40		morning set	13804 Dec 23 16:39	6° ⋜ 11'44	
	13804 Jan 27 21:14	0°) {					
desc. node	13804 Jan 29 08:49	2°) 43'31 0° °		superior conj	13804 Dec 30 11:35	21° ろ 03'13	1°37'07
avanina may al	13804 Feb 15 11:14	14° Ƴ 39'44	27911145	minimum elong	13804 Dec 30 12:12	21° る 06'36	1°38'08
evening max el retrograde	13804 Feb 27 19:39 13804 Mar 12 07:17	14° γ 39'44 22° Υ 07'48	27°11'45	max. Earth dist.	13805 Jan 01 13:49 13805 Jan 03 14:51	25° る 36'59 0°≈	1.32325 AU
evening set	13804 Mar 12 07:17 13804 Mar 18 23:01	19° Υ 36'11		evening rise	13805 Jan 03 14:51 13805 Jan 06 20:53	0°≈ 6°≈46'17	
min. Earth dist.	13804 Mar 22 20:34	15° Υ 55'11	0.65186 AU	desc. node	13805 Jan 15 05:30	0 ≈40 17 22°≈45'59	
asc. node	13804 Mar 24 12:29	13 γ 33 11 14° γ 04'26	J.05 100 M	desc. Hode	13805 Jan 19 10:19	0° \	
inferior conj	13804 Mar 25 04:38	13° Υ 19'06	0°12'53	evening max el	13805 Feb 09 07:36	27° ¥ 50'43	27°33'22
minimum elong	13804 Mar 25 04:17	13° Y ′20'07	0°12'37	<i>5 2</i>	13805 Feb 11 17:10	0° Υ	- ·
transit middle	13804 Mar 25 04:17	13° Y ′20′07	0°12'37	retrograde	13805 Feb 23 03:09	5° Υ 17'22	
transit begin	13804 Mar 25 02:25	13° Y 25'19		evening set	13805 Mar 01 23:56	2° Y 53'04	
transit end	13804 Mar 25 06:08	13° Y 14'55			13805 Mar 05 10:31	30° ₹ ₩	
morning rise	13804 Mar 31 11:14	7° Y 49'33		min. Earth dist.	13805 Mar 05 18:25	29°) 41′01	0.63290 AU

inferior conj	13805 Mar 08 13:22	26° ¥ 53′22	-0°55'41	inferior conj	13806 Feb 19 08:50	9° ¥ 59'22	-2°14'37
minimum elong	13805 Mar 08 15:10	26°) 48'49	0°54'47	minimum elong	13806 Feb 19 13:38	9°) 48'43	2°12'16
asc. node	13805 Mar 11 09:56	24° ℋ 10'45		asc. node	13806 Feb 26 07:23	5° 升 12'33	
morning rise	13805 Mar 15 08:55	21°) 39′05		morning rise	13806 Feb 26 18:52	5°) €03'13	
direct	13805 Mar 17 17:52	21° ¥ 11'57		direct	13806 Feb 28 21:56	4°) 44'07	
morning max el	13805 Mar 24 06:02	24°) €31'31	17°46'30	morning max el	13806 Mar 07 22:23	8° ¥ 16′04	17°52'41
Č	13805 Mar 28 18:17	$0^{\circ}\Upsilon$		Č	13806 Mar 22 02:17	$0^{\circ}\Upsilon$	
morning set	13805 Apr 09 13:56	19° Y ′21′05		morning set	13806 Mar 23 13:26	2° Y 38'49	
desc. node	13805 Apr 13 07:44	25° Y '46'50		desc. node	13806 Mar 31 04:15	16° Ƴ 18′03	
	13805 Apr 15 19:15	0°8					
	15000 11p1 10 15.10	Ů		superior conj	13806 Apr 03 07:36	21° Y '46'07	-0°24'42
superior conj	13805 Apr 22 00:56	10° 8 23'37	-1°04'29	minimum elong	13806 Apr 03 05:21	21° Υ '36'27	
minimum elong	13805 Apr 21 18:30	9° 8 57'12		minimum ciong	13806 Apr 08 04:14	0°8	0 2130
max. Earth dist.	13805 Apr 28 01:27	_	1.44656 AU	max. Earth dist.	13806 Apr 10 16:04	4° 8 06'56	1.43086 AU
max. Earm dist.	13805 Apr 28 01:27 13805 May 04 08:25	20 3 07 Π	1.44030 AU	evening rise	13806 Apr 17 02:21	14° 8 24'58	1.43000 AU
evening rise	13805 May 04 08:25	0 <u>П</u> 4° П 31'15		evening rise	13806 Apr 17 02.21 13806 Apr 27 07:38	0°Ⅱ	
evening rise		0° ©		avanina may al	-	28° ∏ 53'18	2195444
	13805 May 24 10:33		20040141	evening max el	13806 May 19 04:02	28 п ээ 18	21 34 44
evening max el	13805 Jun 05 08:26	15°503'07	20°40'41	1	13806 May 20 07:38		
asc. node	13805 Jun 07 07:03	16°951'12		asc. node	13806 May 25 04:09	3°931'05	
retrograde	13805 Jun 13 13:26	19°5547'29		retrograde	13806 May 28 11:28	4°520'45	
evening set	13805 Jun 17 17:17	18° © 09'27		evening set	13806 Jun 02 02:15	2°526'30	
inferior conj	13805 Jun 22 23:22	12° © 01'52	3°11'41		13806 Jun 04 11:03	30°Ŗ Ⅱ	
minimum elong	13805 Jun 22 23:09	12° © 02'36	3°10'37	inferior conj	13806 Jun 07 08:34		3°03'40
min. Earth dist.	13805 Jun 23 13:52	11° © 11'48	0.68451 AU	minimum elong	13806 Jun 07 07:26	26° Ⅱ 12'38	3°02'29
morning rise	13805 Jun 28 04:44	5° © 41'34		min. Earth dist.	13806 Jun 07 09:49	26° Ⅱ 04'20	0.68909 AU
direct	13805 Jul 03 14:07	3° © 19'19		morning rise	13806 Jun 12 12:26	19° Ⅱ 54'22	
desc. node	13805 Jul 10 08:00	6° ॐ 07'59		direct	13806 Jun 17 09:11	17° Ⅱ 49'37	
morning max el	13805 Jul 14 12:06	9° © 51'00	23°49'43	morning max el	13806 Jun 27 00:01	23° Ⅱ 29'09	22°20'39
	13805 Jul 30 10:48	0 $^{\circ}$ Ω		desc. node	13806 Jun 27 05:11	23° Ⅱ 42'11	
morning set	13805 Aug 18 16:28	0° ™ 06'09			13806 Jul 02 17:39	0ಂಣ	
	13805 Aug 18 15:01	0° m ∕			13806 Jul 23 19:16	$0^{\circ}\Omega$	
max. Earth dist.	13805 Aug 22 11:46	6° Mp 41′29	1.38724 AU	morning set	13806 Jul 30 09:00	10° Ω 24'31	
				max. Earth dist.	13806 Aug 04 11:47	18° Ω 51′00	1.41061 AU
superior conj	13805 Aug 29 23:48	20° m 22'50	-0°39'05		13806 Aug 10 23:05	0° m y	
minimum elong	13805 Aug 30 02:35	20° m 35'59	0°38'51				
asc. node	13805 Sep 03 07:54	28° Mp 41'44		superior conj	13806 Aug 12 07:44	2° m 24'58	-1°14'15
	13805 Sep 03 23:59	0∘ ত		minimum elong	13806 Aug 12 13:22	2° m 50'04	1°14'00
evening rise	13805 Sep 08 00:32	7° ≏ 52'46		asc. node	13806 Aug 21 04:28	18° m 40'58	
C	13805 Sep 20 14:08	0° M ₊		evening rise	13806 Aug 22 14:23	21° m 19'43	
evening max el	13805 Sep 24 07:05	4°M25'14	18°53'29		13806 Aug 27 06:44	0∘ ⊽	
retrograde	13805 Oct 02 21:43	8° M 44'38		evening max el	13806 Sep 07 13:12	16° ≏ 52'21	18°18'23
evening set	13805 Oct 04 18:48	8°M33'05		retrograde	13806 Sep 14 23:05	20° ≏ 38'00	
desc. node	13805 Oct 06 04:20	8°M10'21		evening set	13806 Sep 17 01:34	20° ₽ 20'31	
inferior conj	13805 Oct 13 01:10	4° ™ 14'42	-2°10'40	desc. node	13806 Sep 23 01:52	16° ≏ 53'43	
minimum elong	13805 Oct 12 19:41	4° ™ 24'26		inferior conj	13806 Sep 24 13:37	15° ≏ 40'53	-0°28'08
min. Earth dist.	13805 Oct 16 00:44		0.56581 AU	minimum elong	13806 Sep 24 12:35	15° ≏ 43'02	
mm. zarm u.st.	13805 Oct 19 12:20	30°R Ω	0.00001110	min. Earth dist.	13806 Sep 27 20:42	12° ♀ 57'41	0.58604 AU
morning rise	13805 Oct 20 17:26	29° Ω 24'41		morning rise	13806 Oct 01 20:10	10° £ 14'42	
direct	13805 Oct 26 11:19	28° Ω 05'56		direct	13806 Oct 08 03:41	8° ₾ 28'53	
	13805 Nov 02 11:10	0°M		morning max el	13806 Oct 22 11:09	16° ഫ 09'08	27°24'21
morning max el	13805 Nov 09 15:48		26°14'37	morning max cr	13806 Nov 02 19:26	0° ™	2/2421
morning max ci	13805 Nov 27 13:19	0° √	20 1437	asc. node	13806 Nov 17 06:20	24°M34'16	
asc. node	13805 Nov 27 13:19 13805 Nov 30 09:29	5° ∡ 109'24		asc. Houc	13806 Nov 17 00.20	0° √	
				marning got			
morning set	13805 Dec 08 03:28	20° ∡ 748′29		morning set	13806 Nov 22 11:30	5° ∡ 13'54	
	13805 Dec 12 08:10	0°₹			1200 (N 20 00 40	200 72704	1933105
	12005 D 14 22 11	50745121	1027122	superior conj	13806 Nov 29 09:48	20° ×727'04	1°32'05
superior conj	13805 Dec 14 22:11	5° る 45'21		minimum elong	13806 Nov 29 08:24	20° ₹ 19'11	1°33'01
minimum elong	13805 Dec 14 21:43	5° る 42'45		max. Earth dist.	13806 Nov 29 03:50	19° ₹ 53'39	1.31178 AU
max. Earth dist.	13805 Dec 15 19:27		1.31493 AU		13806 Dec 03 16:49	0°る	
evening rise	13805 Dec 21 21:36	20° る 56'59		evening rise	13806 Dec 06 03:48	5° る 20'14	
	13805 Dec 26 08:29	0° ≈			13806 Dec 19 00:27	0° ≈	
desc. node	13806 Jan 02 02:17	12° ≈ 25'39		desc. node	13806 Dec 19 23:12	1° ≈ 33'57	
	13806 Jan 13 14:09	0° ∀		evening max el	13807 Jan 04 17:36		26°38'24
evening max el	13806 Jan 22 15:49	10°) 24′01	27°23'19	retrograde	13807 Jan 18 16:39	29° ≈ 16′52	
retrograde	13806 Feb 05 14:48	17°) (42'45		evening set	13807 Jan 25 05:57	27° ≈ 30′50	
evening set							
•	13806 Feb 12 11:27	15°) 33′53		min. Earth dist.	13807 Jan 29 07:24		0.58988 AU
min. Earth dist.	13806 Feb 12 11:27 13806 Feb 16 06:15		0.61169 AU	min. Earth dist. inferior conj	13807 Jan 29 07:24 13807 Feb 01 11:25	24°≈53'29 22°≈27'24	

	12007 F 1 01 10 15	22012110	2025120	: E 4 E 4	12000 I 10 22 01	(000102	0.56067.411
minimum elong	13807 Feb 01 19:15	22°≈12'18	3°35'38	min. Earth dist.	13808 Jan 10 23:01	6°≈00'03	0.56967 AU
morning rise	13807 Feb 09 11:37	17°≈52'17		inferior conj	13808 Jan 13 18:01	4°≈08'24	
direct	13807 Feb 11 12:19	17°≈37'37		minimum elong	13808 Jan 14 02:46	3°≈53'46 30°Rる	4°54'25
asc. node	13807 Feb 13 04:49	17°≈48'12	18°18'19		13808 Jan 21 20:46	30°RO 29° ろ 55'35	
morning max el	13807 Feb 19 09:44	21°≈31'56 0°) €	16 16 19	morning rise	13808 Jan 22 04:39 13808 Jan 24 08:37	29 る 33 33 29° る 41'45	
morning set	13807 Feb 25 21:08	16°) 35′25		direct		29° ⊙ 41°45 0° ≈	
morning set	13807 Mar 07 03:18 13807 Mar 14 06:09	10°π35'25 0°Υ		asc. node	13808 Jan 26 18:46 13808 Jan 31 02:12	0°≈ 2°≈05'43	
	1360/ Mai 14 00.09	0 1			13808 Jan 31 02.12 13808 Feb 02 12:08	2 ≈03 43 4°≈08'18	19°05'19
aumorior coni	12907 Mar. 16, 12:40	4° Υ 10'08	0°12'06	morning max el	13808 Feb 02 12.08 13808 Feb 18 15:22	4 ≈00 18 0°)	19 03 19
superior conj	13807 Mar 16 12:40 13807 Mar 16 13:34	4 1 10 08 4° Υ 14'11	0°12'00	marning gat	13808 Feb 18 13.22 13808 Feb 19 03:02	0°) 57'34	
minimum elong	13807 Mar 16 08:40	3°Υ51'53	0 12 00	morning set	13808 Feb 19 03.02	0 Д3/34	
behind sun begin		4° Υ 36'27			12000 E-L 27 11.50	170 V 22142	0°42'58
behind sun end	13807 Mar 16 18:28	4° γ 36'27 6° γ 53'10		superior conj	13808 Feb 27 11:50	17°) 23'42	
desc. node	13807 Mar 18 00:45	17° Υ 30'31	1.41065 AU	minimum elong	13808 Feb 27 14:16	27° H 28'52	0°42'54
max. Earth dist.	13807 Mar 24 02:29	25° Υ 09'53	1.41003 AU	desc. node	13808 Mar 03 21:16	2/°π2832 0°Υ	
evening rise	13807 Mar 28 16:35 13807 Mar 31 16:24	0° 8		max. Earth dist.	13808 Mar 05 06:43 13808 Mar 05 09:18	0° γ 0° Υ 11'32	1.38818 AU
		0°U				6°Υ50'07	1.38818 AU
	13807 Apr 21 02:44	12° П 44'40	22914157	evening rise	13808 Mar 09 04:05		
evening max el	13807 May 01 19:41		23°14'56		13808 Mar 23 15:45	0°8	24925100
retrograde	13807 May 12 07:14	18° Ⅲ 54'53 18° Ⅲ 54'37		evening max el	13808 Apr 13 09:21	26° ႘ 37'32 0° Ⅱ	24°35′09
asc. node	13807 May 12 01:23			. 1	13808 Apr 17 04:16	0°Щ 3°Щ24'19	
evening set	13807 May 17 09:29	16° ∏ 45'57	2045115	retrograde	13808 Apr 24 23:33		
inferior conj	13807 May 22 18:09	10° Ⅱ 20'13	2°45'15	asc. node	13808 Apr 27 22:42	2° Ⅱ 45'47 1° Ⅱ 03'22	
minimum elong	13807 May 22 16:20	10° Ⅱ 26'27	2°43'57	evening set	13808 Apr 30 13:26		
min. Earth dist.	13807 May 22 06:33	11° I I00'16	0.68891 AU	i Balika	13808 May 01 16:21	30°R ႘	0.60405.441
morning rise	13807 May 27 23:08	4° Ⅱ 13'15		min. Earth dist.	13808 May 05 02:03	25° 8 53'59	0.68405 AU
direct	13807 Jun 01 07:11	2° ∏ 28'45	20050104	inferior conj	13808 May 06 02:15	24° 8 33'07	
morning max el	13807 Jun 09 16:52	7° Ⅱ 17'45	20°58'04	minimum elong	13808 May 06 00:07	24° 8 40'17	2°15'16
desc. node	13807 Jun 14 02:15	12° ∏ 12'16		morning rise	13808 May 11 10:59	18° 8 34'31	
	13807 Jun 27 01:29	0°95		direct	13808 May 15 06:47	17° 8 10'47	10047120
morning set	13807 Jul 10 01:22	19° 5 40'19		morning max el	13808 May 22 16:54	21° 8 18'21	19°47'30
To all the	13807 Jul 16 13:45	0°N	1 42120 411		13808 May 29 22:46	0°П	
max. Earth dist.	13807 Jul 17 18:15	1° Ω 55'10	1.43139 AU	desc. node	13808 May 30 23:11	1° Ⅱ 23'21	0.6
	12007 1 1 24 10 11	120 020100	1046102	greatest brilliancy	13808 Jun 04 17:27	8°Ⅱ10'04	-0.6m
superior conj	13807 Jul 24 18:11	13° Ω 30′08		morning set	13808 Jun 18 03:42	28° Ⅱ 23'13	
minimum elong	13807 Jul 25 01:29	14° Ω 00'59	1°46'09	D d C	13808 Jun 19 04:52	0°95	1 44701 411
	13807 Aug 03 06:24	0° m/y		max. Earth dist.	13808 Jun 29 06:57	15° © 44'21	1.44721 AU
evening rise	13807 Aug 05 14:13	4° Mp 08'04			12000 1 1 04 04 55		2005150
asc. node	13807 Aug 08 01:05	8° m/29'56	10000101	superior conj	13808 Jul 04 04:55	23°935'33	
evening max el	13807 Aug 22 01:21		18°03'21	minimum elong	13808 Jul 04 10:01	23°956'10	2°08'45
	13807 Aug 22 04:42	0° ⊽			13808 Jul 08 03:30	0°N	
retrograde	13807 Aug 28 17:37	3° Ω 17'55		evening rise	13808 Jul 17 19:00	16° Ω 05'54	
evening set	13807 Aug 31 03:42	2° £ 50'48		asc. node	13808 Jul 24 21:47	28° Ω 04'14	
	13807 Sep 04 14:18	30°RM)	0054150		13808 Jul 26 02:04	0° m)	10007110
inferior conj	13807 Sep 06 22:20	27° m 50'56	0°54'58	evening max el	13808 Aug 04 15:45	13° m 14'39	18°0/12
minimum elong	13807 Sep 06 23:56	27° mp 47'04	0°54'15	retrograde	13808 Aug 11 00:43	16° m 35'10	
desc. node	13807 Sep 09 23:25	24° Mp 56'06	0.60072.411	evening set	13808 Aug 13 19:06	15° Mp 55'17	1055157
min. Earth dist.	13807 Sep 10 01:35	24° Mp 51'09	0.60873 AU	inferior conj	13808 Aug 19 23:31	10° Mp 37'38	1°55'56
morning rise	13807 Sep 13 17:17	21° Mp 56'01		minimum elong	13808 Aug 20 01:59	10° Mp 30'55	1°54'45
direct	13807 Sep 20 08:04	19° Mp 45'05	27056141	min. Earth dist.	13808 Aug 22 16:18	7° Mp 42'19	0.63117 AU
morning max el	13807 Oct 04 14:09	27° m/40'23	27°56'41	morning rise	13808 Aug 26 06:52	4° Mp 24'23	
	13807 Oct 06 19:54	0∘ 亚		desc. node	13808 Aug 26 20:57	3° m 59'03	
	13807 Oct 27 13:36	0°M		direct	13808 Sep 01 22:45	1° m 54'39	
asc. node	13807 Nov 04 03:06	14°M17'25		morning max el	13808 Sep 15 22:31	9° m 56'19	27°50'15
morning set	13807 Nov 06 14:50	19°M22'48			13808 Oct 01 15:10	0∘ 亚	
F 4 F	13807 Nov 11 13:47	0° ⊼	1 21202 177		13808 Oct 18 21:14	0°M	
max. Earth dist.	13807 Nov 12 11:03	1° ∡ 757'04	1.31382 AU	morning set	13808 Oct 20 11:16	3°M09'45	
	1200731 12 22 5	50 3 05-5	1000150	asc. node	13808 Oct 20 23:48	4°M13'12	1.00100 : *-
superior conj	13807 Nov 13 20:34	5° ₹ 02'38	1°20'50	max. Earth dist.	13808 Oct 25 13:07	13°M43'54	1.32120 AU
minimum elong	13807 Nov 13 18:30	4° ₹ 51'10	1°21'30		44000		4005:-:
evening rise	13807 Nov 20 13:21	19° ∡ 750'14		superior conj	13808 Oct 28 04:33	19°M26'52	1°03'51
	13807 Nov 25 10:19	0°る		minimum elong	13808 Oct 28 02:16	19° ™ 14'24	1°04'13
desc. node	13807 Dec 06 20:15	19° る 58'47			13808 Nov 02 00:06	0° ∡ 7	
	13807 Dec 14 12:55	0° ≈		evening rise	13808 Nov 04 00:24	4° ₹ 22'05	
evening max el	13807 Dec 17 10:50	3°≈00'11	25°21'29	_	13808 Nov 17 12:41	0° る	
retrograde	13807 Dec 31 07:12	9° ≈ 57'55		desc. node	13808 Nov 22 17:25	7° පි 23'31	
evening set	13808 Jan 06 03:25	8° ≈ 40'19		evening max el	13808 Nov 27 21:24	13° る 10'48	23°43'38

		_					
retrograde	13808 Dec 11 09:12	19° る 53'38		retrograde	13809 Nov 21 23:31	29° ∡ ¹27'35	
evening set	13808 Dec 16 01:17	19° ろ 06'09		evening set	13809 Nov 25 06:15	29° ∡ ′03'41	
min. Earth dist.	13808 Dec 22 08:12	16° る 03'55	0.55396 AU	inferior conj	13809 Dec 03 23:02	25° ∡ ′09'33	-5°51'01
inferior conj	13808 Dec 24 04:05	14° る 58'51	-5°49'26	minimum elong	13809 Dec 03 18:36	25° ∡ 15'45	5°49'36
minimum elong	13808 Dec 24 08:31	14° る 52'16	5°47'59	min. Earth dist.	13809 Dec 03 14:35	25° ∡ ¹21'23	0.54567 AU
morning rise	13809 Jan 01 17:31	11° る 04'29		morning rise	13809 Dec 12 07:58	21° х 22'16	
direct	13809 Jan 04 09:15	10° る 46'59		direct	13809 Dec 15 19:59	20° ∡ ¹55'07	
morning max el	13809 Jan 15 01:42	15° る 54'16	20°15'13	morning max el	13809 Dec 28 00:43	26° ∡ ¹45'57	21°47'08
asc. node	13809 Jan 16 23:32	17° る 53'45		Č	13809 Dec 31 01:58	0°ჳ	
	13809 Jan 25 07:26	0° ≈		asc. node	13810 Jan 03 20:45	4° ප 55'10	
morning set	13809 Feb 02 09:11	15° ≈ 34'36		morning set	13810 Jan 17 19:11	0°≈19'16	
morning set	13809 Feb 09 09:58	0° ∀		morning set	13810 Jan 17 15:31	0°≈	
	13809160 09 09.38	0 /			13610 Jan 17 13.31	0 ~	
aumorior aomi	13809 Feb 10 00:28	1° ¥ 13'10	1°06'53	aumariar aani	12010 Ion 24 22:40	15° ≈ 28'00	1°23'50
superior conj				superior conj	13810 Jan 24 22:49		
minimum elong	13809 Feb 10 03:11	1°) €26'48	1°07'07	minimum elong	13810 Jan 25 01:00	15°≈39'28	1°24'25
max. Earth dist.	13809 Feb 15 16:05	12°) 17'13	1.36598 AU	max. Earth dist.	13810 Jan 29 04:06	24°≈09'05	1.34628 AU
desc. node	13809 Feb 18 17:48	18° ¥ 00'57			13810 Feb 01 03:04	0° ∀	
evening rise	13809 Feb 19 10:55	19° ∺ 18'59		evening rise	13810 Feb 02 09:44	2° ¥ 27'41	
	13809 Feb 25 13:34	0° Y		desc. node	13810 Feb 05 14:23	8° ¥ 25'37	
	13809 Mar 17 18:26	9° 8			13810 Feb 18 12:25	0 ° Υ	
evening max el	13809 Mar 26 22:48	10° 8 29'17	25°48'27	evening max el	13810 Mar 09 12:37	24° Y 14'06	26°47'21
retrograde	13809 Apr 08 11:25	17° 8 41'34			13810 Mar 16 23:30	9° 8	
evening set	13809 Apr 14 12:25	15° 8 12'30		retrograde	13810 Mar 22 17:38	1° 8 39'10	
asc. node	13809 Apr 14 20:07	14° 8 55'58		Ü	13810 Mar 27 23:10	30° ₹Ƴ	
min. Earth dist.	13809 Apr 18 18:12	10° 8 38'33	0.67472 AU	evening set	13810 Mar 29 04:33	29° Y '07'02	
inferior conj	13809 Apr 20 06:54	8° 8 42'23	1°37'26	asc. node	13810 Apr 01 17:33	25° Y ′39'14	
minimum elong	13809 Apr 20 04:54	8° 8 48'44	1°36'13	min. Earth dist.	13810 Apr 02 04:51	25° Υ '07'07	0.66130 AU
morning rise	13809 Apr 25 22:00	2° 8 53'27	1 30 13	inferior conj	13810 Apr 02 04:51	23° Υ 43'11	0.00130 AC
_	•	1° 8 49'10			-	22° Y 46'42	0°46'23
direct	13809 Apr 29 06:29	_	10051150	minimum elong	13810 Apr 04 04:41		0 40 23
morning max el	13809 May 06 00:16	5° 8 27'35	18°51'59	morning rise	13810 Apr 10 06:03	17° Υ 05'38	
desc. node	13809 May 17 20:00	21° 8 03'48		direct	13810 Apr 13 04:21	16° Y 18'17	
greatest brilliancy	13809 May 19 16:02	23° 8 50'18	-0.8m	morning max el	13810 Apr 19 13:38	19° Y ′40′05	18°13'00
	13809 May 23 16:23	Π °0			13810 Apr 27 14:09	0° 8	
morning set	13809 May 28 12:21	7° Ⅱ 29'21		desc. node	13810 May 04 16:41	11° 8 05'36	
	13809 Jun 11 23:18	0°€		morning set	13810 May 08 20:59	17° 8 47'28	
max. Earth dist.	13809 Jun 12 00:11	0° © 03'29	1.45648 AU		13810 May 16 12:37	Π $\circ 0$	
superior conj	13809 Jun 13 19:44	2° © 53'59	-2°13'03	superior conj	13810 May 24 03:45	12° Ⅱ 00'52	-1°57'56
minimum elong	13809 Jun 13 17:51	2° 5 46'34	2°14'05	minimum elong	13810 May 23 19:32	11° Ⅲ 28'41	1°58'20
evening rise	13809 Jun 29 00:05	27° © 02'39		max. Earth dist.	13810 May 25 20:03	14° Ⅲ 38′23	1.45843 AU
C	13809 Jun 30 20:02	$0^{\circ}\Omega$			13810 Jun 04 16:49	0∘ ©	
asc. node	13809 Jul 11 18:34	17° Ω 17'48		evening rise	13810 Jun 09 05:05	7°900'57	
evening max el	13809 Jul 19 05:12	26°Ω52'46	18°29'07	greatest brilliancy	13810 Jun 20 11:11	24° © 23'23	-0.7m
evening max er	13809 Jul 23 17:06	0° m)	10 27 07	greatest orimancy	13810 Jun 24 05:56	0°Ω	0.7111
retrograde	13809 Jul 25 16:07	0°Mp21'00		asc. node	13810 Jun 28 15:25	6° Ω 02'49	
renograde							10000111
	13809 Jul 27 14:27	30°R€		evening max el	13810 Jul 02 15:03	10° Ω 38'49	19°08'11
evening set	13809 Jul 28 19:13	29° Ω 26′03		retrograde	13810 Jul 09 12:25	14° Ω 27'40	
inferior conj	13809 Aug 03 13:08	23° Ω 52'38		evening set	13810 Jul 13 00:42	13° Ω 16′08	
minimum elong	13809 Aug 03 15:20	23° Ω 46′01	2°35'43	inferior conj	13810 Jul 18 11:37	7° Ω 28'22	3°01'05
min. Earth dist.	13809 Aug 05 16:18	21° Ω 19'38	0.65125 AU	minimum elong	13810 Jul 18 13:00	7° Ω 23'54	3°00'00
morning rise	13809 Aug 09 10:16	17° Ω 30′25		min. Earth dist.	13810 Jul 20 00:13	5° Ω 30′25	0.66770 AU
desc. node	13809 Aug 13 18:26	15° Ω 07'55		morning rise	13810 Jul 24 00:40	1° Ω 03'52	
direct	13809 Aug 15 21:58	14° Ω 51'13			13810 Jul 25 09:29	30° ₹ 🥯	
morning max el	13809 Aug 29 09:19	22° Ω 46′37	27°09'54	direct	13810 Jul 30 04:02	28°925'05	
C	13809 Sep 04 18:34	0° m)		desc. node	13810 Jul 31 15:51	28° © 33'21	
	13809 Sep 24 21:52	0∘ <u>v</u>			13810 Aug 04 11:03	$0^{\circ}\Omega$	
morning set	13809 Oct 03 22:03	16° ≏ 28'14		morning max el	13810 Aug 11 20:16	5° Ω 58'58	26°03'39
asc. node	13809 Oct 07 20:26	24° £ 16'57			13810 Aug 30 09:21	0°m)	20 00 07
			1 22402 AII	marning act	-	29° Mp 08'55	
max. Earth dist.	13809 Oct 08 06:36	25° Ω 08'43	1.33402 AU	morning set	13810 Sep 16 19:43		
	13809 Oct 10 14:57	0°M₊		n a v	13810 Sep 17 06:44	0∘ ত	1 25106 177
				max. Earth dist.	13810 Sep 20 14:02	6° ₽ 15'40	1.35196 AU
superior conj	13809 Oct 12 07:38	3° M 34′10	0°41'15	asc. node	13810 Sep 24 17:00	14° ≏ 23'52	
minimum elong	13809 Oct 12 05:44	3°M24'04	0°41'23				
evening rise	13809 Oct 19 11:05	18° M 51'14		superior conj	13810 Sep 26 03:09	17° ≏ 16'57	0°13'20
	13809 Oct 24 21:33	0° ∡ ¹		minimum elong	13810 Sep 26 02:24	17° ≏ 13'04	0°13'23
evening max el	13809 Nov 09 09:06	23° х 12′59	22°02'09	behind sun begin	13810 Sep 25 23:00	16° ≏ 55'48	
	1500) 1101 0) 0).00						
desc. node	13809 Nov 09 14:40	23° ∡ ¹26'30		behind sun end	13810 Sep 26 05:47	17° ≏ 30'21	

evening rise	13810 Oct 02 06:29 13810 Oct 03 19:20 13810 Oct 19 00:47	0°M 3°M11'34 0°⊀		minimum elong asc. node evening rise	13811 Sep 09 13:16 13811 Sep 11 13:33 13811 Sep 17 22:54	0° £ 34'08 4° £ 30'48 17° £ 17'43	0°18'54
evening max el	13810 Oct 22 06:56	3° х 41′21	20°32'34		13811 Sep 24 12:28	0° M	
desc. node	13810 Oct 27 12:01	7° ∡ ¹40'18		evening max el	13811 Oct 04 18:57	14°M56'27	19°23'14
retrograde	13810 Nov 02 10:05	9° ∡ 13'21		retrograde	13811 Oct 14 06:29	19°M41'13	
evening set	13810 Nov 04 16:05	9° х 00′49		desc. node	13811 Oct 14 09:24	19° M 41'10	
inferior conj	13810 Nov 13 15:00	5° ⋌ '05'58		evening set	13811 Oct 16 03:18	19°M30'58	
minimum elong	13810 Nov 13 05:03	5° ∡ 120′22	4°49'30	inferior conj	13811 Oct 24 18:31	15°M22'57	
min. Earth dist.	13810 Nov 14 21:03	4° 🗷 22'27	0.54657 AU	minimum elong	13811 Oct 24 10:20	15°M36'17	3°10'07
morning rise direct	13810 Nov 21 17:45 13810 Nov 26 04:41	1° ҂ 07'31 0° ҂ 24'52		min. Earth dist. morning rise	13811 Oct 27 06:49 13811 Nov 01 15:09	13°M44'57 10°M54'26	0.55659 AU
morning max el	13810 Nov 20 04.41 13810 Dec 09 12:42	6° ₹ 54'51	23°34'11	direct	13811 Nov 06 22:33	9°M50'45	
asc. node	13810 Dec 21 17:53	22° × ⁷ 52'28	25 5411	morning max el	13811 Nov 20 22:34	16°M53'33	25°20'55
use. Houe	13810 Dec 25 19:13	0°る		morning max or	13811 Dec 01 14:56	0° ⊼	23 20 33
morning set	13811 Jan 02 06:56	15° る 04'58		asc. node	13811 Dec 08 14:53	11° ∡ ³32′04	
				morning set	13811 Dec 17 18:37	29° х 46′43	
superior conj	13811 Jan 09 03:48	29° る 58'52	1°34'05		13811 Dec 17 21:05	ರ°0	
minimum elong	13811 Jan 09 05:02	0° ≈ 05'34	1°34'59				
	13811 Jan 09 04:01	0° ≈		superior conj	13811 Dec 24 12:59	14° る 38'51	1°38'02
max. Earth dist.	13811 Jan 11 23:53	6° ≈ 03'36	1.33040 AU	minimum elong	13811 Dec 24 13:08	14° る 39'41	1°39'05
evening rise	13811 Jan 16 20:58	16° ≈ 06′18		max. Earth dist.	13811 Dec 26 02:45	18° る 06'52	1.31914 AU
desc. node	13811 Jan 23 11:03	28°≈37'46		evening rise	13811 Dec 31 17:32	0°≈07'14	
	13811 Jan 24 05:22	0° ∀ 0° Ƴ			13811 Dec 31 16:08	0°≈	
avanina may al	13811 Feb 13 02:07 13811 Feb 20 01:53	0° Υ 7° Υ 41'18	27°24'31	desc. node	13812 Jan 10 07:47 13812 Jan 17 06:18	18° ≈ 31'32 0° 米	
evening max el retrograde	13811 Feb 20 01:53 13811 Mar 05 17:20	15° Υ 08'49	2/24/31	evening max el	13812 Jan 17 00:18 13812 Feb 02 12:33		27°33'09
evening set	13811 Mar 12 11:43	13 γ 08 49 12° γ 39'43		retrograde	13812 Feb 02 12:33 13812 Feb 16 09:37	28°\(\frac{1}{3}\)738	27 33 09
min. Earth dist.	13811 Mar 16 07:51	9° Υ 11'28	0.64417 AU	evening set	13812 Feb 23 07:19	25°) 42'04	
inferior conj	13811 Mar 18 20:40	6° Υ 29'16		min. Earth dist.	13812 Feb 27 01:22		0.62411 AU
minimum elong	13811 Mar 18 21:06	6° Y ′28′05	0°14'37	inferior conj	13812 Mar 01 00:10	19°) 52'31	
transit middle	13811 Mar 18 21:06	6° Y ′28′05	0°14'37	minimum elong	13812 Mar 01 03:10	19°) 45′21	1°26'34
transit begin	13811 Mar 18 19:51	6° Ƴ 31'26		asc. node	13812 Mar 05 12:29	16°) €03'43	
transit end	13811 Mar 18 22:21	6° Y 24'44		morning rise	13812 Mar 08 01:47	14°) √ 45'44	
asc. node	13811 Mar 19 15:01	5° Y 40'33		direct	13812 Mar 10 08:02	14°) €22'22	
morning rise	13811 Mar 25 08:29	1° Y 05'38		morning max el	13812 Mar 17 00:13	17° ¥ 45'34	17°46'55
direct	13811 Mar 27 21:57	0° Y 32′00			13812 Mar 25 20:23	0° Υ	
morning max el	13811 Apr 03 06:36	3° Y 48'59	17°51'10	morning set	13812 Apr 01 22:31	12° Y 15'35	
morning set	13811 Apr 20 09:52	29° Y 27'57		desc. node	13812 Apr 07 09:53	21° Y 50′17	
desc. node	13811 Apr 20 17:31 13811 Apr 21 13:19	0°8 1°822'52			13812 Apr 12 04:24	0°8	
desc. node	13611 Apr 21 13.19	1 022 32		superior conj	13812 Apr 13 15:17	2° 8 26'31	-0°47'33
superior conj	13811 May 03 22:30	21° 8 42'16	-1°26'34	minimum elong	13812 Apr 13 10:39	2° 8 07'08	
minimum elong	13811 May 03 14:05	21° 8 08'30		max. Earth dist.	13812 Apr 20 09:20	13° 8 30'52	1.44053 AU
max. Earth dist.	13811 May 08 16:04	29° 8 13'26		evening rise	13812 Apr 28 07:20	25° 8 59'21	
	13811 May 09 03:53	Π°		-	13812 Apr 30 21:57	$\Pi^{\circ}0$	
evening rise	13811 May 19 18:24	16° Ⅲ 26'44			13812 May 21 17:00	0 \circ \odot	
	13811 May 28 17:03	0 \circ 50		evening max el	13812 May 28 18:06	8° © 17'15	21°11'02
greatest brilliancy	13811 Jun 03 17:36	8° 9 53'18	-0.6m	asc. node	13812 Jun 01 09:27	11° © 25'45	
asc. node	13811 Jun 15 12:23	24° © 09'52		retrograde	13812 Jun 06 09:54	13° © 19'47	
evening max el	13811 Jun 15 19:34	24°5528'05	20°02'58	evening set	13812 Jun 10 18:21	11° © 34'31	
retrograde	13811 Jun 23 11:03	28°549'24		inferior conj	13812 Jun 16 00:13	5°922'07	3°09'34
evening set	13811 Jun 27 09:05	27°520'47	3°11'18	minimum elong	13812 Jun 15 23:36	5°524'16	3°08'29 0.68701 AU
inferior conj minimum elong	13811 Jul 02 16:08 13811 Jul 02 16:30	21° © 19'55 21° © 18'41	3°10'16	min. Earth dist.	13812 Jun 16 08:56 13812 Jun 20 05:30	4° © 51'49 30°Ŗ ∏	0.08/01 AU
min. Earth dist.	13811 Jul 02 10:30	20°504'17	0.67971 AU	morning rise	13812 Jun 21 04:38	29° ∏ 04'12	
morning rise	13811 Jul 07 23:34	14°957'25	5.5,7,1110	direct	13812 Jun 26 08:35	26° ∏ 49'13	
direct	13811 Jul 13 15:55	12°S27'27		-	13812 Jul 03 10:51	0°95	
desc. node	13811 Jul 18 13:09	13° © 56'17		desc. node	13812 Jul 04 10:24	0° 5 49'15	
morning max el	13811 Jul 25 06:43	19° 5 25'04	24°41'00	morning max el	13812 Jul 06 17:34	2° © 59'17	23°11'35
	13811 Aug 03 06:39	$0^{\circ}\Omega$			13812 Jul 27 08:11	$0^{\circ}\Omega$	
	13811 Aug 23 12:05	0° m/		morning set	13812 Aug 10 06:54	21° Ω 58′26	
morning set	13811 Aug 30 00:11	11° m 02'50		max. Earth dist.	13812 Aug 14 12:20	29° Ω 08'11	1.39731 AU
max. Earth dist.	13811 Sep 02 14:09	17° m/26'55	1.37379 AU		13812 Aug 15 00:20	0° m)	
	13811 Sep 09 06:14	0∘ ⊽					
·	12011 0 00 12 00	00 0 27/50	0010102	superior conj	13812 Aug 22 06:14	12° Mp 57'26	
superior conj	13811 Sep 09 12:00	0° ≏ 27'59	-U-19'U3	minimum elong	13812 Aug 22 10:15	13° Mp 15'54	0-55.49

aca mada	12012 Aug 20 10:07	24° m 33'39		aumariar aani	12012 Aug 04 05:20	24° Ω 35'35	192920
asc. node	13812 Aug 28 10:07	0° ∿		superior conj	13813 Aug 04 05:28		
	13812 Aug 31 06:02	0° 22 1° 2 01'21		minimum elong	13813 Aug 04 12:05	25° Ω 04'26	1-28/21
evening rise	13812 Aug 31 18:47		10027100		13813 Aug 07 07:10	0°M)	
evening max el	13812 Sep 16 19:33	26° ♀ 59'13	18°36'00	evening rise	13813 Aug 15 03:14	14° Mp 12'45	
	13812 Sep 20 18:31	0°M		asc. node	13813 Aug 15 06:42	14° m/28'38	
retrograde	13812 Sep 24 20:54	1°M.03'04			13813 Aug 24 00:59	0° ⊽	10000141
evening set	13812 Sep 26 19:37	0° M 49'37		evening max el	13813 Aug 31 04:44	9° Ω 41'02	18°09'41
	13812 Sep 29 04:16	30° ₽ Ω		retrograde	13813 Sep 07 05:55	13° Ω 16'37	
desc. node	13812 Sep 30 06:52	29° Ω 25'55		evening set	13813 Sep 09 11:23	12° £ 55'34	
inferior conj	13812 Oct 04 18:21	26° ≏ 22'13		inferior conj	13813 Sep 16 15:47	8° Ω 07'27	0°09'47
minimum elong	13812 Oct 04 14:54	26° ≏ 28'46	1°23'38	minimum elong	13813 Sep 16 16:06	8° △ 06'43	0°09'42
min. Earth dist.	13812 Oct 07 22:42	23° ≏ 57'51	0.57385 AU	transit middle	13813 Sep 16 16:06	8° △ 06'43	0°09'42
morning rise	13812 Oct 12 06:44	21° ≏ 15'54		transit begin	13813 Sep 16 13:24	8° ≏ 12'43	
direct	13812 Oct 18 06:53	19° ≏ 45'52		transit end	13813 Sep 16 18:49	8° ჲ 00'41	
morning max el	13812 Nov 01 13:44	27° ≏ 15'22	26°48'32	desc. node	13813 Sep 17 04:25	7° ٩ 39'19	
	13812 Nov 04 05:35	0° M ₊		min. Earth dist.	13813 Sep 19 22:31	5° ≏ 14'11	0.59551 AU
asc. node	13812 Nov 24 11:49	0° х 43′05		morning rise	13813 Sep 23 17:28	2° ≏ 27'44	
	13812 Nov 24 02:47	0° ∡ ¹		direct	13813 Sep 30 04:57	0° ჲ 30'17	
morning set	13812 Dec 01 04:32	14° ∡ 19'52		morning max el	13813 Oct 14 12:27	8° ≙ 18'44	27°42'56
					13813 Oct 31 01:14	0° M ₊	
superior conj	13812 Dec 08 00:17	29° ∡ ¹22'02	1°35'58	asc. node	13813 Nov 11 08:39	20° M 16′24	
minimum elong	13812 Dec 07 23:24	29° х¹ 17′04	1°36'59	morning set	13813 Nov 15 10:48	28° M 38'51	
	13812 Dec 08 07:05	0°ಕ			13813 Nov 16 02:08	0° ∡ 7	
max. Earth dist.	13812 Dec 08 10:00	0° ප 16'18	1.31290 AU				
evening rise	13812 Dec 14 20:52	14° ♂ 24'13		superior conj	13813 Nov 22 11:46	14° ∡ ¹01'57	1°28'03
	13812 Dec 22 16:33	0° ≈		minimum elong	13813 Nov 22 10:02	13° ∡ 52′18	1°28'51
desc. node	13812 Dec 27 04:37	7° ≈ 59'30		max. Earth dist.	13813 Nov 21 18:09	12° ∡ ¹23'43	1.31191 AU
	13813 Jan 11 22:45	0°) €		evening rise	13813 Nov 29 04:43	28° ∡ ¹50'53	
evening max el	13813 Jan 14 18:10	2° 升 51′07	27°08'24		13813 Nov 29 17:36	0° ろ	
retrograde	13813 Jan 28 17:34	10° ∺ 06'19		desc. node	13813 Dec 14 01:35	26° පි 51'00	
evening set	13813 Feb 04 12:12	8° ₩ 05'56			13813 Dec 16 02:49	0° ≈	
min. Earth dist.	13813 Feb 08 08:35	5° ¥ 23'17	0.60235 AU	evening max el	13813 Dec 27 16:24	14° ≈ 13′05	26°09'16
inferior conj	13813 Feb 11 12:57	2°) 44′01	-2°50'14	retrograde	13814 Jan 10 15:14	21° ≈ 17'33	
minimum elong	13813 Feb 11 19:07	2°) 31′06	2°47'19	evening set	13814 Jan 16 22:19	19° ≈ 43'15	
S	13813 Feb 15 01:12	30°R≈		min. Earth dist.	13814 Jan 21 05:44	17° ≈ 06'31	0.58088 AU
morning rise	13813 Feb 19 05:16	27° ≈ 56'55		inferior conj	13814 Jan 24 07:23	14° ≈ 53'10	-4°14'01
asc. node	13813 Feb 20 09:56	27° ≈ 43'13		minimum elong	13814 Jan 24 16:02	14° ≈ 37'26	4°10'34
direct	13813 Feb 21 06:44	27° ≈ 40'13		morning rise	13814 Feb 01 12:43	10° ≈ 27'30	
	13813 Feb 27 02:50	0°) €		direct	13814 Feb 03 13:44	10° ≈ 13'47	
morning max el	13813 Feb 28 15:04	1° ¥ 20′20	18°01'09	asc. node	13814 Feb 07 07:22	11° ≈ 02'22	
morning set	13813 Mar 16 04:49	25°) 52'04		morning max el	13814 Feb 11 23:10	14° ≈ 21'05	18°35'31
. 8	13813 Mar 18 10:30	0° Υ		<i>y</i>	13814 Feb 22 16:10	0°) €	
desc. node	13813 Mar 25 06:25	12° Υ ′24'01		morning set	13814 Feb 27 23:22	10° ¥ 00'47	
acco. noac	15015 11141 20 00.20	12 , 2 , 0 1		morning sec	13011100 27 23.22	10 ,(00 .,	
superior conj	13813 Mar 26 08:03	14° Ƴ 17'24	-0°08'32	superior conj	13814 Mar 08 21:23	27°) €03'50	0°25'59
minimum elong	13813 Mar 26 07:20	14° Υ 14'13	0°08'34	minimum elong	13814 Mar 08 23:07	27°) 11'53	0°25'51
behind sun begin	13813 Mar 26 00:35	13° Υ '44'29	0 0031	minimum crong	13814 Mar 10 11:30	0°Υ	0 23 31
behind sun end	13813 Mar 26 14:04	14° Y 43'54		desc. node	13814 Mar 12 02:56	2° Υ ′59'41	
max. Earth dist.	13813 Apr 02 21:54	27° Y °15'28	1.42267 AU	max. Earth dist.	13814 Mar 16 06:01		1.40125 AU
man Bartin diot.	13813 Apr 04 13:46	0°8	1.12207110	evening rise	13814 Mar 20 09:30	17° Υ 22'32	1.10120110
evening rise	13813 Apr 08 10:09	6° 8 13'33		evening rise	13814 Mar 28 05:30	0°8	
evening rise	13813 Apr 24 03:09	0°II			13814 Apr 18 16:03	0°II	
evening max el	13813 May 11 11:39	22° I 107'13	22°28'21	evening max el	13814 Apr 24 02:17	5° ∏ 59'31	23°49'28
asc. node	13813 May 19 06:36	27° II 35'13	22 20 21	retrograde	13814 May 05 01:45	12° ∏ 26'27	23 47 20
retrograde	13813 May 21 07:16	27° I 53'56		asc. node	13814 May 06 03:53	12° Ⅲ 20′27	
evening set	13813 May 26 02:47	25° I 53'13		evening set	13814 May 10 08:49	10° ∏ 12'19	
inferior conj	13813 May 31 09:50		2°57'06	min. Earth dist.	13814 May 15 02:10	4° П 41'52	0.68741 AU
minimum elong	13813 May 31 08:24	19° Ⅲ 36'30	2°55'52	inferior conj	13814 May 15 19:04	3° П 44'10	
min. Earth dist.	13813 May 31 05:35	19° Ⅱ 46'18	0.68958 AU	minimum elong	13814 May 15 17:04	3° Д 51'00	
morning rise	13813 Jun 05 13:51	13° Ⅱ 19'53	0.00750 AU	mmmum clong	13814 May 18 16:24	30°R 8	2 33 02
direct	13813 Jun 10 05:05	11° II 23'38		morning rise	13814 May 21 01:18	27° 8 40'21	
morning max el	13813 Jun 19 07:16	16° Ⅱ 41'36	21°44'16	direct	13814 May 25 04:04	26° 8 04'35	
desc. node	13813 Jun 21 07:33	18° Д 41'36	21 TT 10	uncet	13814 Jun 01 12:30	20 Ο 04 33	
dese. Houe	13813 Jun 30 04:26	18 ш 4911		morning max el	13814 Jun 02 02:52	0° П 34'43	20°26'14
	13813 Jul 20 09:19	0° U		desc. node	13814 Jun 08 04:35	7° П 38'11	20 20 17
morning set	13813 Jul 20 09.19 13813 Jul 21 12:42	0 δί 1° Ω 48'31		uese. Houe	13814 Jun 23 20:06	0.60€	
max. Earth dist.	13813 Jul 27 14:13		1.41988 AU	morning set	13814 Jun 23 20:06 13814 Jun 30 21:03	0°99 10°9944'16	
max. Earth tist.	13013 Jul 2/ 14:13	11 663814	1.41700 AU	morning set	15014 Juli 50 21:03	10 ×944 10	

max. Earth dist.	13814 Jul 09 23:09 13814 Jul 13 00:59	25°©01'54 0° Ω	1.43885 AU	max. Earth dist.	13815 Jun 16 18:30 13815 Jun 22 14:34	0°ട 9° ട 07'32	1.45208 AU
superior conj	13814 Jul 16 05:55	5° Ω 15'29	1°56'50	superior conj	13815 Jun 26 07:09	14° © 57'45	2012/21
minimum elong	13814 Jul 16 12:55	5°Ω44'26	1°57'22	minimum elong	13815 Jun 26 09:43	15°907'57	
evening rise	13814 Jul 28 19:35	26°Ω40'49	1 3 , 22	minimum crong	13815 Jul 05 14:56	0°Ω	2 13 31
	13814 Jul 30 17:18	0° m)		evening rise	13815 Jul 10 14:41	8° Ω 13'11	
asc. node	13814 Aug 02 03:20	4° m) 11'51		asc. node	13815 Jul 20 00:03	23° Ω 37'44	
evening max el	13814 Aug 14 18:22	22° m 51'58	18°02'49		13815 Jul 24 04:51	0° m)	
retrograde	13814 Aug 21 06:10	26° Mp 13'39		evening max el	13815 Jul 29 08:44	6°Mp21′58	18°14'20
evening set	13814 Aug 23 19:50	25°M)41'21		retrograde	13815 Aug 04 17:16	9° ™ 43'56	
inferior conj	13814 Aug 30 07:59	20° m 33'49	1°23'26	evening set	13815 Aug 07 15:25	8° m 57'42	
minimum elong	13814 Aug 30 10:08	20° Mp 28'22	1°22'27	inferior conj	13815 Aug 13 14:53	3° TQ 32'53	2°15'34
min. Earth dist.	13814 Sep 02 07:27	17° m 33'29	0.61846 AU	minimum elong	13815 Aug 13 17:21	3° m 25'54	
desc. node	13814 Sep 04 01:58	15° m 55'58		min. Earth dist.	13815 Aug 16 01:59	0° ™ 45'33 30°R Ω	0.64014 AU
morning rise direct	13814 Sep 05 21:56 13814 Sep 12 14:08	14° Mp 30'11 12° Mp 10'04		morning rise	13815 Aug 16 18:52 13815 Aug 19 17:41	30 κδι 27° Ω 15'03	
morning max el	13814 Sep 26 17:49	20° m) 08'57	27°58'30	desc. node	13815 Aug 19 17:41 13815 Aug 21 23:29	25°Ω47'08	
morning max ci	13814 Oct 05 04:53	20 ಗಿ0037	27 36 30	direct	13815 Aug 26 08:23	24°Ω40'23	
	13814 Oct 24 00:51	0° m		uncet	13815 Sep 06 07:08	0° m)	
asc. node	13814 Oct 29 05:23	10°ML05'27		morning max el	13815 Sep 09 03:27	2° m/40'08	27°36'51
morning set	13814 Oct 30 11:28	12°M38'48		C	13815 Sep 29 13:27	0∘ <u>v</u>	
max. Earth dist.	13814 Nov 04 23:34	24°M20'37	1.31628 AU	morning set	13815 Oct 14 04:05	26° ≙ 13'27	
				asc. node	13815 Oct 16 02:03	0°Ml04'28	
superior conj	13814 Nov 06 21:36	28° M $_{33'23}$	1°14'21		13815 Oct 16 01:10	0° M	
minimum elong	13814 Nov 06 19:23	28°M21'08	1°14'53	max. Earth dist.	13815 Oct 18 22:24	5° ™ 58'08	1.32605 AU
	13814 Nov 07 13:17	0° ∡ ¹					
evening rise	13814 Nov 13 15:08	13° ∡ ′22′18		superior conj	13815 Oct 22 03:44	12°M50'14	
	13814 Nov 21 20:26	0°る		minimum elong	13815 Oct 22 01:31	12°M38'19	0°55'11
desc. node	13814 Nov 30 22:39	14°る52'18	24041127	evening rise	13815 Oct 29 02:13	27°M53'00	
evening max el	13814 Dec 09 06:30	24°る45'16 0°≈	24°41'37		13815 Oct 30 02:03	0°♂ 0°♂	
retrograde	13814 Dec 16 11:28 13814 Dec 23 00:15	0°≈ 1°≈36'49		desc. node	13815 Nov 16 09:03 13815 Nov 17 19:49	0° る 1° る 44'31	
evening set	13814 Dec 28 09:41	0°≈32'30		evening max el	13815 Nov 17 19.49 13815 Nov 20 16:15	4°る46'30	22°59'49
evening set	13814 Dec 29 16:24	0 ≈3230 30°Rる		retrograde	13815 Dec 03 20:21	11°る19'00	22 37 47
min. Earth dist.	13815 Jan 02 18:19	27° る 45'13	0.56231 AU	evening set	13815 Dec 07 22:31	10° る 42'37	
inferior conj	13815 Jan 05 05:04	26° ප 12'31	-5°24'09	min. Earth dist.	13815 Dec 15 01:26	7° る 25'41	0.54940 AU
minimum elong	13815 Jan 05 12:45	26° පි 00'21	5°21'46	inferior conj	13815 Dec 16 07:28	6° ප 42'44	-5°57'23
morning rise	13815 Jan 13 17:54	22° る 07'56		minimum elong	13815 Dec 16 08:20	6° る 41'29	5°56'19
direct	13815 Jan 16 01:50	21° る 53'04		morning rise	13815 Dec 24 19:39	2° る 53'34	
asc. node	13815 Jan 25 04:44	25° る 59'42		direct	13815 Dec 27 19:27	2° る 32'39	
morning max el	13815 Jan 25 20:24	26° る 36'23	19°32'04	morning max el	13816 Jan 08 03:35	7° る 57'55	20°51'55
	13815 Jan 28 21:41	0° ≈		asc. node	13816 Jan 12 02:01	12° る 20'29	
morning set	13815 Feb 12 02:11	24° ≈ 30'03			13816 Jan 22 20:58	0° ≈	
	13815 Feb 14 19:41	0° ∺		morning set	13816 Jan 27 10:16	9° ≈ 11'17	
superior conj	13815 Feb 20 02:43	10°) 33′24	0°53'58	superior conj	13816 Feb 03 19:54	24° ≈ 34'48	1°14'54
minimum elong	13815 Feb 20 05:24	10 X 33 24 10° X 46'31	0°54'00	minimum elong	13816 Feb 03 22:28	24°≈47'55	1°15'17
max. Earth dist.	13815 Feb 26 12:29	22°) 43'42	1.37866 AU	minimum crong	13816 Feb 06 12:06	0° ∀	1 13 17
desc. node	13815 Feb 26 23:27	23°) 33'53		max. Earth dist.	13816 Feb 08 21:21	4°) 42'38	1.35721 AU
evening rise	13815 Mar 02 05:35	29°) €24'14		evening rise	13816 Feb 12 19:38	12°) 10′56	
C	13815 Mar 02 13:43	0° Y		desc. node	13816 Feb 13 19:59	14°) 03′11	
	13815 Mar 21 13:23	9° 8			13816 Feb 23 01:44	0° Y	
evening max el	13815 Apr 06 15:55	19° 8 52'49	25°07'40		13816 Mar 15 16:23	0° 8	
retrograde	13815 Apr 18 16:06	26° 8 51'07		evening max el	13816 Mar 19 05:31	3° 8 42'44	26°15'39
asc. node	13815 Apr 23 01:15	25° 8 29'05		retrograde	13816 Apr 01 01:32	11° 8 01'27	
evening set	13815 Apr 24 10:51	24° 8 26'21		evening set	13816 Apr 07 07:09	8° 8 30'12	
min. Earth dist.	13815 Apr 28 20:29	19° 8 32'09	0.68066 AU	asc. node	13816 Apr 08 22:39	6° 8 59'13	0.66055 : **
inferior conj	13815 Apr 30 01:56	17° 8 55'47	2°01'20	min. Earth dist.	13816 Apr 11 10:25	4°811'14 2°802'10	0.66955 AU
minimum elong	13815 Apr 29 23:47	18° 8 02'50	2°00'00	inferior conj	13816 Apr 13 04:27	2° 8 02'10	1°17'32 1°16'27
morning rise direct	13815 May 05 13:02 13815 May 09 04:00	12°801'03		minimum elong	13816 Apr 13 02:42 13816 Apr 14 21:12	2° ⊘ 0/33	1 102/
morning max el	13815 May 16 06:01	10 8 43 38	19°21'52	morning rise	13816 Apr 14 21:12 13816 Apr 18 23:07	30 K 1 26° Υ 18'04	
desc. node	13815 May 16 00:01	27° 8 02'34	1, 21,52	direct	13816 Apr 22 03:11	25° Υ 21'18	
	13815 May 28 02:21	0°Ⅱ		morning max el	13816 Apr 28 16:16	28° Υ 50'45	18°33'23
greatest brilliancy	13815 May 28 22:55	1° Ⅱ 15'43	-0.7m	5	13816 Apr 29 19:12	0°8	
morning set	13815 Jun 09 23:20	19° Ⅱ 29'17		desc. node	13816 May 11 22:15	16° 8 52'59	
-					-		

morning set	13816 May 19 16:54 13816 May 20 07:25	29° ႘ 02'58 0°Ⅲ			13817 May 13 00:27	П°0	
				superior conj	13817 May 15 03:38	3° Ⅱ 22′13	-1°46'10
superior conj	13816 Jun 04 16:59	24° Ⅱ 05'34	-2°09'02	minimum elong	13817 May 14 18:34	2° ∏ 46′28	1°46'14
minimum elong	13816 Jun 04 11:51	23° Ⅱ 45'31	2°09'53	max. Earth dist.	13817 May 18 05:35	8° Ⅱ 12'34	1.45696 AU
max. Earth dist.	13816 Jun 04 09:42	23° Ⅲ 37′05	1.45826 AU	evening rise	13817 May 31 05:58	28° ∏ 23'44	
	13816 Jun 08 11:43	0.20			13817 Jun 01 06:58	0°©	
evening rise	13816 Jun 20 09:15	18°5544'10		greatest brilliancy	13817 Jun 13 10:42	18°928'06	-0.7m
	13816 Jun 27 12:01	0°N	0.0	1	13817 Jun 21 18:33	0° N	
greatest brilliancy	13816 Jun 28 13:31 13816 Jul 05 20:51	1° Ω 40′02	-0.8m	asc. node	13817 Jun 22 17:45	1° Ω 10'09 3° Ω 51'06	10820120
asc. node evening max el	13816 Jul 11 20:52	12° Ω 40'06 20° Ω 03'47	18°43'35	evening max el retrograde	13817 Jun 25 04:31 13817 Jul 02 08:56	$7^{\circ}\Omega 52'53$	19°29'39
retrograde	13816 Jul 18 11:16	20° Ω 39'29	16 43 33	evening set	13817 Jul 02 08:30 13817 Jul 06 01:11	6° Ω 34'17	
evening set	13816 Jul 21 18:11	$23^{\circ} \Omega 39 29$ $22^{\circ} \Omega 37'33$		inferior conj	13817 Jul 00 01:11 13817 Jul 11 10:06	0° Ω 40'42	3°06'58
inferior conj	13816 Jul 27 08:42	$16^{\circ}\Omega 57'33$	2°49'01	minimum elong	13817 Jul 11 10:00	0°Ω37'32	
minimum elong	13816 Jul 27 10:35	16°Ω51'39	2°47'53	minimum ciong	13817 Jul 11 22:23	30°R95	3 03 33
min. Earth dist.	13816 Jul 29 05:35	14°Ω38'26	0.65878 AU	min. Earth dist.	13817 Jul 12 16:35	28°\$59'56	0.67336 AU
morning rise	13816 Aug 02 02:05	10° £ 33'30		morning rise	13817 Jul 16 20:25	24° © 16'20	
desc. node	13816 Aug 07 20:56	7° Ω 54'48		direct	13817 Jul 22 19:17	21°9540'18	
direct	13816 Aug 08 10:28	7° Ω 53'38		desc. node	13817 Jul 25 18:19	22°513'00	
morning max el	13816 Aug 21 14:45	15° Ω 41'48	26°44'19	morning max el	13817 Aug 04 01:40	29° © 01'22	25°29'50
	13816 Sep 02 09:39	0° m)			13817 Aug 05 00:21	0 $^{\circ}$ Ω	
	13816 Sep 21 08:55	0∘ ⊽			13817 Aug 27 04:41	0° ™	
morning set	13816 Sep 26 09:43	9° ≏ 16′26		morning set	13817 Sep 09 00:41	21° m 38'59	
max. Earth dist.	13816 Sep 30 11:50	17° ≏ 14'27	1.34112 AU	max. Earth dist.	13817 Sep 12 15:26	28° m 19'11	1.36083 AU
asc. node	13816 Oct 01 22:38	20° £ 09'31			13817 Sep 13 12:45	0∘ ত	
superior conj	13816 Oct 05 03:53	26° ₽ 47'07	0°30'00	superior conj	13817 Sep 18 19:19	10° ≏ 17'26	0°00'03
minimum elong	13816 Oct 05 02:22	26° ≏ 39'10	0°30'05	minimum elong	13817 Sep 18 19:18	10° ≙ 17'24	0°00'08
	13816 Oct 06 16:40	0° M		behind sun begin	13817 Sep 18 13:03	9° ≏ 46'11	
evening rise	13816 Oct 12 12:07	12°M18'30		behind sun end	13817 Sep 19 01:33	10° ≏ 48'41	
	13816 Oct 21 12:39	0° ∡ ¹		asc. node	13817 Sep 18 19:12	10° ≙ 16'53	
evening max el	13816 Nov 01 07:03	14° ₹ ′54'21	21°21'46	evening rise	13817 Sep 26 18:43	26° △ 33'34	
desc. node	13816 Nov 03 17:06	17° ∡ 03'42			13817 Sep 28 11:19	0° M	
retrograde	13816 Nov 13 07:58	20° ₹ ′53′00		evening max el	13817 Oct 14 10:55	25°M42'01	20°00'25
evening set	13816 Nov 16 02:18	20° ⋌ 35'20			13817 Oct 20 12:28	0° ∡ 7	
inferior conj	13816 Nov 24 23:12	16° ₹ 42'11		desc. node	13817 Oct 21 14:28	0° ₹ 23'34	
minimum elong	13816 Nov 24 15:32	16° ₹ 52'57	5°30'58	retrograde	13817 Oct 24 21:22	0° ₹ 53'47	
min. Earth dist.	13816 Nov 25 07:18	16° ₹ 30'46	0.54481 AU	evening set	13817 Oct 26 21:24 13817 Oct 29 12:10	0° ∡ 743'12	
morning rise direct	13816 Dec 03 05:26 13816 Dec 07 03:00	12° х 52'49 12° х 20'01		inferior conj	13817 Oct 29 12:10 13817 Nov 04 18:39	30°RM 26°M44'17	4912150
morning max el	13816 Dec 07 03:00 13816 Dec 19 21:09	18° × ² 28'16	22°31'48	minimum elong	13817 Nov 04 18:39 13817 Nov 04 08:43	26°M59'17	4°10'06
asc. node	13816 Dec 19 21:09 13816 Dec 28 23:12	29° х 46'57	22 31 40	min. Earth dist.	13817 Nov 04 08:43 13817 Nov 06 15:16	25°M36'50	0.54973 AU
asc. nouc	13816 Dec 29 02:36	0°る		morning rise	13817 Nov 12 18:49	22°M34'24	0.54973 AU
morning set	13817 Jan 10 21:13	23° ろ 56'39		direct	13817 Nov 17 14:47	21°M43'24	
morning sec	13817 Jan 13 17:13	0° ≈		morning max el	13817 Dec 01 07:15	28°M29'08	24°20'47
				. 8	13817 Dec 02 19:55	0° × 7⊓	
superior conj	13817 Jan 17 21:24	8°≈57'12	1°28'58	asc. node	13817 Dec 15 20:17	18° ₹ 03'44	
minimum elong	13817 Jan 17 23:13	9° ≈ 06'52	1°29'43		13817 Dec 22 05:09	ರ°0	
max. Earth dist.	13817 Jan 21 12:22	16° ≈ 32'59	1.33887 AU	morning set	13817 Dec 26 09:09	8° ප් 41'02	
evening rise	13817 Jan 26 00:03	25° ≈ 32'43					
	13817 Jan 28 07:51	0°) €		superior conj	13818 Jan 02 04:28	23° る 32'51	1°36'31
desc. node	13817 Jan 30 16:33	4°) 22'42		minimum elong	13818 Jan 02 05:15	23° る 37'08	1°37'30
	13817 Feb 15 12:22	0° Υ		max. Earth dist.	13818 Jan 04 11:08	28° ろ 29'38	1.32494 AU
evening max el	13817 Mar 01 19:01	17° Y ′20′30	27°06'12		13818 Jan 05 03:58	0° ≈	
retrograde	13817 Mar 15 05:13	24° Y ′48′27		evening rise	13818 Jan 09 15:37	9° ≈ 21'45	
evening set	13817 Mar 21 19:46	22°\bar{\gamma}16'25	0.65441.477	desc. node	13818 Jan 17 13:15	24°≈27'37	
min. Earth dist.	13817 Mar 25 17:57	18° Y 30'38	0.65441 AU		13818 Jan 20 17:27	0° ∀ 0° Υ	
asc. node	13817 Mar 26 20:06	17° Y 17'20	0022120	avanie 1	13818 Feb 11 16:39		27022104
inferior conj	13817 Mar 28 00:15	15° Y 57'14	0°22'20	evening max el	13818 Feb 12 07:23	0° Υ 35'42 8° Υ 02'53	21-32 ⁻ 04
minimum elong	13817 Mar 27 23:39	15° Υ 58'58 10° Υ 25'34	0°21'55	retrograde evening set	13818 Feb 26 02:08 13818 Mar 04 22:23	8°°γ°02'53 5° Υ 37'14	
morning rise direct	13817 Apr 03 05:07 13817 Apr 05 23:25	9° Y '44'36		min. Earth dist.	13818 Mar 04 22:23 13818 Mar 08 17:14	2° Y 21'02	0.63588 AU
morning max el	13817 Apr 03 23.23 13817 Apr 12 07:34	9 1 44 30 13° Υ 03'01	18°01'38	inferior conj	13818 Mar 11 10:38	29°) 34'23	
morning max ci	13817 Apr 12 07.34 13817 Apr 24 11:03	0° 8	10 01 30	minimum elong	13818 Mar 11 12:03	29° X 34'23	
desc. node	13817 Apr 28 18:54	7° 8 01'45			13818 Mar 11 00:39	30° ₹	J .J J Z
morning set	13817 Apr 30 13:41	9° 8 56'23		asc. node	13818 Mar 13 17:34	27° ¥ 19'31	
2	1						

	1201034 10 0407	2.40\/.1.512.0			12010 14 10 17 50	1001/25111	15050120
morning rise	13818 Mar 18 04:07	24°) 17'30		morning max el	13819 Mar 10 17:59	10° ¥ 55'11	17°50'38
direct	13818 Mar 20 14:09	23°) (48'49			13819 Mar 23 11:17	0°Υ •••••••	
morning max el	13818 Mar 27 01:11		17°47'08	morning set	13819 Mar 26 10:20	5°Υ18'00	
	13818 Mar 29 14:49	0°Υ		desc. node	13819 Apr 02 12:05	17° Ƴ 53'56	
morning set	13818 Apr 12 13:24	22° Y ′07'20				• ••••	
desc. node	13818 Apr 15 15:30	27° Y 23'33		superior conj	13819 Apr 06 10:06	24° Υ 41'01	
	13818 Apr 17 04:23	0° 8		minimum elong	13819 Apr 06 07:16	24° Y ′28'51	0°30'32
					13819 Apr 09 13:32	0°8	
superior conj	13818 Apr 25 06:58	13° 8 28'17		max. Earth dist.	13819 Apr 13 15:47	6° 8 45'29	1.43351 AU
minimum elong	13818 Apr 24 23:56	12° 8 59'35		evening rise	13819 Apr 20 10:35	17° 8 34'32	
max. Earth dist.	13818 May 01 00:09	22° 8 39'44	1.44843 AU		13819 Apr 28 13:37	0°П	
	13818 May 05 16:09	0°Щ			13819 May 20 16:09	0°50	
evening rise	13818 May 10 17:00	7° Ⅱ 46'46		evening max el	13819 May 22 02:55	1° © 30'44	21°43'08
	13818 May 25 13:53	0∘ ௐ		asc. node	13819 May 27 11:51	5° © 47'11	
evening max el	13818 Jun 08 06:30	17° © 40'24	20°30'34	retrograde	13819 May 31 06:07	6° 9 51'27	
asc. node	13818 Jun 09 14:45	18° © 57'00		evening set	13819 Jun 04 19:16	4° 9 59'25	
retrograde	13818 Jun 16 07:48	22° © 18'27			13819 Jun 09 03:13	30°Ŗ Ⅱ	
evening set	13818 Jun 20 10:08	20° © 42'51		inferior conj	13819 Jun 10 01:24		3°05'32
inferior conj	13818 Jun 25 16:24	14° © 37'05	3°11'55	minimum elong	13819 Jun 10 00:24	28° ∏ 46′29	3°04'24
minimum elong	13818 Jun 25 16:20	14° © 37'18	3°10'52	min. Earth dist.	13819 Jun 10 04:33	28° Ⅲ 31'59	0.68873 AU
min. Earth dist.	13818 Jun 26 08:57	13° © 40'15	0.68343 AU	morning rise	13819 Jun 15 05:21	22° ∏ 27'47	
morning rise	13818 Jun 30 22:14	8° 5 16'09		direct	13819 Jun 20 04:00	20° Ⅲ 20′18	
direct	13818 Jul 06 09:30	5° © 51'39		desc. node	13819 Jun 29 12:51	25° Ⅱ 41'16	
desc. node	13818 Jul 12 15:38	8° © 17'00		morning max el	13819 Jun 29 23:26	26° ∏ 07'32	22°33'42
morning max el	13818 Jul 17 11:51	12° © 30'13	24°03'04		13819 Jul 03 12:38	0₀ ©	
	13818 Jul 31 13:46	0 \circ Ω			13819 Jul 25 02:00	0 \circ Ω	
	13818 Aug 19 23:56	0° m		morning set	13819 Aug 02 16:42	13° Ω 37'12	
morning set	13818 Aug 21 20:24	3° Mp 09'05		max. Earth dist.	13819 Aug 07 13:06	21° Ω 40′28	1.40728 AU
max. Earth dist.	13818 Aug 25 13:27	9° TQ 37'46	1.38373 AU		13819 Aug 12 08:58	0° Т р	
superior conj	13818 Sep 01 22:28	23° m 11'59	-0°33'44	superior conj	13819 Aug 15 09:15	5° m 21'29	-1°09'00
minimum elong	13818 Sep 02 00:50	23° m 23'14	0°33'33	minimum elong	13819 Aug 15 14:28	5° m 44'58	1°08'45
	13818 Sep 05 11:10	0∘ ত		asc. node	13819 Aug 23 12:19	20° Mp 22'30	
asc. node	13818 Sep 05 15:44	0° ഫ 22'17		evening rise	13819 Aug 25 10:58	24° Mp 02'20	
evening rise	13818 Sep 10 19:23	10° ≏ 30'45			13819 Aug 28 15:17	0∘ ⊽	
	13818 Sep 21 12:10	0° M		evening max el	13819 Sep 10 09:40	19° ჲ 39'11	18°22'15
evening max el	13818 Sep 27 04:51	7° ™ 18'30	19°00'32	retrograde	13819 Sep 17 23:11	23° ≏ 29'09	
retrograde	13818 Oct 06 00:32	11° M 44'00		evening set	13819 Sep 20 00:36	23° ≏ 12'50	
evening set	13818 Oct 07 21:22	11°M32'54		desc. node	13819 Sep 25 09:27	20° ≏ 21'56	
desc. node	13818 Oct 08 11:56	11° M 24'42		inferior conj	13819 Sep 27 15:25	18° ≏ 36'11	
inferior conj	13818 Oct 16 06:13	7° ™ 17'20		minimum elong	13819 Sep 27 13:48	18° ≏ 39'27	0°41'44
minimum elong	13818 Oct 15 23:59	7° M 28′08	2°24'13	min. Earth dist.	13819 Sep 30 22:07	15° ≏ 57'20	0.58281 AU
min. Earth dist.	13818 Oct 19 03:22	5° ™ 17'56	0.56325 AU	morning rise	13819 Oct 04 23:32	13° ≏ 14'56	
morning rise	13818 Oct 23 23:42	2°M33'07		direct	13819 Oct 11 05:18	11° △ 33'17	
direct	13818 Oct 29 15:07	1°ML18'21		morning max el	13819 Oct 25 12:47	19° ≙ 10'43	27°16'16
morning max el	13818 Nov 12 18:30	8° ™ 33'09	26°01'28	_	13819 Nov 03 17:15	0° ™	
	13818 Nov 28 19:09	0° ₹		asc. node	13819 Nov 19 14:10	26°M18'54	
asc. node	13818 Dec 02 17:16	6° 🗷 57'37			13819 Nov 21 10:51	0° 🗷	
morning set	13818 Dec 10 20:15 13818 Dec 13 21:46	23°ズ19'00 0°る		morning set	13819 Nov 25 04:51	7° ∡ ¹46'21	
		-		superior conj	13819 Dec 02 02:22	22° ₰ 756′16	1°33'19
superior conj	13818 Dec 17 14:46	8° る 14'23	1°37'53	minimum elong	13819 Dec 02 01:05	22° ∡ °49′07	1°34'15
minimum elong	13818 Dec 17 14:28	8° る 12'41	1°38'56	max. Earth dist.	13819 Dec 02 00:30	22° ∡ ¹45'52	1.31191 AU
max. Earth dist.	13818 Dec 18 16:13	10° る 35'35	1.31589 AU		13819 Dec 05 06:23	5°0	
evening rise	13818 Dec 24 15:23	23° る 30'01		evening rise	13819 Dec 08 20:55	7° る 51'32	
	13818 Dec 27 19:40	0° ≈			13819 Dec 20 06:28	0° ≈	
desc. node	13819 Jan 04 10:03	14° ≈ 11′03		desc. node	13819 Dec 22 06:56	3° ≈ 24'36	
	13819 Jan 14 12:07	0° ∀		evening max el	13820 Jan 07 19:18	25° ≈ 07′29	26°47'15
evening max el	13819 Jan 25 16:27	13° ¥ 15′28	27°26'59		13820 Jan 14 03:20	0° ∀	
retrograde	13819 Feb 08 15:00	20° ¥ 35′10		retrograde	13820 Jan 21 18:21	2° 	
evening set	13819 Feb 15 12:06	18° ¥ 23'36		evening set	13820 Jan 28 09:26	0°) €27'24	
min. Earth dist.	13819 Feb 19 06:36		0.61492 AU		13820 Jan 29 04:44	30°R≈	
inferior conj	13819 Feb 22 08:19	12°) 45′03		min. Earth dist.	13820 Feb 01 09:14		0.59306 AU
minimum elong	13819 Feb 22 12:38	12°) (35′17	2°00'01	inferior conj	13820 Feb 04 13:41	25°≈19'13	
asc. node	13819 Feb 28 15:02	8°) €09'26		minimum elong	13820 Feb 04 21:07	25°≈04'34	3°23'00
morning rise	13819 Mar 01 16:09	7°) (45'56		morning rise	13820 Feb 12 11:55	20°≈41'00	
direct	13819 Mar 03 19:59	7° ∺ 25'49		direct	13820 Feb 14 12:42	20° ≈ 25'54	

asc. node	13820 Feb 15 12:31	20° ≈ 29'38		morning rise	13821 Jan 24 08:57	2° ≈ 51'57	
morning max el	13820 Feb 22 06:23	24°≈16′04	18°13'17	direct	13821 Jan 26 11:51	2° ≈ 38'19	
	13820 Feb 26 22:25	0°) €		asc. node	13821 Feb 01 09:56	4° ≈ 32′20	
morning set	13820 Mar 08 22:24	19° ∺ 09'36		morning max el	13821 Feb 04 10:27	6° ≈ 59'34	18°56'52
	13820 Mar 14 17:04	0° Υ			13821 Feb 19 02:14	0°)	
				morning set	13821 Feb 20 20:53	3° ¥ 28'31	
superior conj	13820 Mar 18 12:08	6° Ƴ 56'39	0°06'52				
minimum elong	13820 Mar 18 12:39	6° Ƴ 59'00	0°06'45	superior conj	13821 Mar 01 08:53	20° ∺ 03'37	0°38'41
behind sun begin	13820 Mar 18 05:48	6° Y 28′03		minimum elong	13821 Mar 01 11:10	20°) 14′31	0°38'36
behind sun end	13820 Mar 18 19:30	7° Y 29'52		desc. node	13821 Mar 06 05:05	29° ∺ 04'19	
desc. node	13820 Mar 19 08:35	8° Y 28'35			13821 Mar 06 17:22	0°Υ	
max. Earth dist.	13820 Mar 26 02:51	20° Y 14'57	1.41382 AU	max. Earth dist.	13821 Mar 08 09:43	3° Y 00'49	1.39156 AU
evening rise	13820 Mar 30 21:43	28° Y 10′54		evening rise	13821 Mar 12 06:05	9° Ƴ 43'00	
	13820 Apr 01 00:41	0° 8			13821 Mar 24 21:32	0° 8	
	13820 Apr 21 04:02	$0^{\circ}\Pi$		evening max el	13821 Apr 16 08:43	29° 8 13'35	24°23'27
evening max el	13820 May 03 18:56	15° Ⅱ 21'24	23°02'46		13821 Apr 17 03:50	$\Pi^{\circ 0}$	
asc. node	13820 May 13 09:05	21° II 23'26		retrograde	13821 Apr 27 19:19	5° Ⅱ 55'51	
retrograde	13820 May 14 02:22	21° Ⅱ 25'47		asc. node	13821 Apr 30 06:23	5° Ⅱ 29'06	
evening set	13820 May 19 02:53	19° Ⅱ 18'48		evening set	13821 May 03 07:25	3° Ⅱ 36'30	
inferior conj	13820 May 24 11:04	12° Ⅱ 53'58			13821 May 06 15:08	30°R 8	
minimum elong	13820 May 24 09:20	12° Ⅱ 59'55	2°47'25	min. Earth dist.	13821 May 07 21:11	28° 8 21'38	0.68505 AU
min. Earth dist.	13820 May 24 01:19	13° Ⅱ 27'42	0.68923 AU	inferior conj	13821 May 08 19:30	27° 8 06'33	2°21'40
morning rise	13820 May 29 15:43	6° Ⅱ 45'49		minimum elong	13821 May 08 17:23	27° 8 13'41	2°20'18
direct	13820 Jun 03 01:35	4° Ⅱ 58′20	21000111	morning rise	13821 May 14 03:30	21° 8 06'31	
morning max el	13820 Jun 11 15:28	9° Ⅱ 54'37	21°09'44	direct	13821 May 18 01:02	19° 8 39'45	
desc. node	13820 Jun 15 09:57	14° Ⅱ 03'54		morning max el	13821 May 25 14:17	23° 8 52'56	19°57'02
	13820 Jun 27 06:01	0°©			13821 May 30 21:39	0°II	
morning set	13820 Jul 12 12:26	23° © 01'35		desc. node	13821 Jun 02 06:55	3° Ⅱ 09'15	
79 of 18 o	13820 Jul 16 22:03	0° Ω	1 40050 433		13821 Jun 20 12:06	0°©	
max. Earth dist.	13820 Jul 19 18:25	4° 81 36'13	1.42858 AU	morning set	13821 Jun 21 15:37	1°545'33	1 44500 477
	12020 1 1 26 22 00	1.60 00 5100	1041141	max. Earth dist.	13821 Jul 02 05:56	18° © 18'03	1.44523 AU
superior conj	13820 Jul 26 23:08	16° Ω 35'22			12021 1 1 07 12 10	260540100	2005125
minimum elong	13820 Jul 27 06:22	17° Ω 06'08	1°41'43	superior conj	13821 Jul 07 13:19	26°549'08	
	13820 Aug 03 15:54	0° m)		minimum elong	13821 Jul 07 19:06	27°©12'37	2°06'16
evening rise	13820 Aug 07 13:13	6° Mp 57'12			13821 Jul 09 12:11	0°N	
asc. node	13820 Aug 09 08:55	10° m 13'08		evening rise	13821 Jul 20 21:07	19° Ω 02'55	
	13820 Aug 21 14:15	ე∘ ত აოп	1000 4120	asc. node	13821 Jul 27 05:34	29° Ω 49'42	
evening max el	13820 Aug 23 21:08	2° 2 34'11	18°04'20		13821 Jul 27 08:02	0° m)	10005100
retrograde	13820 Aug 30 15:26	6° ♀ 02'25		evening max el	13821 Aug 07 11:25	15° m 54'05	18°05'29
evening set	13820 Sep 02 00:14	5° Ω 37'02	00.42147	retrograde	13821 Aug 13 20:51	19° Mp 14'29	
inferior conj	13820 Sep 08 21:19	0° Ω 40'07		evening set	13821 Aug 16 13:58	18° Mp 36'42	1040101
minimum elong	13820 Sep 08 22:39	0° ჲ 36'59	0°43'11	inferior conj	13821 Aug 22 20:18	13° Mp 21'42	1°48'01
1 1	13820 Sep 09 14:15	30°RM)		minimum elong	13821 Aug 22 22:43	13° Mp 15'13	1°46'52
desc. node	13820 Sep 11 06:59	28° Mp 23'58	0.60520 ATT	min. Earth dist.	13821 Aug 25 14:59	10° Mp 24'22	0.62794 AU
min. Earth dist.	13820 Sep 12 01:42	24° m) 48'41	0.60529 AU	morning rise	13821 Aug 29 05:19	7° Mp 10'37	
morning rise	13820 Sep 15 18:01	~		desc. node direct	13821 Aug 29 04:31 13821 Sep 04 21:29	7° Mp 12'04	
direct	13820 Sep 22 08:06 13820 Oct 06 00:24	22° M y41'04 0° ⊆		morning max el	13821 Sep 04 21:29 13821 Sep 18 22:28	4° Mp 42'57 12° Mp 44'30	27°53'30
morning max el	13820 Oct 06 00:24 13820 Oct 06 14:50	0° ჲ 35'06	27054125	morning max er	13821 Sep 18 22:28 13821 Oct 02 17:35	0° ⊽	27 33 30
morning max er	13820 Oct 00 14:30 13820 Oct 27 21:09	0°M	21 34 23		13821 Oct 02 17:33 13821 Oct 20 08:27	0° ™	
asc. node	13820 Oct 27 21.09 13820 Nov 05 10:58	15°M59'51		morning set	13821 Oct 20 08.27 13821 Oct 23 06:37	บ แน 5° M L48'41	
morning set	13820 Nov 03 10.38 13820 Nov 08 09:03	21°M58'19		asc. node	13821 Oct 23 00:37 13821 Oct 23 07:38	5°M53'51	
morning set	13820 Nov 08 09.03 13820 Nov 12 03:12	21 IIL38 19 0° √		max. Earth dist.	13821 Oct 28 11:03	16°M39'57	1.31972 AU
may Earth dist	13820 Nov 12 03:12 13820 Nov 14 08:07		1.31311 AU	max. Earth dist.	13021 Oct 20 11.03	10 1163937	1.31972 AU
max. Earth dist.	13020 NOV 14 00.07	4 X 30 30	1.31311 AU	superior conj	13821 Oct 30 21:54	21°M59'29	1006149
superior conj	13820 Nov 15 13:24	7° ∡ ³33'21	1°22'56	minimum elong	13821 Oct 30 21:34 13821 Oct 30 19:37	21°M46'59	1°07'13
minimum elong	13820 Nov 15 13:24 13820 Nov 15 11:24	7° × ² 22'18		minimum ciong	13821 Nov 03 13:20	21 IIC40 39 0° √ 1	1 0/13
evening rise		7 x 22 18 22° x 20'54	1 23 36	ovanina rica		6° х ¹52'34	
evening 11se	13820 Nov 22 06:06	22° x ・20°54 0° る		evening rise	13821 Nov 06 17:00	6°×'52'34 0° る	
desc nodo	13820 Nov 25 21:19	0°5 21° る 57'01		desa nada	13821 Nov 18 15:22	0°る 9° る 31'53	
desc. node	13820 Dec 08 03:55	21° 5 5/01 0°≈		desc. node	13821 Nov 25 01:02	9° る 31'53	22050150
avanina mar -1	13820 Dec 14 00:04		25024142	evening max el	13821 Dec 01 01:02		23 3839
evening max el	13820 Dec 19 13:46	6°≈06'43	23 3442	retrograde	13821 Dec 14 14:54 13821 Dec 19 11:38	23° る 07'27	
retrograde	13821 Jan 02 10:58	13°≈06'36		evening set		22°る15'50	0.55500 ATT
evening set	13821 Jan 08 10:22	11°≈44'29	0.57242 411	min. Earth dist.	13821 Dec 25 12:15		0.55589 AU
min. Earth dist.	13821 Jan 13 02:12		0.57243 AU	inferior conj	13821 Dec 27 12:23	18° る 05'34	
inferior conj	13821 Jan 15 23:26	7°≈07'54		minimum elong	13821 Dec 27 17:52	17°る57'17	5-42.38
minimum elong	13821 Jan 16 08:19	6° ≈ 52'44	4 43 30	morning rise	13822 Jan 05 01:57	14° る 08'43	

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8°**≯**16'08 -5°05'00

13823 Nov 17 00:15

minimum elong

13822 Dec 07 05:44

28° x 24'24 5°53'28

inferior conj

minimum elong	13823 Nov 16 14:38	8° ∡ ¹29'55	5°01'52	evening max el	13824 Oct 06 17:39	17° M 52'23	19°32'11
min. Earth dist.	13823 Nov 18 00:46	7° × ⁷ 41'00	0.54585 AU	desc. node	13824 Oct 15 17:00	22°M42'32	19 32 11
morning rise	13823 Nov 25 03:53	4°×720'48	0.54505 AC	retrograde	13824 Oct 16 11:06	22°M44'12	
direct	13823 Nov 29 11:27	3° √ 40'55		evening set	13824 Oct 18 08:16	22°M34'05	
morning max el	13823 Dec 12 16:12	10° ∡ 1035	23°17'55	inferior conj	13824 Oct 27 01:23	18°M28'37	-3°30'04
asc. node	13823 Dec 24 01:38	24°×7'48'03	25 17 55	minimum elong	13824 Oct 26 16:37	18°M42'37	3°26'17
use. Houe	13823 Dec 27 02:49	0°중		min. Earth dist.	13824 Oct 29 10:00	16°M58'22	0.55454 AU
morning set	13824 Jan 04 23:25	7° ろ 33'14		morning rise	13824 Nov 03 22:57	14°M05'13	0.55 15 1710
morning sec	13824 Jan 10 17:32	0°≈		direct	13824 Nov 09 03:26	13°M05'03	
	1302.0411 10 17.32	0 101		morning max el	13824 Nov 23 01:57	20°M03'46	25°05'51
superior conj	13824 Jan 11 21:00	2° ≈ 28'20	1°32'57	morning max er	13824 Dec 01 12:55	0°×7	20 00 01
minimum elong	13824 Jan 11 22:24	2°≈35'52		asc. node	13824 Dec 09 22:41	13° ∡ 22'06	
max. Earth dist.	13824 Jan 14 21:57	8°≈57'04	1.33244 AU	use. Houe	13824 Dec 18 09:45	0° 궁	
evening rise	13824 Jan 19 16:28	18° ≈ 42'44		morning set	13824 Dec 19 11:14	2°る15'58	
desc. node	13824 Jan 25 18:45	0°) 16'49		3			
	13824 Jan 25 15:02	0°) €		superior conj	13824 Dec 26 05:42	17° る 07'34	1°37'50
	13824 Feb 13 22:18	0° Υ		minimum elong	13824 Dec 26 06:01	17° る 09'19	1°38'52
evening max el	13824 Feb 23 01:27	10° Y ′22'54	27°20'37	max. Earth dist.	13824 Dec 27 23:49	20°る58'44	1.32047 AU
retrograde	13824 Mar 07 15:35	17° Y ′50′38			13825 Jan 01 04:51	0° ≈	
evening set	13824 Mar 14 09:09	15° Ƴ 20'30		evening rise	13825 Jan 02 11:49	2° ≈ 40'49	
min. Earth dist.	13824 Mar 18 05:44	11° Υ 47'57	0.64694 AU	desc. node	13825 Jan 11 15:28	20°≈13'43	
inferior conj	13824 Mar 20 16:56	9° Ƴ 07'38	-0°04'37		13825 Jan 17 10:54	0°) €	
minimum elong	13824 Mar 20 17:05	9° Y 07'16	0°04'37	evening max el	13825 Feb 04 12:33	23°) €24'18	27°33'53
transit middle	13824 Mar 20 17:05	9° Y 07'16	0°04'37	C	13825 Feb 14 02:41	$0^{\circ}\mathbf{Y}$	
transit begin	13824 Mar 20 14:09	9° Ƴ 15'15		retrograde	13825 Feb 18 09:10	0° Y 49'04	
transit end	13824 Mar 20 20:01	8° Y 59'18		Č	13825 Feb 22 11:03	30°₽)	
asc. node	13824 Mar 20 22:42	8° Y ′52'02		evening set	13825 Feb 25 06:41	28°) €28'04	
morning rise	13824 Mar 27 02:53	3° Y 41'55		min. Earth dist.	13825 Mar 01 00:47	25°) €23'17	0.62722 AU
direct	13824 Mar 29 17:36	3° Y ′06'28		inferior conj	13825 Mar 03 22:21	22°) 34'49	-1°16'19
morning max el	13824 Apr 05 01:50	6° Y 23′18	17°53'22	minimum elong	13825 Mar 04 00:55	22°) €28'35	1°15'01
	13824 Apr 21 01:54	0°B		asc. node	13825 Mar 07 20:12	19° ¥ 07'42	
morning set	13824 Apr 22 11:19	2° 8 19'06		morning rise	13825 Mar 10 21:50	17° ¥ 25′27	
desc. node	13824 Apr 22 21:07	2° 8 59'52		direct	13825 Mar 13 04:58	17°) €00'52	
				morning max el	13825 Mar 19 19:36	20°) 22′32	17°46'25
superior conj	13824 May 06 06:37	24° 8 52'09	-1°32'02		13825 Mar 27 01:33	0° Y	
minimum elong	13824 May 05 21:52	24° 8 17'14	1°31'52	morning set	13825 Apr 04 20:50	14° Y 57'52	
	13824 May 09 12:15	$\Pi^{\circ}0$		desc. node	13825 Apr 09 17:41	23° Y 25'56	
max. Earth dist.	13824 May 10 14:50	1° Ⅱ 44'42	1.45419 AU		13825 Apr 13 13:55	9° 8	
evening rise	13824 May 22 04:59	19° Ⅱ 43'05					
	13824 May 28 23:05	0 \circ \odot		superior conj	13825 Apr 16 19:51	5° 8 26'35	-0°53'37
greatest brilliancy	13824 Jun 05 21:34	11° 5 548'22	-0.6m	minimum elong	13825 Apr 16 14:34	5° 8 04'38	0°53'22
asc. node	13824 Jun 16 20:06	26° © 09'55		max. Earth dist.	13825 Apr 23 08:24	16° 8 04'45	1.44277 AU
evening max el	13824 Jun 17 17:06	27° © 04'17	19°53'52	evening rise	13825 May 01 16:56	29° 8 12'01	
	13824 Jun 21 05:42	$0^{\circ}\Omega$			13825 May 02 05:24	Π $^{\circ}0$	
retrograde	13824 Jun 25 05:29	1° Ω 20′17			13825 May 22 16:58	0 \circ \odot	
	13824 Jun 28 22:52	30° ₹5		evening max el	13825 May 31 16:28	10° © 53'20	21°00'11
evening set	13824 Jun 29 02:01	29° 9 54'13		asc. node	13825 Jun 03 17:10	13° © 34'30	
inferior conj	13824 Jul 04 09:27	23° © 55'05	3°10'31	retrograde	13825 Jun 09 04:27	15° © 49'35	
minimum elong	13824 Jul 04 09:58	23° © 53'19	3°09'30	evening set	13825 Jun 13 11:16	14° © 06'49	
min. Earth dist.	13824 Jul 05 09:50	22° © 32'54	0.67821 AU	inferior conj	13825 Jun 18 17:10	7° 9 56'00	3°10'31
morning rise	13824 Jul 09 17:33	17° © 31'57		minimum elong	13825 Jun 18 16:41	7° © 57'40	3°09'27
direct	13824 Jul 15 11:35	15° © 00'20		min. Earth dist.	13825 Jun 19 03:54	7° © 18'45	0.68624 AU
desc. node	13824 Jul 19 20:51	16°912'01		morning rise	13825 Jun 23 21:52	1° © 37'09	
morning max el	13824 Jul 27 06:40	22° © 04'30	24°53'56		13825 Jun 26 06:29	30°Ŗ Ⅱ	
	13824 Aug 03 04:52	0 \circ Ω		direct	13825 Jun 29 03:41	29° Ⅱ 19'32	
	13824 Aug 23 20:05	0° m)			13825 Jul 02 06:03	0 \circ \odot	
morning set	13824 Sep 01 02:10	13° m 59'34		desc. node	13825 Jul 06 18:07	2° © 52'54	
max. Earth dist.	13824 Sep 04 15:55	20° m 25'54	1.37035 AU	morning max el	13825 Jul 09 17:19	5° © 37'28	23°24'53
	13824 Sep 09 17:48	0∘ ⊽			13825 Jul 28 13:28	0 \circ Ω	
				morning set	13825 Aug 13 12:25	25° Ω 04'38	
superior conj	13824 Sep 11 09:19	3° 亞 12'10	-0°13'55		13825 Aug 16 09:58	0° m ∕	
minimum elong	13824 Sep 11 10:13	3° ₽ 16'36	0°13'48	max. Earth dist.	13825 Aug 17 13:41	1° m 59'50	1.39375 AU
behind sun begin	13824 Sep 11 06:47	2° ≏ 59'44					
behind sun end	13824 Sep 11 13:40	3° ₾ 33'28		superior conj	13825 Aug 25 06:01	15° Mp 48'29	
asc. node	13824 Sep 12 21:21	6° ≏ 09'43		minimum elong	13825 Aug 25 09:35	16° Mp 05'05	0°48'28
evening rise	13824 Sep 19 17:02	19° ≙ 52'44		asc. node	13825 Aug 30 17:55	26° m 13'28	
	13824 Sep 24 20:32	0° M			13825 Sep 01 16:49	0∘ ⊽	

evening rise	13825 Sep 03 14:17	3° ≏ 40'16		minimum elong	13826 Aug 07 14:41	28° Ω 02'55	1°23'20
evening max el	13825 Sep 03 14.17 13825 Sep 19 16:41	29° £ 48'57	18°41'46	minimum ciong	13826 Aug 07 14.41 13826 Aug 08 17:12	0°m	1 23 20
evening max er	13825 Sep 19 21:10	0°M	10 41 40	asc. node	13826 Aug 17 14:30	16° Mp 09'58	
retrograde	13825 Sep 27 22:33	3°M58'04		evening rise	13826 Aug 18 00:43	16° m ₂ 57'12	
evening set	13825 Sep 27 22:33	3°M45'24		evening rise	13826 Aug 25 06:05	0° <u>م</u>	
desc. node	13825 Oct 02 14:30	2°M46'49		evening max el	13826 Sep 03 00:53	ა — 12° ჲ 25'38	18°12'21
acce. noue	13825 Oct 07 00:59	30°R Ω		retrograde	13826 Sep 10 04:50	16° ♀ 04'21	10 1221
inferior conj	13825 Oct 07 22:01	29° Ω 21'17	-1°41'21	evening set	13826 Sep 12 09:15	15° ≏ 44'37	
minimum elong	13825 Oct 07 17:51	29° ჲ 29'00	1°39'16	inferior conj	13826 Sep 19 16:17	10° ≏ 59'30	-0°03'18
min. Earth dist.	13825 Oct 11 01:00	27° ≏ 02'49	0.57089 AU	minimum elong	13826 Sep 19 16:10	10° ≏ 59'45	0°03'10
morning rise	13825 Oct 15 11:47	24° ≏ 20'35		transit middle	13826 Sep 19 16:10	10° ≙ 59'45	0°03'10
direct	13825 Oct 21 09:50	22° ≏ 54'28		transit begin	13826 Sep 19 12:49	11° ≏ 07'01	
	13825 Nov 04 07:22	0° M		transit end	13826 Sep 19 19:32	10° ≏ 52'28	
morning max el	13825 Nov 04 16:02	0° M 20'40	26°37'18	desc. node	13826 Sep 19 12:03	11° ≏ 08'40	
	13825 Nov 25 11:48	0° ∡ ¹		min. Earth dist.	13826 Sep 22 23:24	8° ഫ 09'17	0.59215 AU
asc. node	13825 Nov 26 19:37	2° ₹ 29'05		morning rise	13826 Sep 26 19:41	5° ≙ 24'25	
morning set	13825 Dec 03 21:31	16° ∡ 750'51		direct	13826 Oct 03 06:00	3° ₾ 30'53	
	13825 Dec 09 20:58	5°0		morning max el	13826 Oct 17 13:30	11° ≏ 16'37	27°37'18
					13826 Nov 01 04:36	0° M	
superior conj	13825 Dec 10 16:50	1° る 50'53	1°36'40	asc. node	13826 Nov 13 16:27	21°M59'21	
minimum elong	13825 Dec 10 16:06	1° る 46'45	1°37'41		13826 Nov 17 14:46	0° ∡	
max. Earth dist.	13825 Dec 11 06:34	3° る 07'29	1.31351 AU	morning set	13826 Nov 18 04:27	1° ∡ 12'04	
evening rise	13825 Dec 17 14:20	16° る 56'03		max. Earth dist.	13826 Nov 24 14:51	15° ∡ 15'51	1.31173 AU
	13825 Dec 24 02:16	0° ≈					
desc. node	13825 Dec 29 12:19	9° ≈ 46′13		superior conj	13826 Nov 25 04:24	16° ₹ 31'31	1°29'37
	13826 Jan 12 10:25	0° ∀		minimum elong	13826 Nov 25 02:47	16° ∡ ′22′28	1°30'28
evening max el	13826 Jan 17 19:08	5°) 44′56	27°14'18		13826 Dec 01 06:29	0° ろ	
retrograde	13826 Jan 31 18:32	13°) €01'34		evening rise	13826 Dec 01 21:37	1°る21'36	
evening set	13826 Feb 07 13:58	10°) €58'06		desc. node	13826 Dec 16 09:14	28° る 43'58	
min. Earth dist.	13826 Feb 11 09:39	8° ¥ 13'10	0.60563 AU		13826 Dec 17 04:27	0° ≈	2 (020100
inferior conj	13826 Feb 14 13:33	5°) €31'32		evening max el	13826 Dec 30 18:42	17°≈15'17	26°20'08
minimum elong	13826 Feb 14 19:14	5°) 19'23	2°34'44	retrograde	13827 Jan 13 17:43	24°≈20'58	
morning rise	13826 Feb 22 03:42	0°) 41'14 0°) 32'55		evening set	13827 Jan 20 03:08	22°≈42'32	0.50200 ATT
asc. node	13826 Feb 22 17:39	0° X 32′55 0° X 23′48		min. Earth dist.	13827 Jan 24 08:15	20°≈05'50	0.58399 AU
direct	13826 Feb 24 05:37 13826 Mar 03 11:02	0° π 23°48 4° H 00'55	17°57'46	inferior conj	13827 Jan 27 10:55 13827 Jan 27 19:20	17°≈47'47 17°≈32'10	
morning max el morning set	13826 Mar 19 00:50	4 ★0033 28°¥27'56	1/3/40	minimum elong morning rise	13827 Feb 04 14:33	17 ≈32 10 13°≈18'41	3 3617
morning set	13826 Mar 19 20:54	28 γ (2/30		direct	13827 Feb 04 14:33	13°≈04'43	
desc. node	13826 Mar 27 14:13	13° Υ 58'41		asc. node	13827 Feb 00 15:17 13827 Feb 09 15:05	13°≈36'37	
dese. Hode	13020 Wai 27 14.13	15 50 -11		morning max el	13827 Feb 14 20:22	17°≈07'21	18°29'01
superior conj	13826 Mar 29 09:08	17° Ƴ 07'35	-0°14'13	morning max ci	13827 Feb 23 23:40	0° \	10 27 01
minimum elong	13826 Mar 29 07:54	17° Υ '02'11	0°14'13	morning set	13827 Mar 02 17:50	12° ¥ 32'56	
behind sun begin	13826 Mar 29 04:12	16° Y 45'59	0 1113	morning sec	13027 17141 02 17.30	12 /(3230	
behind sun end	13826 Mar 29 11:36	17° Y ′18'22		superior conj	13827 Mar 11 19:40	29° ¥ 46'36	0°21'08
	13826 Apr 05 22:56	0°8		minimum elong	13827 Mar 11 21:07	29° ¥ 53'21	0°21'01
max. Earth dist.	13826 Apr 05 21:31	29° Y ′54'11	1.42562 AU	· ·	13827 Mar 11 22:34	0° Υ	
evening rise	13826 Apr 11 17:04	9° 8 18'40		desc. node	13827 Mar 14 10:42	4° Υ 34'22	
	13826 Apr 25 08:01	Π°		max. Earth dist.	13827 Mar 19 06:28	13° Y '05'09	1.40459 AU
evening max el	13826 May 14 10:43	24° Ⅱ 43'33	22°16'29	evening rise	13827 Mar 23 13:14	20° Y 19'35	
asc. node	13826 May 21 14:21	29° Ⅱ 55'23			13827 Mar 29 13:01	0° 8	
	13826 May 21 19:38	0 \circ \mathfrak{s}			13827 Apr 19 12:47	Π °0	
retrograde	13826 May 24 02:07	0° © 23'35		evening max el	13827 Apr 27 01:43	8° Ⅲ 36′02	23°37'25
	13826 May 26 05:46	30°Ŗ Ⅱ		retrograde	13827 May 07 21:01	14° Ⅱ 57'09	
evening set	13826 May 28 19:56	28° Ⅲ 25′11		asc. node	13827 May 08 11:36	14° Ⅱ 55'29	
inferior conj	13826 Jun 03 02:41	22° Ⅱ 04'45	2°59'39	evening set	13827 May 13 02:25	12° Ⅱ 44'48	
minimum elong	13826 Jun 03 01:21	22° Ⅱ 09'25	2°58'27	min. Earth dist.	13827 May 17 21:02	7° Ⅱ 09'03	0.68805 AU
min. Earth dist.	13826 Jun 03 00:22	22° Ⅱ 12'50	0.68952 AU	inferior conj	13827 May 18 12:04	6° Ⅱ 17'32	2°38'30
morning rise	13826 Jun 08 06:35	15° Ⅲ 52'07		minimum elong	13827 May 18 10:08	6° Ⅲ 24'10	2°37'10
direct	13826 Jun 12 23:45	13° Ⅱ 52'48		morning rise	13827 May 23 17:48	0° Ⅱ 12'34	
morning max el	13826 Jun 22 06:18	19° Ⅱ 18'19	21°56'47		13827 May 24 00:22	30° ₹ 8	
desc. node	13826 Jun 23 15:17	20° Ⅱ 44′08		direct	13827 May 27 22:26	28° 8 33'40	
	13826 Jul 01 05:25	0°©			13827 Jun 01 04:48	0°II	20025107
	13826 Jul 21 17:03	0° N		morning max el	13827 Jun 05 00:53	3°Ⅱ10′08	20°37'06
morning set	13826 Jul 24 21:56	5° Ω 04'31	1 41671 411	desc. node	13827 Jun 10 12:19	9° Ⅱ 26'55	
max. Earth dist.	13826 Jul 30 14:47	14° Ω 22'20	1.41671 AU		13827 Jun 25 02:07	0°©	
gunorier cor:	12026 Aug 07 00:22	270 02511 4	1022122	morning set	13827 Jul 04 08:53	14°907'00	1 /2//0 ***
superior conj	13826 Aug 07 08:23	27° Ω 35'14	-1 23 32	max. Earth dist.	13827 Jul 12 22:59	27° 5 540'16	1.43640 AU

	13827 Jul 14 09:36	$0^{\circ}\Omega$		max. Earth dist.	13828 Jun 24 13:34	11° © 40'50	1.45055 AU
superior conj	13827 Jul 19 12:25	8° Ω 24'31	-1°53'20	superior conj	13828 Jun 28 16:47	18° © 14'23	-2°11'17
minimum elong	13827 Jul 19 19:37	8° Ω 54'32		minimum elong	13828 Jun 28 20:21	18° © 28'40	2°12'13
evening rise	13827 Jul 31 19:49	29° Ω 32'58			13828 Jul 05 23:19	$0^{\circ}\Omega$	
	13827 Aug 01 01:59	0° ™		evening rise	13828 Jul 12 18:22	11° Ω 14'33	
asc. node	13827 Aug 04 11:08	5° m 55'35		asc. node	13828 Jul 21 07:49	25° Ω 24'46	
evening max el	13827 Aug 17 14:03	25° m 32'49	18°02'33		13828 Jul 24 05:59	0° ™	
retrograde	13827 Aug 24 03:09	28° m 55'40		evening max el	13828 Jul 31 04:28	9° m ,00'35	18°11'26
evening set	13827 Aug 26 15:34	28° Tp 25'12		retrograde	13828 Aug 06 12:59	12° m 21'50	
inferior conj	13827 Sep 02 05:55	23° Tp 20'14	1°13'43	evening set	13828 Aug 09 09:47	11° m) 37'53	2000154
minimum elong	13827 Sep 02 07:54	23° Mp 15'16	1°12'48	inferior conj	13828 Aug 15 10:55	6° M) 15'26	2°08'54 2°07'42
min. Earth dist.	13827 Sep 05 06:48	20° Mp 19'45	0.61512 AU	minimum elong	13828 Aug 15 13:24	6° Mp 08'29	
desc. node morning rise	13827 Sep 06 09:35 13827 Sep 08 21:37	19° Mp 18'08 17° Mp 19'30		min. Earth dist. morning rise	13828 Aug 18 00:01 13828 Aug 21 15:16	3° m 25'01 29° Ω 58'59	0.63707 AU
direct	13827 Sep 08 21.37 13827 Sep 15 13:28	17 mg 1930 15° mg 02'28		morning rise	13828 Aug 21 13:10 13828 Aug 21 14:45	29 δ (36 39 30°R Ω	
morning max el	13827 Sep 13 13:28 13827 Sep 29 18:02	23° My 00'01	27°58'41	desc. node	13828 Aug 21 14:43	28° Ω 51'23	
morning max er	13827 Oct 05 23:39	0° <u>م</u>	27 30 41	direct	13828 Aug 28 06:26	27° Ω 25'55	
	13827 Oct 25 10:24	0° ™		direct	13828 Sep 04 15:19	0° m)	
asc. node	13827 Oct 31 13:11	11°M46'13		morning max el	13828 Sep 11 03:20	5° m) 26'34	27°42'14
morning set	13827 Nov 02 06:04	15° ™ 14'51		<i>y</i>	13828 Sep 29 18:50	0∘ <u>⊽</u>	
max. Earth dist.	13827 Nov 07 20:55	27° M 14'43	1.31528 AU	morning set	13828 Oct 16 00:04	28° ≏ 54'14	
	13827 Nov 09 02:57	0° ∡ ″		C	13828 Oct 16 13:12	0° M	
				asc. node	13828 Oct 17 09:50	1°M44'26	
superior conj	13827 Nov 09 14:34	1° ₹ 04'09	1°16'47	max. Earth dist.	13828 Oct 20 21:02	8°M56'15	1.32422 AU
minimum elong	13827 Nov 09 12:23	0° ∡ ¹52'07	1°17'22				
evening rise	13827 Nov 16 07:44	15° ∡ ′52'19		superior conj	13828 Oct 23 21:23	15° M 23′54	0°58'14
	13827 Nov 23 05:12	0°ප		minimum elong	13828 Oct 23 19:08	15°M11'43	0°58'33
desc. node	13827 Dec 03 06:17	16° る 53'49		evening rise	13828 Oct 30 18:51	0° ∡ ¹23'50	
evening max el	13827 Dec 12 09:50		24°56'00		13828 Oct 30 14:25	0°×7	
	13827 Dec 14 19:05	0°≈			13828 Nov 16 01:46	0°る	
retrograde	13827 Dec 26 04:32	4°≈47'30		desc. node	13828 Nov 19 03:27	3°る58'23 7°る57'41	22015110
evening set min. Earth dist.	13827 Dec 31 18:03 13828 Jan 05 21:45	3°≈38'32 0°≈54'12	0.56474 AU	evening max el	13828 Nov 22 19:39 13828 Dec 06 02:44	14°る34'15	23°15'10
iiiii. Eartii tiist.	13828 Jan 07 07:41	0 ≈34 12 30°Rる	0.30474 AU	retrograde evening set	13828 Dec 00 02.44 13828 Dec 10 09:53	14 3 34 13	
inferior conj	13828 Jan 08 11:41	29°る14'41	-5°15'21	min. Earth dist.	13828 Dec 17 05:27	13 3 3 4 07	0.55079 AU
minimum elong	13828 Jan 08 19:53	29° る 01'28		inferior conj	13828 Dec 18 16:37	9°₹51'53	
morning rise	13828 Jan 16 23:57	25° る 07'20	0 12	minimum elong	13828 Dec 18 18:51	9° る 48'40	5°54'39
direct	13828 Jan 19 06:19	24° る 52'55		morning rise	13828 Dec 27 05:25	6° ප 01'18	
asc. node	13828 Jan 27 12:27	28° පි 20'00		direct	13828 Dec 30 02:12	5° ರ 41'44	
morning max el	13828 Jan 28 19:27	29° る 30'10	19°22'14	morning max el	13829 Jan 10 04:55	11° る 00'39	20°38'39
	13828 Jan 29 07:27	0° ≈		asc. node	13829 Jan 13 09:44	14° る 29'41	
morning set	13828 Feb 14 19:37	27° ≈ 00'07			13829 Jan 23 06:11	0° ≈	
	13828 Feb 16 07:34	0° ∀		morning set	13829 Jan 29 03:06	11° ≈ 40′20	
superior conj	13828 Feb 22 22:54	13°) € 10'54		superior conj	13829 Feb 05 14:36		1°12'10
minimum elong	13828 Feb 23 01:31	13°) €23'36	0°50'10	minimum elong	13829 Feb 05 17:13	27°≈22'07	1°12'29
desc. node	13828 Feb 29 07:10	25°) €09'09	1 20107 ATT	Family 43-4	13829 Feb 07 00:25	0°) {	1 26020 AII
max. Earth dist.	13828 Feb 29 13:04	25°) 36′05 0° °	1.38197 AU	max. Earth dist.	13829 Feb 10 21:09	7°) 37'20 14°) 54'54	1.36020 AU
evening rise	13828 Mar 02 23:52 13828 Mar 04 06:19	0° γ 2° Υ 13'57		evening rise desc. node	13829 Feb 14 17:56 13829 Feb 15 03:41	15° H 39'40	
evening rise	13828 Mar 21 17:12	0° 8		desc. node	13829 Feb 23 09:33	13 γ (3940	
evening max el	13828 Apr 08 15:18	22° 8 29'15	24°56'26		13829 Mar 16 09:05	0°8	
retrograde	13828 Apr 20 12:02	29° 8 23'38	2.0020	evening max el	13829 Mar 22 04:48	6° 8 19'59	26°06'24
asc. node	13828 Apr 24 08:56	28° 8 18'59		retrograde	13829 Apr 03 22:20	13° 8 36'47	
evening set	13828 Apr 26 05:07	27° 8 00'05		evening set	13829 Apr 10 02:24	11° 8 06'06	
min. Earth dist.	13828 Apr 30 15:45	22° 8 00'40	0.68197 AU	asc. node	13829 Apr 11 06:20	10° 8 03'10	
inferior conj	13828 May 01 19:23	20° 8 29'33	2°07'04	min. Earth dist.	13829 Apr 14 06:29	6° 8 41'59	0.67149 AU
minimum elong	13828 May 01 17:14	20° 8 36'41	2°05'42	inferior conj	13829 Apr 15 22:41	4° 8 37'10	1°24'56
morning rise	13828 May 07 05:36	14° 8 33'32		minimum elong	13829 Apr 15 20:50	4° 8 42'56	1°23'47
direct	13828 May 10 22:16	13° 8 15'14			13829 Apr 20 03:03	30° ₹Ƴ	
morning max el	13828 May 18 02:55	17° 8 13'04	19°30'30	morning rise	13829 Apr 21 16:04	28° Y 51'23	
desc. node	13828 May 27 09:11	28° 8 46'39		direct	13829 Apr 24 21:38	27° Y ′52'05	
,	13828 May 28 05:47	0°П	0.7		13829 Apr 29 22:10	0°8	10020120
greatest brilliancy	13828 May 30 18:08	3° ∏ 39'02	-0.7m	morning max el	13829 May 01 12:13	1° 8 24'24	18~39'30
morning set	13828 Jun 12 10:40 13828 Jun 17 02:09	22° Ⅱ 49'58 0° ©		desc. node	13829 May 14 05:58	18° ႘ 33'42 0°Ⅱ	
	13020 JUN 1/ U2:U9	0 50			13829 May 21 14:44	υЩ	

morning set	13829 May 23 00:44	2° ∏ 12'58		superior conj	13830 May 18 13:27	6° Ⅲ 37'43	
max. Earth dist.	13829 Jun 07 08:00	26° Ⅱ 06'47	1.45782 AU	minimum elong	13830 May 18 04:33	6° Ⅱ 02'43	1°50'51
				max. Earth dist.	13830 May 21 03:50	10° ∏ 42'11	1.45762 AU
superior conj	13829 Jun 08 03:59	27° Ⅱ 24'46			13830 Jun 02 14:05	0.20	
minimum elong	13829 Jun 07 23:56	27° Ⅱ 08'59	2°11'49	evening rise	13830 Jun 03 15:59	1°5540'04	o =
	13829 Jun 09 19:41	0°95		greatest brilliancy	13830 Jun 16 05:18	20°951'27	-0.7m
evening rise	13829 Jun 23 16:32	21°954'11		1	13830 Jun 22 15:03	0°Ω	
	13829 Jun 28 18:24	0°Ω 3°Ω25'43	-0.9m	asc. node	13830 Jun 25 01:29	3° Ω 07'17 6° Ω 28'29	19°21'49
greatest brilliancy	13829 Jun 30 22:16	$14^{\circ}\Omega 31'17$	-0.9m	evening max el	13830 Jun 28 01:35	10°Ω25'31	19-21-49
asc. node	13829 Jul 08 04:36 13829 Jul 14 17:05	$14^{\circ} 031^{\circ}17$ $22^{\circ} \Omega 41'06$	18°38'11	retrograde evening set	13830 Jul 05 03:24 13830 Jul 08 18:13	9° Ω 09'26	
evening max el	13829 Jul 21 06:09	26°Ω14'02	16 36 11	inferior conj	13830 Jul 08 18:13	3°Ω17'55	3°05'05
retrograde evening set	13829 Jul 24 11:41	25°Ω14'36		minimum elong	13830 Jul 14 03:47	3° Ω 14'16	3°04'02
inferior conj	13829 Jul 30 03:20	19° Ω 36'53	2°44'57	min. Earth dist.	13830 Jul 14 04:34 13830 Jul 15 12:26	1°Ω30'55	0.67148 AU
minimum elong	13829 Jul 30 05:20	19° Ω 30'41	2°43'49	iiiii. Eartii dist.	13830 Jul 15 12:20	30°RS	0.07148 AU
min. Earth dist.	13829 Aug 01 02:25	17° Ω 12'38	0.65621 AU	morning rise	13830 Jul 19 15:01	26°\$53'25	
morning rise	13829 Aug 04 21:58	13° Ω 13'16	0.03021710	direct	13830 Jul 25 15:31	24°9516'11	
desc. node	13829 Aug 10 04:35	10°Ω38'04		desc. node	13830 Jul 28 02:00	24° © 38'20	
direct	13829 Aug 11 07:33	10°Ω33'26		dese. Hode	13830 Aug 05 07:28	0°Ω	
morning max el	13829 Aug 24 14:32	18° Ω 24'42	26°53'44	morning max el	13830 Aug 07 01:28	1°Ω42'08	25°41'55
morning man er	13829 Sep 03 09:16	0° m)	20 00	morning man vi	13830 Aug 28 10:42	0° m)	2000
	13829 Sep 22 18:07	0∘ ⊽		morning set	13830 Sep 12 00:58	24° m) 32'15	
morning set	13829 Sep 29 07:34	12° Ω 02'52			13830 Sep 14 23:42	0∘ ⊽	
max. Earth dist.	13829 Oct 03 11:52	20° £ 15′20	1.33853 AU	max. Earth dist.	13830 Sep 15 16:40	1° Ω 20'12	1.35767 AU
asc. node	13829 Oct 04 06:26	21° ≏ 49'07		asc. node	13830 Sep 21 03:00	11° ≏ 56'35	
					•		
superior conj	13829 Oct 07 22:37	29° Ω 24'35	0°34'08	superior conj	13830 Sep 21 15:34	12° ≏ 59'44	0°04'55
minimum elong	13829 Oct 07 20:56	29° Ω 15'46	0°34'14	minimum elong	13830 Sep 21 15:16	12° ≏ 58'13	0°04'59
	13829 Oct 08 05:21	0° M		behind sun begin	13830 Sep 21 09:20	12° ≏ 28'23	
evening rise	13829 Oct 15 05:04	14°M50'41		behind sun end	13830 Sep 21 21:12	13° ≏ 28'07	
	13829 Oct 22 19:01	0°⊀		evening rise	13830 Sep 29 12:19	29° ჲ 07'55	
evening max el	13829 Nov 04 09:09	18° ∡ °02'39	21°35'35		13830 Sep 29 22:28	0° M	
desc. node	13829 Nov 06 00:44	19° х ³33'48		evening max el	13830 Oct 17 10:54	28°M43'31	20°11'13
retrograde	13829 Nov 16 15:10	24° ₹ 07'16			13830 Oct 18 19:38	0°⊀	
evening set	13829 Nov 19 13:30	23° ∡ ⁴47'42		desc. node	13830 Oct 23 22:07	3° ҂ 13'34	
inferior conj	13829 Nov 28 09:09	19° ∡ 54′27	-5°40'48	retrograde	13830 Oct 28 03:10	4° ₹ 02'16	
minimum elong	13829 Nov 28 02:31	20° х °03′46	5°38'53	evening set	13830 Oct 30 05:00	3° ≯ 51′08	
min. Earth dist.	13829 Nov 28 11:29	19° ₹ 51'11	0.54490 AU		13830 Nov 07 23:04	30°RM	
morning rise	13829 Dec 06 16:19	16° ∡ 06'11		inferior conj	13830 Nov 08 03:07	29°M53'58	
direct	13829 Dec 10 10:28	15° ₹ 35'29		minimum elong	13830 Nov 07 17:02	0° ∡ '08'58	4°24'45
morning max el	13829 Dec 23 00:16	21° × 37'57	22°15'57	min. Earth dist.	13830 Nov 09 18:56	28°M54'46	0.54847 AU
_	13829 Dec 30 01:30	0° ろ		morning rise	13830 Nov 16 04:10	25°M48'23	
asc. node	13829 Dec 31 06:56	1°る47'22		direct	13830 Nov 20 21:06	25°M00'21	
morning set	13830 Jan 13 13:46	26° る 25'24			13830 Dec 02 13:24	0°×7	24004124
	13830 Jan 15 06:09	0° ≈		morning max el	13830 Dec 04 10:48	1°× 7 40'47	24°04'34
superior conj	12020 I 20 15:02	11° ≈ 28'35	1°27'16	asc. node	13830 Dec 18 04:03 13830 Dec 23 15:32	19° メ 57'29 0°る	
minimum elong	13830 Jan 20 15:03 13830 Jan 20 17:01	11 ≈28 33 11°≈38'56	1°27'56	morning set	13830 Dec 23 13.32 13830 Dec 29 01:39	00 11°る10'07	
max. Earth dist.	13830 Jan 24 10:58	11 ≈3830 19°≈27'12	1.34136 AU	morning set	13830 Dec 29 01.39	11 01007	
evening rise	13830 Jan 28 20:29	28°≈12'13	1.54150 AO	superior conj	13831 Jan 04 21:26	26° ප 02'31	1°35'46
evening rise	13830 Jan 29 18:55	0°) €		minimum elong	13831 Jan 04 22:23	26° ප 07'41	1°36'43
desc. node	13830 Feb 02 00:17	6° ∺ 01'01		minimum ciong	13831 Jan 06 17:17	0°≈	1 30 43
dese. node	13830 Feb 16 15:07	0°Υ		max. Earth dist.	13831 Jan 07 08:40	1°≈22'37	1.32675 AU
evening max el	13830 Mar 04 18:24	20°Υ'00'22	27°00'06	evening rise	13831 Jan 12 10:36	11°≈57'39	1.520,6116
retrograde	13830 Mar 18 03:01	27° Y 27'45	2, 00 00	desc. node	13831 Jan 19 20:58	26°≈08'29	
evening set	13830 Mar 24 16:19	24° Y ′55'33			13831 Jan 22 01:25	0°) €	
min. Earth dist.	13830 Mar 28 15:12	21° Y ′04'50	0.65688 AU		13831 Feb 12 01:16	0°Υ	
asc. node	13830 Mar 29 03:48	20° Y 29'16		evening max el	13831 Feb 15 07:12	3° Y 20'09	27°30'06
inferior conj	13830 Mar 30 19:41	18° Y ′34'29	0°31'29	retrograde	13831 Mar 01 00:57	10° Ƴ 47'33	
minimum elong	13830 Mar 30 18:50	18° Ƴ 36'54	0°30'56	evening set	13831 Mar 07 20:34	8° Y 20'38	
morning rise	13830 Apr 05 22:50	13° Y ′00'43		min. Earth dist.	13831 Mar 11 15:51	5° Y ′00′17	0.63880 AU
direct	13830 Apr 08 18:29	12° Y 17'36		inferior conj	13831 Mar 14 07:40	2° Y 14'57	-0°33'41
morning max el	13830 Apr 15 02:55	15° Y '37'03	18°05'15	minimum elong	13831 Mar 14 08:43	2° Y 12'12	0°33'11
	13830 Apr 25 16:58	0°8		asc. node	13831 Mar 16 01:18	0° Y 29'33	
desc. node	13830 May 01 02:40	8° 8 40'16			13831 Mar 16 13:41	30°₽)	
morning set	13830 May 03 17:20	12° 8 54'26		morning rise	13831 Mar 20 23:07	26°) 55'34	
	13830 May 14 08:41	Π °0		direct	13831 Mar 23 10:19	26° ∺ 25'13	

morning max el	13831 Mar 29 20:22	29°) 43′08	17°48'12	morning set	13832 Mar 28 07:36	7° Υ ′58'33	
	13831 Mar 30 03:10	0° Υ		desc. node	13832 Apr 03 19:49	19° Ƴ 29'59	
morning set	13831 Apr 15 13:26	24° Y ′55'15					
desc. node	13831 Apr 17 23:17	29° Y ′00′30		superior conj	13832 Apr 08 13:09	27° Y 37'51	
	13831 Apr 18 13:21	0°8		minimum elong	13832 Apr 08 09:41	27° Y 23'08	0°36'30
	12021 A 20 12.27	1.60 🕶 2.414.7	1017110	Double dies	13832 Apr 09 22:49	0° と 9° と 23'46	1 42/00 ATT
superior conj minimum elong	13831 Apr 28 13:37 13831 Apr 28 06:02	16° 8 34'47	1°16'02	max. Earth dist. evening rise	13832 Apr 15 15:27 13832 Apr 22 19:13	20° 8 45'34	1.43608 AU
max. Earth dist.	13831 May 03 23:02	25° 8 12'46	1.45012 AU	evening risc	13832 Apr 28 19:56	0°Ⅱ	
max. Darth dist.	13831 May 07 00:01	0°Ⅱ	1.15012710		13832 May 20 07:39	0ಂ ತಾ	
evening rise	13831 May 14 03:30	11° Ⅱ 03'21		evening max el	13832 May 24 01:39	4°9508'16	21°31'40
C	13831 May 26 18:04	0ಂತಾ		asc. node	13832 May 28 19:37	8°501'54	
evening max el	13831 Jun 11 04:30	20°5518'06	20°20'38	retrograde	13832 Jun 02 00:44	9° 5 22'28	
asc. node	13831 Jun 11 22:30	21° © 01'52		evening set	13832 Jun 06 12:16	7° 5 32'41	
retrograde	13831 Jun 19 02:12	24° © 49'58		inferior conj	13832 Jun 11 18:15	1° © 17'36	3°07'12
evening set	13831 Jun 23 03:02	23°5516'48		minimum elong	13832 Jun 11 17:24	1° © 20'37	3°06'04
inferior conj	13831 Jun 28 09:32	17°9512'47	3°11'54	min. Earth dist.	13832 Jun 11 23:20	0°\$59'56	0.68827 AU
minimum elong	13831 Jun 28 09:37	17°5512'29	3°10'52		13832 Jun 12 16:36	30°ŖⅡ 25°Ⅱ01'29	
min. Earth dist.	13831 Jun 29 04:05 13831 Jul 03 15:53	16° © 09'18 10° © 51'17	0.68226 AU	morning rise direct	13832 Jun 16 22:20 13832 Jun 21 22:51	23°Щ01′29 22°Щ51′20	
morning rise direct	13831 Jul 09 04:58	8°\$24'45		desc. node	13832 Jun 30 20:33	27° II 42'03	
desc. node	13831 Jul 14 23:21	10°S28'23		morning max el	13832 Jul 01 22:59	28° I I46'27	22°46'50
morning max el	13831 Jul 20 11:42		24°16'24	morning max or	13832 Jul 03 03:21	0°95	22 1030
5 5	13831 Aug 01 15:38	$0^{\circ}\Omega$			13832 Jul 25 08:16	$0^{\circ}\Omega$	
	13831 Aug 21 08:34	0° m)		morning set	13832 Aug 04 23:49	16° Ω 48'35	
morning set	13831 Aug 24 23:50	6° Mp 10′46		max. Earth dist.	13832 Aug 09 14:26	24° Ω 31′01	1.40387 AU
max. Earth dist.	13831 Aug 28 15:19	12° m 35'43	1.38026 AU		13832 Aug 12 18:42	0° ™	
superior conj	13831 Sep 04 20:48	26° Mp 00'14		superior conj	13832 Aug 17 10:16	8°M) 16'51	
minimum elong	13831 Sep 04 22:45	26° m 09'38	0°28'16	minimum elong	13832 Aug 17 15:04	8°m/38'38	1°03'27
1	13831 Sep 06 22:26	0∘ ⊽		asc. node	13832 Aug 24 20:06	22° Mp 03'53	
asc. node evening rise	13831 Sep 07 23:32	2° £ 02'38 13° £ 08'19		evening rise	13832 Aug 27 07:13 13832 Aug 29 00:32	26° Mp 44′22 0° <u>₽</u>	
evening rise	13831 Sep 13 14:03 13831 Sep 22 14:24	0°M		evening max el	13832 Sep 12 06:12	0 = 22° £ 26'56	18°26'35
evening max el	13831 Sep 30 02:49	10°M 12'34	19°08'01	retrograde	13832 Sep 12 00:12 13832 Sep 19 23:40	26° £ 21'34	10 2033
retrograde	13831 Oct 09 03:49	14°M44'33	17 00 01	evening set	13832 Sep 22 00:02	26° ⊆ 06'21	
desc. node	13831 Oct 10 19:36	14°M36'01		desc. node	13832 Sep 26 17:06	23° ≏ 48'55	
evening set	13831 Oct 11 00:31	14°M33'49		inferior conj	13832 Sep 29 17:37	21° ≏ 32'50	-0°57'28
inferior conj	13831 Oct 19 11:44	10°M20'59	-2°43'47	minimum elong	13832 Sep 29 15:24	21° ≏ 37'15	0°56'17
minimum elong	13831 Oct 19 04:46	10°M32'46	2°40'32	min. Earth dist.	13832 Oct 02 23:43	18° ≏ 58'42	0.57960 AU
min. Earth dist.	13831 Oct 22 06:05	8°M28'53	0.56080 AU	morning rise	13832 Oct 07 03:16	16° ≏ 16'41	
morning rise	13831 Oct 27 06:22	5°M42'26		direct	13832 Oct 13 07:09	14° △ 39'08	
direct	13831 Nov 01 19:09	4°M31'38	25047140	morning max el	13832 Oct 27 14:35	22° £ 13'52	27°07'23
morning max el	13831 Nov 15 21:25 13831 Nov 29 23:20	11°M₊42'12 0°⊀	25°47'48	asc. node	13832 Nov 03 11:40 13832 Nov 20 21:55	0°M 28°M04'18	
asc. node	13831 Nov 29 23:20 13831 Dec 05 01:03	8° ∡ ¹46'35		asc. node	13832 Nov 20 21:33 13832 Nov 21 21:37	20 11004 10 0° 🗷	
morning set	13831 Dec 13 13:01	25° х 49'42		morning set	13832 Nov 26 22:05	10° ∡ 19'10	
morning sec	13831 Dec 15 11:08	0°ਰ		morning sev	130321101 20 22.00	10 7. 17 10	
				superior conj	13832 Dec 03 18:54	25° х 26′05	1°34'22
superior conj	13831 Dec 20 07:24	10° ප් 43'44	1°38'03	minimum elong	13832 Dec 03 17:45	25° √ 19'41	1°35'21
minimum elong	13831 Dec 20 07:15	10° る 42'56	1°39'07	max. Earth dist.	13832 Dec 03 21:07	25° х ⁴38'33	1.31213 AU
max. Earth dist.	13831 Dec 21 13:07	13° る 28'20	1.31691 AU		13832 Dec 05 19:58	0°ප	
evening rise	13831 Dec 27 09:18	26° る 03'42		evening rise	13832 Dec 10 14:04	10° る 23'35	
	13831 Dec 29 07:16	0° ≈			13832 Dec 20 13:32	0°≈	
desc. node	13832 Jan 06 17:45	15°≈56'01		desc. node	13832 Dec 23 14:37	5°≈15'02	26955122
evening max el	13832 Jan 15 12:17 13832 Jan 28 16:58	0°) 16°) (06′26	27°29'55	evening max el	13833 Jan 09 20:45 13833 Jan 11 24:00	28°≈05'49 0°) €	26°55'23
retrograde	13832 Feb 11 14:59	23° ¥ 27'18	21 29 33	retrograde	13833 Jan 23 19:55	5°) 17'43	
evening set	13832 Feb 11 14:39 13832 Feb 18 12:27	21° H 13'04		evening set	13833 Jan 30 12:29	3° \ 23'51	
min. Earth dist.	13832 Feb 22 06:43	18°) 17'46	0.61814 AU	min. Earth dist.	13833 Feb 03 10:51	0°) (44'29	0.59628 AU
inferior conj	13832 Feb 25 07:31	15°) 30′36			13833 Feb 04 09:30	30° R ≈	
minimum elong	13832 Feb 25 11:21	15°) €21'45	1°47'53	inferior conj	13833 Feb 06 15:31	28° ≈ 10′50	-3°13'27
asc. node	13832 Mar 01 22:47	11° ∺ 09'14		minimum elong	13833 Feb 06 22:32	27° ≈ 56'44	3°10'17
morning rise	13832 Mar 03 13:08	10° ∺ 28'42		morning rise	13833 Feb 14 11:44	23° ≈ 29'34	
direct	13832 Mar 05 17:48	10°) €07'29		direct	13833 Feb 16 12:40	23°≈13'59	
morning max el	13832 Mar 12 13:32	13°) (34′25	17°48'58	asc. node	13833 Feb 16 20:15	23°≈14'22	10000127
	13832 Mar 23 19:28	0° Υ		morning max el	13833 Feb 24 02:51	27° ≈ 00'18	18°08'36

	13833 Feb 26 18:35	0° \		asc. node	13834 Feb 03 17:37	7° ≈ 01'24	
morning set	13833 Mar 11 17:41	21°) 44'52		morning max el	13834 Feb 07 08:25	9° ≈ 50'00	18°48'55
C	13833 Mar 16 03:44	0° Y		C	13834 Feb 20 12:20	0° ∀	
				morning set	13834 Feb 23 14:50	6° ∺ 00'07	
superior conj	13833 Mar 21 11:58	9° Ƴ 44'51	0°01'28				
minimum elong	13833 Mar 21 12:05	9° Ƴ 45'21	0°01'23	superior conj	13834 Mar 04 06:11	22°) 44′38	
behind sun begin	13833 Mar 21 04:28	9° Υ 11'13		minimum elong	13834 Mar 04 08:18	22°) 54'39	0°34'10
behind sun end	13833 Mar 21 19:42	10° Y 19′24			13834 Mar 08 04:02	0° Υ	
desc. node max. Earth dist.	13833 Mar 21 16:20 13833 Mar 29 02:58	10° Y 04'23 22° Y 58'23	1.41697 AU	desc. node max. Earth dist.	13834 Mar 08 12:47	0° Ƴ 39'49 5° Ƴ 49'25	1.39496 AU
max. Earm dist.	13833 Apr 02 09:05	0° 8	1.41097 AU	evening rise	13834 Mar 11 10:02 13834 Mar 15 08:28	12° Υ 37'23	1.39490 AU
evening rise	13833 Apr 03 03:17	1° 8 13'37		evening rise	13834 Mar 26 03:45	0°8	
	13833 Apr 22 06:21	0°II			13834 Apr 17 13:20	0°II	
evening max el	13833 May 06 18:06	17° Ⅱ 58'24	22°50'39	evening max el	13834 Apr 19 08:05	1° Ⅱ 50′15	24°11'42
asc. node	13833 May 15 16:51	23° II 50'23		retrograde	13834 Apr 30 14:57	8° Ⅲ 27'33	
retrograde	13833 May 16 21:25	23° Ⅱ 56'49		asc. node	13834 May 02 14:08	8° Ⅱ 10′23	
evening set	13833 May 21 20:12	21° Ⅱ 51'55		evening set	13834 May 06 01:16	6° Ⅱ 09'58	
inferior conj	13833 May 27 03:55	15° Ⅲ 28′02		min. Earth dist.	13834 May 10 16:14	0° Ⅱ 49'36	0.68595 AU
minimum elong	13833 May 27 02:18	15° Ⅱ 33'41	2°50'40		13834 May 11 06:54	30°₹ ႘	2027127
min. Earth dist.	13833 May 26 20:05 13833 Jun 01 08:18	15° Ⅱ 55'16 9° Ⅱ 18'38	0.68945 AU	inferior conj	13834 May 11 12:39	29° 8 40'30 29° 8 47'33	2°26'27 2°25'05
morning rise direct	13833 Jun 01 08:18 13833 Jun 05 20:00	9°Щ18'38 7°Щ28'09		minimum elong morning rise	13834 May 11 10:34 13834 May 16 19:58	29° 8 39'04	2-25 05
morning max el	13833 Jun 14 14:09	12° Ⅱ 31'56	21°21'36	direct	13834 May 20 19:19	22° 8 09'09	
desc. node	13833 Jun 17 17:37	15° I 56'49	21 21 30	morning max el	13834 May 28 11:48	26° 8 28'12	20°06'56
	13833 Jun 28 09:40	0° ©			13834 May 31 17:09	0°II	
morning set	13833 Jul 15 23:01	26°522'09		desc. node	13834 Jun 04 14:35	4° Ⅱ 56'17	
	13833 Jul 18 06:02	$0^{\circ}\Omega$			13834 Jun 21 18:54	0ಂತಾ	
max. Earth dist.	13833 Jul 22 18:32	7° Ω 18′07	1.42561 AU	morning set	13834 Jun 25 03:36	5° © 08'57	
		_		max. Earth dist.	13834 Jul 05 05:02	20° © 53'21	1.44310 AU
superior conj	13833 Jul 30 03:31	19° Ω 39'43			12024 7 1 10 21 16	00 0 000	2002150
minimum elong	13833 Jul 30 10:35	20° Ω 10'05	1°37′05	superior conj	13834 Jul 10 21:16	0°Ω02'27 0°Ω28'19	
evening rise	13833 Aug 05 01:25 13833 Aug 10 11:46	0° т) 9° т) 45'44		minimum elong	13834 Jul 11 03:36 13834 Jul 10 20:40	0° Ω	2-03-23
asc. node	13833 Aug 11 16:43	11° m) 56'34		evening rise	13834 Jul 23 22:44	21° Ω 59'26	
use. Houe	13833 Aug 22 09:24	0∘ ⊽		evening rise	13834 Jul 28 14:49	0° m)	
evening max el	13833 Aug 26 16:57	5° ₽ 17'52	18°05'46	asc. node	13834 Jul 29 13:22	1° m) 35'42	
retrograde	13833 Sep 02 13:29	8° ≏ 48'28		evening max el	13834 Aug 10 07:06	18° m 34'55	18°04'10
evening set	13833 Sep 04 21:04	8° ഫ 24'43		retrograde	13834 Aug 16 17:09	21°M 55'26	
inferior conj	13833 Sep 11 20:39	3° ჲ 30'52		evening set	13834 Aug 19 09:02	21° m 19'39	
minimum elong	13833 Sep 11 21:40	3° ≏ 28'31	0°31'40	inferior conj	13834 Aug 25 17:21	16° Mp 07'18	1°39'37
desc. node	13833 Sep 13 14:37	1° £ 53′29	0.60105.411	minimum elong	13834 Aug 25 19:42	16° Mp 01'07	1°38'31
min. Earth dist.	13833 Sep 15 02:03 13833 Sep 15 17:34	30°RM)	0.60185 AU	min. Earth dist. desc. node	13834 Aug 28 13:49 13834 Aug 31 12:08	13° Mp 08'28 10° Mp 28'46	0.62466 AU
morning rise	13833 Sep 13 17:34 13833 Sep 18 19:06	27° Mp 43'14		morning rise	13834 Sep 01 04:04	9° m 58'38	
direct	13833 Sep 25 08:22	25° m/39'01		direct	13834 Sep 07 20:26	7° m/33'20	
	13833 Oct 05 15:59	0∘ <u>⊽</u>		morning max el	13834 Sep 21 22:25	15° m) 34'15	27°55'59
morning max el	13833 Oct 09 15:33	3° ₾ 31'28	27°51'14	-	13834 Oct 03 18:09	0∘ 亚	
	13833 Oct 29 03:35	0° M ₊			13834 Oct 21 19:06	0° M ₊	
asc. node	13833 Nov 07 18:41	17° M 42'43		asc. node	13834 Oct 25 15:23	7° M 35′00	
morning set	13833 Nov 11 03:03	24°M33'55		morning set	13834 Oct 26 01:45	8°M27'39	
Fauth diet	13833 Nov 13 16:17	0° √ 1 7°⋅ 7 144141	1 21256 ATT	max. Earth dist.	13834 Oct 31 08:46	19° M .36'10	1.31841 AU
max. Earth dist.	13833 Nov 17 04:59	7° ∡ ¹44'41	1.31256 AU	superior conj	13834 Nov 02 15:08	24°M32'31	1°09'38
superior conj	13833 Nov 18 06:07	10° ∡ '04'26	1°24'53	minimum elong	13834 Nov 02 13:08	24°M20'02	1°10'05
minimum elong	13833 Nov 18 04:13	9° ×7' 53'50	1°25'38	minimum ciong	13834 Nov 05 02:35	0° ₹	1 10 05
evening rise	13833 Nov 24 22:49	24° ₹ 52'11		evening rise	13834 Nov 09 09:34	9° ∡ 123'44	
-	13833 Nov 27 08:49	ರ∘ರ			13834 Nov 19 20:06	ರ∘ರ	
desc. node	13833 Dec 10 11:36	23° る 54'40		desc. node	13834 Nov 27 08:42	11° る 39'14	
	13833 Dec 14 16:48	0° ≈		evening max el	13834 Dec 04 04:37	19° ට 33'14	24°14'06
evening max el	13833 Dec 22 16:28	9°≈12'40	25°47'19	retrograde	13834 Dec 17 20:07	26°る20'58	
retrograde	13834 Jan 05 14:24	16°≈14'22		evening set	13834 Dec 22 21:24	25° る 25'03	0.55500 : *-
evening set	13834 Jan 11 16:40	14°≈47'54	0.57521 ATT	min. Earth dist.	13834 Dec 28 16:09		0.55799 AU
min. Earth dist. inferior conj	13834 Jan 16 05:12 13834 Jan 19 04:17	12°≈10'12 10°≈06'34	0.57531 AU -4°35'28	inferior conj minimum elong	13834 Dec 30 20:12 13834 Dec 31 02:36	21°る11'39 21°る01'50	
minimum elong	13834 Jan 19 04.17	9° ≈ 51'04		morning rise	13835 Jan 08 09:42	21 30130 17° る 12'10	J JU 11
morning rise	13834 Jan 27 12:30	5°≈47'18	. 52 07	direct	13835 Jan 10 20:53	16° ろ 56'18	
direct	13834 Jan 29 14:31	5°≈33'46		morning max el	13835 Jan 21 02:03	21° る 51'16	19°51'53
				Č			

asc. node	13835 Jan 21 14:55	22° る 23'06		direct	13835 Dec 22 10:55	27° √ 19'47	
	13835 Jan 27 14:26	0° ≈			13835 Dec 30 13:16	ರ°0	
morning set	13835 Feb 07 19:22	20° ≈ 33'21		morning max el	13836 Jan 03 05:07		21°17'46
	13835 Feb 12 10:43	0° ∀		asc. node	13836 Jan 08 12:11	9° る 03'29	
					13836 Jan 20 15:02	0° ≈	
superior conj	13835 Feb 15 15:12	6°) €24'08	1°00'21	morning set	13836 Jan 23 04:28	5°≈16'16	
minimum elong max. Earth dist.	13835 Feb 15 17:56 13835 Feb 21 16:21	6°) 37'41 18°) 03'53	1°00'28 1.37248 AU	aumariar aani	12026 Ion 20 11:00	2000021150	1°19'24
desc. node	13835 Feb 21 10.21 13835 Feb 23 09:19	18 ★03 33 21°¥13'09	1.3/246 AU	superior conj minimum elong	13836 Jan 30 11:00 13836 Jan 30 13:24	20°≈31'58 20°≈44'26	1°19'52
evening rise	13835 Feb 25 09:54	24°) 52'45		max. Earth dist.	13836 Feb 04 02:43		1.35180 AU
e vennig 1150	13835 Feb 28 07:53	0° Υ		man. Barar alov.	13836 Feb 04 02:57	0° ∀	1.50100110
	13835 Mar 19 18:35	0°8		evening rise	13836 Feb 08 04:19	7° ¥ 50′10	
evening max el	13835 Apr 01 21:38	15° 8 43'17	25°27'53	desc. node	13836 Feb 10 05:53	11°) 40′09	
retrograde	13835 Apr 14 04:08	22° 8 48'49			13836 Feb 21 00:07	0° Y	
asc. node	13835 Apr 19 11:29	20° 8 50'48		evening max el	13836 Mar 14 11:28	29° Ƴ 31'17	26°31'47
evening set	13835 Apr 20 01:53	20° 8 21'56			13836 Mar 14 23:25	0° 8	
min. Earth dist.	13835 Apr 24 09:39	15° 8 37'24	0.67796 AU	retrograde	13836 Mar 27 11:59	6° 8 53'08	
inferior conj	13835 Apr 25 18:33	13° 8 51'21	1°50'33 1°49'15	evening set	13836 Apr 02 20:15	4° 8 21'19 1° 8 56'59	
minimum elong morning rise	13835 Apr 25 16:27 13835 May 01 07:27	7° 8 59'12	1-4915	asc. node min. Earth dist.	13836 Apr 05 08:55 13836 Apr 06 22:04	0° 8 11'38	0.66574 AU
direct	13835 May 04 19:16	6° 8 49'10		iiiii. Eartii dist.	13836 Apr 07 02:01	30°RΥ	0.00374 AC
morning max el	13835 May 11 16:59	10° 8 34'46	19°06'47	inferior conj	13836 Apr 08 19:29	27° Υ ′55'08	1°03'41
desc. node	13835 May 22 11:26	24° 8 28'39		minimum elong	13836 Apr 08 17:58	27° Y ′59'44	1°02'45
greatest brilliancy	13835 May 24 17:20	27° 8 48'33	-0.7m	morning rise	13836 Apr 14 16:40	22° Y 14'05	
	13835 May 26 04:18	$\Pi^{\circ}0$		direct	13836 Apr 17 17:59	21° Y 21'52	
morning set	13835 Jun 04 08:04	14° Ⅱ 01'38		morning max el	13836 Apr 24 04:48	24° Y 46'59	18°22'52
	13835 Jun 14 15:08	0∘ ௐ			13836 Apr 28 15:51	0°8	
max. Earth dist.	13835 Jun 17 21:21	5° © 05'52	1.45449 AU	desc. node	13836 May 08 08:11	14° 8 24'31	
	12025 1 20 17 04	0062200	2012120	morning set	13836 May 14 08:35	23° 8 55'46	
superior conj minimum elong	13835 Jun 20 17:04 13835 Jun 20 17:35	9° © 32'09 9° © 34'13			13836 May 18 04:35	0°Щ	
minimum ciong	13835 Jul 20 17:33 13835 Jul 03 11:27	9°Ω	2 1441	superior conj	13836 May 30 01:13	18° Ⅱ 36'58	-2°04'32
evening rise	13835 Jul 05 11:09	3° Ω 14'39		minimum elong	13836 May 29 18:22	18° Ⅱ 10'12	
asc. node	13835 Jul 16 10:07	20° Ω 56′09		max. Earth dist.	13836 May 30 17:11	19° Ⅲ 39'19	1.45867 AU
	13835 Jul 22 21:48	0° m)			13836 Jun 06 08:16	0°€	
evening max el	13835 Jul 24 21:12	2°m/09'30	18°20'46	evening rise	13836 Jun 14 22:56	13°528'48	
retrograde	13835 Jul 31 06:27	5° Mg 33'46		greatest brilliancy	13836 Jun 24 16:17	28°940'07	-0.8m
evening set	13835 Aug 03 07:00	4° m 43'21			13836 Jun 25 13:07	$0^{\circ}\Omega$	
	13835 Aug 08 11:57	30°R€	2026116	asc. node	13836 Jul 02 06:58	9° Ω 50′24	10054147
inferior conj minimum elong	13835 Aug 09 03:40 13835 Aug 09 06:02	29° Ω 14'24 29° Ω 07'29	2°26'16 2°25'05	evening max el retrograde	13836 Jul 07 08:21 13836 Jul 14 01:42	15° Ω 53'18 19° Ω 34'45	18°54'47
min. Earth dist.	13835 Aug 09 00:02	26° Ω 33'28	0.64565 AU	evening set	13836 Jul 17 11:14	$19^{\circ} \Omega 28'08$	
morning rise	13835 Aug 15 03:41	22° Ω 54'17	0.04303710	inferior conj	13836 Jul 22 23:52		2°55'15
desc. node	13835 Aug 18 09:38	20°Ω56'08		minimum elong	13836 Jul 23 01:32	12° Ω 38'58	2°54'09
direct	13835 Aug 21 17:11	20° Ω 17'01		min. Earth dist.	13836 Jul 24 16:43	10° Ω 35′07	0.66324 AU
morning max el	13835 Sep 04 08:37	28° Ω 14'52	27°25'00	morning rise	13836 Jul 28 15:05	6° Ω 19'51	
	13835 Sep 06 00:57	0° ™		direct	13836 Aug 03 21:09	3° Ω 40′19	
	13835 Sep 27 13:12	0∘ ⊽		desc. node	13836 Aug 04 07:06	3° Ω 40'57	
morning set	13835 Oct 09 15:40	21° £ 54'39		morning max el	13836 Aug 16 19:51	11° Ω 21'56	26°25'34
asc. node	13835 Oct 12 12:02 13835 Oct 13 16:04	27° £ 36′26 0° I L			13836 Aug 31 16:40 13836 Sep 19 03:26	0 ்⊽ 0° ™	
max. Earth dist.	13835 Oct 13 10:04 13835 Oct 14 05:06	1°ML07'23	1.32972 AU	morning set	13836 Sep 21 17:39	0 == 4° £ 47'19	
max. Lartii dist.	13033 001 14 03.00	1 11007 23	1.32)/2/10	max. Earth dist.	13836 Sep 25 15:50	12° ₽ 19'33	1.34617 AU
superior conj	13835 Oct 17 19:54	8°M45'06	0°48'42	asc. node	13836 Sep 28 08:39	17° £ 42'39	
minimum elong	13835 Oct 17 17:48	8°M33'52	0°48'54		•		
evening rise	13835 Oct 24 20:34	23°M53'55		superior conj	13836 Sep 30 17:59	22° ≏ 35'38	0°22'20
	13835 Oct 27 18:18	0° ∡		minimum elong	13836 Sep 30 16:47	22° ≏ 29'26	0°22'24
desc. node	13835 Nov 14 05:56	28° ∡ 08'56			13836 Oct 04 07:09	0° M	
evening max el	13835 Nov 15 14:57	29° ∡ '33'18	22°31'37	evening rise	13836 Oct 08 05:48	8°M17'31	
notno a 1-	13835 Nov 16 02:06	0°る 5° ス 57!25		ovenir 1	13836 Oct 19 18:01	0° ∡¹ 0° ⋅ 7 50/20	20057117
retrograde evening set	13835 Nov 28 12:52 13835 Dec 02 05:38	5°る57'25 5°る27'31		evening max el desc. node	13836 Oct 27 08:56 13836 Oct 31 03:15	9° х 50′20 12° х 58′43	20°57'16
min. Earth dist.	13835 Dec 02 03.38 13835 Dec 09 22:44	3 32 /31 1° 3 59'04	0.54728 AU	retrograde	13836 Nov 07 23:36	12 x · 38 43 15° x ⁷ 36'36	
inferior conj	13835 Dec 09 22:44 13835 Dec 10 18:32	1°る31'08		evening set	13836 Nov 10 11:28	15° х 30'30'	
minimum elong	13835 Dec 10 16:50	1° る 33'32		inferior conj	13836 Nov 19 09:52	11° × ² 28'12	-5°16'09
3	13835 Dec 13 12:50	30°R .∕ ¹		minimum elong	13836 Nov 19 00:47		5°13'19
morning rise	13835 Dec 19 05:17	27° ∡ ¹43'33		min. Earth dist.	13836 Nov 20 04:40	11° ∡ ′01′29	0.54529 AU

	1202631 27 1424	70 705100			12027 0 . 10 16 00	250M 40110	
morning rise	13836 Nov 27 14:24	7° ⋌ 35'28		retrograde	13837 Oct 19 16:08	25°M49'18	
direct	13836 Dec 01 18:30	6° ≯ 58'12		evening set	13837 Oct 21 13:58	25°M39'10	
morning max el	13836 Dec 14 19:45	13° ∡ 16'53	23°01'39	inferior conj	13837 Oct 30 08:45	21°M36'10	
asc. node	13836 Dec 25 09:21	26° ≯ 45'29		minimum elong	13837 Oct 29 23:28	21°M50'43	3°42'16
	13836 Dec 27 08:35	0°₹		min. Earth dist.	13837 Nov 01 13:26	20°M13'48	0.55265 AU
morning set	13837 Jan 06 15:57	20° る 02'37		morning rise	13837 Nov 07 07:13	17°ML17'43	
	13837 Jan 11 06:50	0° ≈		direct	13837 Nov 12 08:44	16°M20'52	
				morning max el	13837 Nov 26 05:28	23°M15'21	24°50'22
superior conj	13837 Jan 13 14:21	4° ≈ 59'15	1°31'39		13837 Dec 02 06:38	0° ∡ ¹	
minimum elong	13837 Jan 13 15:54	5° ≈ 07'36	1°32'27	asc. node	13837 Dec 12 06:25	15° ∡ 13′26	
max. Earth dist.	13837 Jan 16 20:14	11° ≈ 51'55	1.33462 AU		13837 Dec 19 21:49	8°0	
evening rise	13837 Jan 21 12:14	21° ≈ 20'49		morning set	13837 Dec 22 03:50	4°₹45'54	
	13837 Jan 26 01:03	0°) €					
desc. node	13837 Jan 27 02:31	1° ¥ 56'34		superior conj	13837 Dec 28 22:31	19° る 37'15	1°37'28
	13837 Feb 13 20:39	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	13837 Dec 28 23:00	19° る 39'55	1°38'30
evening max el	13837 Feb 25 00:56	13° Y 04'33	27°16'03	max. Earth dist.	13837 Dec 30 20:59	23° る 51'22	1.32193 AU
retrograde	13837 Mar 10 13:43	20° Ƴ 32'31			13838 Jan 02 17:41	0° ≈	
evening set	13837 Mar 17 06:22	18° Ƴ 01'31		evening rise	13838 Jan 05 06:18	5°≈15'39	
min. Earth dist.	13837 Mar 21 03:27	14° Υ 24'29	0.64965 AU	desc. node	13838 Jan 13 23:14	21° ≈ 56'16	
asc. node	13837 Mar 23 06:22	12° Υ 04'39			13838 Jan 18 16:31	0°) €	
inferior conj	13837 Mar 23 13:00	11° Υ 46'18	0°05'18	evening max el	13838 Feb 07 12:27	26° ¥ 10'35	27°33'51
minimum elong	13837 Mar 23 12:51	11° Υ 46'43	0°05'08	evening max or	13838 Feb 12 01:34	0°Υ	27 33 31
transit middle	13837 Mar 23 12:51	11° Υ 46'43	0°05'08	retrograde	13838 Feb 21 08:34	3° Υ 36'31	
transit begin	13837 Mar 23 09:58	11° Y 54'40	0 03 00	evening set	13838 Feb 28 05:43	1° Υ 13'41	
transit end	13837 Mar 23 15:44	11° Y 38'47		evening set	13838 Mar 01 20:35	30°R) €	
	13837 Mar 29 21:07	6°Υ18'30		min Earth dist		*	0.63030 AU
morning rise		5° Υ 41'12		min. Earth dist.	13838 Mar 03 23:59	28 H 03 02 25° H 16'49	
direct	13837 Apr 01 13:04		17055154	inferior conj	13838 Mar 06 20:12		
morning max el	13837 Apr 07 21:06		17°55'54	minimum elong	13838 Mar 06 22:20	25° ¥ 11'31	1°03'40
	13837 Apr 22 09:41	0°8		asc. node	13838 Mar 10 03:51	22°) 13'44	
desc. node	13837 Apr 25 04:52	4° 8 37'33		morning rise	13838 Mar 13 17:33	20°) €04'50	
morning set	13837 Apr 25 13:18	5° 8 12'25		direct	13838 Mar 16 01:39	19°) ₹38'54	
				morning max el	13838 Mar 22 14:52	22°) 59′20	17°46'18
superior conj	13837 May 09 15:15	28° 8 04'08			13838 Mar 28 04:22	0° Υ	
minimum elong	13837 May 09 06:16	27° 8 28'30	1°37'12	morning set	13838 Apr 07 19:30	17° Ƴ 41'36	
	13837 May 10 20:30	Π°		desc. node	13838 Apr 12 01:27	25° Y 02'00	
max. Earth dist.	13837 May 13 13:26	4° Ⅱ 15'46	1.45534 AU		13838 Apr 14 23:18	9° 8	
evening rise	13837 May 25 15:32	23° Ⅱ 00'05					
	13837 May 30 05:23	0 \circ \odot		superior conj	13838 Apr 20 00:56	8° 8 28'27	-0°59'39
greatest brilliancy	13837 Jun 08 21:18	14° 5 29'10	-0.6m	minimum elong	13838 Apr 19 19:00	8° 8 04'00	0°59'23
asc. node	13837 Jun 19 03:54	28° © 09'40		max. Earth dist.	13838 Apr 26 07:13	18° 8 37'57	1.44486 AU
evening max el	13837 Jun 20 14:29	29°5541'03	19°45'04		13838 May 03 12:56	Π \circ 0	
	13837 Jun 20 22:10	$0^{\circ}\Omega$		evening rise	13838 May 05 02:49	2° Ⅲ 26′03	
retrograde	13837 Jun 27 23:58	3° Ω 51'58			13838 May 23 18:23	0ං ව	
evening set	13837 Jul 01 18:59	2° Ω 28′29		evening max el	13838 Jun 03 14:45	13° © 30'20	20°49'35
	13837 Jul 04 09:09	30° Ŗ ூ		asc. node	13838 Jun 06 00:55	15° © 42'37	
inferior conj	13837 Jul 07 02:52	26°531'12	3°09'30	retrograde	13838 Jun 11 22:57	18° © 20'10	
minimum elong	13837 Jul 07 03:33	26°528'55	3°08'27	evening set	13838 Jun 16 04:09	16° © 39'57	
min. Earth dist.	13837 Jul 08 05:21	25° © 02'27	0.67661 AU	inferior conj	13838 Jun 21 10:08	10°530'53	3°11'16
morning rise	13837 Jul 12 11:42	20°907'30		minimum elong	13838 Jun 21 09:48	10°932'01	3°10'11
direct	13837 Jul 18 07:24	17° © 34'16		min. Earth dist.	13838 Jun 21 22:54	9° 5 46'39	0.68535 AU
desc. node	13837 Jul 22 04:30	18°930'24		morning rise	13838 Jun 26 15:10	4°छ11'10	
morning max el	13837 Jul 30 06:38	24°5544'46	25°06'41	direct	13838 Jul 01 22:54	1°951'01	
	13837 Aug 04 00:28	0° N		desc. node	13838 Jul 09 01:47	4°958'45	
	13837 Aug 25 03:31	0°mp		morning max el	13838 Jul 12 17:04	8°916'29	23°38'14
morning set	13837 Sep 04 03:44	16° Mp 55'55		morning max er	13838 Jul 29 17:52	0° Ω	23 30 1 .
max. Earth dist.	13837 Sep 07 03:44 13837 Sep 07 17:32	23° m 25'40	1.36693 AU	morning set	13838 Aug 16 17:23	28° Ω 10′03	
max. Earth dist.	13837 Sep 07 17:32 13837 Sep 11 05:10	ე∘ ი	1.50075710	morning set	13838 Aug 17 19:17	0° m)	
	13037 Sep 11 03.10	o –		may Earth dist	-	-	1.39025 AU
superior coni	13837 Can 14 06:22	5° £ 56'17	0.08123	max. Earth dist.	13838 Aug 20 15:09	4° Mp 53'21	1.37023 AU
superior conj	13837 Sep 14 06:22	5° £ 59'03	-0°08'52 0°08'45	aunaries con:	12020 Aug 20 05:25	100 m 20100	0.043133
minimum elong	13837 Sep 14 06:55		0 0043	superior conj	13838 Aug 28 05:25	18° M) 39'08	
behind sun begin	13837 Sep 14 01:26	5° £ 32'01		minimum elong	13838 Aug 28 08:33	18° My 53'49	0°43'07
behind sun end	13837 Sep 14 12:24	6° £ 26′07		asc. node	13838 Sep 02 01:46	27° m 53'51	
asc. node	13837 Sep 15 05:13	7° £ 49'31			13838 Sep 03 03:47	0° ⊽	
evening rise	13837 Sep 22 11:02	22° £ 28'02		evening rise	13838 Sep 06 09:34	6° £ 18'58	
	13837 Sep 26 05:40	0°M			13838 Sep 20 05:15	0°M	100/
evening max el	13837 Oct 09 16:41	20°M50'25	19°41'39	evening max el	13838 Sep 22 13:59	2°M39'48	18°47'53
desc. node	13837 Oct 18 00:40	25°M41'28		retrograde	13838 Oct 01 00:30	6°M54'22	

	12020 0-4 02 21.56	6°ML42′20		4 4.	12020 0 12 04-04	100 0 52107	
evening set	13838 Oct 02 21:56			retrograde	13839 Sep 13 04:04	18° £ 53'06	
desc. node	13838 Oct 04 22:08	6°M05'08	1055100	evening set	13839 Sep 15 07:26	18° ≏ 34'37	
inferior conj	13838 Oct 11 02:05	2°M21'22		desc. node	13839 Sep 21 19:39	14° △ 37'34	001/150
minimum elong	13838 Oct 10 21:12		1°55'05	inferior conj	13839 Sep 22 17:10	13° ≏ 52'26	
min. Earth dist.	13838 Oct 14 03:24	0° ™ 09'11	0.56810 AU	minimum elong	13839 Sep 22 16:34		0°16'29
	13838 Oct 14 08:42	30° ₽ Ω		min. Earth dist.	13839 Sep 26 00:22	11° ≏ 05'47	0.58888 AU
morning rise	13838 Oct 18 17:11	27° ≏ 26'25		morning rise	13839 Sep 29 22:16	8° ഫ 22'05	
direct	13838 Oct 24 13:05	26° ≏ 04'13		direct	13839 Oct 06 07:12	6° 亞 32'38	
	13838 Nov 03 17:13	0°M₊		morning max el	13839 Oct 20 14:40	14° ≏ 15'24	27°30'45
morning max el	13838 Nov 07 18:25	3°M26'44	26°25'24		13839 Nov 02 06:14	0° M	
	13838 Nov 26 19:47	0° ∡ ¹		asc. node	13839 Nov 16 00:13	23°M42'34	
asc. node	13838 Nov 29 03:23	4° ∡ 15'41			13839 Nov 19 03:04	0° ∡ ¹	
morning set	13838 Dec 06 14:25	19° ∡ ′21′30		morning set	13839 Nov 20 21:56	3° ∡ ¹44'32	
	13838 Dec 11 10:47	0°⋜					
				superior conj	13839 Nov 27 20:57	19° ∡ ′00′32	1°31'03
superior conj	13838 Dec 13 09:22	4° ⋜ 19'41	1°37'12	minimum elong	13839 Nov 27 19:27	18° ∡ 52′07	1°31'57
minimum elong	13838 Dec 13 08:47	4° る 16'25	1°38'16	max. Earth dist.	13839 Nov 27 11:27	18° ∡ 07'25	1.31165 AU
max. Earth dist.	13838 Dec 14 03:08	5° る 58'39	1.31422 AU		13839 Dec 02 19:42	0° ට	
evening rise	13838 Dec 20 07:51	19° පි 28'11		evening rise	13839 Dec 04 14:32	3° る 52′10	
Č	13838 Dec 25 12:35	0° ≈		Č	13839 Dec 18 08:04	0° ≈	
desc. node	13838 Dec 31 20:01	11° ≈ 32'30		desc. node	13839 Dec 18 16:57	0° ≈ 36'05	
	13839 Jan 13 03:01	0°) €		evening max el	13840 Jan 02 20:48	20° ≈ 16'19	26°30'24
evening max el	13839 Jan 20 19:58		27°19'30	retrograde	13840 Jan 16 19:51	27°≈23'23	20 30 2 1
retrograde	13839 Feb 03 19:13	15° ¥ 55'51	27 1730	evening set	13840 Jan 23 07:28	27 ≈ 23 23 25° ≈ 40'53	
evening set	13839 Feb 10 15:20	13°) ₹49′26		min. Earth dist.	13840 Jan 27 10:31	23°≈03'59	0.58709 AU
•		13 X 49 20	0.60889 AU				
min. Earth dist.	13839 Feb 14 10:30			inferior conj	13840 Jan 30 14:00	20°≈41'28	
inferior conj	13839 Feb 17 13:44	8°\(\)18'28		minimum elong	13840 Jan 30 22:07	20°≈26'05	3°45'51
minimum elong	13839 Feb 17 18:56	8° ₩ 07'08	2°22'14	morning rise	13840 Feb 07 15:49	16°≈09'06	
morning rise	13839 Feb 25 01:41	3°) €24'57		direct	13840 Feb 09 16:28	15° ≈ 54'48	
asc. node	13839 Feb 25 01:19	3° ¥ 25′13		asc. node	13840 Feb 11 22:45	16°≈13'26	
direct	13839 Feb 27 04:09	3° ¥ 06'41		morning max el	13840 Feb 17 17:19	19° ≈ 52'52	18°23'02
morning max el	13839 Mar 06 06:50	6°) 40′58	17°54'49		13840 Feb 25 05:22	0° ∀	
	13839 Mar 21 06:50	0° Y		morning set	13840 Mar 04 12:29	15° ∺ 05'53	
morning set	13839 Mar 21 21:05	1° Y ′04'53			13840 Mar 12 09:36	0° Y	
desc. node	13839 Mar 29 21:56	15° Ƴ 33'39					
				superior conj	13840 Mar 13 18:19	2° Y 30'39	0°16'09
superior conj	13839 Apr 01 10:38	19° Ƴ 59'15	0.50,00			0 0	
	13639 Apr 01 10.36	19 1 39 13	-0 2000	minimum elong	13840 Mar 13 19:28	2° Y 35'57	0°16'01
minimum elong	13839 Apr 01 08:51	19° Y 51'31		desc. node	13840 Mar 13 19:28 13840 Mar 15 18:26	2°'Υ'35'57 6°Υ'09'10	0°16'01
minimum elong	•						0°16'01 1.40789 AU
minimum elong max. Earth dist.	13839 Apr 01 08:51	19° Ƴ 51'31		desc. node	13840 Mar 15 18:26	6° Ƴ 09'10	
C	13839 Apr 01 08:51 13839 Apr 07 08:09	19° Ƴ 51'31 0° ႘	0°19'58	desc. node max. Earth dist.	13840 Mar 15 18:26 13840 Mar 21 06:57	6° Υ 09'10 15° Υ 51'08	
max. Earth dist.	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09	19° Y 51'31 0° と 2° と 32'51	0°19'58	desc. node max. Earth dist.	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25	6° Υ 09'10 15° Υ 51'08 23° Υ 17'59	
max. Earth dist.	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20	19°Y51'31 0°8 2°832'51 12°825'15	0°19'58 1.42846 AU	desc. node max. Earth dist.	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42	6°Y09'10 15°Y51'08 23°Y17'59 0°と 0°エ	1.40789 AU
max. Earth dist.	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43	19°Y51'31 0°8 2°832'51 12°825'15 0°Ⅲ 27°Ⅲ20'24	0°19'58 1.42846 AU	desc. node max. Earth dist. evening rise evening max el	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03	6°Y09'10 15°Y51'08 23°Y17'59 0°₩ 0°Ⅲ 11°Ⅲ12'20	1.40789 AU
max. Earth dist.	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12	19°Υ51'31 0°႘ 2°႘32'51 12°႘25'15 0°Π 27°Π20'24 0°ℱ	0°19'58 1.42846 AU	desc. node max. Earth dist. evening rise evening max el retrograde	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°Β 0°Π 11°Π12'20 17°Π27'33	1.40789 AU
max. Earth dist. evening rise evening max el asc. node	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03	19°Y51'31 0°႘ 2°႘32'51 12°႘25'15 0°Ⅲ 27°Ⅲ20'24 0°Ք 2°ℱ14'08	0°19'58 1.42846 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°႘ 0°Π 11°Π12'20 17°Π27'33 17°Π27'28	1.40789 AU
max. Earth dist. evening rise evening max el asc. node retrograde	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49	19°Y51'31 0°႘ 2°႘32'51 12°႘25'15 0°Ⅲ 27°Ⅲ20'24 0°孚 2°⊊14'08 2°⊊53'39	0°19'58 1.42846 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53	6°Y09'10 15°Y51'08 23°Y17'59 0°B 0°I 11°I12'20 17°I27'33 17°I27'28 15°I16'58	1.40789 AU 23°25'16
max. Earth dist. evening rise evening max el asc. node	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59	19°Y51'31 0°႘ 2°႘32'51 12°႘25'15 0°Ⅲ 27°Ⅲ20'24 0°ᢒ 2°ᢒ14'08 2°ᢒ53'39 0°ᢒ57'28	0°19'58 1.42846 AU	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist.	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49	6°Y09'10 15°Y51'08 23°Y17'59 0°႘ 0°Ⅱ 11°Ⅲ12'20 17°Ⅲ27'33 17°Ⅲ27'28 15°Ⅲ16'58 9°Ⅲ35'53	1.40789 AU 23°25'16 0.68861 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 20 08:12 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42	19°Y51'31 0°8 2°832'51 12°825'15 0°Ⅲ 27°Ⅲ20'24 0°9 2°914'08 2°953'39 0°957'28 30°RⅢ	0°19'58 1.42846 AU 22°04'44	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°႘ 0°Π 11°Π12'20 17°Π27'33 17°Π27'28 15°Π16'58 9°Π35'53 8°Π50'32	1.40789 AU 23°25'16 0.68861 AU 2°42'21
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28	19°Y51'31 0°8 2°832'51 12°825'15 0°Ⅲ 27°Ⅲ20'24 0°5 2°53'39 0°557'28 30°RⅢ 24°Ⅲ38'28	0°19'58 1.42846 AU 22°04'44 3°01'59	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°႘ 0°Π 11°Π12'20 17°Π27'33 17°Π27'28 15°Π16'58 9°Π35'53 8°Π50'32 8°Π56'58	1.40789 AU 23°25'16 0.68861 AU
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 18:15	19°Y51'31 0°8 2°832'51 12°825'15 0°II 27°II20'24 0°\$ 2°\$14'08 2°\$53'39 0°\$57'28 30°RII 24°II38'28 24°II42'43	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 25 10:18	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°႘ 0°Ⅱ 11°Ⅱ12'20 17°Ⅲ27'33 17°Ⅲ27'28 15°Ⅲ16'58 9°Ⅲ35'53 8°Ⅲ56'58 2°Ⅲ44'29	1.40789 AU 23°25'16 0.68861 AU 2°42'21
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist.	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 18:15 13839 Jun 05 19:05	19°Y51'31 0°8 2°832'51 12°825'15 0°Ⅲ 27°Ⅲ20'24 0°⑤ 2°⑤14'08 2°⑤53'39 0°⑤57'28 30°RⅢ 24°Ⅲ38'28 24°Ⅲ42'43 24°Ⅲ39'49	0°19'58 1.42846 AU 22°04'44 3°01'59	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 25 10:18 13840 May 29 16:47	6°Υ09'10 15°Υ51'08 23°Υ17'59 0°႘ 0°Π 11°Π12'20 17°Π27'33 17°Π27'28 15°Π16'58 9°Π35'53 8°Π50'32 8°Π56'58 2°Π44'29 1°Π02'33	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03
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max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 19:05 13839 Jun 05 19:05 13839 Jun 10 23:20 13839 Jun 10 23:20 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47	19°Y51'31 0°8 2°832'51 12°825'15 0°11 27°1120'24 0°9 2°914'08 2°953'39 0°957'28 30°8,11 24°1138'28 24°1142'43 24°1139'49 18°1124'53 16°1122'35 21°1155'39 22°1140'27 0°9 0°0 8°019'29 17°008'36	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48 0.68934 AU 22°09'32 1.41351 AU -1°18'26	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 25 10:18 13840 May 25 10:18 13840 May 29 16:47 13840 Jun 06 23:02 13840 Jun 11 19:56 13840 Jun 11 19:56 13840 Jun 25 07:42 13840 Jul 14 18:10 13840 Jul 14 18:10 13840 Jul 21 18:16 13840 Jul 21 18:16 13840 Jul 22 01:34 13840 Aug 01 11:03 13840 Aug 02 19:31 13840 Aug 05 18:57	6°Y09'10 15°Y51'08 23°Y17'59 0°8 0°11 11°112'20 17°112'728 15°116'58 9°135'53 8°150'32 8°156'58 2°1144'29 1°1102'33 5°1145'34 11°116'03 0°9 17°928'39 0°0 0°019'07 11°031'34 12°002'14 0°10 2°1023'32 7°1039'01	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03 20°48'13 1.43381 AU -1°49'23 1°49'35
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 19:05 13839 Jun 05 19:05 13839 Jun 10 23:20 13839 Jun 10 23:20 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jul 28 06:37 13839 Jul 28 06:37 13839 Aug 10 10:47 13839 Aug 10 10:47	19°Y51'31 0°8 2°832'51 12°825'15 0°11 27°1120'24 0°9 2°914'08 2°953'39 0°957'28 30°811 24°1138'28 24°1142'43 24°1139'49 18°1124'53 16°1122'35 21°1155'39 22°1140'27 0°9 0°10 8°119'29 17°1008'36	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48 0.68934 AU 22°09'32 1.41351 AU -1°18'26	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 25 10:18 13840 May 25 10:18 13840 Jun 06 23:02 13840 Jun 11 19:56 13840 Jun 12 5 07:42 13840 Jul 06 20:22 13840 Jul 14 18:10 13840 Jul 14 12:53	6°Y09'10 15°Y51'08 23°Y17'59 0°8 0° II 11° II 12'20 17° II 27'33 17° II 27'28 15° II 16'58 9° II 35'53 8° II 50'32 8° II 56'58 2° II 44'29 1° II 02'33 5° II 45'34 11° II 16'03 0° II 10'07 11° II 16'03 0° II 10'07 11°	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03 20°48'13 1.43381 AU -1°49'23
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 19:05 13839 Jun 05 19:05 13839 Jun 10 23:20 13839 Jun 10 23:20 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jun 25 05:25 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Jul 23 00:24 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47	19°Y51'31 0°8 2°832'51 12°825'15 0°11 27°1120'24 0°9 2°914'08 2°953'39 0°957'28 30°8,11 24°1138'28 24°1142'43 24°1139'49 18°1124'53 16°1122'35 21°1155'39 22°1140'27 0°9 0°0 8°019'29 17°008'36	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48 0.68934 AU 22°09'32 1.41351 AU -1°18'26	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 25 10:18 13840 May 25 10:18 13840 May 29 16:47 13840 Jun 06 23:02 13840 Jun 11 19:56 13840 Jun 11 19:56 13840 Jun 25 07:42 13840 Jul 14 18:10 13840 Jul 14 18:10 13840 Jul 21 18:16 13840 Jul 21 18:16 13840 Jul 22 01:34 13840 Aug 01 11:03 13840 Aug 02 19:31 13840 Aug 05 18:57	6°Y09'10 15°Y51'08 23°Y17'59 0°8 0°11 11°112'20 17°112'728 15°116'58 9°135'53 8°150'32 8°156'58 2°1144'29 1°1102'33 5°1145'34 11°116'03 0°9 17°928'39 0°0 0°019'07 11°031'34 12°002'14 0°10 2°1023'32 7°1039'01	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03 20°48'13 1.43381 AU -1°49'23 1°49'35
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 19:05 13839 Jun 10 23:20 13839 Jun 10 23:20 13839 Jun 25 05:25 13839 Jun 02 04:33 13839 Jun 03 00:24 13839 Jun 03 00:24 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 03:07 13839 Aug 10 03:07 13839 Aug 10 03:07	19°Y51'31 0°8 2°832'51 12°825'15 0° II 27° II 20'24 0°9 2°9514'08 2°953'39 0°957'28 30° RII 24° II 38'28 24° II 42'43 24° II 39'49 18° II 22'35 21° II 55'39 22° II 40'27 0°9 0° Q 8° Q 19'29 17° Q 08'36 0° II 33'54 1° II 00'114 0° III 17° III 55'36	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48 0.68934 AU 22°09'32 1.41351 AU -1°18'26	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 25 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 04:59 13840 May 25 10:18 13840 May 29 16:47 13840 Jun 06 23:02 13840 Jun 11 19:56 13840 Jun 11 19:56 13840 Jun 25 07:42 13840 Jul 25 07:42 13840 Jul 14 18:10 13840 Jul 14 18:10 13840 Jul 21 18:16 13840 Jul 22 01:34 13840 Aug 01 11:03 13840 Aug 02 19:31 13840 Aug 05 18:57 13840 Aug 19 09:43	6°Y09'10 15°Y51'08 23°Y17'59 0°8 0° II 11° II 12'20 17° II 27'33 17° II 27'28 15° II 16'58 9° II 35'53 8° II 50'32 8° II 56'58 2° II 44'29 1° II 02'33 5° II 45'34 11° II 16'03 0° II 10'07 11° II 16'03 0° II 10'07 11°	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03 20°48'13 1.43381 AU -1°49'23 1°49'35
max. Earth dist. evening rise evening max el asc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong asc. node	13839 Apr 01 08:51 13839 Apr 07 08:09 13839 Apr 08 21:09 13839 Apr 15 00:23 13839 Apr 26 13:20 13839 May 17 09:43 13839 May 20 08:12 13839 May 23 22:03 13839 May 26 20:49 13839 May 31 12:59 13839 Jun 01 13:42 13839 Jun 05 19:28 13839 Jun 05 19:28 13839 Jun 05 19:05 13839 Jun 10 23:20 13839 Jun 15 18:27 13839 Jun 25 05:25 13839 Jun 02 04:33 13839 Jun 02 04:33 13839 Jun 03 00:24 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 10:47 13839 Aug 10 03:07 13839 Aug 10 03:07 13839 Aug 10 22:20 13839 Aug 20 21:51	19°Y51'31 0°8 2°832'51 12°825'15 0°11 27°1120'24 0°9 2°9514'08 2°953'39 0°957'28 30°811 24°1138'28 24°1142'43 24°1139'49 18°1124'53 16°1122'35 21°1155'39 22°1140'27 0°9 0°10 8°101'29 17°108'36 0°1033'54 1°100'114 0°10 17°1051'36 19°1041'00	0°19'58 1.42846 AU 22°04'44 3°01'59 3°00'48 0.68934 AU 22°09'32 1.41351 AU -1°18'26 1°18'13	desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise asc. node evening max el	13840 Mar 15 18:26 13840 Mar 21 06:57 13840 Mar 22 17:25 13840 Mar 29 20:51 13840 Apr 19 11:42 13840 Apr 29 01:03 13840 May 09 16:10 13840 May 09 19:18 13840 May 14 19:53 13840 May 19 15:49 13840 May 20 04:59 13840 May 20 03:07 13840 May 20 16:47 13840 May 29 16:47 13840 Jun 06 23:02 13840 Jun 11 19:56 13840 Jun 12 07:42 13840 Jul 14 18:10 13840 Jul 14 18:10 13840 Jul 14 18:10 13840 Jul 21 18:16 13840 Jul 22 01:34 13840 Aug 01 11:03 13840 Aug 05 18:57 13840 Aug 19 09:43 13840 Aug 19 09:43 13840 Aug 19 19:31	6°Y09'10 15°Y51'08 23°Y17'59 0°℧ 0°Ⅲ 11°Ⅲ12'20 17°Ⅲ27'33 17°Ⅲ27'28 15°Ⅲ16'58 9°Ⅲ35'53 8°Ⅲ56'58 2°Ⅲ44'29 1°Ⅲ02'33 5°Ⅲ45'34 11°Ⅲ16'03 0°☺ 17°☺28'39 0°ℳ 0°ℳ19'07 11°ℳ31'34 12°ℳ02'14 0°™ 2°™23'32 7°™39'01 28°™13'50 0°乒	1.40789 AU 23°25'16 0.68861 AU 2°42'21 2°41'03 20°48'13 1.43381 AU -1°49'23 1°49'35

	13840 Aug 30 16:05	30°R M⊅			13841 Jul 25 09:33	0° m	
inferior conj	13840 Sep 04 04:11		1°03'28	evening max el	13841 Aug 03 00:10	11° m)39'11	18°09'00
minimum elong	13840 Sep 04 05:58	26° m) 02'59	1°02'39	retrograde	13841 Aug 09 08:52	14° m) 59'58	10 07 00
min. Earth dist.	13840 Sep 07 06:22	23° m) 07'05	0.61172 AU	evening set	13841 Aug 12 04:20	14° m) 18'15	
desc. node	13840 Sep 07 17:10	22° m/ 42'15	0.01172710	inferior conj	13841 Aug 18 07:13	8° m) 58'22	2°01'47
morning rise	13840 Sep 10 21:37	20° Mp 09'40		minimum elong	13841 Aug 18 09:41	8° Mp 51'31	2°00'36
direct	13840 Sep 17 12:58	17° m) 55'51		min. Earth dist.	13841 Aug 20 22:18	6° Mp 05'09	0.63389 AU
morning max el	13840 Oct 01 18:22	25° m/52'08	27°58'00	morning rise	13841 Aug 24 13:09	2° Mp 43'31	0.03307710
morning max cr	13840 Oct 05 14:39	0ಂ ರ	27 30 00	desc. node	13841 Aug 25 14:40	1° m ₂ 58'39	
	13840 Oct 05 14:39 13840 Oct 25 19:16	0 <u></u> 0°M		direct	13841 Aug 31 04:43	0° m) 12'12	
asc. node	13840 Nov 01 20:58	13°M27'19		morning max el	13841 Sep 14 03:16		27°46'54
morning set	13840 Nov 04 00:29	17°ML50'29		morning max ci	13841 Sep 30 23:16	0∘ ⊽	27 40 34
morning set	13840 Nov 09 16:36	0° √			13841 Oct 18 00:58	0 == 0°M₊	
max. Earth dist.		0° ₹ ¹08'45	1 21441 ATT	marning sat		1°MJ34'18	
max. Earm dist.	13840 Nov 09 18:11	0 × 0843	1.31441 AU	morning set asc. node	13841 Oct 18 19:51		
	12040 N 11 07-27	29.724127	1910107		13841 Oct 19 17:39	3°M24'28	1 22254 ATT
superior conj	13840 Nov 11 07:27	3° ∡ ³34'37		max. Earth dist.	13841 Oct 23 19:27	111163342	1.32254 AU
minimum elong	13840 Nov 11 05:20	3° ₹ 22'53	1°19'44		12041.0 . 26.14.55	1.50M .5510.6	1001105
evening rise	13840 Nov 18 00:23	18° ∡ ¹22'24		superior conj	13841 Oct 26 14:57	17°M.57'06	1°01'27
	13840 Nov 23 14:59	0° ろ		minimum elong	13841 Oct 26 12:40	17° M .44'43	1°01'46
desc. node	13840 Dec 04 13:59	18° る 54'10			13841 Nov 01 03:15	0° ∡ ¹	
	13840 Dec 13 11:59	0° ≈		evening rise	13841 Nov 02 11:30	2° ∡ 54′23	
evening max el	13840 Dec 14 13:01	1° ≈ 01'25	25°09'58		13841 Nov 16 23:25	0°ಕ	
retrograde	13840 Dec 28 08:39	7° ≈ 57'21		desc. node	13841 Nov 21 11:09	6° る 10'07	
evening set	13841 Jan 03 01:54	6° ≈ 43'44		evening max el	13841 Nov 25 23:09	11° る 08'30	23°30'30
min. Earth dist.	13841 Jan 08 01:02	4° ≈ 01'50	0.56730 AU	retrograde	13841 Dec 09 08:54	17° る 48'35	
inferior conj	13841 Jan 10 17:52	2° ≈ 15'40	-5°05'49	evening set	13841 Dec 13 20:55	17° る 04'32	
minimum elong	13841 Jan 11 02:26	2° ≈ 01'36	5°02'57	min. Earth dist.	13841 Dec 20 09:31	13° る 58'14	0.55242 AU
	13841 Jan 14 09:41	30°Ŗ₹		inferior conj	13841 Dec 22 01:29	12° る 59'41	-5°52'50
morning rise	13841 Jan 19 05:21	28° る 05'28		minimum elong	13841 Dec 22 04:58	12° る 54'35	5°51'33
direct	13841 Jan 21 10:20	27° る 51'24		morning rise	13841 Dec 30 14:43	9° ප 07'11	
	13841 Jan 27 20:48	0° ≈		direct	13842 Jan 02 08:39	8° る 48'49	
asc. node	13841 Jan 28 20:07	0° ≈ 42'12		morning max el	13842 Jan 13 05:55	14° る 01'29	20°25'51
morning max el	13841 Jan 30 18:13	2° ≈ 22'50	19°12'56	asc. node	13842 Jan 15 17:26	16° る 39'42	
morning set	13841 Feb 16 13:13	29° ≈ 30'21			13842 Jan 24 14:17	0° ≈	
Ü	13841 Feb 16 19:12	0° ∀				1.40 - 0.0140	
	13041 1 60 10 19.12	0 /		morning set	13842 Jan 31 20:01	14° ≈ 08'40	
	13641 Feb 10 19.12	0 / (morning set	13842 Jan 31 20:01	14 2 ≈ 08 40	
superior conj	13841 Feb 10 19:12 13841 Feb 24 19:25	15°) (49'11	0°46'11	superior conj	13842 Jan 31 20:01 13842 Feb 08 09:30	14°≈08 40 29°≈42'24	1°09'16
superior conj minimum elong			0°46'11 0°46'09				1°09'16 1°09'31
	13841 Feb 24 19:25	15° ¥ 49'11 16° ¥ 01'21		superior conj	13842 Feb 08 09:30	29° ≈ 42'24	
minimum elong	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56	15°) 49'11 16°) €01'21 26°) €44'19	0°46'09	superior conj minimum elong	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59	29°≈42'24 29°≈55'57 0°¥	1°09'31
minimum elong desc. node	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41	15°) 49'11 16°) 40'21 26°) 44'19 28°) 27'27		superior conj minimum elong max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59	29°≈42'24 29°≈55'57 0°₩ 10°₩30'27	
minimum elong desc. node max. Earth dist.	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18	15°) 49'11 16°) 401'21 26°) 44'19 28°) 427'27 0° °	0°46'09	superior conj minimum elong max. Earth dist. desc. node	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30	29°≈42'24 29°≈55'57 0°¥ 10°¥30'27 17°¥15'35	1°09'31
minimum elong desc. node	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32	15° X 49'11 16° X 01'21 26° X 44'19 28° X 27'27 0° Υ 5° Υ 04'39	0°46'09	superior conj minimum elong max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37	29°≈42'24 29°≈55'57 0°₩ 10°₩30'27 17°₩15'35 17°₩38'57	1°09'31
minimum elong desc. node max. Earth dist. evening rise	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54	15°¥49'11 16°¥01'21 26°¥44'19 28°¥27'27 0°Ƴ 5°Ƴ04'39 0°℧	0°46'09 1.38532 AU	superior conj minimum elong max. Earth dist. desc. node	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05	29°≈42'24 29°≈55'57 0°₩ 10°₩30'27 17°₩15'35 17°₩38'57 0°Ψ'	1°09'31
minimum elong desc. node max. Earth dist.	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40	15° χ49'11 16° χ01'21 26° χ44'19 28° χ27'27 0° Υ 5° Υ04'39 0° ႘ 25° ႘05'14	0°46'09 1.38532 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06	29°≈42'24 29°≈55'57 0°₩ 10°₩30'27 17°₩15'35 17°₩38'57 0°Ψ' 0°₩	1°09'31 1.36329 AU
minimum elong desc. node max. Earth dist. evening rise evening max el	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 17 14:11	15° \ 49'11 16° \ 101'21 26° \ 44'19 28° \ 27'27 0° \ 7 5° \ 704'39 0° \ 8 25° \ 805'14 0° \ I	0°46'09 1.38532 AU	superior conj minimum elong max. Earth dist. desc. node evening rise	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06	29°≈42'24 29°≈55'57 0°¥ 10°¥30'27 17°¥15'35 17°¥38'57 0°Y 0°∀ 8°∀56'20	1°09'31
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 17 14:11 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12	15° \ 49'11 16° \ 40'121 26° \ 44'19 28° \ 27'27 0° \ 7 5° \ 704'39 0° \ 8 25° \ 805'14 0° \ 11 1° \ 155'33 1° \ 106'18 30° \ 8	0°46'09 1.38532 AU	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01	29°≈42'24 29°≈55'57 0°₩ 10°₩30'27 17°₩15'35 17°₩38'57 0°Ψ 0°₩ 8°₩56'20 16°₩10'55 13°₩41'00 13°₩04'46	1°09'31 1.36329 AU 25°56'53
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 17 14:11 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 12:46 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 13 16:31 13841 May 21 00:00 13841 May 29 08:00	15° χ49'11 16° χ01'21 26° χ44'19 28° χ27'27 0° Υ 5° Υ04'39 0° ႘ 25° ႘05'14 0° Π 1° Π55'33 1° Π06'18 30° κ႘ 29° ႘33'18 24° ႘28'34 23° ႘02'52 23° ႘10'01 17° ႘05'28 15° ႘44'16 19° ႘47'08 0° Π	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 17 02:29 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 18 15:44	29°≈42'24 29°≈55'57 0° ₩ 10° ₩ 30'27 17° ₩ 15'35 17° ₩ 38'57 0° Ψ 0° ੴ 8° ੴ 56'20 16° ੴ 10'55 13° ੴ 41'00 13° ੴ 41'20 7° ੴ 11'20 7° ੴ 11'27 1° ੴ 23'51 0° ੴ 21'54 3° ੴ 57'24 20° ੴ 14'12 23° ੴ 25'03	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 17 14:11 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 10:37 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 13 16:31 13841 May 21 00:00 13841 May 29 08:00 13841 May 29 16:52	15° \ 49'11 16° \ 40'121 26° \ 44'19 28° \ 27'27 0° \ 7 5° \ 704'39 0° \ 8 25° \ 805'14 0° \ 11 1° \ 155'33 1° \ 106'18 30° \ 8 29° \ 833'18 24° \ 828'34 23° \ 802'52 23° \ 810'01 17° \ 805'28 15° \ 844'16 19° \ 847'08 0° \ 11 0° \ 1130'48	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09 19°39'26	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 17 02:29 13842 Apr 18 16:49 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 18 15:44 13842 May 22 21:54	29°≈42'24 29°≈55'57 0° ₩ 10° ₩ 30'27 17° ₩ 15'35 17° ₩ 38'57 0° Ψ 0° ৳ 8° ₺ 56'20 16° ₺ 10'55 13° ₺ 41'00 13° ₺ 04'46 9° ₺ 11'37 7° ₺ 11'20 7° ₺ 17'27 1° ₺ 23'51 0° ₺ 21'54 3° ₺ 57'24 20° ₺ 14'12 23° ₺ 25'03 0° Щ	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52 18°46'02
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minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13841 Feb 24 19:25 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 17 14:11 13841 Apr 23 07:54 13841 Apr 28 10:12 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 09 22:10 13841 May 13 16:31 13841 May 29 08:00 13841 May 29 08:00 13841 May 29 16:52 13841 Jun 02 16:41 13841 Jun 15 22:14 13841 Jun 18 09:45 13841 Jun 27 12:31	15° \ 49'11 16° \ 701'21 26° \ 44'19 28° \ 72'27 0° \ 7 5° \ 704'39 0° \ 25° \ 505'14 0° \ 11 1° \ 155'33 1° \ 106'18 30° \ 8 29° \ 33'18 24° \ 828'34 23° \ 802'52 23° \ 810'01 17° \ 805'28 15° \ 844'16 19° \ 847'08 0° \ 11 0° \ 130'48 6° \ 113'53 26° \ 110'52 0° \ 9 14° \ 913'40 21° \ 929'27 21° \ 947'24	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09 19°39'26 -0.6m 1.44882 AU -2°09'38	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 18 16:49 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 16 13:41 13842 May 12 21:54 13842 May 26 09:16 13842 Jun 10 06:20 13842 Jun 11 03:48 13842 Jun 11 15:00 13842 Jun 11 12:08 13842 Jun 16 23:22	29°≈42'24 29°≈55'57 0° ₩ 10° ₩30'27 17° ₩15'35 17° ₩38'57 0° Ψ 0° ₩ 8° ₩56'20 16° ੴ10'55 13° ੴ41'00 13° ੴ41'46 9° ੴ11'37 7° ੴ11'20 7° ੴ17'27 1° ੴ23'51 0° ੴ21'54 3° ੴ57'24 20° ੴ14'12 23° ₩25'03 0° ∭ 5° ∭24'26 28° ∭36'02 0° © 0° \$\frac{3}{4}'48 0° \$\frac{3}{2}'34 25° \$\frac{3}{2}'38	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52 18°46'02 -0.8m 1.45717 AU -2°12'17
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 12:46 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 09 22:10 13841 May 13 16:31 13841 May 29 08:00 13841 May 29 08:00 13841 May 29 16:52 13841 Jun 02 16:41 13841 Jun 15 22:14 13841 Jun 15 22:14 13841 Jun 17 12:31 13841 Jun 18 09:45 13841 Jun 27 12:31	15° \ 49'11 16° \ 701'21 26° \ 44'19 28° \ 72'727 0° \ 7 5° \ 704'39 0° \ 25° \ 505'14 0° \ 11 1° \ 155'33 1° \ 106'18 30° \ 8 29° \ 533'18 24° \ 528'34 23° \ 502'52 23° \ 510'01 17° \ 505'28 15° \ 544'16 19° \ 547'08 0° \ 11 0° \ 130'48 6° \ 113'53 26° \ 110'52 0° \ 9 14° \ 913'40 21° \ 929'27 21° \ 947'24 0° \ \ \ \ 0° \ \ \ \ \ \ \ \ \ \ \ \ \	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09 19°39'26 -0.6m 1.44882 AU -2°09'38	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 18 16:49 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 16 13:41 13842 May 22 21:54 13842 May 26 09:16 13842 Jun 10 06:20 13842 Jun 11 15:00 13842 Jun 11 12:08 13842 Jun 11 12:08 13842 Jun 26 23:22 13842 Jun 30 01:27	29°≈42'24 29°≈55'57 0° ₩ 10° ₩ 30'27 17° ₩ 15'35 17° ₩ 38'57 0° Ψ 0° ৳ 8° ₺ 56'20 16° ₺ 10'55 13° ₺ 41'00 13° ₺ 04'46 9° ₺ 11'37 7° ₺ 11'20 7° ₺ 17'27 1° ₺ 23'51 0° ₺ 21'54 3° ₺ 57'24 20° ₺ 14'12 23° ₺ 25'03 0° Ⅲ 5° Ⅲ 24'26 28° Ⅲ 36'02 0° ₺ 0° ₺ 43'48 0° ₺ 32'34 25° ₺ 02'38 0° ₤	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52 18°46'02 -0.8m 1.45717 AU -2°12'17 2°13'16
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	13841 Feb 24 19:25 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 17 14:11 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 12:46 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 09 22:10 13841 May 29 08:00 13841 May 29 08:00 13841 May 29 16:52 13841 Jun 02 16:41 13841 Jun 15 22:14 13841 Jun 15 22:14 13841 Jun 16:59 13841 Jun 17 07:57 13841 Jul 02 01:59 13841 Jul 02 06:27 13841 Jul 07 07:57 13841 Jul 07 07:57	15° \ 49'11 16° \ 701'21 26° \ 44'19 28° \ 72'727 0° \ Y 5° \ Y04'39 0° \ 25° \ 505'14 0° \ II 1° \ I55'33 1° \ I06'18 30° \ 8\ 29° \ 533'18 24° \ 528'34 23° \ 502'52 23° \ 510'01 17° \ 505'28 15° \ 544'16 19° \ 547'08 0° \ II 0° \ I13'53 26° \ I10'52 0° \ 9 14° \ 913'40 21° \ 929'27 21° \ 947'24 0° \ \ 0° \ \ 13'54	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09 19°39'26 -0.6m 1.44882 AU -2°09'38	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 18 16:49 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 16 13:41 13842 May 16 13:41 13842 May 22 21:54 13842 May 26 09:16 13842 Jun 10 06:20 13842 Jun 11 15:00 13842 Jun 11 15:00 13842 Jun 11 15:00 13842 Jun 11 12:08 13842 Jun 26 23:22 13842 Jun 30 01:27 13842 Jun 30 01:27 13842 Jun 30 01:27	29°≈42'24 29°≈55'57 0° ₩ 10° ₩ 30'27 17° ₩ 15'35 17° ₩ 38'57 0° Ψ 0° ৳ 8° ₺ 56'20 16° ₺ 10'55 13° ₺ 41'00 13° ₺ 04'46 9° ₺ 11'37 7° ₺ 11'20 7° ₺ 17'27 1° ₺ 23'51 0° ₺ 21'54 3° ₺ 57'24 20° ₺ 14'12 23° ₺ 25'03 0° Ⅲ 5° Ⅲ 24'26 28° Ⅲ 36'02 0° ₺ 32'34 25° ₺ 02'38 0° ₤ 4° ₤ 29'31	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52 18°46'02 -0.8m 1.45717 AU -2°12'17
minimum elong desc. node max. Earth dist. evening rise evening max el retrograde asc. node evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	13841 Feb 24 19:25 13841 Feb 24 21:56 13841 Mar 02 14:56 13841 Mar 03 13:41 13841 Mar 04 10:18 13841 Mar 07 07:32 13841 Mar 22 21:54 13841 Apr 11 14:40 13841 Apr 23 07:54 13841 Apr 26 16:37 13841 Apr 28 10:12 13841 Apr 28 23:17 13841 May 03 10:57 13841 May 04 12:46 13841 May 04 10:37 13841 May 04 10:37 13841 May 09 22:10 13841 May 09 22:10 13841 May 13 16:31 13841 May 29 08:00 13841 May 29 08:00 13841 May 29 16:52 13841 Jun 02 16:41 13841 Jun 15 22:14 13841 Jun 15 22:14 13841 Jun 17 12:31 13841 Jun 18 09:45 13841 Jun 27 12:31	15° \ 49'11 16° \ 701'21 26° \ 44'19 28° \ 72'727 0° \ 7 5° \ 704'39 0° \ 25° \ 505'14 0° \ 11 1° \ 155'33 1° \ 106'18 30° \ 8 29° \ 533'18 24° \ 528'34 23° \ 502'52 23° \ 510'01 17° \ 505'28 15° \ 544'16 19° \ 547'08 0° \ 11 0° \ 130'48 6° \ 113'53 26° \ 110'52 0° \ 9 14° \ 913'40 21° \ 929'27 21° \ 947'24 0° \ \ \ \ 0° \ \ \ \ \ \ \ \ \ \ \ \ \	0°46'09 1.38532 AU 24°45'00 0.68318 AU 2°12'30 2°11'09 19°39'26 -0.6m 1.44882 AU -2°09'38	superior conj minimum elong max. Earth dist. desc. node evening rise evening max el retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13842 Feb 08 09:30 13842 Feb 08 12:11 13842 Feb 08 12:59 13842 Feb 13 20:59 13842 Feb 17 11:30 13842 Feb 17 16:37 13842 Feb 24 18:05 13842 Mar 17 05:06 13842 Mar 25 04:06 13842 Apr 06 19:04 13842 Apr 12 21:31 13842 Apr 13 14:01 13842 Apr 18 16:49 13842 Apr 18 16:49 13842 Apr 24 08:57 13842 Apr 27 16:04 13842 Apr 27 16:04 13842 May 04 08:19 13842 May 16 13:41 13842 May 16 13:41 13842 May 22 21:54 13842 May 26 09:16 13842 Jun 10 06:20 13842 Jun 11 15:00 13842 Jun 11 12:08 13842 Jun 11 12:08 13842 Jun 26 23:22 13842 Jun 30 01:27	29°≈42'24 29°≈55'57 0° ₩ 10° ₩ 30'27 17° ₩ 15'35 17° ₩ 38'57 0° Ψ 0° ৳ 8° ₺ 56'20 16° ₺ 10'55 13° ₺ 41'00 13° ₺ 04'46 9° ₺ 11'37 7° ₺ 11'20 7° ₺ 17'27 1° ₺ 23'51 0° ₺ 21'54 3° ₺ 57'24 20° ₺ 14'12 23° ₺ 25'03 0° Ⅲ 5° Ⅲ 24'26 28° Ⅲ 36'02 0° ₺ 0° ₺ 43'48 0° ₺ 32'34 25° ₺ 02'38 0° ₤	1°09'31 1.36329 AU 25°56'53 0.67328 AU 1°32'03 1°30'52 18°46'02 -0.8m 1.45717 AU -2°12'17 2°13'16

avanina may al	12042 Inl. 17 12:16	25° Ω 18'17	18°33'10	aga mada	12042 Jun 27 00:10	5° Ω 02'59	
evening max el retrograde	13842 Jul 17 13:16 13842 Jul 24 01:08	$28^{\circ} \Omega 48'37$	18-33-10	asc. node evening max el	13843 Jun 27 09:18 13843 Jun 30 22:34	9°Ω05'26	19°14'18
evening set	13842 Jul 27 05:19	$27^{\circ}\Omega51'39$		retrograde	13843 Jul 07 21:53	$12^{\circ}\Omega 57'51$	19 14 16
inferior conj	13842 Aug 01 22:10	$22^{\circ}\Omega 16'13$	2°40'33	evening set	13843 Jul 11 11:20	12 0 (37 31 11° Ω 44'14	
minimum elong	13842 Aug 02 00:17	22°Ω09'46	2°39'23	inferior conj	13843 Jul 16 21:37	5°Ω54'47	3°02'55
min. Earth dist.	13842 Aug 03 23:27	19° Ω 47'09	0.65357 AU	minimum elong	13843 Jul 16 22:53	5°Ω50'40	3°01'51
morning rise	13842 Aug 07 18:07	15°Ω53'16	0.0030 / 110	min. Earth dist.	13843 Jul 18 08:25	4°Ω01'46	0.66952 AU
desc. node	13842 Aug 12 12:11	13° Ω 24'09			13843 Jul 21 20:50	30°Rூ	
direct	13842 Aug 14 04:52	13° Ω 13'40		morning rise	13843 Jul 22 09:49	29° © 30'12	
morning max el	13842 Aug 27 14:16	21° Ω 07'25	27°02'39	direct	13843 Jul 28 11:53	26° © 52'03	
C	13842 Sep 04 07:04	0° m		desc. node	13843 Jul 30 09:36	27° © 05'34	
	13842 Sep 24 03:02	0∘ ⊽			13843 Aug 05 02:59	$0^{\circ}\Omega$	
morning set	13842 Oct 02 05:07	14° ≏ 47'55		morning max el	13843 Aug 10 01:14	4° Ω 22'19	25°53'40
max. Earth dist.	13842 Oct 06 11:39	23° ₽ 15'10	1.33605 AU		13843 Aug 29 16:14	0° m)	
asc. node	13842 Oct 06 14:16	23° ≏ 28'30		morning set	13843 Sep 15 00:50	27° m 23'24	
	13842 Oct 09 18:09	0° M			13843 Sep 16 10:39	0∘ ⊽	
				max. Earth dist.	13843 Sep 18 17:49	4° ≏ 20'46	1.35458 AU
superior conj	13842 Oct 10 17:10	2°M01'01	0°38'09	asc. node	13843 Sep 23 10:51	13° ≏ 35'47	
minimum elong	13842 Oct 10 15:21	1°M51'26	0°38'16				
evening rise	13842 Oct 17 21:57	17° M 22'07		superior conj	13843 Sep 24 11:32	15° ≏ 40'17	0°09'38
	13842 Oct 24 03:10	0° ∡ ¹		minimum elong	13843 Sep 24 10:58	15° ≏ 37'26	0°09'43
evening max el	13842 Nov 07 11:33	21° ∡ 11'11	21°49'43	behind sun begin	13843 Sep 24 06:03	15° ≏ 12'31	
desc. node	13842 Nov 08 08:25	22° х 00′43		behind sun end	13843 Sep 24 15:53	16° ≏ 02'24	
retrograde	13842 Nov 19 22:12	27° ∡ ¹21'17			13843 Oct 01 10:14	0° M	
evening set	13842 Nov 23 00:59	26° ₹ 59'29		evening rise	13843 Oct 02 05:46	1° M ₊40'57	
inferior conj	13842 Dec 01 19:09	23° ₹ 05'55			13843 Oct 18 19:46	0° ∡ ¹	
minimum elong	13842 Dec 01 13:40	23° ⋌ 13'35		evening max el	13843 Oct 20 11:10	1° ∡ ′45′10	20°22'30
min. Earth dist.	13842 Dec 01 15:44	23° ∡ 10'42	0.54523 AU	desc. node	13843 Oct 26 05:45	5° ₹ ′59′32	
morning rise	13842 Dec 10 03:16	19° ⋌ 18'18		retrograde	13843 Oct 31 09:16	7° ⋌ 11'00	
direct	13842 Dec 13 18:05	18° × ⁷ 49'34	22000121	evening set	13843 Nov 02 13:14	6° 🗷 59'10	40.4011.0
morning max el	13842 Dec 26 03:10	24° ₹ '45'56	22°00'21	inferior conj	13843 Nov 11 11:54	3° ∡ '03'25	
1-	13842 Dec 30 20:00	0°궁 3°궁48'09		minimum elong	13843 Nov 11 01:49	3°×718'10	
asc. node	13843 Jan 02 14:40 13843 Jan 16 06:20	28° ろ 53'15		min. Earth dist.	13843 Nov 12 22:36 13843 Nov 17 02:19	2° ₹ 12'35 30° RML	0.54736 AU
morning set	13843 Jan 16 06:20 13843 Jan 16 18:59	28° ⊙ 33°13		marning rigo	13843 Nov 17 02:19 13843 Nov 19 13:50	29°M01'50	
	13643 Jan 10 16.39	0 &		morning rise direct	13843 Nov 24 03:38	29 ILO1 30 28°MJ16'42	
superior conj	13843 Jan 23 08:50	13° ≈ 59'19	1°25'23	direct	13843 Nov 30 22:28	20 110 10 42 0° ₹ ¹	
minimum elong	13843 Jan 23 10:56	14°≈10'18	1°26'01	morning max el	13843 Dec 07 14:22	4° ∡ 751'37	23°48'17
max. Earth dist.	13843 Jan 27 09:43	22°≈20'35	1.34394 AU	asc. node	13843 Dec 20 11:47	21° × 751'22	25 40 17
man zam ust.	13843 Jan 31 06:29	0° ∀	1.0 109 1110	use. Houe	13843 Dec 25 01:05	0°る	
evening rise	13843 Jan 31 17:10	0° ¥ 51'29		morning set	13843 Dec 31 18:09	13° る 38'31	
desc. node	13843 Feb 04 08:07	7° ¥ 38'42		. 8			
	13843 Feb 17 19:15	0° Ƴ		superior conj	13844 Jan 07 14:28	28° る 31'39	1°34'52
evening max el	13843 Mar 07 17:52	22° Y ′39'22	26°53'31	minimum elong	13844 Jan 07 15:35	28° る 37'42	1°35'48
•	13843 Mar 19 16:44	0°8		-	13844 Jan 08 06:47	0° ≈	
retrograde	13843 Mar 21 00:41	0° 8 05'45		max. Earth dist.	13844 Jan 10 06:26	4° ≈ 15'44	1.32865 AU
	13843 Mar 22 07:52	30° Ŗ ♈		evening rise	13844 Jan 15 05:45	14° ≈ 33'22	
evening set	13843 Mar 27 12:41	27° Y ′33'35		desc. node	13844 Jan 22 04:46	27° ≈ 48'48	
asc. node	13843 Mar 31 11:28	23° Y '40'19			13844 Jan 23 10:09	0°)	
min. Earth dist.	13843 Mar 31 12:18	23° Y '37'56	0.65925 AU		13844 Feb 12 15:45	0° Y	
inferior conj	13843 Apr 02 14:56	21° Y 10'53	0°40'24	evening max el	13844 Feb 18 06:59	6° Y 03'24	27°27'26
minimum elong	13843 Apr 02 13:54	21° Y 13'56	0°39'43	retrograde	13844 Mar 02 23:33	13° Y '30'55	
morning rise	13843 Apr 08 16:27	15° Ƴ 35'04		evening set	13844 Mar 09 18:31	11° Y ′02'48	
direct	13843 Apr 11 13:32	14° Y ′49'42		min. Earth dist.	13844 Mar 13 14:15	7° Ƴ 38'15	0.64169 AU
morning max el	13843 Apr 17 22:21	18° Y 10′20	18°09'17	inferior conj	13844 Mar 16 04:28	4° Υ 54'29	
	13843 Apr 26 21:55	0°8		minimum elong	13844 Mar 16 05:10	4° Y 52'38	0°22'42
desc. node	13843 May 03 10:25	10° 8 18'29		asc. node	13844 Mar 17 08:57	3° Υ '40'22	
morning set	13843 May 06 21:40	15° 8 53'56			13844 Mar 21 19:43	30° ₹ ₩	
	13843 May 15 17:01	$\Pi^{\circ}0$		morning rise	13844 Mar 22 17:55	29°) € 32'45	
gunorier cor-	13843 May 21 23:39	00П 52140	1054150	direct	13844 Mar 25 06:20	29°) €00'39 0° °	
superior conj	13043 10180 /1 /3:39	9° Ⅱ 53'48	-1 34 30		13844 Mar 28 16:40		1 50 1010 0
	•	00T2010C	1955100	morning me1	120// Man 21 15.22	201717150	
minimum elong	13843 May 21 15:04	9° Ⅱ 20'06		morning max el	13844 Mar 31 15:33	2° Y 17'58	17°49'39
max. Earth dist.	13843 May 21 15:04 13843 May 24 02:14	13° Ⅱ 11'42	1°55'09 1.45814 AU	morning max el morning set	13844 Apr 17 13:55	27° Y ′43'55	17°49'39
max. Earth dist.	13843 May 21 15:04 13843 May 24 02:14 13843 Jun 03 21:34	13° Ⅱ 11'42 0°໑		morning set	13844 Apr 17 13:55 13844 Apr 18 22:13	27° Ƴ 43'55 0° ႘	17°49'39
max. Earth dist.	13843 May 21 15:04 13843 May 24 02:14 13843 Jun 03 21:34 13843 Jun 07 01:48	13°∏11'42 0°© 4°©55'31	1.45814 AU	-	13844 Apr 17 13:55	27° Y ′43'55	17°49'39
max. Earth dist.	13843 May 21 15:04 13843 May 24 02:14 13843 Jun 03 21:34	13° Ⅱ 11'42 0°໑		morning set	13844 Apr 17 13:55 13844 Apr 18 22:13	27° Ƴ 43'55 0° ႘	

minimum elong	13844 Apr 30 12:44	19° 8 09'38	1021/40	evening rise	13845 Apr 26 04:11	23° 8 56'22	
max. Earth dist.	13844 May 05 21:58	27° 8 45'08	1.45171 AU	evening rise	13845 Apr 30 02:53	23 О 30 22	
max. Earm dist.	13844 May 07 08:13	0°Ⅱ	1.431/1 AU		13845 May 21 03:37	0°©	
evening rise	13844 May 16 14:07	0 H 14°H19'47		evening max el	13845 May 27 00:12	6°9544'26	21°20'25
evening rise	•	14 п 1947		asc. node	•		21 20 23
	13844 May 26 23:09	0°99 22°9954'55	20010157		13845 May 31 03:20	10°513'40	
evening max el	13844 Jun 13 02:21		20°10'56	retrograde	13845 Jun 04 19:19	11°952'18	
asc. node	13844 Jun 13 06:16	23°504'40		evening set	13845 Jun 09 05:11	10°904'54	200012.5
retrograde	13844 Jun 20 20:36	27°520'54		inferior conj	13845 Jun 14 11:05	3°951'15	3°08'35
evening set	13844 Jun 24 19:56	25°950'09		minimum elong	13845 Jun 14 10:22	3°953'46	3°07'29
inferior conj	13844 Jun 30 02:42	19° © 47'50	3°11'37	min. Earth dist.	13845 Jun 14 18:07	3°526'46	0.68768 AU
minimum elong	13844 Jun 30 02:57	19° © 46'59	3°10'35		13845 Jun 17 08:19	30°RⅡ	
min. Earth dist.	13844 Jun 30 23:16	18° © 37'48	0.68099 AU	morning rise	13845 Jun 19 15:20	27° Ⅲ 34'07	
morning rise	13844 Jul 05 09:38	13° © 25'46		direct	13845 Jun 24 17:41	25° Ⅲ 21'23	
direct	13844 Jul 11 00:30	10° © 57'21		desc. node	13845 Jul 03 04:10	29° Ⅱ 43'04	
desc. node	13844 Jul 16 06:56	12° © 40'42			13845 Jul 03 11:35	0 \circ	
morning max el	13844 Jul 22 11:34	17° 9 49'15	24°29'37	morning max el	13845 Jul 04 22:35	1°924'32	23°00'05
	13844 Aug 01 16:29	0 $^{\circ}$ Ω			13845 Jul 26 14:18	0 $^{\circ}$ Ω	
	13844 Aug 21 17:05	0° m y		morning set	13845 Aug 08 06:23	19° Ω 57'50	
morning set	13844 Aug 27 02:45	9° ™ 10'11		max. Earth dist.	13845 Aug 12 15:48	27° Ω 21'35	1.40037 AU
max. Earth dist.	13844 Aug 30 17:10	15° m 33'33	1.37678 AU		13845 Aug 14 04:31	0° ™	
superior conj	13844 Sep 06 18:45	28° Mp 46'34	-0°23'13	superior conj	13845 Aug 20 10:50	11° m) 10'18	-0°58'23
minimum elong	13844 Sep 06 20:19	28° m 54'08	0°23'02	minimum elong	13845 Aug 20 15:12	11° M y30'17	0°58'07
	13844 Sep 07 09:55	0∘ ত		asc. node	13845 Aug 27 03:58	23° m 44'39	
asc. node	13844 Sep 09 07:25	3° ₽ 42'25		evening rise	13845 Aug 30 03:11	29° m 24'57	
evening rise	13844 Sep 15 08:30	15° ≏ 44'31			13845 Aug 30 10:31	0∘ ত	
	13844 Sep 22 19:32	0° M .		evening max el	13845 Sep 15 02:55	25° ≙ 14'56	18°31'25
evening max el	13844 Oct 02 01:01	13°ML06'48	19°16'00	retrograde	13845 Sep 23 00:33	29° ₽ 14'29	
retrograde	13844 Oct 11 07:36	17°M45'36		evening set	13845 Sep 24 23:57	29° ♀ 00'17	
desc. node	13844 Oct 12 03:09	17° M 43'35		desc. node	13845 Sep 29 00:38	27° ₽ 13'51	
evening set	13844 Oct 13 04:17	17° M _35'10		inferior conj	13845 Oct 02 20:19	24° ≙ 30'01	-1°12'47
inferior conj	13844 Oct 21 17:42	13°M24'59	-3°00'22	minimum elong	13845 Oct 02 17:26	24° £ 35'37	
minimum elong	13844 Oct 21 10:03	13° M 37'41	2°56'53	min. Earth dist.	13845 Oct 06 01:36	22° ₽ 00'57	0.57645 AU
min. Earth dist.	13844 Oct 24 08:55	11°ML40'25	0.55843 AU	morning rise	13845 Oct 10 07:26	19° ≙ 19'07	
morning rise	13844 Oct 29 13:24	8°M51'59		direct	13845 Oct 16 09:21	17° ≏ 45'35	
direct	13844 Nov 03 23:22	7°ML45'03		morning max el	13845 Oct 30 16:34	25° ♀ 17'36	26°57'40
morning max el	13844 Nov 18 00:29	14°M51'29	25°33'38	morning man er	13845 Nov 04 01:50	0°M	20 07 10
morning man er	13844 Nov 30 01:39	0° ∡ 7	20 33 30	asc. node	13845 Nov 23 05:42	29°M49'46	
asc. node	13844 Dec 06 08:48	10° × 35'43		use. Houe	13845 Nov 23 07:50	0°×7'	
morning set	13844 Dec 15 05:42	28° × 19'44		morning set	13845 Nov 29 15:13	12° х 51'05	
morning set	13844 Dec 16 00:17	0° る		morning set	13043 1(0) 27 13.13	12 × 31 03	
	13044 Dec 10 00.17	0 0		superior conj	13845 Dec 06 11:25	27° ∡ ¹55'15	1°35'19
superior conj	13844 Dec 22 00:01	13° る 12'35	1°38'05	minimum elong	13845 Dec 06 10:24	27° × 49'39	1°36'19
minimum elong	13844 Dec 22 00:03	13° る 12'42	1°39'09	max. Earth dist.	13845 Dec 06 17:42	28° ∡ 30'25	1.31246 AU
max. Earth dist.	13844 Dec 23 10:07	16° る 20'49	1.31804 AU	max. Earth dist.	13845 Dec 07 09:45	0°る	1.512 10 110
evening rise	13844 Dec 29 03:19	28°る37'04	1.51001110	evening rise	13845 Dec 13 07:18	0 3 12° る 55'10	
evening rise	13844 Dec 29 19:23	20° ≈		evening rise	13845 Dec 21 21:47	0° ≈	
desc. node	13845 Jan 08 01:29	0 ~ 17° ≈ 40'01		desc. node	13845 Dec 25 22:19	0 ~ 7° ≈ 03'53	
desc. flode	13845 Jan 15 14:27	0°)		desc. node	13846 Jan 11 20:28	0° ∺	
evening max el	13845 Jan 30 17:14	18° ¥ 55′20	27021150	evening max el	13846 Jan 12 21:58	1° ∺ 02'04	27002144
•	13845 Feb 13 14:44	26° ¥ 17'31	27 31 39	•	13846 Jan 26 21:18	8° ¥ 15'49	27 02 44
retrograde	13845 Feb 20 12:24	24°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\		retrograde	13846 Feb 02 15:02	6° ∺ 18'22	
evening set			0.62129 ATT	evening set			0.50055 ATT
min. Earth dist.	13845 Feb 24 06:31	21°) 02'21	0.62138 AU	min. Earth dist.	13846 Feb 06 12:14	3°) € 37′23	0.59955 AU
inferior conj	13845 Feb 27 06:18	18°) 14′23		inferior conj	13846 Feb 09 16:52	1°) €00'29	
minimum elong	13845 Feb 27 09:40	18° ¥ 06′28	1°35'56	minimum elong	13846 Feb 09 23:25	0°) 47′01	2°5/34
asc. node	13845 Mar 04 06:24	14°) 10′15			13846 Feb 10 22:42	30°R≈	
morning rise	13845 Mar 06 09:45	13° 米 09'51		morning rise	13846 Feb 17 11:01	26°≈16'05	
direct	13845 Mar 08 15:16	12°) 47'30	17047140	asc. node	13846 Feb 19 03:52	26°≈00'25	
morning max el	13845 Mar 15 08:58	16°) 12′13	17°47'40	direct	13846 Feb 19 12:11	25°≈59'57	1000 400
	13845 Mar 25 02:54	0° Υ		morning max el	13846 Feb 26 23:07	29° ≈ 42'48	18°04'23
morning set	13845 Mar 31 05:08	10° ℃ 38'51		_	13846 Feb 27 06:01	0°) {	
desc. node	13845 Apr 06 03:36	21° Y ′05'34		morning set	13846 Mar 14 13:10	24°) 19'42	
	13845 Apr 11 08:21	$_{0}$ 8			13846 Mar 17 14:27	0°Υ	
	12045 4 11 15 15	00130	00.404.41	desc. node	13846 Mar 24 00:06	11° Ƴ 39'22	
superior conj	13845 Apr 11 16:40	0° 8 35'00			1204634 21 12 12	100000	000 402
minimum elong	13845 Apr 11 12:33	0° 8 17'42		superior conj	13846 Mar 24 12:12	12° Y 33'10	
max. Earth dist.	13845 Apr 18 14:49	11° 8 59'31	1.43856 AU	minimum elong	13846 Mar 24 11:52	12° Ƴ 31'40	0°04'08

behind sun begin	13846 Mar 24 04:18	11° Y ′58'03			13847 Mar 09 14:57	0° Ƴ	
behind sun end	13846 Mar 24 19:26	13° Y 05'12		desc. node	13847 Mar 10 20:36	2° Υ 15'04	
max. Earth dist.	13846 Apr 01 02:49	25° Υ 39'15	1.42006 AU	max. Earth dist.	13847 Mar 14 10:23	8° Υ 36'55	1.39834 AU
max. Earm dist.	•	0° 8	1.42000 AU	evening rise	13847 Mar 18 11:20	8 1 30 33 15° Υ 32'30	1.39834 AU
	13846 Apr 03 17:55	4° と 16'32		evening rise		0° 8	
evening rise	13846 Apr 06 09:17	4° O 10′32 0° I I			13847 Mar 27 10:35	0°II	
	13846 Apr 23 09:53	0°Щ 20°Щ34'35	22020120		13847 Apr 18 04:39	0°Щ 4°Щ26'42	22850150
evening max el	13846 May 09 17:12	20°Щ34'33 26°Щ14'16	22°38'39	evening max el	13847 Apr 22 07:30	4° Д 2642 10° Д 58'37	23-39-30
asc. node	13846 May 18 00:30	26° I I26'50		retrograde	13847 May 03 10:28	10° Ц 38'37 10° Ц 48'57	
retrograde	13846 May 19 16:25			asc. node	13847 May 04 21:47		
evening set	13846 May 24 13:26	24° Ⅱ 24'09	205.4155	evening set	13847 May 08 19:02	8° Ⅱ 42'51	0.60677.411
inferior conj	13846 May 29 20:46	18° Ⅱ 01'22 18° Ⅱ 06'41	2°54'55	min. Earth dist.	13847 May 13 11:16	3° Ⅱ 17'02	0.68677 AU
minimum elong	13846 May 29 19:14		2°53'40	inferior conj	13847 May 14 05:47	2° Ⅱ 14'04 2° Ⅱ 21'01	2°30'59
min. Earth dist.	13846 May 29 14:50	18° Ⅱ 21'59	0.68954 AU	minimum elong	13847 May 14 03:44		2°29'39
morning rise	13846 Jun 04 00:55	11° Ⅲ 50'47 9° Ⅲ 57'12			13847 May 15 22:00	30°R 8	
direct	13846 Jun 08 14:29		21022144	morning rise	13847 May 19 12:28	26° 8 11'18	
morning max el	13846 Jun 17 12:58	15° Ⅱ 08'41	21°33'44	direct	13847 May 23 13:39	24° 8 38'14	20017111
desc. node	13846 Jun 20 01:18	17° Ⅱ 50'01		morning max el	13847 May 31 09:29	29° 8 03'12	20°17'11
	13846 Jun 29 12:35	0.20 0.20			13847 Jun 01 07:43	0°II	
morning set	13846 Jul 19 09:11	29° © 40'55		desc. node	13847 Jun 06 22:18	6° Ⅱ 43'46	
F 4 F	13846 Jul 19 14:00	0°N	1 40055 4 4 4		13847 Jun 23 01:33	0₀æ	
max. Earth dist.	13846 Jul 25 18:47	10° Ω 00'26	1.42257 AU	morning set	13847 Jun 28 15:35	8°931'55	
		0		max. Earth dist.	13847 Jul 08 04:21	23° © 29'11	1.44088 AU
superior conj	13846 Aug 02 07:23	22° Ω 42'05			13847 Jul 12 05:16	0 $^{\circ}$ Ω	
minimum elong	13846 Aug 02 14:14	23° Ω 11'44	1°32'18		12047 7 1 14 04 42	20 012155	1050144
	13846 Aug 06 11:15	0° Mp		superior conj	13847 Jul 14 04:42	3° Ω 13'57	
evening rise	13846 Aug 13 09:56	12° Tp 32'29		minimum elong	13847 Jul 14 11:27	3° Ω 41'43	2°00'12
asc. node	13846 Aug 14 00:33	13° ™ 39'00 0° ₽		evening rise	13847 Jul 26 23:50	24° Ω 53'59	
	13846 Aug 23 09:52	8° 亞 01'36	18°07'39	asc. node	13847 Jul 29 22:33 13847 Jul 31 21:11	0° Mp 3° Mp 20'30	
evening max el retrograde	13846 Aug 29 12:54 13846 Sep 05 11:50	8 = 01 30 11° £ 34'44	16 0/39	evening max el	13847 Aug 13 02:49	21° m) 15'34	18°03'15
evening set	13846 Sep 07 18:15	11 ⊆ 34 44 11° ⊆ 12'29		retrograde	13847 Aug 13 02.49 13847 Aug 19 13:43	21° m) 36'32	16 03 13
inferior conj	13846 Sep 14 20:25	6° £ 21'44	0°19'51	evening set	13847 Aug 19 13:43	24° m) 02'40	
minimum elong	13846 Sep 14 21:04	6° £ 20'16	0°19'37	inferior conj	13847 Aug 28 14:45	18° m) 52'54	1°30'44
desc. node	13846 Sep 15 22:10	5° £ 23'13	0 1737	minimum elong	13847 Aug 28 17:00	18° m) 47'05	1°29'41
min. Earth dist.	13846 Sep 18 02:37	3° <u>₽</u> 26'20	0.59846 AU	min. Earth dist.	13847 Aug 31 12:52	15° m) 53'07	0.62138 AU
morning rise	13846 Sep 21 20:36	ე° ჲ 38'14	0.000.0110	desc. node	13847 Sep 02 19:43	13° m) 47'36	0.02150110
	13846 Sep 22 23:53	30°R, M)		morning rise	13847 Sep 04 03:12	12° m 46'53	
direct	13846 Sep 28 08:59	28° m) 37'34		direct	13847 Sep 10 19:34	10° m/24'15	
	13846 Oct 04 00:08	0∘ <u>⊽</u>		morning max el	13847 Sep 24 22:27	18° m) 24'04	27°57'37
morning max el	13846 Oct 12 16:24	6° ≏ 28'00	27°47'07	, and the second	13847 Oct 04 16:59	0∘ <u>⊽</u>	
Č	13846 Oct 30 09:07	0° M .			13847 Oct 23 05:28	0° M ₊	
asc. node	13846 Nov 10 02:32	19°M25'31		asc. node	13847 Oct 27 23:15	9°M16'06	
morning set	13846 Nov 13 20:55	27°ML08'08		morning set	13847 Oct 28 20:42	11°ML05'18	
	13846 Nov 15 05:19	0° ∡ ¹		max. Earth dist.	13847 Nov 03 06:22	22°MJ31'19	1.31721 AU
max. Earth dist.	13846 Nov 20 01:43	10° ∡ ³37′01	1.31215 AU				
				superior conj	13847 Nov 05 08:18	27°ML04'34	1°12'20
superior conj	13846 Nov 20 22:48	12° ∡ ³34′28	1°26'42	minimum elong	13847 Nov 05 06:03	26°ML52'11	1°12'49
minimum elong	13846 Nov 20 21:00	12° ∡ °24′23	1°27'29		13847 Nov 06 16:06	0° ∡ ¹	
evening rise	13846 Nov 27 15:35	27° ∡ ¹22'42		evening rise	13847 Nov 12 02:12	11° ≯ 754′21	
	13846 Nov 28 21:01	0°ಕ			13847 Nov 21 02:43	0°ಕ	
desc. node	13846 Dec 12 19:16	25° る 50'02		desc. node	13847 Nov 29 16:22	13° る 44'09	
	13846 Dec 15 13:51	0° ≈		evening max el	13847 Dec 07 08:14	22° る 43'45	24°29'03
evening max el	13846 Dec 25 19:01	12° ≈ 16′52	25°59'24	retrograde	13847 Dec 21 01:03	29° る 33'35	
retrograde	13847 Jan 08 17:31	19° ≈ 20′09		evening set	13847 Dec 26 06:47	28° පි 33'15	
evening set	13847 Jan 14 22:27	17° ≈ 49'27		min. Earth dist.	13847 Dec 31 19:58	25° ප් 43'07	0.56019 AU
min. Earth dist.	13847 Jan 19 08:06	15°≈12'24	0.57825 AU	inferior conj	13848 Jan 03 03:41	24°る16'29	
inferior conj	13847 Jan 22 08:40	13°≈03'25		minimum elong	13848 Jan 03 10:52		5°28'42
minimum elong	13847 Jan 22 17:29	12° ≈ 47'43	4°20'25	morning rise	13848 Jan 11 16:57	20° る 14'19	
morning rise	13847 Jan 30 15:25	8°≈40'44		direct	13848 Jan 14 02:16	19°る59'03	
direct	13847 Feb 01 16:46	8°≈27'10		asc. node	13848 Jan 23 22:39	24° る 40'29	100/1102
asc. node	13847 Feb 06 01:17	9°≈31'52	10041120	morning max el	13848 Jan 24 01:44	24°₹47′52	19°41'03
morning max el	13847 Feb 10 06:05	12° ≈ 38'33 0° 升	18°41'30	morning set	13848 Jan 28 12:30 13848 Feb 10 12:40	0° ≈ 23° ≈ 03'27	
morning set	13847 Feb 21 21:44 13847 Feb 26 08:57	8° ∺ 31'36		morning set	13848 Feb 10 12:40 13848 Feb 13 22:56	23°≈03°27 0° ∺	
morning set	1304/1700 20 08.3/	o V2130			13040 150 13 22.30	υ Λ	
superior conj	13847 Mar 07 03:50	25° ¥ 25'58	0°29'43	superior conj	13848 Feb 18 10:58	9° ₩ 00'53	0°56'49
minimum elong	13847 Mar 07 05:44	25°\(\frac{7}{25}\)34'55	0°29'35	minimum elong	13848 Feb 18 13:41	9° H 14'13	0°56'54
	-50., mai 0, 05.44	20 /(3+33	3 = 2 3 3 3	ciong	-50.0100 10 15.41	, MITIS	3 2301

may Forth dist	12949 Fab. 24. 16:50	20°) € 57'36	1.37577 AU		12940 Eab 04 15:06	0°) {	
max. Earth dist. desc. node	13848 Feb 24 16:50 13848 Feb 25 17:07	20 X 37 36 22° X 49'19	1.3/3// AU	max. Earth dist.	13849 Feb 04 15:06 13849 Feb 06 02:24	0 X 2° ¥ 54'43	1.35466 AU
evening rise	13848 Feb 28 10:00	27°) (4919		evening rise	13849 Feb 10 02:07	2 X 34 43 10° X 33'07	1.33400 AU
evening rise	13848 Feb 29 17:31	27 χ(41 24 0° Υ		desc. node	13849 Feb 11 13:40	10 X 33 07 13° X 17'33	
	13848 Mar 19 20:42	0°8		dese. Hode	13849 Feb 21 06:55	0° Υ	
evening max el	13848 Apr 03 21:09	18° 8 20'35	25°17'05		13849 Mar 15 07:54	0°8	
retrograde	13848 Apr 16 00:17	25° 8 22'15	23 17 03	evening max el	13849 Mar 17 10:52	2° 8 09'43	26°23'15
asc. node	13848 Apr 20 19:09	23° 8 45'14		retrograde	13849 Mar 30 08:58	9° 8 29'55	20 23 13
evening set	13848 Apr 21 20:26	22° 8 56'29		evening set	13849 Apr 05 15:51	6° 8 58'20	
min. Earth dist.	13848 Apr 26 05:12	18° 8 06'46	0.67949 AU	asc. node	13849 Apr 07 16:35	5° 8 04'24	
inferior conj	13848 Apr 27 12:14	16° 8 25'52	1°56'44	min. Earth dist.	13849 Apr 09 18:26	2° 8 43'43	0.66787 AU
minimum elong	13848 Apr 27 10:06	16° 8 32'49	1°55'24	inferior conj	13849 Apr 11 14:02	0° 8 31'07	1°11'35
morning rise	13848 May 03 00:09	10° 8 32'18	1 33 2 1	minimum elong	13849 Apr 11 12:23	0° 8 36'10	
direct	13848 May 06 13:40	9° 8 19'20		mannam trong	13849 Apr 12 00:17	30°R Y	1 1000
morning max el	13848 May 13 13:35	13° 8 08'50	19°14'43	morning rise	13849 Apr 17 09:50	24° Υ '48'25	
desc. node	13848 May 23 19:11	26° 8 12'03	1, 1	direct	13849 Apr 20 12:38	23° Y '53'45	
acse. noue	13848 May 26 09:14	0°II		morning max el	13849 Apr 27 00:35	27° Υ 21'01	18°28'21
greatest brilliancy	13848 May 26 09:25	0° П 00'40	-0.7m		13849 Apr 29 11:02	0°8	
morning set	13848 Jun 06 18:41	17° Ⅲ 20′05	*****	desc. node	13849 May 10 15:58	16° 8 04'59	
morning sec	13848 Jun 14 22:59	0.ತ		morning set	13849 May 17 15:21	27° 8 03'02	
max. Earth dist.	13848 Jun 19 20:13	7° © 38'16	1.45330 AU	morning sec	13849 May 19 12:14	0°II	
		,				-	
superior conj	13848 Jun 23 03:19	12° © 50'12	-2°13'12	superior conj	13849 Jun 02 12:12	21° II 56'09	-2°07'12
minimum elong	13848 Jun 23 05:00	12°956'51	2°14'14	minimum elong	13849 Jun 02 06:14	21° Ⅱ 32'54	
	13848 Jul 03 19:33	$0^{\circ}\Omega$		max. Earth dist.	13849 Jun 02 15:45	22° I I10'03	1.45856 AU
evening rise	13848 Jul 07 15:51	6°Ω18'27			13849 Jun 07 16:07	0°©	
asc. node	13848 Jul 17 17:55	22°Ω44'06		evening rise	13849 Jun 18 07:13	16°9541'31	
	13848 Jul 22 16:06	0° m)		<i>8</i>	13849 Jun 26 18:16	$0^{\circ}\Omega$	
evening max el	13848 Jul 26 17:06	4° m) 47'49	18°17'09	greatest brilliancy	13849 Jun 27 05:03	0° Ω 41'54	-0.8m
retrograde	13848 Aug 02 01:52	8° mp 10'42		asc. node	13849 Jul 04 14:43	11° Ω 43'00	
evening set	13848 Aug 05 01:07	7° m) 22'32		evening max el	13849 Jul 10 04:46		18°48'37
inferior conj	13848 Aug 10 23:16	1° mp 55'47	2°20'25	retrograde	13849 Jul 16 20:28	22° Ω 08'51	
minimum elong	13848 Aug 11 01:42	1° mp 48'48	2°19'12	evening set	13849 Jul 20 04:35	21° Ω 04'46	
Z .	13848 Aug 12 15:23	30°RΩ		inferior conj	13849 Jul 25 18:12	15° Ω 22'56	2°51'52
min. Earth dist.	13848 Aug 13 08:38	29°Ω11'18	0.64273 AU	minimum elong	13849 Jul 25 19:59	15° Ω 17'17	
morning rise	13848 Aug 17 00:46	25° Ω 36'50		min. Earth dist.	13849 Jul 27 13:12	13° Ω 08'22	0.66085 AU
desc. node	13848 Aug 19 17:15	23° Ω 54'41		morning rise	13849 Jul 31 10:34	8° Ω 58'40	
direct	13848 Aug 23 14:56	23° Ω 00′55		direct	13849 Aug 06 17:53	6° Ω 18'57	
	13848 Sep 05 08:01	0° m		desc. node	13849 Aug 06 14:43	6° Ω 19'00	
morning max el	13848 Sep 06 08:22	0° m 59'48	27°31'38	morning max el	13849 Aug 19 19:42	14° Ω 04'19	26°35'54
C	13848 Sep 27 19:53	0∘ ⊽		C	13849 Sep 01 18:40	0° m	
morning set	13848 Oct 11 12:07	24° Ω 36'49			13849 Sep 20 13:15	0∘ ⊽	
asc. node	13848 Oct 13 19:54	29° ₽ 16'31		morning set	13849 Sep 24 16:07	7° ₽ 35'29	
	13848 Oct 14 04:26	0° M ₊		max. Earth dist.	13849 Sep 28 16:23	15° ≏ 21'25	1.34338 AU
max. Earth dist.	13848 Oct 16 04:10	4°M06'36	1.32769 AU	asc. node	13849 Sep 30 16:30	19° ≏ 22'25	
superior conj	13848 Oct 19 13:51	11° M 19'53	0°52'15	superior conj	13849 Oct 03 13:05	25° ≙ 14'15	0°26'40
minimum elong	13848 Oct 19 11:41	11° M 08'14	0°52'29	minimum elong	13849 Oct 03 11:42	25° ≏ 07'02	0°26'45
evening rise	13848 Oct 26 13:17	26° M $25'$ 17			13849 Oct 05 19:42	0° M	
	13848 Oct 28 05:48	0° ∡ ¹		evening rise	13849 Oct 10 22:54	10°M50'21	
	13848 Nov 15 04:04	5°0			13849 Oct 20 20:37	0° ∡ 7	
desc. node	13848 Nov 15 13:34	0° る 26'52		evening max el	13849 Oct 30 10:24	12° ∡ 56'46	21°10'19
evening max el	13848 Nov 17 18:11	2° る 44'28	22°46'43	desc. node	13849 Nov 02 10:52	15° ∡ ³33'46	
retrograde	13848 Nov 30 19:31	9° る 13'09		retrograde	13849 Nov 11 06:42	18° ∡ ⁴49'52	
evening set	13848 Dec 04 17:22	8° る 39'50		evening set	13849 Nov 13 21:56	18° ∡ ³33'35	
min. Earth dist.	13848 Dec 12 02:46	5° る 17'46		inferior conj	13849 Nov 22 19:37	14° ∡ ¹40'19	-5°26'05
inferior conj	13848 Dec 13 04:08	4° ප 41'45		minimum elong	13849 Nov 22 11:14	14° ₹ ′52'09	
minimum elong	13848 Dec 13 03:52	4° る 42'08	5°56'46	min. Earth dist.	13849 Nov 23 08:39	14° ∡ ¹21'54	0.54496 AU
morning rise	13848 Dec 21 15:43	0° る 53'30		morning rise	13849 Dec 01 01:04	10° ∡ ¹49'36	
direct	13848 Dec 24 18:10	0° る 31'19		direct	13849 Dec 05 01:37	10° ∡ 14'50	
morning max el	13849 Jan 05 07:00		21°03'43	morning max el	13849 Dec 17 23:11	16° ∡ ¹27'54	22°45'27
asc. node	13849 Jan 09 19:57	11° る 10'16		asc. node	13849 Dec 27 17:08	28° ∡ ¹44'04	
	13849 Jan 21 01:44	0° ≈			13849 Dec 28 12:18	5°0	
morning set	13849 Jan 24 21:15	7° ≈ 45'36		morning set	13850 Jan 09 08:27	22° る 31'37	
					13850 Jan 12 20:03	0° ≈	
superior conj	13849 Feb 01 05:24	23° ≈ 05′20	1°16'55				
minimum elong	13849 Feb 01 07:53	23° ≈ 18′11	1°17'21	superior conj	13850 Jan 16 07:45	7° ≈ 30'10	1°30'11

	12050 1 16 00 20	5 0 20115	1020150		12050 D 14 14 12	150 305140	
minimum elong	13850 Jan 16 09:28	7°≈39'15		asc. node	13850 Dec 14 14:12	17° ∡ 05'49	
max. Earth dist.	13850 Jan 19 18:32	14°≈46'08	1.33689 AU	. ,	13850 Dec 21 09:19	0°る	
evening rise	13850 Jan 24 08:11	23°≈59'06 0° 米		morning set	13850 Dec 24 20:21	7° る 15'25	
44-	13850 Jan 27 11:32	0° X 3° ¥ 35'43			12050 D 21 15:20	220/152	1°37'00
desc. node	13850 Jan 29 10:16 13850 Feb 14 20:57	3°π35'43 0°Υ		superior conj minimum elong	13850 Dec 31 15:20 13850 Dec 31 15:59	22°る06'53 22°る10'28	1°37′00 1°37′59
evening max el	13850 Feb 14 20.37 13850 Feb 28 00:18	0 1 15° Υ 45'14	27010/50	max. Earth dist.	13850 Dec 31 13.39 13851 Jan 02 18:10	22 3 1028 26° 3 43'52	1.32349 AU
retrograde	13850 Mar 13 11:45	23°Υ13'22	27 10 38	max. Earm dist.	13851 Jan 04 06:41	20° ≈	1.32349 AU
evening set	13850 Mar 20 03:19	23 γ 13 22 20° Υ 41'43		evening rise	13851 Jan 08 00:53	0 ∞ 7°≈50'48	
min. Earth dist.	13850 Mar 24 00:57	17° Υ 00'03	0.65225 AU	desc. node	13851 Jan 16 06:57	23°≈38'22	
asc. node	13850 Mar 25 14:02	15° Υ 17'00	0.03223 AC	dese. Hode	13851 Jan 19 23:05	0° ₩	
inferior conj	13850 Mar 26 08:48	14° Υ 24'16	0°14'56	evening max el	13851 Feb 10 12:19	28° ¥ 56'31	27°33'13
minimum elong	13850 Mar 26 08:23	14° Υ 25'26	0°14'37	evening max or	13851 Feb 11 15:38	0°Υ	27 33 13
transit middle	13850 Mar 26 08:23	14° Υ 25'26	0°14'37	retrograde	13851 Feb 24 07:48	6° Υ 23'18	
transit begin	13850 Mar 26 07:09	14° Y 28'53	0 1.57	evening set	13851 Mar 03 04:28	3° Y ′58'54	
transit end	13850 Mar 26 09:37	14° Υ 21'59		min. Earth dist.	13851 Mar 06 23:00	0° Y 46′15	0.63330 AU
morning rise	13850 Apr 01 15:08	8° Υ ′54'26			13851 Mar 07 17:46	30°R) €	
direct	13850 Apr 04 08:20	8° Υ 15'12		inferior conj	13851 Mar 09 17:45	27° ¥ 58'40	-0°53'24
morning max el	13850 Apr 10 16:21	11° Y 32'50	17°58'49	minimum elong	13851 Mar 09 19:29	27°) 54'18	0°52'33
C	13850 Apr 23 16:52	0°B		asc. node	13851 Mar 12 11:31	25°) 21'44	
desc. node	13850 Apr 27 12:37	6° 8 15'41		morning rise	13851 Mar 16 12:59	22°) 44'03	
morning set	13850 Apr 28 15:48	8° 8 07'17		direct	13851 Mar 18 22:06	22° ¥ 16'41	
•	13850 May 12 04:41	$\Pi^{\circ}0$		morning max el	13851 Mar 25 10:05	25° ¥ 36′07	17°46'34
					13851 Mar 29 03:41	0° Y	
superior conj	13850 May 13 00:16	1° Ⅱ 17'32	-1°42'18	morning set	13851 Apr 10 18:35	20° Ƴ 27'06	
minimum elong	13850 May 12 15:11	0° Ⅱ 41'38	1°42'17	desc. node	13851 Apr 14 09:13	26° Y 38'53	
max. Earth dist.	13850 May 16 11:47	6° Ⅱ 46′09	1.45627 AU		13851 Apr 16 08:28	$0^{\circ}B$	
evening rise	13850 May 29 01:55	26° Ⅱ 17'08					
	13850 May 31 11:59	0ංම		superior conj	13851 Apr 23 06:31	11° 8 32'20	-1°05'40
greatest brilliancy	13850 Jun 11 18:53	17° © 03'05	-0.7m	minimum elong	13851 Apr 22 23:58	11° 8 05'28	1°05'23
asc. node	13850 Jun 21 11:36	0° Ω 08'34		max. Earth dist.	13851 Apr 29 06:01	21° 8 11'27	1.44681 AU
	13850 Jun 21 08:38	$0 {\circ} \Omega$			13851 May 04 20:28	Π °0	
evening max el	13850 Jun 23 11:42	2° Ω 18'14	19°36'37	evening rise	13851 May 08 12:56	5° Ⅱ 41'31	
retrograde	13850 Jun 30 18:24	6° Ω 24'12			13851 May 24 20:55	0 \circ 50	
evening set	13850 Jul 04 11:55	5° Ω 03'21		evening max el	13851 Jun 06 12:56	16° © 08'05	20°39'12
	13850 Jul 09 04:39	30° ₹ 5		asc. node	13851 Jun 08 08:37	17° © 49'55	
inferior conj	13850 Jul 09 20:20	29°508'02		retrograde	13851 Jun 14 17:23	20°951'28	
minimum elong	13850 Jul 09 21:10		3°07'07	evening set	13851 Jun 18 21:01	19°5513'46	2011110
min. Earth dist.	13850 Jul 11 00:59		0.67491 AU	inferior conj	13851 Jun 24 03:07	13°506'28	
morning rise direct	13850 Jul 15 05:57	22°543'53		minimum elong min. Earth dist.	13851 Jun 24 02:56	13°507'05	3°10'38
	13850 Jul 21 03:20	20°909'05			13851 Jun 24 17:55 13851 Jun 29 08:34	12°5015'24	0.68439 AU
desc. node morning max el	13850 Jul 24 12:07 13850 Aug 02 06:31	20°951'24 27°925'28	25°19'13	morning rise direct	13851 Jul 29 08:34 13851 Jul 04 18:13	6° © 46'02 4° © 23'29	
morning max er	13850 Aug 02 00.31 13850 Aug 04 16:35	0°Ω	23 1913	desc. node	13851 Jul 11 09:24	7°506'48	
	13850 Aug 04 10:33	0° m)		morning max el	13851 Jul 15 16:48	10°956'07	23°51'34
morning set	13850 Sep 07 04:48	19° m y 51'21		morning max cr	13851 Jul 30 21:16	0°Ω	23 31 34
max. Earth dist.	13850 Sep 10 18:58	26° Mp 26'01	1.36362 AU		13851 Aug 19 04:14	0° m)	
man. Barur dige.	13850 Sep 12 16:20	0° ⊽	1.50502110	morning set	13851 Aug 19 21:44	1° Mp 14'18	
				max. Earth dist.	13851 Aug 23 16:43	7° m 48'37	1.38679 AU
superior conj	13850 Sep 17 03:04	8° £ 39'49	-0°03'53		Ü	•	
minimum elong	13850 Sep 17 03:18	8° ≙ 40'58	0°03'47	superior conj	13851 Aug 31 04:22	21° m 29'08	-0°38'00
behind sun begin	13850 Sep 16 21:05	8° ≙ 10'04		minimum elong	13851 Aug 31 07:04	21° m/41'55	
behind sun end	13850 Sep 17 09:31	9° £ 11'55		asc. node	13851 Sep 04 09:34	29° m/34'26	
asc. node	13850 Sep 17 13:01	9° ₽ 29'22			13851 Sep 04 14:50	0∘ ⊽	
evening rise	13850 Sep 25 04:51	25° ≙ 03'00		evening rise	13851 Sep 09 04:33	8° ≏ 57'23	
	13850 Sep 27 15:42	0°M₊			13851 Sep 20 23:35	0° M	
evening max el	13850 Oct 12 15:59	23°M49'35	19°51'34	evening max el	13851 Sep 25 11:29	5°M31'55	18°54'26
desc. node	13850 Oct 20 08:16	28° MJ $37'00$		retrograde	13851 Oct 04 02:48	9°M52'10	
retrograde	13850 Oct 22 21:22	28°M55'27		evening set	13851 Oct 05 23:52	9° ™ 40'40	
evening set	13850 Oct 24 20:15	28°M45'08		desc. node	13851 Oct 07 05:42	9° ™ 21'05	
inferior conj	13850 Nov 02 16:28	24°M44'28	-4°01'41	inferior conj	13851 Oct 14 06:35	5° ™ 22'41	-2°13'49
minimum elong	13850 Nov 02 06:46	24°M59'20	3°57'48	minimum elong	13851 Oct 14 00:57		2°11'05
min. Earth dist.	13850 Nov 04 16:57	23°M30'02	0.55099 AU	min. Earth dist.	13851 Oct 17 05:50	3° M 17′11	0.56545 AU
morning rise	13850 Nov 10 15:49	20°M30'44		morning rise	13851 Oct 21 22:57	0° ™ 33'31	
direct	13850 Nov 15 14:23	19° M ₊37'04			13851 Oct 23 09:02	30° ₹ Ω	
morning max el	13850 Nov 29 08:58	26°M27'01	24°34'33	direct	13851 Oct 27 16:35	29° ≏ 15'16	
	13850 Dec 02 18:33	0° ∡ ¹			13851 Nov 01 00:46	0° M ₊	

	12051 N 10 20-52	60 m 22144	26912152		12052 N 02 05:20	00 m	
morning max el	13851 Nov 10 20:53	6°M33'44	26°12'52	1	13852 Nov 02 05:28	0°M	
1-	13851 Nov 28 02:28	0° द्र ⁷ 6° द्र ⁷ 03'21		asc. node	13852 Nov 17 08:02	25°M27'26 0° <i>₹</i> 7	
asc. node	13851 Dec 01 11:10				13852 Nov 19 14:43	0° x ¹ 6° x ¹17'56	
morning set	13851 Dec 09 07:13	21° ₹ 52'15		morning set	13852 Nov 22 15:22	0°×17/30	
	13851 Dec 13 00:25	0°ප			12052 N 20, 12-22	21° х 30'35	1922/22
aumariar aani	12051 Dag 16 01:54	6° る 48'50	1°37'39	superior conj	13852 Nov 29 13:32	21° x '30'33	1°32'22 1°33'18
superior conj	13851 Dec 16 01:54 13851 Dec 16 01:28		1°38'41	minimum elong max. Earth dist.	13852 Nov 29 12:09 13852 Nov 29 08:08	21 x · 22 33 21° x · 00'26	1.31170 AU
minimum elong max. Earth dist.	13851 Dec 16 01.28	8°る50'25	1.31503 AU	max. Earm dist.	13852 Nov 29 08.08 13852 Dec 03 09:00	21 x・00 26 0°る	1.311/0 AU
		8 03023 22° る 01'05	1.51505 AU			6°る24'07	
evening rise	13851 Dec 23 01:29 13851 Dec 26 23:23	0°≈		evening rise	13852 Dec 06 07:35 13852 Dec 18 13:05	0°≈	
daga mada		0 ≈ 13°≈18'39		desc. node	13852 Dec 18 13.03 13852 Dec 20 00:37	0 ≈ 2°≈28'00	
desc. node	13852 Jan 03 03:44	0° ∺					26°39'51
	13852 Jan 13 23:03	11° ∺ 30'57	27022157	evening max el	13853 Jan 04 22:41	23°≈17'01 0°) €	20-39-31
evening max el	13852 Jan 23 20:42	11° ★ 30'57	21-2331	ratra arada	13853 Jan 15 16:01	0° ∺ 25'36	
retrograde	13852 Feb 06 19:39	18° X 49′32 16° X 40′40		retrograde	13853 Jan 18 21:45		
evening set	13852 Feb 13 16:19	13° ¥ 50'40	0.61211 AU		13853 Jan 22 02:30	30°R≈	
min. Earth dist.	13852 Feb 17 11:06			evening set	13853 Jan 25 11:18	28°≈39'03	0.50027.411
inferior conj	13852 Feb 20 13:34	11° 米 05'32 10° 米 55'03		min. Earth dist.	13853 Jan 29 12:31 13853 Feb 01 16:38	26°≈01'37	0.59027 AU
minimum elong	13852 Feb 20 18:17		2°09'51	inferior conj		23°≈34'55	
asc. node	13852 Feb 27 09:00	6°) €20'55		minimum elong	13853 Feb 02 00:24	23°≈19'54	3°33'13
morning rise	13852 Feb 27 23:17	6° ₩ 08'57		morning rise	13853 Feb 09 16:34	18°≈59'23	
direct	13852 Mar 01 02:28	5°) 49'44		direct	13853 Feb 11 17:15	18° ≈ 44'40	
morning max el	13852 Mar 08 02:32	9° ∺ 21'16	17°52'22	asc. node	13853 Feb 13 06:27	18° ≈ 53'37	
	13852 Mar 21 16:05	0° Υ		morning max el	13853 Feb 19 14:07	22° ≈ 38′23	18°17'34
morning set	13852 Mar 23 17:44	3° Ƴ 43'53			13853 Feb 25 08:28	0° ∀	
desc. node	13852 Mar 31 05:44	17° Ƴ 09'51		morning set	13853 Mar 07 07:25	17° ∺ 40'15	
					13853 Mar 13 20:27	0° Y	
superior conj	13852 Apr 03 12:42	22° Y ′53′28					
minimum elong	13852 Apr 03 10:21	22° Y 43′19	0°25'49	superior conj	13853 Mar 16 17:25	5° Y 16'45	0°11'01
	13852 Apr 07 17:18	0 \circ 8		minimum elong	13853 Mar 16 18:14	5° Y 20'26	0°10'53
max. Earth dist.	13852 Apr 10 20:51	5° 8 12'15	1.43125 AU	behind sun begin	13853 Mar 16 12:47	4° Υ 55'41	
evening rise	13852 Apr 17 08:15	15° 8 34'19		behind sun end	13853 Mar 16 23:41	5° Ƴ 45'09	
	13852 Apr 26 18:57	Π \circ 0		desc. node	13853 Mar 18 02:15	7° Ƴ 45'02	
	13852 May 19 09:23	0 \circ \odot		max. Earth dist.	13853 Mar 24 07:25	18° Ƴ 36'58	1.41115 AU
evening max el	13852 May 19 08:39	29° Ⅲ 58'10	21°53'01	evening rise	13853 Mar 28 22:07	26° Ƴ 18′25	
asc. node	13852 May 25 05:46	4° © 31'57			13853 Mar 31 04:52	$_{0\circ}$ 8	
retrograde	13852 May 28 15:28	5° 5 24'36			13853 Apr 20 12:04	$\Pi^{\circ}0$	
evening set	13852 Jun 02 06:01	3° 5 30'37		evening max el	13853 May 02 00:22	13° Ⅱ 49'25	23°13'07
-	13852 Jun 05 11:18	30° Ŗ Ⅱ		retrograde	13853 May 12 11:18	19° Ⅱ 58'44	
inferior conj	13852 Jun 07 12:18	27° Ⅱ 13′03	3°04'01	asc. node	13853 May 12 02:59	19° Ⅱ 58'12	
minimum elong	13852 Jun 07 11:12	27° Ⅱ 16'52	3°02'52	evening set	13853 May 17 13:20	17° Ⅱ 50'02	
min. Earth dist.	13852 Jun 07 13:50	27° II 07'42	0.68910 AU	inferior conj	13853 May 22 21:55	11° Ⅲ 24'25	2°46'00
morning rise	13852 Jun 12 16:11	20° II 58'33		minimum elong	13853 May 22 20:08	11° Ⅱ 30'36	2°44'42
direct	13852 Jun 17 13:13	18° Ⅲ 53'25		min. Earth dist.	13853 May 22 10:36	12° Ⅱ 03'34	0.68904 AU
morning max el	13852 Jun 27 04:41		22°22'26	morning rise	13853 May 28 02:52	5° Ⅱ 17'15	
desc. node	13852 Jun 27 06:35	24° ∏ 38'49		direct	13853 Jun 01 11:10	3° ∏ 32'21	
	13852 Jul 02 01:12	0°ಅ		morning max el	13853 Jun 09 21:26		20°59'37
	13852 Jul 23 07:14	0°N		desc. node	13853 Jun 14 03:41	13° Ⅱ 07'15	_, _,
morning set	13852 Jul 30 14:46	11° Ω 33'44		dese. node	13853 Jun 26 12:33	0°99	
max. Earth dist.	13852 Aug 04 16:39	19° Ω 56'53	1.41022 AU	morning set	13853 Jul 10 07:38	20°950'43	
max. Lattii dist.	13852 Aug 10 12:52	0° m)	1.41022 AU	morning set	13853 Jul 16 02:26	0°Ω	
	13032 Aug 10 12.32	V IIV		max. Earth dist.	13853 Jul 17 02:58	2° Ω 59'49	1.43105 AU
superior conj	13852 Aug 12 12:41	3° mp 31'58	_1°13'15	max. Earth dist.	13033 Jul 17 22.30	2 6637 47	1.43103 AC
minimum elong	13852 Aug 12 12:41 13852 Aug 12 18:15	3° m) 56'47		superior conj	13853 Jul 24 23:38	14° Ω 38'16	10/15/15
asc. node		19° Mg 33'40	1 13 00		13853 Jul 24 25.38 13853 Jul 25 06:56	15°Ω09'10	
	13852 Aug 21 06:08			minimum elong			1 43 19
evening rise	13852 Aug 22 18:39	22° m/24'43		avanina rica	13853 Aug 02 20:13	0° M) 5° M: 14'00	
	13852 Aug 26 20:39	0° <u>ი</u>	10010151	evening rise	13853 Aug 05 18:51	5° Mp 14'00	
evening max el	13852 Sep 07 17:23		18°18'51	asc. node	13853 Aug 08 02:45	9° m/22'55	
retrograde	13852 Sep 15 03:46	21° £ 43'53			13853 Aug 21 07:50	0° ⊽	1000212
evening set	13852 Sep 17 06:04	21° Ω 26'36		evening max el	13853 Aug 22 05:28	0° Ω 56'29	18°03'26
desc. node	13852 Sep 23 03:12	18° ≏ 06'59		retrograde	13853 Aug 28 22:01	4° ≙ 22'55	
inferior conj	13852 Sep 24 18:31	16° ≏ 47'20		evening set	13853 Aug 31 07:53	3° ≏ 56'04	
minimum elong	13852 Sep 24 17:23		0°30'18		13853 Sep 06 00:03	30°R, Mp	
min. Earth dist.	13852 Sep 28 01:33	14° ♀ 04'44	0.58559 AU	inferior conj	13853 Sep 07 02:53	28° m 56'35	
morning rise	13852 Oct 02 01:15	11° ≏ 21'53		minimum elong	13853 Sep 07 04:25	28° m 52'52	0°52'00
direct	13852 Oct 08 08:35	9° ჲ 36'34		desc. node	13853 Sep 10 00:45	26°M)09'36	
morning max el	13852 Oct 22 16:03	17° ≏ 16′26	27°23'25	min. Earth dist.	13853 Sep 10 06:17	25° m 56'55	0.60825 AU

morning rise	13853 Sep 13 22:03	23°Mp02'09		morning rise	13854 Aug 27 11:23	5° ™ 29'50	
direct	13853 Sep 20 12:44	20° m 51'38		desc. node	13854 Aug 27 22:18	5° Mp 10'02	
morning max el	13853 Oct 04 18:57	28° m 46'45	27°56'29	direct	13854 Sep 03 03:19	3° Mp 00'24	
	13853 Oct 05 23:47	0∘ ত		morning max el	13854 Sep 17 03:15	11° m 02'04	27°50'45
	13853 Oct 27 03:09	0° M			13854 Oct 02 02:21	0∘ ত	
asc. node	13853 Nov 04 04:48	15° M .10'01			13854 Oct 19 12:16	0° M	
morning set	13853 Nov 06 18:48	20°M26'58		morning set	13854 Oct 21 15:22	4° ጤ 14'15	
	13853 Nov 11 05:58	0° ∡ ¹		asc. node	13854 Oct 22 01:29	5° M 05′26	
max. Earth dist.	13853 Nov 12 15:24	3° х 03′46	1.31365 AU	max. Earth dist.	13854 Oct 26 17:34	14°M50'43	1.32098 AU
superior conj	13853 Nov 14 00:19	6° х 06′04	1°21'18	superior conj	13854 Oct 29 08:23	20°M30'27	1°04'29
minimum elong	13853 Nov 13 22:16	5° ∡ ′54'41	1°21'58	minimum elong	13854 Oct 29 06:05	20° M 17′58	1°04'53
evening rise	13853 Nov 20 17:05	20° ∡ 53'41			13854 Nov 02 16:15	0° ∡ ¹	
	13853 Nov 25 01:25	0° ප		evening rise	13854 Nov 05 04:06	5° ∡ ¹25'19	
desc. node	13853 Dec 06 21:38	20°る53'55			13854 Nov 18 00:20	0°ප	
	13853 Dec 13 17:50	0° ≈		desc. node	13854 Nov 23 18:46	8° る 20'15	
evening max el	13853 Dec 17 16:04	4° ≈ 09'05	25°23'29	evening max el	13854 Nov 29 02:41	14° る 19'48	23°45'49
retrograde	13853 Dec 31 12:34	11° ≈ 07'10		retrograde	13854 Dec 12 14:45	21° る 02'55	
evening set	13854 Jan 06 09:14	9° ≈ 48'56		evening set	13854 Dec 17 07:32	20° る 14'50	
min. Earth dist.	13854 Jan 11 04:16	7° ≈ 08'55	0.57000 AU	min. Earth dist.	13854 Dec 23 13:34	17° る 13'11	0.55421 AU
inferior conj	13854 Jan 13 23:36	5° ≈ 16′22	-4°55'32	inferior conj	13854 Dec 25 09:59	16° පි 07'10	-5°48'43
minimum elong	13854 Jan 14 08:24	5° ≈ 01'38	4°52'29	minimum elong	13854 Dec 25 14:38	16° පි 00'16	5°47'13
morning rise	13854 Jan 22 10:09	1° ≈ 03'08		morning rise	13855 Jan 02 23:30	12° る 12'24	
direct	13854 Jan 24 13:54	0° ≈ 49'22		direct	13855 Jan 05 14:49	11° る 55'05	
asc. node	13854 Jan 31 03:52	3° ≈ 07'26		morning max el	13855 Jan 16 06:32	17° る 01'35	20°13'32
morning max el	13854 Feb 02 16:44	5° ≈ 15'13	19°04'06	asc. node	13855 Jan 18 01:11	18° る 52'15	
C	13854 Feb 18 06:18	0° ₩			13855 Jan 25 20:30	0° ≈	
morning set	13854 Feb 19 06:57	2° ₩ 01'25		morning set	13855 Feb 03 12:58	16° ≈ 37'39	
S				C	13855 Feb 10 01:25	0°) €	
superior conj	13854 Feb 27 16:13	18° ¥ 28'51	0°42'03				
minimum elong	13854 Feb 27 18:37	18° ¥ 40′21	0°41'59	superior conj	13855 Feb 11 04:34	2°) 17'05	1°06'12
desc. node	13854 Mar 04 22:45	28° ¥ 20′12		minimum elong	13855 Feb 11 07:17	2°) € 30'43	1°06'25
	13854 Mar 05 20:47	0° Υ		max. Earth dist.	13855 Feb 16 20:51	13°) €23'41	1.36643 AU
max. Earth dist.	13854 Mar 06 14:11	1° Y 18'05	1.38867 AU	desc. node	13855 Feb 19 19:16	18° ¥ 51'55	
evening rise	13854 Mar 10 09:09	7° Y ′56'58		evening rise	13855 Feb 20 15:35	20°) 24'29	
8 21	13854 Mar 24 03:09	0°B		8	13855 Feb 26 02:52	0° Υ	
evening max el	13854 Apr 14 14:02	27° 8 41'53	24°33'29		13855 Mar 18 03:10	0°8	
Č	13854 Apr 17 01:35	0°П		evening max el	13855 Mar 28 03:28	11° 8 33'28	25°47'04
retrograde	13854 Apr 26 03:45	4° Ⅲ 28′02		retrograde	13855 Apr 09 15:41	18° 8 45'22	
asc. node	13854 Apr 29 00:19	3° Ⅱ 52'13		evening set	13855 Apr 15 16:29	16° 8 16'26	
evening set	13854 May 01 17:24	2° Ⅱ 07'15		asc. node	13855 Apr 15 21:43	16° 8 05'15	
Č	13854 May 03 19:50	30°R ∀		min. Earth dist.	13855 Apr 19 22:23	11° 8 41'45	0.67498 AU
min. Earth dist.	13854 May 06 06:09		0.68424 AU	inferior conj	13855 Apr 21 10:50	9° 8 46'15	1°38'58
inferior conj	13854 May 07 06:06	25° 8 37'01		minimum elong	13855 Apr 21 08:49	9° 8 52'38	
minimum elong	13854 May 07 03:58	25° 8 44'11		morning rise	13855 Apr 27 01:46	3° 8 57'04	
morning rise	13854 May 12 14:43	19° 8 38'13		direct	13855 Apr 30 10:29	2° 8 52'21	
direct	13854 May 16 10:46	18° 8 14'03		morning max el	13855 May 07 04:31	6° 8 31'13	18°52'57
morning max el	13854 May 23 21:18	22° 8 22'23	19°48'45	desc. node	13855 May 18 21:29	21° 8 56'27	
C	13854 May 30 08:08	Π°		greatest brilliancy	13855 May 20 18:40	24° 8 46'58	-0.8m
desc. node	13854 Jun 01 00:39	2° Ⅱ 16'58		· ·	13855 May 24 04:25	$\Pi^{\circ}0$	
greatest brilliancy	13854 Jun 06 01:28	9° Ⅱ 26'37	-0.6m	morning set	13855 May 29 18:26	8° Ⅲ 38'42	
morning set	13854 Jun 19 10:05	29° Ⅱ 33'43		S	13855 Jun 12 11:41	0°ಅ	
S	13854 Jun 19 16:56	0° ©		max. Earth dist.	13855 Jun 13 04:43	1° 5 06'36	1.45639 AU
max. Earth dist.	13854 Jun 30 11:34	16° © 48'07	1.44696 AU				
				superior conj	13855 Jun 15 01:58	4° © 03'48	-2°13'11
superior conj	13854 Jul 05 10:50	24°5944'49	-2°07'34	minimum elong	13855 Jun 15 00:18	3° © 57'15	
minimum elong	13854 Jul 05 16:05	25°906'02	2°08'20	evening rise	13855 Jun 30 05:41	28°©10'51	
Č	13854 Jul 08 16:25	$0^{\circ}\Omega$		C	13855 Jul 01 08:43	$0^{\circ}\Omega$	
evening rise	13854 Jul 19 00:05	17° Ω 13'02		asc. node	13855 Jul 12 20:10	18° Ω 11'46	
asc. node	13854 Jul 25 23:25	28° Ω 57'43		evening max el	13855 Jul 20 09:23	27° Ω 56'37	18°28'27
	13854 Jul 26 14:32	0° m)		<i>5 2</i> -	13855 Jul 22 20:08	0° m)	
evening max el	13854 Aug 05 19:53	14° m) 19'07	18°06'56	retrograde	13855 Jul 26 20:09	1° m/24'30	
retrograde	13854 Aug 12 04:55	17° m 39'37		evening set	13855 Jul 29 23:03	0° my 29'53	
evening set	13854 Aug 14 23:05	17° m/00'04		<i>3</i>	13855 Jul 30 17:37	30°R Ω	
inferior conj	13854 Aug 21 03:48	11° m) 42'48	1°54'15	inferior conj	13855 Aug 04 17:10	24° Ω 56'46	2°35'45
minimum elong	13854 Aug 21 06:15	11° Mp 36'07		minimum elong	13855 Aug 04 19:23	24° Ω 50'07	
min. Earth dist.	13854 Aug 23 20:50		0.63070 AU	min. Earth dist.	13855 Aug 06 20:37		0.65091 AU
		a , -=					

morning rise	13855 Aug 10 14:30	18° Ω 34'40		inferior conj	13856 Jul 18 15:31	8° Ω 32′12	3°00'24
desc. node	13855 Aug 14 19:49	16° Ω 14'18		minimum elong	13856 Jul 18 16:56	8° Ω 27'39	2°59'20
direct	13855 Aug 17 02:20	15° Ω 55'37		min. Earth dist.	13856 Jul 20 04:25	6° Ω 33'25	0.66747 AU
morning max el	13855 Aug 30 13:56	23° Ω 51′07	27°10'57	morning rise	13856 Jul 24 04:44	2° Ω 07'39	
	13855 Sep 05 02:10	0° ™			13856 Jul 27 13:41	30° ₹ 5	
	13855 Sep 25 11:19	0∘ ত		direct	13856 Jul 30 08:18	29° © 28'51	
morning set	13855 Oct 05 02:19	17° ≏ 32'32		desc. node	13856 Jul 31 17:16	29° © 35'52	
asc. node	13855 Oct 08 22:05	25° ჲ 08′25			13856 Aug 02 07:03	$0^{\circ}\Omega$	
max. Earth dist.	13855 Oct 09 11:09	26° ≙ 14'57	1.33372 AU	morning max el	13856 Aug 12 00:58	7° Ω 03'11	26°05'07
	13855 Oct 11 06:45	0° M.			13856 Aug 29 20:53	0° m y	
					13856 Sep 16 21:17	0∘ ⊽	
superior conj	13855 Oct 13 11:32	4° ™ 37'24	0°42'02	morning set	13856 Sep 17 00:17	0° ₽ 13'53	
minimum elong	13855 Oct 13 09:36	4° ™ 27'09	0°42'11	max. Earth dist.	13856 Sep 20 18:49	7° ≙ 22'07	1.35157 AU
evening rise	13855 Oct 20 14:45	19° ™ 53'48		asc. node	13856 Sep 24 18:39	15° ≏ 15'05	
	13855 Oct 25 12:27	0° ∡ ¹					
evening max el	13855 Nov 10 14:10	24° ∡ ¹20'54	22°04'09	superior conj	13856 Sep 26 07:15	18° ≏ 20'36	0°14'16
desc. node	13855 Nov 10 16:00	24° ∡ ¹25'21		minimum elong	13856 Sep 26 06:26	18° ≏ 16′28	0°14'20
	13855 Nov 19 07:02	0°రె		behind sun begin	13856 Sep 26 03:39	18° ≏ 02'19	
retrograde	13855 Nov 23 05:05	0° ප 36'06		behind sun end	13856 Sep 26 09:13	18° ≏ 30'38	
evening set	13855 Nov 26 12:35	0° る 11'46			13856 Oct 01 22:15	0° M	
-	13855 Nov 27 06:27	30°₽ ⋌ ¹		evening rise	13856 Oct 03 23:05	4° ጤ 14'12	
inferior conj	13855 Dec 05 05:03	26° ⊀ 17'36	-5°51'55	C	13856 Oct 18 08:58	0° ∡ ¹	
minimum elong	13855 Dec 05 00:50	26° ≮ ¹23'30	5°50'31	evening max el	13856 Oct 22 11:43	4° ∡ ¹48'16	20°34'13
min. Earth dist.	13855 Dec 04 19:53	26° х 30′27	0.54573 AU	desc. node	13856 Oct 27 13:21	8° ∡ ¹42'47	
morning rise	13855 Dec 13 14:06	22° х 30′20		retrograde	13856 Nov 02 15:39	10° х 21′16	
direct	13855 Dec 17 01:42	22° ₹ 03'25		evening set	13856 Nov 04 22:05	10° х 08'34	
morning max el	13855 Dec 29 05:45	27°×753'30	21°45'08	inferior conj	13856 Nov 13 20:57	6° х 13'51	-4°55'13
morning man er	13855 Dec 31 07:09	0°る	21 .5 00	minimum elong	13856 Nov 13 11:02	6° х ⁷ 28′10	4°51'51
asc. node	13856 Jan 04 22:25	5° る 51'10		min. Earth dist.	13856 Nov 15 02:15	5° x ⁷ 31'28	0.54643 AU
use. Hous	13856 Jan 18 07:15	0° ≈		morning rise	13856 Nov 21 23:46	2°×715'54	0.0 10 10 110
morning set	13856 Jan 18 22:54	1° ≈ 21'53		direct	13856 Nov 26 10:18	1° x ⁷ 33'37	
morning sec	15050 0011 10 22.0 .	1.02100		morning max el	13856 Dec 09 17:53	8° ∡ ′02'53	23°31'59
superior conj	13856 Jan 26 02:43	16° ≈ 31'07	1°23'22	asc. node	13856 Dec 21 19:32	23°×7'46'58	23 310)
minimum elong	13856 Jan 26 04:55	16° ≈ 42'41	1°23'57	use. House	13856 Dec 25 09:19	0°ਰ	
max. Earth dist.	13856 Jan 30 08:43	25°≈15'27	1.34659 AU	morning set	13857 Jan 02 10:37	16° る 07'29	
	13856 Feb 01 18:07	0°) €			13857 Jan 08 20:12	0° ≈	
evening rise	13856 Feb 03 14:05	3° ¥ 32′10					
desc. node	13856 Feb 06 15:48	9° ¥ 16'29		superior conj	13857 Jan 09 07:33	1° ≈ 01'30	1°33'51
acco. noac	13856 Feb 19 00:09	0°Υ		minimum elong	13857 Jan 09 08:50	1°≈08'23	1°34'44
evening max el	13856 Mar 09 17:19	25° Y 18'46	26°46'23	max. Earth dist.	13857 Jan 12 04:22	7°≈09'50	1.33063 AU
e venning man er	13856 Mar 15 09:15	0°8	20 .025	evening rise	13857 Jan 17 01:03	17° ≈ 10'00	1.55005110
retrograde	13856 Mar 22 22:04	2° 8 43'43		desc. node	13857 Jan 23 12:25	29° ≈ 28'40	
evening set	13856 Mar 29 08:47	0° 8 11'36		desc. node	13857 Jan 23 19:22	0° ∀	
evening sec	13856 Mar 29 14:31	30°RY			13857 Feb 12 09:56	0° Υ	
asc. node	13856 Apr 01 19:10	26° Y ′50′51		evening max el	13857 Feb 20 06:35	8° Υ 46'04	27°24'03
min. Earth dist.	13856 Apr 02 09:10	26° Y ′11'03	0.66160 AU	retrograde	13857 Mar 05 21:51	16° Ƴ 13'43	_, _, _,
inferior conj	13856 Apr 04 09:58	23° Y '47'33	0°49'01	evening set	13857 Mar 12 16:08	13° Y '44'28	
minimum elong	13856 Apr 04 08:44	23° Y ′51'11	0°48'13	min. Earth dist.	13857 Mar 16 12:19	10° Υ 15'39	0.64455 AU
morning rise	13856 Apr 10 09:54	18° Y ′09'45	0 .015	inferior conj	13857 Mar 19 00:55	7° Υ 33'39	
direct	13856 Apr 13 08:26	17° Y ′22'01		minimum elong	13857 Mar 19 01:18	7° Υ '32'37	
morning max el	13856 Apr 19 17:47	20° Υ '44'00	18°13'41	transit middle	13857 Mar 19 01:18	7° Υ 32'37	0°12'31
morning man er	13856 Apr 27 01:10	0.8 0.8	10 15 11	transit begin	13857 Mar 18 23:23	7° Υ 37'47	0 1231
desc. node	13856 May 04 18:11	11° 8 57'49		transit end	13857 Mar 19 03:13	7° Υ 27'28	
morning set	13856 May 09 02:35	18° 8 55'42		asc. node	13857 Mar 19 16:38	6° Υ 51'45	
morning set	13856 May 16 01:08	0°Ⅱ		morning rise	13857 Mar 25 12:27	2° Υ '09'43	
	13030 Way 10 01.00	о д		direct	13857 Mar 28 02:07	1° Υ 35'49	
superior conj	13856 May 24 10:05	13° Ⅱ 11'04	-1°58'39	morning max el	13857 Apr 03 10:41	4° Υ ′52'42	17°51'29
minimum elong	13856 May 24 01:58	12° ∏ 39'18			13857 Apr 03 10:41 13857 Apr 20 06:43	0°8	., 5127
max. Earth dist.	13856 May 26 00:43	12 Ⅲ 3918 15° Ⅲ 42'02	1.45851 AU	morning set	13857 Apr 20 00:43	0° 8 34'01	
max. Luttii dist.	13856 Jun 04 05:05	0°95	1.15051 110	desc. node	13857 Apr 20 14:31 13857 Apr 21 14:47	2° 8 14'10	
evening rise	13856 Jun 09 11:15	8° © 10'41		dose. Hode	1505 / 11p1 21 17.4/	2 01710	
greatest brilliancy	13856 Jun 20 14:39	25°\$23'29	-0.7m	superior conj	13857 May 04 04:25	22° 8 50'56	-1°27'39
Sicurest offillation	13856 Jun 23 16:47	23 3 23 29	V. / 111	minimum elong	13857 May 04 04.25	22° 8 16'57	
asc. node	13856 Jun 28 17:01	6° Ω 57'56		mmmum ciong	13857 May 03 19:36 13857 May 08 16:27	0° Ⅱ	1 2/2/
evening max el	13856 Jul	11°Ω42'43	19°07'06	max. Earth dist.	13857 May 08 16:27 13857 May 08 20:44		1.45313 AU
retrograde	13856 Jul 02 19:22 13856 Jul 09 16:23	$15^{\circ} \Omega 30'54$	17 0/00	evening rise	13857 May 08 20.44 13857 May 20 00:41	17° П 36'15	1.73313 AU
evening set	13856 Jul 13 04:28	13° δ (30'34' 14° Ω 19'43		evening rise	13857 May 20 00:41 13857 May 28 04:45	0°€	
evening set	15050 Jul 15 04.28	17 061743			13031 Way 20 04.43	0 3	

araataat brillianay	12957 Jun 02 22:02	100000000	0.6	aga mada	12050 Jun 02 11:04	120624101	
greatest brilliancy asc. node	13857 Jun 03 23:02 13857 Jun 15 13:59	10°500'02 25°506'11	-0.6m	asc. node retrograde	13858 Jun 02 11:04 13858 Jun 07 13:53	12° © 24'01 14° © 22'24	
evening max el	13857 Jun 15 13:59	25°931'37	20°01'36	evening set	13858 Jun 11 22:07	14 3 22 24 12° 9 37'27	
retrograde	13857 Jun 23 15:00	29°952'06	20 01 30	inferior conj	13858 Jun 17 03:59	6°\$25'17	3°09'45
evening set	13857 Jun 27 12:50	28°\$23'50		minimum elong	13858 Jun 17 03:34	6°\$27'20	3°08'40
inferior conj	13857 Jul 02 19:55	22° © 23'12	3°11'04	min. Earth dist.	13858 Jun 17 12:59	5°953'57	0.68692 AU
minimum elong	13857 Jul 02 20:19	22°921'50	3°10'02	morning rise	13858 Jun 22 08:27	0°907'11	0.00072710
min. Earth dist.	13857 Jul 03 18:32	21°906'37	0.67955 AU	morning rise	13858 Jun 22 11:44	30°RⅡ	
morning rise	13857 Jul 08 03:29	16°900'33	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	direct	13858 Jun 27 12:39	27° I I51'51	
direct	13857 Jul 13 20:03	13° © 30'24			13858 Jul 03 05:25	0°©	
desc. node	13857 Jul 18 14:37	14°955'20		desc. node	13858 Jul 05 11:52	1°9545'54	
morning max el	13857 Jul 25 11:28	20°\$28'56	24°42'46	morning max el	13858 Jul 07 22:17	4° © 03'03	23°13'25
C	13857 Aug 02 15:41	$0^{\circ}\Omega$		Č	13858 Jul 27 19:47	$0^{\circ}\Omega$	
	13857 Aug 23 01:08	0° m)		morning set	13858 Aug 11 12:25	23° Ω 05′59	
morning set	13857 Aug 30 05:11	12° m 08'50		max. Earth dist.	13858 Aug 15 17:16	0° mp 13'37	1.39684 AU
max. Earth dist.	13857 Sep 02 19:03	18° m 32'54	1.37331 AU		13858 Aug 15 14:07	0° ™	
	13857 Sep 08 21:20	0∘ 亚					
				superior conj	13858 Aug 23 11:00	14°M 02'56	-0°53'01
superior conj	13857 Sep 09 16:22	1° ≏ 32'21	-0°18'00	minimum elong	13858 Aug 23 14:55	14° m 21'04	0°52'46
minimum elong	13857 Sep 09 17:34	1° ₾ 38'09	0°17'52	asc. node	13858 Aug 29 11:45	25° m 25'00	
asc. node	13857 Sep 11 15:11	5° ≏ 21'57			13858 Aug 31 20:57	0∘ ত	
evening rise	13857 Sep 18 02:48	18° ≏ 20'44		evening rise	13858 Sep 01 22:56	2° ჲ 05'06	
	13857 Sep 24 02:31	0° M.		evening max el	13858 Sep 17 23:52	28° ≏ 04'16	18°36'44
evening max el	13857 Oct 04 23:28	16°M02'28	19°24'29		13858 Sep 20 05:12	0° M	
retrograde	13857 Oct 14 11:52	20° M 48′17		retrograde	13858 Sep 26 01:50	2°M08'52	
desc. node	13857 Oct 14 10:47	20° M 48′17		evening set	13858 Sep 28 00:26	1°M55'32	
evening set	13857 Oct 16 08:42	20°M38'03		desc. node	13858 Oct 01 08:18	0°M36'56	
inferior conj	13857 Oct 25 00:11	16°M30′26			13858 Oct 02 09:39	30°Ŗ Ω	
minimum elong	13857 Oct 24 15:53		3°13'11	inferior conj	13858 Oct 05 23:34	27° Ω 28'35	
min. Earth dist.	13857 Oct 27 11:59	14°M.53'31	0.55626 AU	minimum elong	13858 Oct 05 20:00	27° △ 35'22	
morning rise	13857 Nov 01 20:53	12°M02'43		min. Earth dist.	13858 Oct 09 03:45	25° Ω 05'01	0.57345 AU
direct	13857 Nov 07 03:55	10°M59'28	25010152	morning rise	13858 Oct 13 12:06	22° Ω 23'05	
morning max el	13857 Nov 21 03:45	18°M01'45	25°18'53	direct	13858 Oct 19 12:01	20° £ 53'32	26047102
1	13857 Dec 01 01:28	0° द्र ⁷		morning max el	13858 Nov 02 18:46	28° Ω 22'32	26°47'02
asc. node	13857 Dec 08 16:33	12° メ 25'33 0° る 49'32			13858 Nov 04 09:32	0°M√ 0°⊀	
morning set	13857 Dec 17 22:20 13857 Dec 17 13:06	0°る49'32 0°る		asc. node	13858 Nov 24 17:21 13858 Nov 25 13:28	1° x ⁷ 35'20	
	1363/ Dec 1/ 13.00	0.0		morning set	13858 Dec 02 08:18	15° × 22'28	
superior conj	13857 Dec 24 16:41	15° る 41'31	1°38'00	morning set	13858 Dec 02 08:18	13 × 22 28	
minimum elong	13857 Dec 24 16:53		1°39'02		13030 DCC 00 23.30	0 0	
max. Earth dist.	13857 Dec 26 07:07	19° ろ 13'02	1.31930 AU	superior conj	13858 Dec 09 03:58	0°る24'14	1°36'07
max. Earth dist.	13857 Dec 31 07:51	0°≈	1.51750710	minimum elong	13858 Dec 09 03:07	0°る19'27	1°37'08
evening rise	13857 Dec 31 21:28	1° ≈ 10'38		max. Earth dist.	13858 Dec 09 14:16	1° る 21'43	1.31296 AU
desc. node	13858 Jan 10 09:09	19° ≈ 22'59		evening rise	13858 Dec 16 00:41	15° る 26'51	
	13858 Jan 16 18:09	0°) €		C	13858 Dec 23 07:01	0° ≈	
evening max el	13858 Feb 02 17:18	21°) 42′53	27°33'18	desc. node	13858 Dec 28 06:01	8°≈51'26	
retrograde	13858 Feb 16 14:20	29° ∺ 06'28			13859 Jan 12 03:45	0° ∀	
evening set	13858 Feb 23 11:59	26°) 47′20		evening max el	13859 Jan 15 23:03	3° ¥ 56'57	27°09'19
min. Earth dist.	13858 Feb 27 06:02	23° ¥ 45'36	0.62455 AU	retrograde	13859 Jan 29 22:30	11° ¥ 12′24	
inferior conj	13858 Mar 02 04:42	20° ¥ 57′10	-1°25'42	evening set	13859 Feb 05 17:11	9° ∺ 11'39	
minimum elong	13858 Mar 02 07:37	20° ¥ 50′12	1°24'14	min. Earth dist.	13859 Feb 09 13:29	6°) 28′40	0.60278 AU
asc. node	13858 Mar 06 14:07	17°) 12'42		inferior conj	13859 Feb 12 17:49	3°) 49′01	-2°47'45
morning rise	13858 Mar 09 06:00	15° ¥ 50′02		minimum elong	13859 Feb 12 23:54	3°) 36′15	2°44'54
direct	13858 Mar 11 12:23	15° ∺ 26'30			13859 Feb 18 00:08	30° R ≈	
morning max el	13858 Mar 18 04:19	18° ¥ 49'24	17°46'48	morning rise	13859 Feb 20 09:50	29° ≈ 01'28	
	13858 Mar 26 09:03	0° Υ		asc. node	13859 Feb 21 11:35	28° ≈ 48'37	
morning set	13858 Apr 03 03:00	13° Y 19'57		direct	13859 Feb 22 11:20	28° ≈ 44'42	
desc. node	13858 Apr 08 11:20	22° Y 40'57			13859 Feb 26 17:54	0°){	10000120
	13858 Apr 12 17:53	0°B		morning max el	13859 Mar 01 19:15	2°\(\frac{1}{2}24'23	18°00'39
	12050 4 14 20 20	2012222	0040144	morning set	13859 Mar 17 08:58	26°) ₹55'18	
superior conj	13858 Apr 14 20:39	3° 8 33'27		J 1	13859 Mar 19 01:00	0°Υ 12°W14112	
minimum elong	13858 Apr 14 15:54	3° 8 13'34		desc. node	13859 Mar 26 07:52	13° Ƴ 14'13	
max. Earth dist.	13858 Apr 21 13:56	14° 8 34'04	1.44086 AU	gunoriar car:	12050 Mar 27 12:55	15° Ƴ 22'44	0000140
evening rise	13858 Apr 29 13:24 13858 May 01 10:07	27° ႘ 07'56 0°Ⅱ		superior conj minimum elong	13859 Mar 27 12:55 13859 Mar 27 12:06	15° γ ′22′44 15° γ ′19′06	
	13858 May 01 10:07 13858 May 22 02:15	0.∞ 0.т		behind sun begin	13859 Mar 27 12:06 13859 Mar 27 05:44	13° γ 1906 14° Υ 51'04	0 0744
evening max el	13858 May 22 02:15 13858 May 29 22:38	0°9320'47	21°09'28	behind sun begin	13859 Mar 27 18:28	14° γ 31'04 15° Υ 47'05	
evening max ci	13030 iviay 27 22.38	/ 204/	21 07 20	ocimia suil cila	13037 Wiai 4/ 10.20	15 14/03	

max. Earth dist.	13859 Apr 04 02:35	28° Ƴ 19'17	1.42306 AU	desc. node	13860 Mar 12 04:21	3° Ƴ 49'47	
	13859 Apr 05 02:57	0°8		max. Earth dist.	13860 Mar 16 10:51	11° Y ′23'56	1.40170 AU
evening rise	13859 Apr 09 15:48	7° 8 20'53		evening rise	13860 Mar 20 14:44	18° Y ′28'54	
	13859 Apr 24 14:14	Π $^{\circ}0$			13860 Mar 27 17:53	0° 8	
evening max el	13859 May 12 16:18	23° I I1'00	22°26'42		13860 Apr 17 23:42	Π °0	
asc. node	13859 May 20 08:15	28° Ⅲ 36′12		evening max el	13860 Apr 24 06:58	7° Ⅱ 03'10	23°47'47
retrograde	13859 May 22 11:20	28° ∏ 56'48		retrograde	13860 May 05 05:50	13° Ⅱ 29'18	
evening set	13859 May 27 06:37	26° I I56'23	2055140	asc. node	13860 May 06 05:32	13° Ⅱ 24'57	
inferior conj	13859 Jun 01 13:36	20° Ⅱ 34'50	2°57'40	evening set	13860 May 10 12:42	11° Ⅱ 15'22	2025110
minimum elong	13859 Jun 01 12:11	20° Ⅲ 39'47 20° Ⅲ 48'41	2°56'27	inferior conj	13860 May 15 22:51	4° Ⅱ 47'23 4° Ⅱ 54'10	2°35'19 2°33'58
min. Earth dist.	13859 Jun 01 09:38 13859 Jun 06 17:36	20°Щ48'41 14°Щ23'06	0.68956 AU	minimum elong min. Earth dist.	13860 May 15 20:52 13860 May 15 06:13	5° П 44'11	0.68753 AU
morning rise direct	13859 Jun 11 09:06	14 П 23 06 12° П 26'24		min. Earth dist.	13860 May 19 19:12	30°R 8	0.08/33 AU
morning max el	13859 Jun 20 11:55	17° Ⅱ 45'31	21°46'04	morning rise	13860 May 21 05:00	28° 8 43'22	
desc. node	13859 Jun 22 09:00	17 Ⅱ 4331	21 4004	direct	13860 May 25 08:03	27° 8 07'09	
acse. noue	13859 Jun 30 14:22	0.ತಿ			13860 May 31 12:36	0°II	
	13859 Jul 20 21:49	$0^{\circ}\Omega$		morning max el	13860 Jun 02 07:21	1° Ⅱ 38′09	20°27'43
morning set	13859 Jul 22 18:50	2° Ω 58′08		desc. node	13860 Jun 08 06:01	8° Ⅱ 31'38	
max. Earth dist.	13859 Jul 28 19:10	12° Ω 43′27	1.41947 AU		13860 Jun 23 07:55	0ಂಣ	
				morning set	13860 Jul 01 03:28	11° © 54'19	
superior conj	13859 Aug 05 10:44	25° Ω 42'54	-1°27'33	max. Earth dist.	13860 Jul 10 03:52	26° © 05'39	1.43854 AU
minimum elong	13859 Aug 05 17:18	26° Ω 11'34	1°27'22		13860 Jul 12 13:58	0 $^{\circ}\Omega$	
	13859 Aug 07 21:12	0° ™					
evening rise	13859 Aug 16 07:44	15° m) 17'53		superior conj	13860 Jul 16 11:36	6° Ω 23'35	
asc. node	13859 Aug 16 08:22	15° m 20'44		minimum elong	13860 Jul 16 18:40	6° Ω 52'49	1°56'41
	13859 Aug 24 13:33	0∘ ʊ	10000155	evening rise	13860 Jul 29 00:25	27° Ω 46'37	
evening max el	13859 Sep 01 08:58	10° Ω 45'45	18°09'57	1	13860 Jul 30 07:00	0° Mp	
retrograde evening set	13859 Sep 08 10:30 13859 Sep 10 15:48	14° £ 21'42 14° £ 00'52		asc. node evening max el	13860 Aug 02 05:00 13860 Aug 14 22:31	5° Mp 04'21 23° Mp 55'58	18°02'44
inferior conj	13859 Sep 10 13:48 13859 Sep 17 20:36	9° £ 13'08	0°07'09	retrograde	13860 Aug 21 10:29	27° M) 17'49	10 02 44
minimum elong	13859 Sep 17 20:50	9° ₽ 12'35	0°07'07	evening set	13860 Aug 23 23:57	26° m) 45'48	
transit middle	13859 Sep 17 20:50	9° ₽ 12'35	0°07'07	inferior conj	13860 Aug 30 12:26	21° mg 38'36	1°21'24
transit begin	13859 Sep 17 17:47	9° Ω 19'19		minimum elong	13860 Aug 30 14:33	21°m)33'14	1°20'25
transit end	13859 Sep 17 23:53	9° Ω 05'51		min. Earth dist.	13860 Sep 02 12:05	18° m) 38'16	0.61800 AU
desc. node	13859 Sep 18 05:49	8° ჲ 52'41		desc. node	13860 Sep 04 03:21	17° m 08'00	
min. Earth dist.	13859 Sep 21 03:22	6° ≙ 20'19	0.59510 AU	morning rise	13860 Sep 06 02:37	15° m 35'23	
morning rise	13859 Sep 24 22:30	3° △ 34'04		direct	13860 Sep 12 18:47	13° m 15'41	
direct	13859 Oct 01 09:54	1° ≏ 37'06		morning max el	13860 Sep 26 22:34	21°M) 14'18	27°58'36
morning max el	13859 Oct 15 17:21	9° ₽ 25'02	27°42'09		13860 Oct 04 13:34	0∘ ⊽	
	13859 Oct 31 13:26	0° M			13860 Oct 23 15:20	0° M	
asc. node	13859 Nov 12 10:19	21°M07'58		asc. node	13860 Oct 29 07:03	10° ™ 56'52	
morning set	13859 Nov 16 14:41	29°M41'39		morning set	13860 Oct 30 15:31	13°M42'20	1 21 (10 47)
Fauth diet	13859 Nov 16 18:10	0° 🗷 129.₹2954	1 21107 ATT	max. Earth dist.	13860 Nov 05 03:57	25°IIL26'32	1.31610 AU
max. Earth dist.	13859 Nov 22 22:25	13° ∡ 28'54	1.31187 AU	superior conj	13860 Nov 07 01:24	29°M36'10	1°14'53
superior conj	13859 Nov 23 15:30	15° ∡ '04'11	1°28'23	minimum elong	13860 Nov 06 23:11	29°M23'57	1°15'26
minimum elong	13859 Nov 23 13:47	14° × 54'40	1°29'13	minimum ciong	13860 Nov 07 05:43	0° ⊼ ¹	1 13 20
evening rise	13859 Nov 30 08:28	29° х 53′15	,	evening rise	13860 Nov 13 18:52	14° ∡ *24'57	
S	13859 Nov 30 09:44	ರ°0		Č	13860 Nov 21 10:44	ರ°0	
desc. node	13859 Dec 15 02:58	27° る 43'57		desc. node	13860 Dec 01 00:02	15° る 47'19	
	13859 Dec 16 14:01	0° ≈		evening max el	13860 Dec 09 11:48	25° る 53'37	24°43'44
evening max el	13859 Dec 28 21:29	15° ≈ 19'58	26°10'52		13860 Dec 14 15:46	0° ≈	
retrograde	13860 Jan 11 20:21	22° ≈ 24'39		retrograde	13860 Dec 23 05:41	2° ≈ 45′28	
evening set	13860 Jan 18 03:44	20° ≈ 49′50		evening set	13860 Dec 28 15:42	1° ≈ 40'32	
min. Earth dist.	13860 Jan 22 10:52	18° ≈ 13'05	0.58125 AU		13861 Jan 01 02:59	30°Ŗる	
inferior conj	13860 Jan 25 12:39	15°≈59'08		min. Earth dist.	13861 Jan 02 23:37		0.56259 AU
minimum elong	13860 Jan 25 21:17	15°≈43'24	4°08'21	inferior conj	13861 Jan 05 10:48	27° る 20'05	
morning rise	13860 Feb 02 17:47	11°≈33'00		minimum elong	13861 Jan 05 18:37	27°る07'42	5~20'16
direct	13860 Feb 04 18:42 13860 Feb 08 09:01	11°≈19'17		morning rise direct	13861 Jan 13 23:38 13861 Jan 16 07:17	23°る15'08 23°る00'23	
asc. node morning max el	13860 Feb	12°≈04'28 15°≈25'58	18°34'37	asc. node	13861 Jan 16 07:17 13861 Jan 25 06:22	23° る 00°23 26° る 59'21	
morning max ci	13860 Feb 13 05:35 13860 Feb 23 06:05	13 ≈ 23 38	10 543/	morning max el	13861 Jan 26 01:06	20 3 3921 27° る 42'56	19°30'40
morning set	13860 Feb 29 03:20	11° 米 03'39		morning max of	13861 Jan 28 04:21	27 3 42 30 0° ≈	17 30 70
	15000100 27 05.20	1. 10557		morning set	13861 Feb 12 06:03	0 ∞ 25° ≈ 33'15	
superior conj	13860 Mar 09 01:53	28°) €08'15	0°24'59	<i>5</i>	13861 Feb 14 11:04	0° ∀	
minimum elong	13860 Mar 09 03:33	28° ∺ 16′01	0°24'51				
-	13860 Mar 10 02:01	0 ° Υ		superior conj	13861 Feb 20 06:59	11°) € 37'41	0°53'09

minimum elong	13861 Feb 20 09:39	11° ¥ 50'42	0°53'10	minimum elong	13862 Feb 04 02:30	25° ≈ 51′26	1°14'40
max. Earth dist.	13861 Feb 26 17:25	23° ¥ 50′22	1.37912 AU		13862 Feb 06 03:31	0° ℋ	
desc. node	13861 Feb 27 00:52	24°) €24'25		max. Earth dist.	13862 Feb 09 02:06	5°) 49′06	1.35765 AU
evening rise	13861 Mar 02 10:29	0° Ƴ 30'14		evening rise	13862 Feb 13 00:10	13° ∺ 15'49	
	13861 Mar 02 03:37	0° Y		desc. node	13862 Feb 13 21:24	14° ¥ 53'40	
	13861 Mar 21 00:05	0°B			13862 Feb 22 14:35	$0^{\circ}\mathbf{\Upsilon}$	
evening max el	13861 Apr 06 20:36	20° 8 56'49	25°06'00		13862 Mar 15 22:25	0°8	
retrograde	13861 Apr 18 20:18	27° 8 54'31		evening max el	13862 Mar 20 10:09	4° 8 46'31	26°14'20
asc. node	13861 Apr 23 02:52	26° 8 36'22		retrograde	13862 Apr 02 05:50	12° 8 05'02	20 1.20
evening set	13861 Apr 24 14:49	25° 8 29'52		evening set	13862 Apr 08 11:15	9° 8 33'51	
C	1		0.60002.411			_	
min. Earth dist.	13861 Apr 29 00:35	20° 8 34'58	0.68093 AU	asc. node	13862 Apr 10 00:16	8° 8 09'00	0.66006.477
inferior conj	13861 Apr 30 05:48	18° 8 59'17	2°02'38	min. Earth dist.	13862 Apr 12 14:37	5° 8 14'11	0.66986 AU
minimum elong	13861 Apr 30 03:38	19° 8 06'21	2°01'17	inferior conj	13862 Apr 14 08:24	3° 8 05'40	1°19'10
morning rise	13861 May 05 16:46	13° 8 04'23		minimum elong	13862 Apr 14 06:38	3° 8 11'08	1°18'04
direct	13861 May 09 07:59	11° 8 48'31			13862 Apr 16 23:58	30° ₹Ƴ	
morning max el	13861 May 16 10:20	15° 8 42'18	19°22'59	morning rise	13862 Apr 20 02:52	27° Y 21'21	
desc. node	13861 May 26 02:54	27° 8 55'07		direct	13862 Apr 23 07:08	26° Ƴ 24'13	
	13861 May 27 13:30	$\Pi^{\circ}0$			13862 Apr 29 22:52	0°8	
greatest brilliancy	13861 May 29 03:02	2° Ⅱ 17'38	-0.7m	morning max el	13862 Apr 29 20:26	29° Y ′54'02	18°34'11
morning set	13861 Jun 10 05:38	20° Ⅲ 38'54	0.7111	desc. node	13862 May 12 23:41	17° 8 44'48	10 3 1 1 1
morning set		0°95		morning set		0° Ⅱ 11'13	
To all the	13861 Jun 16 06:53		1 45100 411	morning set	13862 May 20 22:42		
max. Earth dist.	13861 Jun 22 19:08	10°©10'25	1.45192 AU		13862 May 20 19:51	Π \circ 0	
superior conj	120/1 I 2/ 12.12	1.0000(120	2012/20		13862 Jun 05 23:14	25° Ⅱ 15'01	2800126
1 3	13861 Jun 26 13:12	16°506'39 16°517'37		superior conj			
minimum elong	13861 Jun 26 15:58		2-13-19	minimum elong	13862 Jun 05 18:18	24° Ⅱ 55'44	
	13861 Jul 05 03:58	0°Ω		max. Earth dist.	13862 Jun 05 14:11		1.45823 AU
evening rise	13861 Jul 10 19:57	9° Ω 20'04			13862 Jun 09 00:11	0 \circ	
asc. node	13861 Jul 20 01:41	24° Ω 30'53		evening rise	13862 Jun 21 15:02	19° © 52'30	
	13861 Jul 23 15:27	0° m y			13862 Jun 28 00:20	0 $^{\circ}$ Ω	
evening max el	13861 Jul 29 12:52	7° ™ 25'32	18°13'56	greatest brilliancy	13862 Jun 29 16:17	2° Ω 37′07	-0.8m
retrograde	13861 Aug 04 21:24	10° m 47'24		asc. node	13862 Jul 06 22:29	13° Ω 34'22	
evening set	13861 Aug 07 19:20	10° m 01'31		evening max el	13862 Jul 13 01:04	21° Ω 07'19	18°42'48
inferior conj	13861 Aug 13 19:03	4° m 37'01	2°14'06	retrograde	13862 Jul 19 15:16	24° Ω 42'37	
minimum elong	13861 Aug 13 21:31	4° m/30'02	2°12'55	evening set	13862 Jul 22 21:58	23°Ω41'04	
min. Earth dist.	13861 Aug 16 06:25	1° mg 49'14		inferior conj	13862 Jul 28 12:39	18° Ω 01'24	2°48'05
min. Earm dist.	•	1 11/49 14 30°RΩ	0.03308 AU		13862 Jul 28 14:34	17° Ω 55'25	2°46'57
	13861 Aug 18 00:26			minimum elong			
morning rise	13861 Aug 19 22:04	28° Ω 19'22		min. Earth dist.	13862 Jul 30 09:51	15° Ω 41'31	0.65840 AU
desc. node	13861 Aug 22 00:53	26° Ω 55'33		morning rise	13862 Aug 03 06:14	11° Ω 37'22	
direct	13861 Aug 26 12:48	25° Ω 44'57		desc. node	13862 Aug 08 22:21	8° Ω 59'15	
	13861 Sep 05 04:40	0° m y		direct	13862 Aug 09 14:46	8° Ω 57'32	
morning max el	13861 Sep 09 08:10	3° m 44'54	27°37'42	morning max el	13862 Aug 22 19:27	16° Ω 46'15	26°45'43
	13861 Sep 29 01:53	0∘ ⊽			13862 Sep 02 19:29	0° m)	
morning set	13861 Oct 14 08:18	27° ₽ 17'48			13862 Sep 21 22:50	0∘ ⊽	
C	13861 Oct 15 16:39	0° M .		morning set	13862 Sep 27 14:11	10° ≏ 21'40	
asc. node	13861 Oct 16 03:41	0°M55'54		max. Earth dist.	13862 Oct 01 16:35	18° ≏ 21'39	1.34071 AU
max. Earth dist.	13861 Oct 19 03:00	7°M05'01	1.32574 AU	asc. node	13862 Oct 03 00:16	21° ≏ 01'05	1.5 10 / 1110
max. Darm dist.	13001 000 17 03.00	7 11005 01	1.52571110	use. Houe	13002 001 03 00.10	21 -01 03	
superior conj	13861 Oct 22 07:37	13°M53'37	0°55'39	superior conj	13862 Oct 06 07:54	27° ₽ 51'09	0°30'53
minimum elong	13861 Oct 22 05:23	13° M 41'38	0°55'56	minimum elong	13862 Oct 06 06:21	27° ≏ 43'00	0°30'58
evening rise	13861 Oct 29 05:56	28°M55'58			13862 Oct 07 08:30	0° M	
evening rise	13861 Oct 29 17:55	0° ∡ 7		evening rise	13862 Oct 17 05:50	13°M21'44	
		0°る		evening rise		13 IIG21 44 0° ⊼ ¹	
	13861 Nov 15 16:39				13862 Oct 22 01:58		21022115
desc. node	13861 Nov 17 21:13	2° る 42'17		evening max el	13862 Nov 02 12:08	16° ∡ 02'59	21°23'47
evening max el	13861 Nov 20 21:33	5° る 55'27	23°02'03	desc. node	13862 Nov 04 18:30	18° ∡ °04'58	
retrograde	13861 Dec 04 02:04	12° る 28'28		retrograde	13862 Nov 14 13:46	22° ∡ 02′29	
evening set	13861 Dec 08 05:00	11° る 51'31		evening set	13862 Nov 17 08:45	21° ∡ ⁴44'31	
min. Earth dist.	13861 Dec 15 06:48	8° る 35'24	0.54959 AU	inferior conj	13862 Nov 26 05:24	17° ∡ 751′23	-5°34'45
inferior conj	13861 Dec 16 13:34	7° る 51'20	-5°57'18	minimum elong	13862 Nov 25 21:55	18° ∡ *01'55	5°32'35
minimum elong	13861 Dec 16 14:41	7° る 49'44		min. Earth dist.	13862 Nov 26 12:43		0.54482 AU
morning rise	13861 Dec 25 01:53	4° る 01'58		morning rise	13862 Dec 04 11:46	14° ∡ °02'10	
direct	13861 Dec 28 01:12	3° ට 41'16		direct	13862 Dec 08 08:49	13° ∡ 29'41	
morning max el	13862 Jan 08 08:36		20°49'58	morning max el	13862 Dec 21 02:24	19° × ² 37'08	22°29'29
•	13862 Jan 12 03:39	9 30341 13° 3 17'48	20 7/ /0	morning max ci		19 メ ・3708	LL LJ LJ
asc. node				aaa m-J-	13862 Dec 29 13:34		
. ,	13862 Jan 22 11:40	0° ≈		asc. node	13862 Dec 30 00:50	0°る42'35	
morning set	13862 Jan 27 14:01	10° ≈ 14′03		morning set	13863 Jan 12 00:56	24° る 59'32	
	10000	0.50	101		13863 Jan 14 09:15	0° ≈	
superior conj	13862 Feb 03 23:55	25° ≈ 38'16	1°14'19				

superior conj	13863 Jan 19 01:16	10° ≈ 00′26	1°28'36	asc. node	13863 Dec 16 21:55	18° ∡ 757'54	
minimum elong	13863 Jan 19 03:07	10° ≈ 10′15	1°29'19		13863 Dec 22 20:17	5°0	
max. Earth dist.	13863 Jan 22 16:56	17° ≈ 39′23	1.33925 AU	morning set	13863 Dec 27 12:52	9° る 44'05	
evening rise	13863 Jan 27 04:20	26° ≈ 37′08					
	13863 Jan 28 22:34	0° ℋ		superior conj	13864 Jan 03 08:14	24° る 35'57	1°36'21
desc. node	13863 Jan 31 17:59	5° 升 13'35		minimum elong	13864 Jan 03 09:03	24° る 40'26	1°37'20
	13863 Feb 15 23:02	0 ° $\mathbf{\gamma}$		max. Earth dist.	13864 Jan 05 15:34	29° ට 36'11	1.32514 AU
evening max el	13863 Mar 02 23:41	18° Y 24'45	27°05'21		13864 Jan 05 20:00	0° ≈	
retrograde	13863 Mar 16 09:42	25° Y 52'41		evening rise	13864 Jan 10 19:41	10° ≈ 25′50	
evening set	13863 Mar 23 00:03	23° Y 20′39		desc. node	13864 Jan 18 14:40	25° ≈ 19′14	
min. Earth dist.	13863 Mar 26 22:19	19° Ƴ 34'11	0.65477 AU		13864 Jan 21 06:41	0° ∀	
asc. node	13863 Mar 27 21:44	18° Ƴ 28'29			13864 Feb 11 19:24	0° Υ	
inferior conj	13863 Mar 29 04:23	17° Ƴ 01'08	0°24'17	evening max el	13864 Feb 13 12:10	1° Ƴ 41'22	27°31'54
minimum elong	13863 Mar 29 03:43	17° Ƴ 03'01	0°23'50	retrograde	13864 Feb 27 06:49	9° Ƴ 08'40	
morning rise	13863 Apr 04 08:59	11° Y 29'12		evening set	13864 Mar 05 02:57	6° Ƴ 42'52	
direct	13863 Apr 07 03:29	10° Ƴ 47'55		min. Earth dist.	13864 Mar 08 21:51	3° Y 26'06	0.63628 AU
morning max el	13863 Apr 13 11:39	14° Y 06′26	18°02'06	inferior conj	13864 Mar 11 15:03	0° Ƴ 39'33	-0°42'16
	13863 Apr 24 23:31	0°8		minimum elong	13864 Mar 11 16:24	0° Y 36′06	0°41'37
desc. node	13863 Apr 29 20:21	7° 8 53'10			13864 Mar 12 06:35	30° ₹ ₩	
morning set	13863 May 01 18:55	11° 8 03'08		asc. node	13864 Mar 13 19:13	28°) 30′46	
	13863 May 13 13:04	Π $^{\circ}0$		morning rise	13864 Mar 18 08:14	25° ∺ 22'19	
				direct	13864 Mar 20 18:26	24°) €53'24	
superior conj	13863 May 16 09:45	4° Ⅲ 31′28	-1°47'02	morning max el	13864 Mar 27 05:19	28° ₭ 11'55	17°47'15
minimum elong	13863 May 16 00:42	3° Ⅱ 55'50	1°47'08		13864 Mar 28 21:37	0 ° Υ	
max. Earth dist.	13863 May 19 10:06	9° Ⅱ 15'27	1.45706 AU	morning set	13864 Apr 12 18:12	23° Y 13'24	
evening rise	13863 Jun 01 12:09	29° Ⅲ 33'14		desc. node	13864 Apr 15 16:56	28° Y 15'00	
	13863 Jun 01 19:06	0°€			13864 Apr 16 17:41	9° 8	
greatest brilliancy	13863 Jun 14 14:50	19° 5 30'33	-0.7m				
	13863 Jun 22 02:38	$0^{\circ}\Omega$		superior conj	13864 Apr 25 12:43	14° 8 37'00	-1°11'35
asc. node	13863 Jun 23 19:23	2° Ω 05'57		minimum elong	13864 Apr 25 05:34	14° 8 07'55	1°11'20
evening max el	13863 Jun 26 08:51	4° Ω 54'55	19°28'28	max. Earth dist.	13864 May 01 04:51	23° 8 43'56	1.44870 AU
retrograde	13863 Jul 03 12:52	8° Ω 55'57			13864 May 05 04:25	$\Pi^{\circ}0$	
evening set	13863 Jul 07 04:55	7° Ω 37'42		evening rise	13864 May 10 23:17	8° Ⅱ 56'54	
inferior conj	13863 Jul 12 13:55	1° Ω 44'26	3°06'30		13864 May 25 00:46	0°©	
minimum elong	13863 Jul 12 14:55	1° Ω 41′09	3°05'27	evening max el	13864 Jun 08 11:01	18°544'51	20°29'03
_	13863 Jul 13 21:34	30° ℝ ∽		asc. node	13864 Jun 09 16:24	19° © 54'59	
min. Earth dist.	13863 Jul 13 20:44	0° Ω 02'44	0.67313 AU	retrograde	13864 Jun 16 11:47	23°521'54	
morning rise	13863 Jul 18 00:23	25°\$20'00		evening set	13864 Jun 20 13:54	21°5546'39	
direct	13863 Jul 23 23:27	22°5643'49		inferior conj	13864 Jun 25 20:12	15°9541'08	3°11'52
desc. node	13863 Jul 26 19:45	23°514'05		minimum elong	13864 Jun 25 20:10	15°5541'14	3°10'49
	13863 Aug 05 04:09	$0^{\circ}\Omega$		min. Earth dist.	13864 Jun 26 13:01	14°9543'19	0.68334 AU
morning max el	13863 Aug 05 06:21	0° Ω 05'33	25°31'28	morning rise	13864 Jul 01 02:07	9°520'05	
	13863 Aug 27 16:55	0° m p		direct	13864 Jul 06 13:38	6°955'20	
morning set	13863 Sep 10 05:25	22° Mp 44'40		desc. node	13864 Jul 12 17:04	9°515'42	
max. Earth dist.	13863 Sep 13 20:15	29° m 25'41	1.36041 AU	morning max el	13864 Jul 17 16:35	13°534'48	24°04'52
	13863 Sep 14 03:31	0∘ ত			13864 Jul 31 00:02	$0^{\circ}\Omega$	
					13864 Aug 19 13:12	0° m)	
superior conj	13863 Sep 19 23:30	11° ≏ 21'39	0°01'03	morning set	13864 Aug 22 01:35	4° m) 16'11	
minimum elong	13863 Sep 19 23:26	11° ≏ 21'19	0°01'08	max. Earth dist.	13864 Aug 25 18:22	10° Mp $44'08$	1.38331 AU
behind sun begin	13863 Sep 19 17:10	10° ≙ 50'01					
behind sun end	13863 Sep 20 05:42	11° ≏ 52'42		superior conj	13864 Sep 02 02:59	24° m 17'19	-0°32'41
asc. node	13863 Sep 19 20:48	11° ≙ 08'10		minimum elong	13864 Sep 02 05:16	24° m 28'12	0°32'29
evening rise	13863 Sep 27 22:31	27° ≏ 36'35			13864 Sep 05 02:11	0∘ ⊽	
	13863 Sep 29 02:39	0°M		asc. node	13864 Sep 05 17:23	1° ≙ 14'06	
evening max el	13863 Oct 15 15:36	26°M48'52	20°01'54	evening rise	13864 Sep 10 23:22	11° ≏ 34'28	
	13863 Oct 19 13:37	0° ∡ 7			13864 Sep 20 23:43	0°M₊	
desc. node	13863 Oct 22 15:53	1° ∡ 728′17		evening max el	13864 Sep 27 09:14	8°M24'20	19°01'30
retrograde	13863 Oct 26 02:50	2° ҂ 01'37		retrograde	13864 Oct 06 05:39	12°M50'43	
evening set	13863 Oct 28 03:09	1° ∡ 750′57		evening set	13864 Oct 08 02:27	12°MJ39'41	
	13863 Nov 02 06:53	30°RM		desc. node	13864 Oct 08 13:21	12°MJ33'46	
inferior conj	13863 Nov 06 00:30	27°M52'21	-4°16'45	inferior conj	13864 Oct 16 11:38	8°M24'29	-2°30'19
minimum elong	13863 Nov 05 14:32	28°M07'23	4°12'53	minimum elong	13864 Oct 16 05:16	8°M35'29	2°27'17
min. Earth dist.	13863 Nov 07 20:30	26°M45'59	0.54952 AU	min. Earth dist.	13864 Oct 19 08:25	6°M26'03	0.56289 AU
morning rise	13863 Nov 14 00:43	23°M43'08		morning rise	13864 Oct 24 05:12	3°M41'09	
direct	13863 Nov 18 20:21	22°M52'30		direct	13864 Oct 29 20:21	2°M26'50	
morning max el	13863 Dec 02 12:28	29°M37'37	24°18'38	morning max el	13864 Nov 12 23:34	9° M ₊41'05	25°59'45
	13863 Dec 02 21:48	0° ∡ 7			13864 Nov 28 07:51	0° ∡ ¹	

asc. node	13864 Dec 02 18:54	7° ∡ 750'55			13865 Nov 21 01:57	0° ∡ ¹	
morning set	13864 Dec 11 00:01	24° ∡ ¹22'21		morning set	13865 Nov 25 08:41	8° ∡ 750′23	
	13864 Dec 13 14:02	0°ප				_	
	120617 17 10 20	00717100	1005155	superior conj	13865 Dec 02 06:05	23° 🗷 59'48	1°33'32
superior conj	13864 Dec 17 18:29 13864 Dec 17 18:13	9°る17'30 9°る16'00	1°37'55 1°38'59	minimum elong max. Earth dist.	13865 Dec 02 04:50	23° 🖈 52'49 23° 🖈 52'44	1°34'30 1.31188 AU
minimum elong max. Earth dist.	13864 Dec 17 18:13 13864 Dec 18 20:33	9.201600 11。242,08	1.31595 AU	max. Earth dist.	13865 Dec 02 04:49 13865 Dec 04 22:38	23° x '3244	1.31188 AU
evening rise	13864 Dec 24 19:16	11 842 08 24° る 33'50	1.31393 AU	evening rise	13865 Dec 09 00:42	8° る 55'25	
evening rise	13864 Dec 27 10:51	0°≈		evening rise	13865 Dec 19 19:38	0°≈	
desc. node	13865 Jan 04 11:27	15° ≈ 03'38		desc. node	13865 Dec 22 08:22	4° ≈ 18'31	
	13865 Jan 13 22:01	0° ∀		evening max el	13866 Jan 08 00:19	26° ≈ 15'27	26°48'31
evening max el	13865 Jan 25 21:20	14° ∺ 22'16	27°27'34		13866 Jan 12 13:28	0° ∀	
retrograde	13865 Feb 08 19:51	21°) 42′16		retrograde	13866 Jan 21 23:25	3° ¥ 25'45	
evening set	13865 Feb 15 16:59	19°) 30′23		evening set	13866 Jan 28 14:40	1° ¥ 35′12	
min. Earth dist.	13865 Feb 19 11:27		0.61535 AU		13866 Jan 31 03:40	30°R≈	
inferior conj	13865 Feb 22 13:05	13° ¥ 51'13		min. Earth dist.	13866 Feb 01 14:16	28°≈56'53	0.59349 AU
minimum elong	13865 Feb 22 17:18	13°) (41'38	1°57'34	inferior conj	13866 Feb 04 18:47	26°≈26'18	
asc. node	13865 Feb 28 16:42	9°) 18'27 8°) 51'43		minimum elong	13866 Feb 05 02:09		3°20'33
morning rise direct	13865 Mar 01 20:35 13865 Mar 04 00:33	8° X 31'43 8° X 31'27		morning rise direct	13866 Feb 12 16:45 13866 Feb 14 17:31	21°≈47'40 21°≈32'31	
morning max el	13865 Mar 10 22:10	12° H 00'24	17°50'20	asc. node	13866 Feb 15 14:08	21°≈35'19	
morning max er	13865 Mar 23 00:53	0°Υ	17 30 20	morning max el	13866 Feb 22 10:42	25°≈22'07	18°12'35
morning set	13865 Mar 26 14:44	6° Υ 23'09		moning man er	13866 Feb 26 08:05	0° ∀	10 1230
desc. node	13865 Apr 02 13:29	18° Ƴ 45'10		morning set	13866 Mar 10 02:30	20° 米 14'09	
	-			_	13866 Mar 15 07:24	0° Y	
superior conj	13865 Apr 06 15:19	25° Ƴ 48'27					
minimum elong	13865 Apr 06 12:21	25° Ƴ 35'47	0°31'44	superior conj	13866 Mar 19 16:54	8° Y 03′05	0°05'45
	13865 Apr 09 02:44	0°8		minimum elong	13866 Mar 19 17:20	8° Y ′05′02	0°05'39
max. Earth dist.	13865 Apr 13 20:34	7° 8 50'23	1.43394 AU	behind sun begin	13866 Mar 19 10:15	7° Υ '33'04	
evening rise	13865 Apr 20 16:33	18° 8 43'46		behind sun end	13866 Mar 20 00:25	8° Ƴ 36'56 9° Ƴ 19'54	
	13865 Apr 28 01:13	0° © 0°∏		desc. node max. Earth dist.	13866 Mar 20 10:00 13866 Mar 27 07:42	9°γ′19′54 21° Υ 20′46	1.41430 AU
evening max el	13865 May 19 21:31 13865 May 22 07:31	2° 9 35'03	21°41'27	evening rise	13866 Apr 01 03:16	21 γ 2040 29° γ 19'11	1.41430 AU
asc. node	13865 May 27 13:32	6° 9 47'16	21 412/	evening rise	13866 Apr 01 13:20	0°8	
retrograde	13865 May 31 10:07	7° 9 54'47			13866 Apr 21 13:55	0°II	
evening set	13865 Jun 04 23:04	6°903'02		evening max el	13866 May 04 23:36	16° Ⅲ 25'54	23°01'01
inferior conj	13865 Jun 10 05:10	29° Ⅱ 46'49	3°05'53	asc. node	13866 May 14 10:45	22° II 26'20	
minimum elong	13865 Jun 10 04:12	29° Ⅱ 50′11	3°04'44	retrograde	13866 May 15 06:26	22° II 29'23	
	13865 Jun 10 01:23	30°Ŗ Ⅱ		evening set	13866 May 20 06:44	20° Ⅲ 22'38	
min. Earth dist.	13865 Jun 10 08:36	29° ∏ 34'49	0.68874 AU	min. Earth dist.	13866 May 25 05:22	14° Ⅱ 30'44	0.68932 AU
morning rise	13865 Jun 15 09:08	23° Ⅱ 31′26		inferior conj	13866 May 25 14:50	13° Ⅱ 57'55	2°49'25
direct	13865 Jun 20 08:02	21° II 23'36		minimum elong	13866 May 25 13:08	14° Ⅱ 03'48	2°48'08
desc. node morning max el	13865 Jun 29 14:16 13865 Jun 30 04:07	26° Ⅲ 37'40 27° Ⅲ 11'55	22025127	morning rise direct	13866 May 30 19:27 13866 Jun 04 05:34	7° Ⅱ 49'34 6° Ⅱ 01'41	
morning max er	13865 Jul 02 18:54	0°9	22 33 21	morning max el	13866 Jun 12 20:02	10° 耳 59'00	21°11'18
	13865 Jul 24 13:55	$0 {\circ} \Omega$		desc. node	13866 Jun 16 11:21	14° Ⅱ 58'49	21 11 10
morning set	13865 Aug 02 22:24	14° Ω 45'54			13866 Jun 27 16:50	0ංම 	
max. Earth dist.	13865 Aug 07 17:58	22° Ω 46′07	1.40683 AU	morning set	13866 Jul 13 18:36	24°511'44	
	13865 Aug 11 22:45	0° Mp			13866 Jul 17 10:38	$0^{\circ}\Omega$	
				max. Earth dist.	13866 Jul 20 23:09	5° Ω 41'01	1.42819 AU
superior conj	13865 Aug 15 14:09	6° Mp 28′06				_	
minimum elong	13865 Aug 15 19:18	6° Mp 51'17	1°07'43	superior conj	13866 Jul 28 04:30	17° Ω 43'21	
asc. node	13865 Aug 23 13:59	21° mp 14'58		minimum elong	13866 Jul 28 11:42	18° Ω 14'07	1°40'51
evening rise	13865 Aug 25 15:12	25°№07'06 0° <u>മ</u>		ovenina rice	13866 Aug 04 05:44	0° т у 8° т у03'05	
evening max el	13865 Aug 28 05:32 13865 Sep 10 13:53	0 <u>≈</u> 20° ≏ 44'38	18°22'49	evening rise asc. node	13866 Aug 08 17:47 13866 Aug 10 10:35	11°Mp06'16	
retrograde	13865 Sep 18 03:58	20° ⊆ 44°38 24° ⊆ 35'20	10 22 49	asc. nouc	13866 Aug 21 22:13	0∘ ⊽	
evening set	13865 Sep 20 05:13	24° ⊆ 19'11		evening max el	13866 Aug 25 01:16	ა _ 3° ჲ 39'14	18°04'30
desc. node	13865 Sep 25 10:52	21° Ω 34'57		retrograde	13866 Aug 31 19:53	7° ≙ 07'49	- *
inferior conj	13865 Sep 27 20:25	19° ≏ 42'57	-0°45'30	evening set	13866 Sep 03 04:29	6° ₽ 42'42	
minimum elong	13865 Sep 27 18:41	19° ≏ 46'27	0°44'34	inferior conj	13866 Sep 10 01:56	1° ≏ 46'13	0°41'25
min. Earth dist.	13865 Oct 01 03:02	17° ≏ 04'46	0.58234 AU	minimum elong	13866 Sep 10 03:12	1° ≏ 43'14	0°40'51
morning rise	13865 Oct 05 04:42	14° ≙ 22'29			13866 Sep 11 22:53	30°R, Mp	
direct	13865 Oct 11 10:14	12° Ω 41'20	0.001.000	desc. node	13866 Sep 12 08:24	29° m 37'49	0.60.402 :==
morning max el	13865 Oct 25 17:44		27°15'10	min. Earth dist.	13866 Sep 13 06:26	28° Mp 47'35	0.60482 AU
asa nada	13865 Nov 03 02:09	0°ጤ 27°ጤ11'50		morning rise	13866 Sep 16 22:51	25° M 55'19	
asc. node	13865 Nov 19 15:47	4/ IIG1130		direct	13866 Sep 23 12:50	23° Mp 48'09	

	13866 Oct 06 00:24	0० ⊽		morning max el	13867 Sep 20 03:10	13° m 50'41	27°53'51
morning max el	13866 Oct 07 19:38	1° ≙ 41'57	27°54'01	C	13867 Oct 03 04:05	0∘ ⊽	
	13866 Oct 28 10:17	0°M₊			13867 Oct 20 23:15	0° M	
asc. node	13866 Nov 06 12:34	16°M52'14		morning set	13867 Oct 24 10:40	6°M53'17	
morning set	13866 Nov 09 12:57	23°ML02'25		asc. node	13867 Oct 24 09:16	6°M46'11	
	13866 Nov 12 19:17	0° ∡ ¹		max. Earth dist.	13867 Oct 29 15:25	17° M 46'44	1.31953 AU
max. Earth dist.	13866 Nov 15 12:24	5° ∡ 757'25	1.31302 AU				
				superior conj	13867 Nov 01 01:41	23°ML03'13	1°07'25
superior conj	13866 Nov 16 17:06	8° ∡ ³36'45	1°23'21	minimum elong	13867 Oct 31 23:23	22°M50'43	1°07'50
minimum elong	13866 Nov 16 15:08	8° ∡ ¹25'47	1°24'04		13867 Nov 04 05:29	0° ∡ ¹	
evening rise	13866 Nov 23 09:47	23° ∡ "24′19		evening rise	13867 Nov 07 20:40	7° ∡ ¹55'59	
	13866 Nov 26 12:41	0°ಕ			13867 Nov 19 03:52	0°ප	
desc. node	13866 Dec 09 05:21	22° る 52'01		desc. node	13867 Nov 26 02:27	10° る 28'47	
	13866 Dec 14 07:27	0° ≈		evening max el	13867 Dec 02 06:15	17° る 30'59	24°01'06
evening max el	13866 Dec 20 18:52	7° ≈ 15'01	25°36'30	retrograde	13867 Dec 15 20:20	24° る 16'43	
retrograde	13867 Jan 03 16:12	14° ≈ 15′10		evening set	13867 Dec 20 17:44	23° る 24'31	
evening set	13867 Jan 09 15:58	12°≈52'29		min. Earth dist.	13867 Dec 26 17:33	20°る27'14	0.55613 AU
min. Earth dist.	13867 Jan 14 07:22	10°≈13'51	0.57278 AU	inferior conj	13867 Dec 28 18:10	19°る13'54	
inferior conj	13867 Jan 17 04:50	8°≈15'15		minimum elong	13867 Dec 28 23:50	19° ろ 05'20	5°41'41
minimum elong	13867 Jan 17 13:44	8°≈00'01	4°41'32	morning rise	13868 Jan 06 07:46	15° ろ 16'41	
morning rise	13867 Jan 25 14:13	3°≈58'52		direct	13868 Jan 08 20:44	15° ろ 00'13	20001142
direct	13867 Jan 27 16:55	3°≈45'17		morning max el	13868 Jan 19 06:49 13868 Jan 20 08:50	20°る00'38 21°る06'24	20°01'42
asc. node	13867 Feb 02 11:30	5°≈34'05 8°≈05'55	18°55'47	asc. node	13868 Jan 20 08:50 13868 Jan 27 00:21	21° 5 06′24 0° ≈	
morning max el	13867 Feb 05 14:55 13867 Feb 19 16:55	8 ≈03 33 0° H	18 33 47	morning set	13868 Feb 06 05:59	0 ≈ 19°≈07'04	
morning set	13867 Feb 19 10:33 13867 Feb 22 00:46	4° ∺ 32'17		morning set	13868 Feb 11 13:47	19 ≈ 07 04 0°) €	
morning set	13807 Feb 22 00.40	4 八 3217			13000 FCU 11 13.47	0 A	
superior conj	13867 Mar 02 13:15	21°) €08'50	0°37'47	superior conj	13868 Feb 13 23:49	4°) 52′30	1°03'00
minimum elong	13867 Mar 02 15:31	21°) 19'32	0°37'40	minimum elong	13868 Feb 14 02:33	5° ¥ 06′07	1°03'09
desc. node	13867 Mar 07 06:30	29° ¥ 55'35		max. Earth dist.	13868 Feb 19 20:53	16° ¥ 17'15	1.36962 AU
	13867 Mar 07 07:29	0° Y		desc. node	13868 Feb 22 03:00	20°) 28′19	
max. Earth dist.	13867 Mar 09 14:32	4° Υ 07'10	1.39201 AU	evening rise	13868 Feb 23 14:54	23° ∺ 11'12	
evening rise	13867 Mar 13 11:09	10° Y ′50′03			13868 Feb 27 11:56	0° Υ	
	13867 Mar 25 09:06	0° 8			13868 Mar 18 03:00	0°8	
	13867 Apr 17 06:01	Π °0		evening max el	13868 Mar 30 02:52	14° 8 10'54	25°36'54
evening max el	13867 Apr 17 13:23	0°Ⅱ18'24	24°21'49	retrograde	13868 Apr 11 12:07	21° 8 19'34	
retrograde	13867 Apr 28 23:29	7° Ⅱ 00'03		evening set	13868 Apr 17 11:15	18° 8 51'42	
asc. node	13867 May 01 08:02	6° Ⅱ 35'32		asc. node	13868 Apr 17 05:23	19° 8 03'47	
evening set	13867 May 04 11:21	4° Ⅱ 40'55		min. Earth dist.	13868 Apr 21 18:08	14° 8 11'44	
i. Danda diad	13867 May 08 14:50	30°R8	0.69510.411	inferior conj	13868 Apr 23 04:41	12° 8 21'13	1°45'34
min. Earth dist.	13867 May 09 01:16 13867 May 09 23:19	29° 8 25'17	0.68519 AU	minimum elong	13868 Apr 23 02:36	12° 8 27'51	1°44'17
inferior conj	,	28° 8 11'03 28° 8 18'09	2°22'45 2°21'23	morning rise direct	13868 Apr 28 18:29	6° 8 30'25 5° 8 22'50	
minimum elong morning rise	13867 May 09 21:13 13867 May 15 07:12	28 8 18 09 22° 8 10'47	2 21 23	morning max el	13868 May 02 04:52 13868 May 09 00:49	9° 8 05'14	19°00'14
direct	13867 May 19 05:00	20° 8 43'34		desc. node	13868 May 20 05:08	23° 8 38'58	19 00 14
morning max el	13867 May 26 18:43	24° 8 57'36	19°58'25	greatest brilliancy	13868 May 22 06:26	26° 8 43'15	-0.7m
morning max cr	13867 May 31 05:42	0°Ⅱ	17 30 23	greatest orimaney	13868 May 24 10:21	0°Ⅱ	0.7111
desc. node	13867 Jun 03 08:19	4° Ⅱ 03'21		morning set	13868 Jun 01 04:08	11° Ⅱ 54'51	
	13867 Jun 20 23:56	0ంత			13868 Jun 12 19:30	0ంతె	
morning set	13867 Jun 22 22:05	2° 9 56'58		max. Earth dist.	13868 Jun 15 03:17	3°538'06	1.45547 AU
max. Earth dist.	13867 Jul 03 10:35	19° © 22'38	1.44498 AU				
				superior conj	13868 Jun 17 12:45	7° © 23'35	-2°13'38
superior conj	13867 Jul 08 19:14	27°959'01	-2°05'06	minimum elong	13868 Jun 17 12:18	7° 5 21'49	2°14'41
minimum elong	13867 Jul 09 01:08	28°523'00	2°05'46		13868 Jul 01 16:17	$0^{\circ}\Omega$	
_	13867 Jul 10 00:57	$0^{\circ}\Omega$		evening rise	13868 Jul 02 11:26	1° Ω 17'46	
evening rise	13867 Jul 22 02:10	20° Ω 10'31		asc. node	13868 Jul 14 03:59	20° Ω 01'38	
	13867 Jul 27 20:48	0° m)			13868 Jul 21 15:35	0° m	
asc. node	13867 Jul 28 07:15	0°Mp43'51		evening max el	13868 Jul 22 05:24	0° m 35'15	18°24'07
evening max el	13867 Aug 08 15:34	16° m 59'05	18°05'14	retrograde	13868 Jul 28 15:15	4° m 00'58	
retrograde	13867 Aug 15 01:04	20° m 19'29		evening set	13868 Jul 31 16:53	3°Mp08'39	
evening set	13867 Aug 17 17:59	19° m 42'01			13868 Aug 04 10:23	30° ₽ Ω	
inferior conj	13867 Aug 24 00:37	14° m 27'23	1°46'12	inferior conj	13868 Aug 06 12:21	27° Ω 37'48	
minimum elong	13867 Aug 24 03:01	14° m) 20'57	1°45'05	minimum elong	13868 Aug 06 14:39	27° Ω 30'58	2°29'22
min. Earth dist.	13867 Aug 26 19:32	11° m, 29'51	0.62751 AU	min. Earth dist.	13868 Aug 08 17:55	25° Ω 00'06	0.64814 AU
morning rise	13867 Aug 30 09:52	8° Mp 16'37		morning rise	13868 Aug 12 11:07	21°Ω16'41	
desc. node	13867 Aug 30 05:55	8° Mp 23'59		desc. node	13868 Aug 16 03:24	19° Ω 07'45	
direct	13867 Sep 06 02:04	5° m)49'16		direct	13868 Aug 18 23:54	18° Ω 38'30	

	120(0.0 01 12.2(260 025122	27010144		12060 1 1 26 22 51	40 0 4515 4	
morning max el	13868 Sep 01 13:36	26° Ω 35'22	2/~18'44	morning rise	13869 Jul 26 23:51	4°Ω45'54	
	13868 Sep 04 17:54	0° m)		direct	13869 Aug 02 04:47	2°Ω06'40	
	13868 Sep 25 18:57	0∘ ⊽		desc. node	13869 Aug 03 00:51	2° Ω 09'15	26016117
morning set	13868 Oct 06 23:15	20° Ω 16'36		morning max el	13869 Aug 15 00:44	9° Ω 44'57	26°16'17
asc. node	13868 Oct 10 05:55	26° △ 48'41			13869 Aug 31 00:30	0° m/y	
max. Earth dist.	13868 Oct 11 10:29	29° ≙ 14'56	1.33148 AU		13869 Sep 18 07:31	0∘ ʊ	
	13868 Oct 11 19:13	0° M		morning set	13869 Sep 19 23:24	3° ≏ 04'08	
				max. Earth dist.	13869 Sep 23 19:47	10° ≏ 24'41	1.34863 AU
superior conj	13868 Oct 15 05:44	7° ™ 13'39		asc. node	13869 Sep 27 02:29	16° ≏ 55'12	
minimum elong	13868 Oct 15 03:42	7° ™ 02'49	0°45'59			_	
evening rise	13868 Oct 22 07:31	22°M25'46		superior conj	13869 Sep 29 02:45	21° ⊆ 00'55	
	13868 Oct 25 22:38	0° ∡ 7		minimum elong	13869 Sep 29 01:43	20° Ω 55'36	0°18'53
desc. node	13868 Nov 11 23:40	26° ∡ °48'14			13869 Oct 03 10:25	0° M	
evening max el	13868 Nov 12 17:06	27° ∡ ³31'55	22°18'55	evening rise	13869 Oct 06 16:22	6° ™ 48'00	
	13868 Nov 15 12:50	0°る			13869 Oct 19 05:02	0° ∡ 7	
retrograde	13868 Nov 25 11:56	3° ප 52'01		evening max el	13869 Oct 25 12:38	7° ∡ ′53′13	20°46'26
evening set	13868 Nov 29 00:23	3° る 24'47		desc. node	13869 Oct 29 21:01	11° ∡ ²23'45	
	13868 Dec 06 17:19	30°Ŗ ⋌ ¹		retrograde	13869 Nov 05 22:22	13° ∡ ³33′25	
min. Earth dist.	13868 Dec 07 00:01		0.54645 AU	evening set	13869 Nov 08 07:37	13° ∡ 19'38	
inferior conj	13868 Dec 07 14:57	29° ₹ 29'39		inferior conj	13869 Nov 17 06:20	9° ∡ ¹25'41	
minimum elong	13868 Dec 07 12:07	29° ∡ ³33'38	5°54'07	minimum elong	13869 Nov 16 20:48	9° ∡ ³39'19 −	
morning rise	13868 Dec 16 00:57	25° ∡ '42'23		min. Earth dist.	13869 Nov 18 06:04	8° ∡ ′51'43	0.54573 AU
direct	13868 Dec 19 09:18	25° ∡ 17'13		morning rise	13869 Nov 25 10:04	5° ∡ ³30'47	
	13868 Dec 30 05:23	0°ಕ		direct	13869 Nov 29 17:10	4° ∡ 751′16	
morning max el	13868 Dec 31 08:07	1° る 00'42	21°30'12	morning max el	13869 Dec 12 21:27		23°15'39
asc. node	13869 Jan 06 06:05	7° る 55'40		asc. node	13869 Dec 24 03:15	25° ∡ '43'46	
	13869 Jan 18 18:57	0° ≈			13869 Dec 26 16:03	0°る	
morning set	13869 Jan 20 15:31	3° ≈ 51′05		morning set	13870 Jan 05 03:08	18° る 37'03	
					13870 Jan 10 09:32	0° ≈	
superior conj	13869 Jan 27 20:45	19° ≈ 03'40			12050 1 12 00 10	20 2011	1000100
minimum elong	13869 Jan 27 23:04	19°≈15'45	1°21'42	superior conj	13870 Jan 12 00:48	3°≈32'17	1°32'39
max. Earth dist.	13869 Feb 01 08:00	28°≈11'13	1.34938 AU	minimum elong	13870 Jan 12 02:14	3°≈40'00	1°33'30
	13869 Feb 02 05:56	0°) {		max. Earth dist.	13870 Jan 15 02:30	10°≈04'37	1.33275 AU
evening rise	13869 Feb 05 11:17	6°) €13'53		evening rise	13870 Jan 19 20:38	19° ≈ 47'45	
desc. node	13869 Feb 07 23:34	10° ¥ 54'33 0° Ƴ		1 1	13870 Jan 25 05:04	0°) {	
	13869 Feb 19 05:49	0° γ 27° Υ 57'52	26929142	desc. node	13870 Jan 25 20:13	1° 米 09'01 0° Ƴ	
evening max el	13869 Mar 12 16:45 13869 Mar 14 21:51	0° 8	20 38 42	avanina may al	13870 Feb 13 06:53 13870 Feb 23 06:07	0 1 11° Υ 28'18	27910/50
ratragrada	13869 Mar 25 19:14	5° 8 21'10		evening max el	13870 Mar 08 20:05	18° Y 56'08	27 19 39
retrograde evening set	13869 Apr 01 04:40	2° 8 49'11		retrograde evening set	13870 Mar 15 13:31	16° Υ 25'54	
asc. node	13869 Apr 04 02:48	0° 8 00'26		min. Earth dist.	13870 Mar 19 10:10	12° Υ 52'43	0.64734 AU
asc. node	13869 Apr 04 02:58	30°RΥ		inferior conj	13870 Mar 21 21:10	10°Υ12'38	
min. Earth dist.	13869 Apr 05 05:50	28° Y '43'43	0.66390 AU	minimum elong	13870 Mar 21 21:14	10°Υ12'26	
inferior conj	13869 Apr 07 04:48	26°\bar{Y}23'56	0°57'21	transit middle	13870 Mar 21 21:14	10°Υ12'26	0°02'33
minimum elong	13869 Apr 07 03:23	26° Υ 28'07	0°56'28	transit begin	13870 Mar 21 18:13	10°Υ20'40	0 02 33
morning rise	13869 Apr 13 03:13	20° Υ '44'19	0 30 20	transit end	13870 Mar 22 00:16	10° Υ '04'12	
direct	13869 Apr 16 03:14	19° Y ′54'10		asc. node	13870 Mar 22 00:10	10° Υ '04'09	
morning max el	13869 Apr 22 13:17	23° Y 17'40	18°18'26	morning rise	13870 Mar 28 06:50	4° Υ 46'39	
morning max or	13869 Apr 28 02:17	0°8	10 10 20	direct	13870 Mar 30 21:44	4°Υ10'55	
desc. node	13869 May 07 01:53	13° 8 37'21		morning max el	13870 Apr 06 05:54	7° Υ 27'43	17°53'41
morning set	13869 May 12 08:05	21° 8 59'16		morning man er	13870 Apr 21 14:46	0°8	1, 00 .1
morning sec	13869 May 17 09:04	0°II		morning set	13870 Apr 23 16:19	3° 8 26'00	
		-		desc. node	13870 Apr 23 22:32	3° 8 51'52	
superior conj	13869 May 27 20:40	16° Ⅱ 28'58	-2°02'03		1	_	
minimum elong	13869 May 27 13:11	15° Ⅱ 59'45	2°02'37	superior conj	13870 May 07 12:34	26° 8 01'44	-1°33'03
max. Earth dist.	13869 May 28 23:11		1.45869 AU	minimum elong	13870 May 07 03:46	25° 8 26'39	1°32'55
	13869 Jun 05 12:41	0ಂತಾ		3	13870 May 10 00:37	Π °0	
evening rise	13869 Jun 12 20:15	11° © 25'06		max. Earth dist.	13870 May 11 19:23	2° Ⅱ 48'35	1.45435 AU
greatest brilliancy	13869 Jun 23 05:34	27° © 33'37	-0.8m	evening rise	13870 May 23 11:14	20° Ⅱ 53'29	
· ·	13869 Jun 24 20:09	0 ° Ω		-	13870 May 29 10:40	0ಂತಾ	
asc. node	13869 Jul 01 00:49	8° £ 52'30		greatest brilliancy	13870 Jun 07 02:38	12° © 54'53	-0.6m
evening max el	13869 Jul 05 16:02	14° Ω 20′20	19°00'19	asc. node	13870 Jun 17 21:46	27° © 07'19	
retrograde	13869 Jul 12 10:59	18° Ω 04'43		evening max el	13870 Jun 18 21:30	28° © 09'02	19°52'35
evening set	13869 Jul 15 21:41	16° Ω 55'58		-	13870 Jun 20 22:20	0 ° Ω	
inferior conj	13869 Jul 21 09:34	11° Ω 10′23	2°57'37	retrograde	13870 Jun 26 09:28	2° Ω 24'16	
minimum elong	13869 Jul 21 11:07	11° Ω 05′24	2°56'31	evening set	13870 Jun 30 05:47	0° Ω 58'34	
min. Earth dist.	13869 Jul 23 00:35	9° N 06'00	0.66524 AU		13870 Jul 01 09:23	30° ₹ 5	

	12070 1 1 05 12 16	240650142	2010117		12071 1 10 00 27	1.60653131	
inferior conj	13870 Jul 05 13:16	24°959'43	3°10'17	retrograde	13871 Jun 10 08:27	16°953'21	
minimum elong	13870 Jul 05 13:49	24°957'49	3°09'14	evening set	13871 Jun 14 15:02	15°©10'56	
min. Earth dist.	13870 Jul 06 13:57	23° © 36'32	0.67799 AU	inferior conj	13871 Jun 19 20:55	9° © 00'24	3°10'41
morning rise	13870 Jul 10 21:29	18° © 36'27		minimum elong	13871 Jun 19 20:29	9° © 01'57	3°09'36
direct	13870 Jul 16 15:43	16° © 04'39		min. Earth dist.	13871 Jun 20 07:57	8°922'08	0.68611 AU
desc. node	13870 Jul 20 22:14	17°©12'42		morning rise	13871 Jun 25 01:40	2° © 41'23	
morning max el	13870 Jul 28 11:26	23° © 09'44	24°55'45	direct	13871 Jun 30 07:46	0° 5 23'26	
	13870 Aug 03 12:37	0 $^{\circ}$ Ω		desc. node	13871 Jul 07 19:30	3° © 50'55	
	13870 Aug 24 08:37	0° m y		morning max el	13871 Jul 10 22:02	6° 5 342'31	23°26'46
morning set	13870 Sep 02 07:11	15° Mp 07′02			13871 Jul 29 00:29	$0^{\circ}\Omega$	
max. Earth dist.	13870 Sep 05 20:55	21° m 33'43	1.36988 AU	morning set	13871 Aug 14 17:52	26° Ω 13'13	
	13870 Sep 10 08:35	0∘ ऌ			13871 Aug 16 23:23	0° m ∕	
				max. Earth dist.	13871 Aug 18 18:41	3°M)06'51	1.39331 AU
superior conj	13870 Sep 12 13:43	4° £ 17'59	-0°12'53				
minimum elong	13870 Sep 12 14:33	4° £ 22'04	0°12'45	superior conj	13871 Aug 26 10:44	16° m 55'03	-0°47'39
behind sun begin	13870 Sep 12 10:29	4° ≙ 02'10		minimum elong	13871 Aug 26 14:13	17° Mp 11'16	0°47'24
behind sun end	13870 Sep 12 18:36	4° £ 41'59		asc. node	13871 Aug 31 19:37	27° m/06'11	
asc. node	13870 Sep 13 23:04	7° ഫ 02'27			13871 Sep 02 07:36	0∘ ⊽	
evening rise	13870 Sep 20 20:59	20° ♀ 57'12		evening rise	13871 Sep 04 18:25	4° Ω 45'03	
* · · · · · · · · · · · · · · · · · · ·	13870 Sep 25 10:50	0°M		* · · · · · · · · · · · · · · · · · · ·	13871 Sep 19 24:00	0°M	
evening max el	13870 Oct 07 22:15	18°ML59'53	19°33'27	evening max el	13871 Sep 20 21:01	0°M55'04	18°42'31
desc. node	13870 Oct 16 18:25	23°ML50'12	17 33 27	retrograde	13871 Sep 29 03:30	5°M04'53	10 1231
retrograde	13870 Oct 10 16:23	23°M52'43		evening set	13871 Oct 01 01:24	4°M52'18	
evening set	13870 Oct 17 10:32 13870 Oct 19 13:48	23°M42'34		desc. node	13871 Oct 01 01:24 13871 Oct 03 15:54	3°M58'07	
•		19°MJ37'27	2022100				194424
inferior conj	13870 Oct 28 07:09			inferior conj	13871 Oct 09 03:16	0°M28'36	
minimum elong	13870 Oct 27 22:16	19°M51'35		minimum elong	13871 Oct 08 22:59	0°M36'33	1-42-15
min. Earth dist.	13870 Oct 30 15:15	18°M08'16	0.55428 AU	i Datii	13871 Oct 09 18:39	30°R <u>Ω</u>	0.57055.444
morning rise	13870 Nov 05 04:46	15°M14'47		min. Earth dist.	13871 Oct 12 06:02	28° £ 10'58	0.57055 AU
direct	13870 Nov 10 08:53	14°M15'02		morning rise	13871 Oct 16 17:10	25° Ω 28'43	
morning max el	13870 Nov 24 07:12		25°03'44	direct	13871 Oct 22 15:02	24° ₾ 03'03	
	13870 Dec 01 21:51	0° ∡ ¹			13871 Nov 04 06:33	0° ™	
asc. node	13870 Dec 11 00:20	14° ∡ 16'32		morning max el	13871 Nov 05 21:05	1°M28'42	26°35'44
	13870 Dec 19 01:26	0°ಕ			13871 Nov 26 01:50	0° ∡ ¹	
morning set	13870 Dec 20 14:59	3° る 19'44		asc. node	13871 Nov 27 21:17	3° ≯ 22'15	
				morning set	13871 Dec 05 01:18	17° ∡ 754'16	
superior conj	13870 Dec 27 09:28	18° る 11'12			13871 Dec 10 13:22	0°ප	
minimum elong	13870 Dec 27 09:49	18° る 13'09	1°38'47				
max. Earth dist.	13870 Dec 29 04:12	22° る 05'41	1.32065 AU	superior conj	13871 Dec 11 20:32	2° る 53'58	1°36'47
	13871 Jan 01 20:33	0° ≈		minimum elong	13871 Dec 11 19:50	2°る50'01	1°37'49
evening rise	13871 Jan 03 15:49	3° ≈ 45'12		max. Earth dist.	13871 Dec 12 10:49	4° る 13'36	1.31355 AU
desc. node	13871 Jan 12 16:56	21° ≈ 06′15		evening rise	13871 Dec 18 18:10	17° る 59'38	
	13871 Jan 17 23:02	0° ∀			13871 Dec 24 16:50	0° ≈	
evening max el	13871 Feb 05 17:18	24°) € 30′14	27°33'56	desc. node	13871 Dec 30 13:46	10° ≈ 39'13	
	13871 Feb 12 22:03	$0^{\circ}\mathbf{\Upsilon}$			13872 Jan 12 17:08	0°) €	
retrograde	13871 Feb 19 13:52	1° Y ′55'13		evening max el	13872 Jan 19 00:02	6° ¥ 51'55	27°15'13
	13871 Feb 25 19:15	30° ₹		retrograde	13872 Feb 01 23:29	14° ¥ 08'52	
evening set	13871 Feb 26 11:18	29°) 33′59		evening set	13872 Feb 08 18:58	12° ¥ 05′02	
min. Earth dist.	13871 Mar 02 05:25	26° ¥ 28'40	0.62765 AU	min. Earth dist.	13872 Feb 12 14:35	9° ¥ 19'47	0.60602 AU
inferior conj	13871 Mar 05 02:50	23°) 40′09		inferior conj	13872 Feb 15 18:25	6°) € 37'49	
minimum elong	13871 Mar 05 05:19	23°) (34′07		minimum elong	13872 Feb 16 00:00	6° ¥ 25'49	
asc. node	13871 Mar 08 21:47	20°) 17'55		morning rise	13872 Feb 23 08:15	1°) (47'05	
morning rise	13871 Mar 12 02:00	18° ¥ 30′25		asc. node	13872 Feb 23 19:15	1°) (40'17	
direct	13871 Mar 14 09:16	18° ¥ 05'39		direct	13872 Feb 25 10:13	1° H 29'34	
morning max el	13871 Mar 20 23:41	21° H 27'06	17946'21	morning max el	13872 Mar 03 15:15	5° ¥ 06'16	17°57'20
morning max ci	13871 Mar 27 13:14	0° Υ	17 40 21	morning set	13872 Mar 19 05:04	29° ¥ 32'43	17 37 20
morning set	13871 Apr 06 01:20	16° Υ 03'10		morning set	13872 Mar 19 11:01	29 γ (3243	
desc. node	•	24° Υ 17'26		desc. node		14° Υ ′50'07	
desc. node	13871 Apr 10 19:07			desc. node	13872 Mar 27 15:39	14 1 30 0 /	
	13871 Apr 14 03:13	0° 8			12072) (20 14 07	1000014120	001.510.4
	12071 4 10 01 1	C0 40 1100	0054140	superior conj	13872 Mar 29 14:07	18° Y 14'30	
superior conj	13871 Apr 18 01:16	6° 8 34'29		minimum elong	13872 Mar 29 12:46	18°Υ08'38	0°15'24
minimum elong	13871 Apr 17 19:52	6° 8 12'03		behind sun begin	13872 Mar 29 10:36	17° Y 59'09	
max. Earth dist.	13871 Apr 24 12:59	17° 8 08'46	1.44305 AU	behind sun end	13872 Mar 29 14:56	18° Y 18′06	
evening rise	13871 May 02 23:00	0° Ⅱ 21'33		_	13872 Apr 05 11:55	0°8	
	13871 May 02 17:25	0°Щ		max. Earth dist.	13872 Apr 06 02:17	0° 8 59'26	1.42603 AU
	13871 May 23 02:35	0 \circ		evening rise	13872 Apr 11 22:50	10° 8 27'32	
evening max el	13871 Jun 01 21:00	11° © 58'03	20°58'41		13872 Apr 24 19:02	0 ° Π	
asc. node	13871 Jun 04 18:49	14° © 33'38		evening max el	13872 May 14 15:21	25° Ⅱ 48'14	22°14'47

	12072 M 10 17 54	000			12072 M 20 01 21	,,, U	
1	13872 May 19 17:54	0°©			13873 Mar 29 01:21	0° Ⅱ	
asc. node	13872 May 21 15:58 13872 May 24 06:07	0°956'48			13873 Apr 18 21:10	0°Щ 9°Щ40'18	22925129
retrograde	,	1°927'16		evening max el	13873 Apr 27 06:23	9°Щ40°18 16°Щ00'28	23°35'38
. ,	13872 May 28 08:02	30°RⅡ 29°Ⅱ29'08		retrograde	13873 May 08 01:04		
evening set	13872 May 28 23:43	29°Щ29'08 23°Щ08'56	3°00'09	asc. node	13873 May 08 13:12	15° Ⅲ 59'19 13° Ⅱ 48'19	
inferior conj	13872 Jun 03 06:26			evening set	13873 May 13 06:15	13°Щ48'19 8° Ц 11'48	0.60021 ATT
minimum elong min. Earth dist.	13872 Jun 03 05:07 13872 Jun 03 04:24	23° Ⅱ 13'30 23° Ⅱ 16'01	2°58'57 0.68954 AU	min. Earth dist.	13873 May 18 01:03	8°Щ11'48 7°Щ21'10	0.68821 AU
morning rise	13872 Jun 08 10:20	25 Ⅲ 1601 16° Ⅲ 56'07	0.08934 AU	inferior conj minimum elong	13873 May 18 15:49 13873 May 18 13:54	7° Ⅲ 21′10 7° Ⅲ 27′45	
direct	13872 Jun 13 03:46	16 Д 3607 14° Д 56'24		morning rise	•	7 П 2743 1° П 16'02	2 3801
morning max el	13872 Jun 22 10:56	14 П 36 24 20° П 22'57	21°58'31	morning rise	13873 May 23 21:30 13873 May 26 01:03	30°R 8	
desc. node	13872 Jun 23 16:39	20 H 22 37 21° H 40'00	21 3631	direct	13873 May 28 02:24	29° 8 36'42	
desc. flode	13872 Jun 30 14:30	0°95		direct	13873 May 30 06:03	0°Ⅱ	
	13872 Jul 21 05:16	0° U		morning max el	13873 Jun 05 05:21	0 <u>П</u> 4° П 14'00	20°38'33
morning set	13872 Jul 25 03:53	6° Ω 14'10		desc. node	13873 Jun 10 13:40	10° I I20′50	20 38 33
max. Earth dist.	13872 Jul 30 19:36	$15^{\circ}\Omega 27'50$	1.41631 AU	desc. Hode	13873 Jun 24 13:38	0°95	
max. Lartii dist.	13672 Jul 30 17.30	13 6627 30	1.41031 AC	morning set	13873 Jul 04 15:09	15° © 17'00	
superior conj	13872 Aug 07 13:29	28° Ω 42'39	-1°22'33	max. Earth dist.	13873 Jul 13 03:37	28°9544'10	1.43606 AU
minimum elong	13872 Aug 07 13:29 13872 Aug 07 19:43	$29^{\circ}\Omega 10'07$		max. Earm dist.	13873 Jul 13 03:37	0°Ω	1.43000 AC
minimum ciong	13872 Aug 07 19.43 13872 Aug 08 07:02	0° m	1 22 21		136/3 Jul 13 22.23	0 06	
asc. node	13872 Aug 08 07:02 13872 Aug 17 16:11	17° Mp 02'52		superior conj	13873 Jul 19 17:56	9° Ω 32'31	-1°52'37
evening rise	13872 Aug 17 10:11 13872 Aug 18 05:05	18° m) 02'30		minimum elong	13873 Jul 20 01:10	10°Ω02'43	
evening rise	13872 Aug 18 03:03	18 11 y 02 30		minimum ciong	13873 Jul 20 01:10	0° m)	1 32 32
evening max el	13872 Sep 03 05:04	0 = 13° £ 30'56	18°12'43	evening rise	13873 Aug 01 00:30	0° Mp 38'47	
retrograde	13872 Sep 10 09:26	17° ⊆ 10'08	10 12 43	asc. node	13873 Aug 01 00:30	6° Mp 48'38	
evening set	13872 Sep 10 03:20	16° ⊆ 50'35		evening max el	13873 Aug 04 12:48	26° m) 37'20	18°02'36
inferior conj	13872 Sep 12 13:41 13872 Sep 19 21:07	10 ⊆ 30 33	0°06'01	evening max ci	13873 Aug 17 18:09	ე∘ <u>ი</u>	18 02 30
minimum elong	13872 Sep 19 21:07 13872 Sep 19 20:54	12 ≗ 05 30 12° ≗ 06'17	0°05'49	retrograde	13873 Aug 24 07:29	0° ₽ 00′29	
transit middle	13872 Sep 19 20:54	12 ⊆ 00 17 12° ⊆ 06'17	0°05'49	renograde	13873 Aug 24 07:29	30°R, Mb	
transit begin	13872 Sep 19 20:34 13872 Sep 19 17:42	12 ⊆ 00 17 12° ⊆ 13'11	0 03 49	evening set	13873 Aug 24 13:03	29° Mg 30'18	
transit degiii	13872 Sep 19 17.42 13872 Sep 20 00:06	12 ⊆ 13 11 11° ⊆ 59'22		inferior conj	13873 Sep 02 10:23		1°11'34
desc. node	13872 Sep 20 00:00 13872 Sep 19 13:25	11 <u>□</u> 3922 12° <u>□</u> 22'26		minimum elong	13873 Sep 02 10:23	24° m) 20'51	1°10'41
min. Earth dist.	13872 Sep 19 13:23 13872 Sep 23 04:14	9° ₽ 16'09	0.59172 AU	min. Earth dist.	13873 Sep 02 12:20 13873 Sep 05 11:26	21° m ₂ 25'15	0.61459 AU
morning rise	13872 Sep 27 00:44	6° £ 31'27	0.39172 AU	desc. node	13873 Sep 05 11:20	20° m/31'09	0.01439 AU
direct	13872 Oct 03 10:54	4° এ 38'25		morning rise	13873 Sep 00 10.33	18° My 25'25	
morning max el	13872 Oct 03 10:34 13872 Oct 17 18:21	12° £ 23'36	27036127	direct	13873 Sep 09 02:18 13873 Sep 15 18:05	16° Mp 08'51	
morning max ci	13872 Oct 17 18:21 13872 Oct 31 15:57	0°M₁	21 3021	morning max el	13873 Sep 13 18:03	24° Mp 06'15	27°58'44
asc. node	13872 Nov 13 18:06	22°M51'55		morning max cr	13873 Oct 05 06:48	ე∘ <u>ი</u>	27 30 44
asc. Houc	13872 Nov 17 06:29	0° √			13873 Oct 05 00:48	0° ™	
morning set	13872 Nov 17 00:29	2° × 15'38		asc. node	13873 Oct 23 00:24 13873 Oct 31 14:50	12°MJ38'39	
morning set	136/2 1101 16 06.16	2 × 1336		morning set	13873 Nov 02 10:04	16°M19'16	
superior conj	13872 Nov 25 08:06	17° ∡ ³34'34	1°29'56	max. Earth dist.	13873 Nov 02 10:04 13873 Nov 08 01:21	28°M21'55	1.31512 AU
minimum elong	13872 Nov 25 06:30	17° × 34 34 17° × 25'39	1°30'48	max. Earth dist.	13873 Nov 08 01:21	20 IIG21 33 0° ⊼ ¹	1.31312 AU
max. Earth dist.	13872 Nov 24 19:06	16° × 23 39	1.31168 AU		13873 NOV 08 19.11	· ×	
max. Lartii dist.	13872 Nov 30 22:34	0°る	1.51108 AU	superior conj	13873 Nov 09 18:20	2° ∡ ¹07'48	1°17'19
evening rise	13872 Nov 30 22:34 13872 Dec 02 01:22	2°る24'53		minimum elong	13873 Nov 09 16:10	1° ×7 55'50	1°17'54
desc. node	13872 Dec 02 01:22 13872 Dec 16 10:41	2 02433 29° る 37'56		evening rise	13873 Nov 16 11:28	16° ∡ 755'56	1 1/34
dese. Houe	13872 Dec 16 10:41 13872 Dec 16 16:12	29 ⊘ 3730		evening 1150	13873 Nov 16 11.28 13873 Nov 22 19:43	0。名	
evening max el	13872 Dec 30 23:48	0 ≈ 18°≈23'12	26°21'42	desc. node	13873 Dec 03 07:43	0 る 17° る 49'37	
retrograde	13873 Jan 13 22:51	16 ≈23 12 25°≈29'07	20 21 72	evening max el	13873 Dec 03 07:43		24°58'03
evening set	13873 Jan 20 08:32	23°≈50'10		Croming max of	13873 Dec 12 15:07 13873 Dec 13 15:53	29 3 02 33	27 30 03
min. Earth dist.	13873 Jan 24 13:22	21°≈13'28	0.58436 AU	retrograde	13873 Dec 26 09:56	5°≈56'52	
inferior conj	13873 Jan 27 16:10	18°≈54'46		evening set	13873 Dec 20 03:50	4°≈47'13	
minimum elong	13873 Jan 28 00:33	18°≈39'11		min. Earth dist.	13874 Jan 06 03:02		0.56510 AU
morning rise	13873 Feb 04 19:34	16 ≈3911 14°≈25'14	3 3001	inferior conj	13874 Jan 08 17:23	0°≈22'46	
direct	13873 Feb 04 19.34 13873 Feb 06 20:16	14 ≈23 14 14°≈11'14		minimum elong	13874 Jan 09 01:40	0°≈09'23	
asc. node	13873 Feb 00 20:10 13873 Feb 09 16:41	14 ≈11 14 14°≈40'18		mmmum clong	13874 Jan 09 07:30	0 ≈0923 30°Rる	J 11 VI
morning max el	13873 Feb 15 00:44	14 ≈40 18 18°≈13'16	18°28'10	morning rise	13874 Jan 17 05:36	30 KO 26°る14'59	
morning max ci	13873 Feb 13 00.44 13873 Feb 23 12:43	0° X	10 20 10	direct	13874 Jan 19 11:43	26° る 00'39	
morning set	13873 Mar 02 21:51	0 X 13° ¥ 37'00		asc. node	13874 Jan 19 11.43 13874 Jan 27 14:02	26 3 0039	
morning set	13873 Mar 02 21:51 13873 Mar 11 12:56	13° π 3/00 0° Υ		asc. Hour	13874 Jan 27 14:02 13874 Jan 28 08:17	29° 6 20′30 0° ≈	
	13073 Iviai 11 12.30	v i		morning max el	13874 Jan 29 00:05	0 ≈ 0°≈37'03	19°20'52
superior conj	13873 Mar 12 00:15	0° Ƴ 52'17	0°20'07	morning max ei morning set	13874 Feb 14 23:29	0°≈3703 28°≈03'35	17 20 32
minimum elong	13873 Mar 12 00:13	0° Υ 58'43	0°2007 0°19'58	morning set	13874 Feb 14 23.29 13874 Feb 15 22:47	28 ≈ 03 33	
desc. node	13873 Mar 14 12:08	5° Υ 25'30	0 1/30		13077100 13 22.4/	υ Λ	
max. Earth dist.	13873 Mar 19 11:22	3 γ 23 30 14° Υ 11'19	1.40507 AU	superior conj	13874 Feb 23 03:12	14° ¥ 15'33	0°49'19
evening rise	13873 Mar 19 11:22 13873 Mar 23 18:35	21° Υ 27'12	1.TUJU/ AU	minimum elong	13874 Feb 23 05:47	14° X 13'33	0°49'19 0°49'18
evening rise	13013 IVIAI 23 18:33	21 12/12		minimum elong	130/4 FEU 23 US:4/	14 X28U8	U 4718

desc. node	13874 Mar 01 08:39	26° ∺ 00′12		superior conj	13875 Feb 06 18:38	28° ≈ 12'10	1°11'32
max. Earth dist.	13874 Mar 01 17:58	26°) 42'38	1.38247 AU	minimum elong	13875 Feb 06 21:16	28° ≈ 25'35	1°11'51
	13874 Mar 03 13:50	0° Υ			13875 Feb 07 15:54	0° ∀	
		3° Υ 20'19		E (1 E)			1 20004 ATT
evening rise	13874 Mar 05 11:17			max. Earth dist.	13875 Feb 12 01:51		1.36064 AU
	13874 Mar 22 04:12	9° 8		evening rise	13875 Feb 15 22:30	15° ¥ 59'47	
evening max el	13874 Apr 09 19:58	23° 8 33'20	24°54'47	desc. node	13875 Feb 16 05:12	16°) € 30′30	
	13874 Apr 18 23:45	$\Pi^{\circ}0$			13875 Feb 23 22:38	$0^{\circ}\mathbf{Y}$	
retrograde	13874 Apr 21 16:12	0° Ⅱ 27'07			13875 Mar 16 16:25	0°႘	
1011081440	13874 Apr 24 04:57	30°R8		evening max el	13875 Mar 23 09:27	7° 8 23'54	26905107
	•			•		_	20 03 07
asc. node	13874 Apr 25 10:32	29° 8 25'57		retrograde	13875 Apr 05 02:40	14° 8 40'31	
evening set	13874 Apr 27 09:04	28° 8 03'41		evening set	13875 Apr 11 06:31	12° 8 09'55	
min. Earth dist.	13874 May 01 19:50	23° 8 03'32	0.68220 AU	asc. node	13875 Apr 12 07:56	11° 8 13'00	
inferior conj	13874 May 02 23:13	21° 8 33'11	2°08'16	min. Earth dist.	13875 Apr 15 10:42	7° と 45'06	0.67173 AU
minimum elong	13874 May 02 21:04	21° 8 40'18	2°06'54	inferior conj	13875 Apr 17 02:39	5° 8 40'51	1°26'32
morning rise	13874 May 08 09:19	15° 8 36'57	2 000.	minimum elong	13875 Apr 17 00:47	5° 8 46'42	1°25'21
•	•			_	-	_	1 23 21
direct	13874 May 12 02:13	14° 8 18'13		morning rise	13875 Apr 22 19:49	29° Y ′54'51	
morning max el	13874 May 19 07:15	18° 8 16'43	19°31'42		13875 Apr 22 16:31	30° ŖƳ	
desc. node	13874 May 28 10:36	29° 8 39'28		direct	13875 Apr 26 01:37	28° Y 55′10	
	13874 May 28 16:24	$\Pi^{\circ}0$			13875 Apr 29 13:55	0°B	
greatest brilliancy	13874 May 31 22:33	4° ∏ 42'18	-0.7m	morning max el	13875 May 02 16:26	2° 8 27'54	18°40'26
	•	23° I I59'56	-0.7111	•		_	10 40 20
morning set	13874 Jun 13 17:00			desc. node	13875 May 15 07:24	19° 8 25'46	
	13874 Jun 17 14:25	0 \circ 60			13875 May 22 03:02	Π °0	
max. Earth dist.	13874 Jun 25 18:09	12° © 44'02	1.45035 AU	morning set	13875 May 24 06:45	3° Ⅱ 22'06	
				max. Earth dist.	13875 Jun 08 12:36	27° Ⅱ 10′00	1.45774 AU
superior conj	13874 Jun 29 22:47	19° © 23'24	-2°11'02				
minimum elong	13874 Jun 30 02:32	19° © 38'24		superior conj	13875 Jun 09 10:21	28° Ⅱ 34'56	-2°11'12
minimum ciong		0°Ω	2 11 30			28° I I20'00	
	13874 Jul 06 12:19			minimum elong	13875 Jun 09 06:31		2-12-09
evening rise	13874 Jul 13 23:34	12° Ω 21′29			13875 Jun 10 08:06	0 \circ	
asc. node	13874 Jul 22 09:29	26° Ω 18'10		evening rise	13875 Jun 24 22:22	23° © 03'01	
	13874 Jul 24 17:33	0° m ∕			13875 Jun 29 06:51	$0^{\circ}\Omega$	
evening max el	13874 Aug 01 08:34	10° Mp 04'21	18°11'04	greatest brilliancy	13875 Jul 02 00:24	4° Ω 20′28	-0.9m
retrograde	13874 Aug 07 17:07	13° m 25'31		asc. node	13875 Jul 09 06:17	15° Ω 25'47	
evening set	13874 Aug 10 13:42	12° mp 41'55		evening max el	13875 Jul 15 21:19	23°Ω45'00	18°37'23
•	•		2007122	•			16 3/23
inferior conj	13874 Aug 16 15:05	7° m 19'50	2°07'23	retrograde	13875 Jul 22 10:11	27° Ω 17'30	
minimum elong	13874 Aug 16 17:34	7° Mp 12'53	2°06'11	evening set	13875 Jul 25 15:31	26° Ω 18'27	
min. Earth dist.	13874 Aug 19 04:27	4° Mp 29′00	0.63660 AU	inferior conj	13875 Jul 31 07:20	20° Ω 41′02	2°43'57
morning rise	13874 Aug 22 19:40	1° Mp 03'34		minimum elong	13875 Jul 31 09:22	20° Ω 34'47	2°42'48
desc. node	13874 Aug 24 08:27	0° mp 00'35		min. Earth dist.	13875 Aug 02 06:45	18° Ω 16'04	0.65588 AU
dese. Hode	13874 Aug 24 08:50	30°R Ω			13875 Aug 06 02:11	14° Ω 17'27	0.05500710
1.	Č			morning rise	•		
direct	13874 Aug 29 10:53	28° Ω 30'47		desc. node	13875 Aug 11 05:55	11° Ω 43'24	
	13874 Sep 03 23:08	0° m y		direct	13875 Aug 12 11:55	11° Ω 37'41	
morning max el	13874 Sep 12 08:01	6° Mg 31′35	27°42'58	morning max el	13875 Aug 25 19:14	19° Ω 29'15	26°54'58
	13874 Sep 30 06:50	0∘ ⊽			13875 Sep 03 18:26	0° m y	
morning set	13874 Oct 17 04:13	29° ≏ 58'33			13875 Sep 23 07:55	0∘ <mark>⊽</mark>	
	13874 Oct 17 04:31	0° M		morning set	13875 Sep 30 11:58	13° ≏ 07'32	
				•	-		1 22017 ATT
asc. node	13874 Oct 18 11:30	2°M36'12		max. Earth dist.	13875 Oct 04 16:32	21° ≏ 21'50	1.33817 AU
max. Earth dist.	13874 Oct 22 01:33	10°M02'59	1.32395 AU	asc. node	13875 Oct 05 08:08	22° ≏ 40'39	
					13875 Oct 08 21:15	0° M ₊	
superior conj	13874 Oct 25 01:13	16°M27'15	0°58'57				
minimum elong	13874 Oct 24 22:57	16°M15'00	0°59'15	superior conj	13875 Oct 09 02:35	0°M28'03	0°34'59
U	13874 Oct 31 06:25	0° ∡ ¹		minimum elong	13875 Oct 09 00:53	0° ™ 19'04	
ovoning riso	13874 Oct 31 22:32	1° ∡ 726'46		evening rise	13875 Oct 16 08:47	15°M53'21	0 33 00
evening rise				evening rise			
	13874 Nov 16 11:22	0°る			13875 Oct 23 09:08	0° ∡ 7	
desc. node	13874 Nov 20 04:52	4° る 55'50		evening max el	13875 Nov 05 14:12	19° ∡ 10'37	21°37'34
evening max el	13874 Nov 24 00:53	9° ප 06'26	23°17'22	desc. node	13875 Nov 07 02:08	20° ∡ ³33'52	
retrograde	13874 Dec 07 08:20	15° る 43'28		retrograde	13875 Nov 17 20:52	25° х 15′59	
evening set	13874 Dec 11 16:15	15° る 02'44		evening set	13875 Nov 20 19:54	24° ₹ ¹56'06	
min. Earth dist.	13874 Dec 18 10:48		0.55101 AU	inferior conj	13875 Nov 29 15:17	21°×702'53	-5°42'00
				-			
inferior conj	13874 Dec 19 22:37	11°る00'10		minimum elong	13875 Nov 29 08:50	21° 🗷 11'56	
minimum elong	13874 Dec 20 01:04	10° ප් 56'36	5°54'16	min. Earth dist.	13875 Nov 29 16:51	21° ∡ 00′40	0.54490 AU
morning rise	13874 Dec 28 11:31	7° る 09'17		morning rise	13875 Dec 07 22:34	17° ∡ 14'44	
direct	13874 Dec 31 07:51	6° る 49'55		direct	13875 Dec 11 16:16	16° ∡ ⁴44'19	
morning max el	13875 Jan 11 09:50	12° る 08'00	20°36'49	morning max el	13875 Dec 24 05:27	22° ∡ ¹46'04	22°13'47
asc. node	13875 Jan 14 11:20	15° る 27'05		<i>5</i>	13875 Dec 30 11:01	0°궁	- •
450. HOGO	13875 Jan 23 20:25	0° ≈		asa nada		2°る42'48	
				asc. node	13876 Jan 01 08:33		
morning set	13875 Jan 30 06:51	12° ≈ 43′00		morning set	13876 Jan 14 17:28	27° る 27'58	
					13876 Jan 15 22:08	0° ≈	

superior conj	13876 Jan 21 18:55	12° ≈ 31'33	1°26'51	asc. node	13876 Dec 18 05:41	20° х 51'37	
minimum elong	13876 Jan 21 20:54	12° ≈ 42'02	1°27'31		13876 Dec 23 06:21	0°₹	
max. Earth dist.	13876 Jan 25 15:33	20° ≈ 33'28	1.34169 AU	morning set	13876 Dec 29 05:24	12° る 13'03	
evening rise	13876 Jan 30 00:46	29° ≈ 16′26					
	13876 Jan 30 09:49	0° ∀		superior conj	13877 Jan 05 01:14	27° る 05'30	1°35'34
desc. node	13876 Feb 03 01:47	6° ¥ 52'05		minimum elong	13877 Jan 05 02:13	27° る 10'52	1°36'31
	13876 Feb 17 02:17	0° Υ			13877 Jan 06 09:24	0° ≈	
evening max el	13876 Mar 04 23:07	21° Y ′04'47	26°59'15	max. Earth dist.	13877 Jan 07 13:11	2° ≈ 29'20	1.32696 AU
retrograde	13876 Mar 18 07:31	28° Ƴ 32'07		evening rise	13877 Jan 12 14:42	13° ≈ 01'41	
evening set	13876 Mar 24 20:37	25° Ƴ 59'55		desc. node	13877 Jan 19 22:27	27° ≈ 00′11	
min. Earth dist.	13876 Mar 28 19:35	22° Y 08'33	0.65722 AU		13877 Jan 21 14:58	0° ∀	
asc. node	13876 Mar 29 05:24	21° Y 40'50			13877 Feb 11 06:35	0 ° Υ	
inferior conj	13876 Mar 30 23:50	19° Ƴ 38'33	0°33'27	evening max el	13877 Feb 15 11:59	4° Y 25′30	27°29'47
minimum elong	13876 Mar 30 22:57	19° Ƴ 41'06	0°32'51	retrograde	13877 Mar 01 05:35	11° Ƴ 52'59	
morning rise	13876 Apr 06 02:44	14° Y ′04'29		evening set	13877 Mar 08 01:07	9° Y 25'56	
direct	13876 Apr 08 22:36	13° Y 21'03		min. Earth dist.	13877 Mar 11 20:27	6° Ƴ 04'59	0.63924 AU
morning max el	13876 Apr 15 07:04	16° Ƴ 40'37	18°05'47	inferior conj	13877 Mar 14 12:04	3° Ƴ 19'47	
	13876 Apr 25 05:03	0°8		minimum elong	13877 Mar 14 13:03	3° Y 17'14	0°30'56
desc. node	13876 May 01 04:07	9° 8 31'41		asc. node	13877 Mar 16 02:52	1° Y 41'04	
morning set	13876 May 03 22:43	14° 8 01'33			13877 Mar 17 23:13	30° ₹ ₩	
	13876 May 13 21:20	Π °0		morning rise	13877 Mar 21 03:13	28° ∺ 00'03	
				direct	13877 Mar 23 14:37	27° ∺ 29'27	
superior conj	13876 May 18 19:39	7° Ⅱ 47'07			13877 Mar 29 04:01	0° Y	
minimum elong	13876 May 18 10:48	7° Ⅱ 12'20		morning max el	13877 Mar 30 00:30	0° Υ 47'10	17°48'20
max. Earth dist.	13876 May 21 08:27		1.45773 AU	morning set	13877 Apr 15 18:16	26° Y ′00'56	
	13876 Jun 02 02:21	0 \circ		desc. node	13877 Apr 18 00:46	29° Y 51'43	
evening rise	13876 Jun 03 22:11	2° 5 49'28			13877 Apr 18 02:43	0° 8	
greatest brilliancy	13876 Jun 16 09:13	21° © 52'49	-0.7m				
	13876 Jun 22 00:37	0° N		superior conj	13877 Apr 28 19:25	17° 8 43'01	
asc. node	13876 Jun 25 03:10	4°Ω02'44	10000111	minimum elong	13877 Apr 28 11:44	17° 8 11'56	
evening max el	13876 Jun 28 05:57	7° Ω 32'10	19°20'41	max. Earth dist.	13877 May 04 03:41	_	1.45043 AU
retrograde	13876 Jul 05 07:22	11° Ω 28'25			13877 May 06 12:32	0°Ⅱ 120Ⅲ12145	
evening set	13876 Jul 08 22:00	10°Ω12'42 4°Ω21'29	3°04'33	evening rise	13877 May 14 09:47	12° Ⅱ 12'45 0° ໑	
inferior conj	13876 Jul 14 07:41	$4^{\circ}021'29$ $4^{\circ}017'44$	3°03'30	avanina may al	13877 May 26 05:27 13877 Jun 11 08:59	21° © 21'37	20°19'12
minimum elong min. Earth dist.	13876 Jul 14 08:49 13876 Jul 15 16:38	2°Ω33'36	0.67126 AU	evening max el asc. node	13877 Jun 12 00:09	21°958'39	20 1912
iiiii. Eartii dist.	13876 Jul 17 18:40	30°RS	0.07120 AO	retrograde	13877 Jun 12 00:09	25°952'33	
morning rise	13876 Jul 19 19:04	27°\$56'54		evening set	13877 Jun 23 06:48	24° © 19'41	
direct	13876 Jul 25 19:46	25°9519'35		inferior conj	13877 Jun 28 13:19	18°9515'56	3°11'47
desc. node	13876 Jul 28 03:21	25°939'36		minimum elong	13877 Jun 28 13:27	18° © 15'30	
dese. Hode	13876 Aug 04 07:42	0°Ω		min. Earth dist.	13877 Jun 29 08:11	17° © 11'28	0.68214 AU
morning max el	13876 Aug 07 06:10	2° Ω 46'05	25°43'29	morning rise	13877 Jul 03 19:47	11° 9 54'18	***************************************
	13876 Aug 27 22:47	0° m)		direct	13877 Jul 09 09:06	9° © 27'32	
morning set	13876 Sep 12 05:41	25° m 37'24		desc. node	13877 Jul 15 00:42	11° 5 26'26	
C	13876 Sep 14 14:29	0∘ ⊽		morning max el	13877 Jul 20 16:25	16° © 13'41	24°18'11
max. Earth dist.	13876 Sep 15 21:28	2° Ω 26'16	1.35724 AU		13877 Aug 01 01:40	$0^{\circ}\Omega$	
asc. node	13876 Sep 21 04:43	12° ≏ 47'59			13877 Aug 20 21:52	0° ™	
				morning set	13877 Aug 25 04:58	7° m 17'02	
superior conj	13876 Sep 21 19:45	14° ≙ 03'29	0°05'52	max. Earth dist.	13877 Aug 28 20:14	13° m 41'25	1.37979 AU
minimum elong	13876 Sep 21 19:24	14° ≏ 01'42	0°05'58				
behind sun begin	13876 Sep 21 13:36	13° ≏ 32'34		superior conj	13877 Sep 05 01:17	27° m 04'50	
behind sun end	13876 Sep 22 01:11	14° ≏ 30'54		minimum elong	13877 Sep 05 03:10	27° m 13'52	0°27'12
evening rise	13876 Sep 29 16:07	0° ™ 10'32			13877 Sep 06 13:35	0∘ ⊽	
	13876 Sep 29 14:04	0° M		asc. node	13877 Sep 08 01:16	2° ≙ 54'09	
evening max el	13876 Oct 17 15:39	29°M50'16	20°12'47	evening rise	13877 Sep 13 18:02	14° ≏ 11'26	
	13876 Oct 17 19:35	0° ₹			13877 Sep 22 03:16	0°M	10000105
desc. node	13876 Oct 23 23:29	4° √ 17'17		evening max el	13877 Sep 30 07:16	11°M 18'09	19°09'05
retrograde	13876 Oct 28 08:45	5°×710'00		retrograde	13877 Oct 09 09:02	15°M51'07	
evening set	13876 Oct 30 10:52	4° 🗷 58'47	4021110	desc. node	13877 Oct 10 20:56	15°M44'10	
inferior conj	13876 Nov 08 09:03	1°×701'52		evening set	13877 Oct 11 05:44	15°M40'25	2016155
minimum elong min. Earth dist.	13876 Nov 07 22:56 13876 Nov 10 00:11	1° х 16′51 0° х 03′48	4°27'25 0.54825 AU	inferior conj	13877 Oct 19 17:14 13877 Oct 19 10:09	11°M27'56 11°M39'55	
mm. Darm dist.	13876 Nov 10 00:11 13876 Nov 10 02:46	30°RM	0.54025 AU	minimum elong min. Earth dist.	13877 Oct 19 10:09		0.56044 AU
morning rise	13876 Nov 16 02.46 13876 Nov 16 10:09	26°M56'58		morning rise	13877 Oct 27 11:57	6°M50'15	0.500 11 AU
direct	13876 Nov 21 02:43	26°M09'16		direct	13877 Nov 02 00:24	5°M39'55	
	13876 Dec 01 07:42	20° II 0 05 10		morning max el	13877 Nov 16 02:32	12°M49'54	25°45'58
morning max el	13876 Dec 04 16:02	2° × ⁷ 49'04	24°02'25		13877 Nov 29 11:26	0° x ⁷	
			· = ==			- •·	

asc. node	13877 Dec 05 02:42	9° ×7 39'39			13878 Nov 22 12:38	0° ∡ ¹	
morning set	13877 Dec 13 16:46	26° ₹ 52'30		morning set	13878 Nov 28 01:53	11° ∡ ¹22'04	
	13877 Dec 15 03:23	ರ°0					
				superior conj	13878 Dec 04 22:35	26° ∡ ¹28'29	1°34'35
superior conj	13877 Dec 20 11:07	11° る 46'17	1°38'04	minimum elong	13878 Dec 04 21:28	26° ∡ ¹22'16	1°35'34
minimum elong	13877 Dec 20 11:00	11° る 45'42	1°39'07	max. Earth dist.	13878 Dec 05 01:24	26° ∡ ¹44'15	1.31215 AU
max. Earth dist.	13877 Dec 21 17:29	14° る 34'22	1.31702 AU		13878 Dec 06 12:28	0°ಕ	
evening rise	13877 Dec 27 13:13	27° る 06'57		evening rise	13878 Dec 11 17:52	11° る 26'21	
11-	13877 Dec 28 22:46 13878 Jan 06 19:11	0° ≈ 16° ≈ 47'55		JJ.	13878 Dec 21 03:24	0° ≈ 6° ≈ 07'28	
desc. node	13878 Jan 06 19:11 13878 Jan 14 23:10	16°≈47'33 0°) (desc. node evening max el	13878 Dec 24 16:01 13879 Jan 11 01:40	6°≈07′28 29°≈12'05	26°56'29
evening max el	13878 Jan 28 21:46	17° ¥ 12'00	27°30'16	evening max er	13879 Jan 11 01:40	0° ∺	20 30 29
retrograde	13878 Feb 11 19:44	24°) 33'06	27 30 10	retrograde	13879 Jan 25 00:53	6° ∺ 24'18	
evening set	13878 Feb 18 17:12	22°) 18'34		evening set	13879 Jan 31 17:34	4°) 29′58	
min. Earth dist.	13878 Feb 22 11:27	19° ¥ 22'52	0.61861 AU	min. Earth dist.	13879 Feb 04 15:48	1° ¥ 50′22	0.59671 AU
inferior conj	13878 Feb 25 12:09	16°) ₹35′29	-1°47'21		13879 Feb 06 22:56	30° R ≈	
minimum elong	13878 Feb 25 15:53	16°) €26'49	1°45'28	inferior conj	13879 Feb 07 20:28	29° ≈ 16′14	-3°11'02
asc. node	13878 Mar 03 00:20	12°) 17 ′38		minimum elong	13879 Feb 08 03:24	29° ≈ 02'15	3°07'52
morning rise	13878 Mar 04 17:27	11°) 33′14		morning rise	13879 Feb 15 16:25	24° ≈ 34'32	
direct	13878 Mar 06 22:15	11°) (11'51		direct	13879 Feb 17 17:20	24°≈18'54	
morning max el	13878 Mar 13 17:39	14°) €38'24	17°48'44	asc. node	13879 Feb 17 21:48	24°≈19'02	
. ,	13878 Mar 24 08:58	0° Υ		morning max el	13879 Feb 25 07:04	28°≈04'44	18°08'01
morning set desc. node	13878 Mar 29 11:59	9° Υ '02'40 20° Υ '20'44		marning sat	13879 Feb 27 01:44 13879 Mar 12 21:46	0° \ 22° \ 48'07	
desc. node	13878 Apr 04 21:19	20 1 20 44		morning set	13879 Mar 16 18:17	22 χ 4807 0° Υ	
superior conj	13878 Apr 09 18:23	28° Ƴ 44'20	-0°37'50		13677 Wiai 10 16.17	0 1	
minimum elong	13878 Apr 09 14:48	28° Y '29'07		superior conj	13879 Mar 22 16:45	10° Y 50'07	0°00'21
8	13878 Apr 10 12:18	0°8	· · · · ·	minimum elong	13879 Mar 22 16:46	10° Y ′50′11	0°00'15
max. Earth dist.	13878 Apr 16 20:07	10° 8 27'14	1.43647 AU	behind sun begin	13879 Mar 22 09:07	10° Y 16′00	
evening rise	13878 Apr 24 01:12	21° 8 53'47		behind sun end	13879 Mar 23 00:24	11° Y ′24'17	
	13878 Apr 29 07:55	Π °0		desc. node	13879 Mar 22 17:48	10° Ƴ 54'50	
	13878 May 20 15:11	0 \circ \odot		max. Earth dist.	13879 Mar 30 07:43	24° Y 02'41	1.41740 AU
evening max el	13878 May 25 06:13	5° © 11'39	21°30'04		13879 Apr 02 22:06	0° 8	
asc. node	13878 May 29 21:12	9° © 00'35		evening rise	13879 Apr 04 08:50	2° 8 20'46	
retrograde	13878 Jun 03 04:43	10°524'53			13879 Apr 22 16:54	0°II	22240156
evening set	13878 Jun 07 16:02	8°535'25	2007/20	evening max el asc. node	13879 May 07 22:43	19° Ⅱ 01'53 24° Ⅱ 51'50	22°48'56
inferior conj minimum elong	13878 Jun 12 22:00 13878 Jun 12 21:10	2° © 20'33 2° © 23'27	3°07'28 3°06'21		13879 May 16 18:23 13879 May 18 01:27	24° Ц 51′30 24° Ц 59′27	
min. Earth dist.	13878 Jun 13 03:21	2°901'52	0.68821 AU	retrograde evening set	13879 May 22 24:00	24 Ⅲ 3927 22° Ⅱ 54'48	
iiiii. Lattii dist.	13878 Jun 14 14:53	30°RⅡ	0.00021 AC	inferior conj	13879 May 28 07:40	16° Ⅱ 31'05	2°52'35
morning rise	13878 Jun 18 02:06	26° ∏ 04'15		minimum elong	13879 May 28 06:03	16° Ⅱ 36'40	2°51'20
direct	13878 Jun 23 02:52	23° Ⅱ 53'47		min. Earth dist.	13879 May 28 00:06	16° Ⅱ 57'23	0.68950 AU
desc. node	13878 Jul 01 21:56	28° ∏ 37′52		morning rise	13879 Jun 02 12:01	10° Ⅱ 21'30	
morning max el	13878 Jul 03 03:41	29° Ⅱ 50′03	22°48'40	direct	13879 Jun 06 23:58	8° Ⅲ 30′35	
	13878 Jul 03 07:37	0		morning max el	13879 Jun 15 18:44	13° Ⅱ 35′29	21°23'15
	13878 Jul 25 20:12	$0^{\circ}\Omega$		desc. node	13879 Jun 18 19:03	16° Ⅱ 51'11	
morning set	13878 Aug 06 05:29	17° Ω 56'32			13879 Jun 28 20:24	0°9	
max. Earth dist.	13878 Aug 10 19:23	25° Ω 36'22	1.40338 AU	morning set	13879 Jul 17 05:08	27° © 31'14	
	13878 Aug 13 08:36	0° m)		may Forth dist	13879 Jul 18 18:45	0° Ω 8° Ω 22'11	1 42524 ATT
superior conj	13878 Aug 18 15:08	9° m 22'44	-1°02'40	max. Earth dist.	13879 Jul 23 23:17	0 062211	1.42524 AU
minimum elong	13878 Aug 18 19:51	9° m)44'11	1°02'24	superior conj	13879 Jul 31 08:47	20° Ω 46'30	-1°36'16
asc. node	13878 Aug 25 21:49	22° m 55'47	1 0221	minimum elong	13879 Jul 31 15:49	21°Ω16'46	
evening rise	13878 Aug 28 11:25	27° mp 48'25			13879 Aug 05 15:30	0° m)	
<i>8</i> 11	13878 Aug 29 15:10	0∘ <u>v</u>		evening rise	13879 Aug 11 16:15	10° m/50'23	
evening max el	13878 Sep 13 10:29	23° £ 31′56	18°27'14	asc. node	13879 Aug 12 18:22	12° m) 48'32	
retrograde	13878 Sep 21 04:31	27° ≏ 27'19			13879 Aug 22 20:02	0∘ 亚	
evening set	13878 Sep 23 04:45	27° £ 12'15		evening max el	13879 Aug 27 21:06	6° ₽ 21'52	18°06'00
desc. node	13878 Sep 27 18:25	25° ≙ 01'13		retrograde	13879 Sep 03 17:58	9° ჲ 52'50	
inferior conj	13878 Sep 30 22:44	22° △ 39'10		evening set	13879 Sep 06 01:21	9° £ 29'18	
minimum elong	13878 Sep 30 20:23	22° Ω 43'49		inferior conj	13879 Sep 13 01:20	4° £ 35'52	
min. Earth dist.	13878 Oct 04 04:42	20° Ω 05'45	0.57916 AU	minimum elong	13879 Sep 13 02:16	4° £ 33'42	0°29'14
morning rise	13878 Oct 08 08:32	17° Ω 23'47		desc. node	13879 Sep 14 15:57	3° ₾ 06'25	0.60141.411
direct morning max el	13878 Oct 14 12:12 13878 Oct 28 19:35	15° Ω 46'44 23° Ω 21'03	27°06'05	min. Earth dist.	13879 Sep 16 06:49 13879 Sep 18 06:55	1° ≏ 38'45 30°R M)	0.60141 AU
morning max er	13878 Nov 03 19:22	0°M	21 0003	morning rise	13879 Sep 18 06:55 13879 Sep 19 23:59	30°หูปมู 28° m) 48'49	
asc. node	13878 Nov 21 23:37	28°M56'46		direct	13879 Sep 19 23.39 13879 Sep 26 13:10	26° Mp 45'02	
200. 110de	250701107 21 25.57	20 IIU30 T0		anoci	15077 Sep 20 15.10	20 mg 73 02	

	13879 Oct 05 08:56	0∘ ⊽		morning max el	13880 Sep 22 03:07	16° m 39'05	27°56'13
morning max el	13879 Oct 10 20:22	4° ≙ 37'10	27°50'42		13880 Oct 03 04:19	0∘ 亚	
	13879 Oct 29 16:36	0° M			13880 Oct 21 09:57	0° M.	
asc. node	13879 Nov 08 20:24	18°M34'29		asc. node	13880 Oct 25 17:06	8°M26'34	
morning set	13879 Nov 12 06:56	25°M36'43		morning set	13880 Oct 26 05:47	9° M ₊31′01	
	13879 Nov 14 08:29	0° ∡ ¹		max. Earth dist.	13880 Oct 31 13:08	20°M41'46	1.31819 AU
max. Earth dist.	13879 Nov 18 09:13	8° ∡ ′49'47	1.31246 AU				
				superior conj	13880 Nov 02 18:54	25°M35'06	1°10'13
superior conj	13879 Nov 19 09:49	11° ∡ °06′36	1°25'17	minimum elong	13880 Nov 02 16:38	25°M22'37	1°10'41
minimum elong	13879 Nov 19 07:56	10° ∡ 756′07	1°26'02		13880 Nov 04 19:00	0° ∡ ¹	
evening rise	13879 Nov 26 02:30	25° ∡ ′54'24		evening rise	13880 Nov 09 13:15	10° ∡ ¹26′06	
	13879 Nov 28 00:38	0° ろ			13880 Nov 19 09:32	0° ろ	
desc. node	13879 Dec 11 12:59	24° る 48'10		desc. node	13880 Nov 27 10:05	12° る 34'45	
	13879 Dec 15 02:08	0° ≈		evening max el	13880 Dec 04 09:55	20° ප් 41'40	24°16'19
evening max el	13879 Dec 23 21:35		25°49'09	retrograde	13880 Dec 18 01:38	27°る29'41	
retrograde	13880 Jan 06 19:38	17°≈22'01		evening set	13880 Dec 23 03:33	26° る 33'10	0.55022 444
evening set	13880 Jan 12 22:15	15°≈55'00	0.55560.444	min. Earth dist.	13880 Dec 28 21:28	23° る 39'54	0.55822 AU
min. Earth dist.	13880 Jan 17 10:24	13°≈17'25	0.57563 AU	inferior conj	13880 Dec 31 02:02	22°る19'22	
inferior conj	13880 Jan 20 09:40	11°≈13'03		minimum elong	13880 Dec 31 08:36	22° ろ 09'17	5°35'01
minimum elong	13880 Jan 20 18:34	10°≈57'29	4°30'05	morning rise	13881 Jan 08 15:33	18°る19'31 18°る03'46	
morning rise	13880 Jan 28 17:43	6°≈53'21		direct	13881 Jan 11 02:25	18°803'46 22°858'00	19°50'22
direct	13880 Jan 30 19:34	6°≈39'50		morning max el	13881 Jan 21 06:48 13881 Jan 21 16:35	22°638'00 23° 6 22'04	19°50'22
asc. node morning max el	13880 Feb 04 19:13	8°≈02'53 10°≈55'29	18°47'54	asc. node	13881 Jan 27 01:08	23° 6 22'04 0° ≈	
morning max er	13880 Feb 08 12:52 13880 Feb 21 02:53	10 ≈ 33 29 0° ∺	16 4/ 34	morning set	13881 Feb 07 23:11	0 ≈ 21°≈36'22	
morning set	13880 Feb 21 02.33 13880 Feb 24 18:46	0 X 7° ∺ 03'18		morning set	13881 Feb 07 23.11 13881 Feb 12 02:12	0° ∺	
morning set	13880 Feb 24 18.40	/ /(05 16			13881 Feb 12 02.12	0 X	
superior conj	13880 Mar 04 10:38	23°) 49′20	0°33'19	superior conj	13881 Feb 15 19:22	7° ∺ 28′09	0°59'35
minimum elong	13880 Mar 04 12:42	23° ¥ 59′07	0°33'12	minimum elong	13881 Feb 15 22:06	7° ∺ 41'39	0°59'42
	13880 Mar 07 18:23	0° Y		max. Earth dist.	13881 Feb 21 21:14		1.37292 AU
desc. node	13880 Mar 08 14:16	1° Y 30'37		desc. node	13881 Feb 23 10:47	22° ∺ 03'57	
max. Earth dist.	13880 Mar 11 14:53	6° Y 55′10	1.39540 AU	evening rise	13881 Feb 25 14:41	25° ¥ 58′29	
evening rise	13880 Mar 15 13:38	13° Y ′44′03			13881 Feb 27 21:33	0° Υ	
	13880 Mar 25 15:44	0.8			13881 Mar 19 04:34	0°8	
	13880 Apr 16 18:27	0°Щ		evening max el	13881 Apr 02 02:21	16° 8 47'32	25°26'20
evening max el	13880 Apr 19 12:47	2° ∏ 54′26	24°09'57	retrograde	13881 Apr 14 08:22	23° 8 52'30	
retrograde	13880 Apr 30 19:06	9° Ⅱ 30'58		asc. node	13881 Apr 19 13:04	21° 8 59'13	
asc. node	13880 May 02 15:41	9° Ⅱ 15'38		evening set	13881 Apr 20 05:54	21° 8 25'45	
evening set	13880 May 06 05:10	7° Ⅱ 13'37		min. Earth dist.	13881 Apr 24 13:48	16° 8 40'31	
min. Earth dist.	13880 May 10 20:19	1° Ⅱ 52'29		inferior conj	13881 Apr 25 22:26	14° 8 55'09	1°51'57
inferior conj	13880 May 11 16:27	0° Ⅱ 44'15		minimum elong	13881 Apr 25 20:20	15° 8 01'59	1°50'38
minimum elong	13880 May 11 14:23	0° Ⅱ 51'17	2°26'07	morning rise	13881 May 01 11:11	9° 8 02'48	
	13880 May 12 05:34	30°R 8		direct	13881 May 04 23:15	7° 8 52'19	10007151
morning rise direct	13880 May 16 23:41 13880 May 20 23:18	24° 8 42'36 23° 8 12'14		morning max el desc. node	13881 May 11 21:16 13881 May 22 12:54	11° 8 38'26 25° 8 21'22	19°07'51
morning max el	13880 May 20 23.18 13880 May 28 16:15	27° 8 32'04	20000120	greatest brilliancy	13881 May 24 20:54	28° 8 48'45	-0.7m
morning max er	13880 May 30 23:40	27 O 32 04 0° Ⅱ	20 08 20	greatest offinancy	13881 May 25 15:55	0°Ⅱ	-0.7111
desc. node	13880 Jun 04 16:02	5° Ⅱ 49'56		morning set	13881 Jun 04 14:19	15° Ⅱ 11'25	
dese. Hode	13880 Jun 21 06:52	0°95		morning set	13881 Jun 14 03:32	0°95	
morning set	13880 Jun 25 10:02	6° © 19'15		max. Earth dist.	13881 Jun 18 01:58		1.45439 AU
max. Earth dist.	13880 Jul 05 09:40	21°956'52	1.44288 AU	max. Dartii dist.	15001 3411 10 01.50	0 30711	1.13 137 110
max. Dartii dist.	13880 Jul 10 09:40	0° Ω	1.11200710	superior conj	13881 Jun 20 23:16	10°9541'45	-2°13'35
	15000 341 10 07.10	V 00		minimum elong	13881 Jun 21 00:01	10°5944'42	
superior conj	13880 Jul 11 03:03	1° Ω 10'56	-2°02'17	mmmum vieng	13881 Jul 03 00:20	0° Ω	2 1.09
minimum elong	13880 Jul 11 09:29	1° Ω 37'13		evening rise	13881 Jul 05 16:38	4° Ω 22'21	
evening rise	13880 Jul 24 03:40	23°Ω05'32	_ 0_00	asc. node	13881 Jul 16 11:45	21°Ω49'38	
	13880 Jul 28 04:10	0° my			13881 Jul 22 05:10	0° m)	
asc. node	13880 Jul 29 15:00	2° m) 28'17		evening max el	13881 Jul 25 01:22	3° Mp 13'11	18°20'11
evening max el	13880 Aug 10 11:13	19° mp 38'37	18°03'58	retrograde	13881 Jul 31 10:31	6° Mp 37'11	· ·
retrograde	13880 Aug 16 21:23	22° m 59'09		evening set	13881 Aug 03 10:52	5° m) 47'07	
evening set	13880 Aug 19 13:04	22° m/23'39		inferior conj	13881 Aug 09 07:45	0° mp 18'28	2°25'01
inferior conj	13880 Aug 25 21:41	17° m) 11'38	1°37'46	minimum elong	13881 Aug 09 10:08	0° m/11'32	
minimum elong	13880 Aug 26 00:01	17° m 05'32	1°36'40	Z.	13881 Aug 09 14:05	30°R Ω	
min. Earth dist.	13880 Aug 28 18:23	14° m) 12'40	0.62425 AU	min. Earth dist.	13881 Aug 11 15:22	27° Ω 37'01	0.64526 AU
desc. node	13880 Aug 31 13:30	11° m)39'48		morning rise	13881 Aug 15 07:59	23° Ω 58′29	
morning rise	13880 Sep 01 08:39	11° Mp 03'20		desc. node	13881 Aug 18 11:01	22° Ω 03'34	
direct	13880 Sep 08 01:01	8° m/38'23		direct	13881 Aug 21 21:34	21° Q 21'28	

morning max el	13881 Sep 04 13:18	29° Ω 19′28	27°25'58	morning rise	13882 Jul 29 19:12	7° Ω 23'58	
	13881 Sep 05 05:11	0° m ∕		direct	13882 Aug 05 01:25	4° Ω 44'27	
	13881 Sep 27 02:08	0∘ ⊽		desc. node	13882 Aug 05 08:30	4° Ω 44'46	
morning set	13881 Oct 09 19:57	22° ♀ 59'05		morning max el	13882 Aug 18 00:33	12° Ω 26′34	26°27'01
asc. node	13881 Oct 12 13:44	28° ≏ 28'06			13882 Sep 01 03:19	0° m y	
	13881 Oct 13 07:44	0° M			13882 Sep 19 17:37	0∘ ⊽	
max. Earth dist.	13881 Oct 14 09:42	2°M14'00	1.32939 AU	morning set	13882 Sep 22 22:11	5° ≏ 52'38	
				max. Earth dist.	13882 Sep 26 20:38	13° ≏ 26'39	1.34580 AU
superior conj	13881 Oct 17 23:49	9° ™ 48'33	0°49'28	asc. node	13882 Sep 29 10:19	18° ≏ 34'16	
minimum elong	13881 Oct 17 21:42	9° M ₃37'14	0°49'41				
evening rise	13881 Oct 25 00:17	24°M56'51	0 .,	superior conj	13882 Oct 01 22:03	23° 2 39'39	0°23'14
evening rise	13881 Oct 27 09:49	0° √		minimum elong	13882 Oct 01 20:49	23° ⊆ 33'14	
desc. node	13881 Nov 14 07:18	29° × 707'28		minimum clong	13882 Oct 04 22:58	0°M	0 25 17
desc. flode	13881 Nov 15 03:17	0°る		evening rise	13882 Oct 04 22:38	9°M20'39	
evening max el	13881 Nov 15 20:12	0°る42'13	22°33'49	evening rise	13882 Oct 09 05:34 13882 Oct 20 05:49	9 11 0 20 39 0° √ 1	
-	13881 Nov 28 18:37	7° る 06'59	22 33 49	avanina may al	13882 Oct 20 03.49 13882 Oct 28 13:50	10° ₹ 58'02	20050102
retrograde				evening max el			20-39-02
evening set	13881 Dec 02 12:09	6°る36'33	0.54500.444	desc. node	13882 Nov 01 04:38	14° ₹ 00'27	
min. Earth dist.	13881 Dec 10 04:06		0.54738 AU	retrograde	13882 Nov 09 05:16	16° ∡ 45′15	
inferior conj	13881 Dec 11 00:41	2° る 40'03		evening set	13882 Nov 11 17:39	16° ∡ ′30′12	
minimum elong	13881 Dec 10 23:15	2°る42'04	5°56'14	inferior conj	13882 Nov 20 15:54	12° ∡ ³36'43	
	13881 Dec 16 04:11	30°₽ ⋌		minimum elong	13882 Nov 20 06:56	12° ∡ ¹49'27	
morning rise	13881 Dec 19 11:35	28° ≯ 52'23		min. Earth dist.	13882 Nov 21 09:58	12° ∡ 11'05	0.54524 AU
direct	13881 Dec 22 16:43	28° ∡ ¹28'53		morning rise	13882 Nov 28 20:33	8° ∡ ¹44'17	
	13881 Dec 28 19:21	0°₹		direct	13882 Dec 03 00:10	8° ∡ '07'23	
morning max el	13882 Jan 03 10:13	4° る 05'39	21°15'45	morning max el	13882 Dec 16 00:59	14° ∡ ¹25'22	22°59'25
asc. node	13882 Jan 08 13:52	10° る 00'37		asc. node	13882 Dec 26 11:02	27° х 40′40	
	13882 Jan 20 06:15	0° ≈			13882 Dec 27 21:18	8°0	
morning set	13882 Jan 23 08:14	6° ≈ 19'27		morning set	13883 Jan 07 19:40	21° පි 05'26	
					13883 Jan 11 22:59	0° ≈	
superior conj	13882 Jan 30 14:59	21° ≈ 35'40	1°18'51				
minimum elong	13882 Jan 30 17:24	21° ≈ 48'12	1°19'19	superior conj	13883 Jan 14 18:09	6° ≈ 02'17	1°31'20
· ·	13882 Feb 03 18:12	0° \		minimum elong	13883 Jan 14 19:45	6°≈10'47	1°32'08
max. Earth dist.	13882 Feb 04 07:29	1° ¥ 05'56	1.35221 AU	max. Earth dist.	13883 Jan 18 00:43	12° ≈ 58'11	1.33489 AU
evening rise	13882 Feb 08 08:48	8°) 55′16		evening rise	13883 Jan 22 16:24	22° ≈ 24'54	
desc. node	13882 Feb 10 07:20	12°) (31'13		0.0000	13883 Jan 26 15:28	0° ∀	
acco. noac	13882 Feb 20 12:28	0°Υ		desc. node	13883 Jan 28 03:58	2°) 47'49	
	13882 Mar 15 01:41	0°8		desc. Hode	13883 Feb 14 06:15	0°Υ	
evening max el	13882 Mar 15 16:09	0° 8 35'39	26°30'35	evening max el	13883 Feb 26 05:37	14° Υ 09'16	27015127
retrograde	13882 Mar 28 16:20	7° 8 57'19	20 30 33	retrograde	13883 Mar 11 18:15	21° Y '37'25	2/ 132/
•	13882 Apr 04 00:25	5° 8 25'31		-	13883 Mar 18 10:44	19° Υ 06'18	
evening set asc. node	•	3° 8 07'51		evening set min. Earth dist.		15° Y 28'41	0.64999 AU
	13882 Apr 06 10:31	1° 8 15'10	0.66607 ATT	asc. node	13883 Mar 22 07:52	13 γ 2841 13° γ 16'18	0.04999 AU
min. Earth dist.	13882 Apr 08 02:20		0.66607 AU		13883 Mar 24 08:00		0007122
	13882 Apr 09 03:25	30°₹ Υ	1005106	inferior conj	13883 Mar 24 17:13	12° Υ 50'44	0°07'22
inferior conj	13882 Apr 09 23:30	28° Y 59'10	1°05'26	minimum elong	13883 Mar 24 17:01	12° Υ 51'18	0°07'09
minimum elong	13882 Apr 09 21:57	29° Y 03'51	1°04'27	transit middle	13883 Mar 24 17:01	12° Υ 51'18	0°07'09
morning rise	13882 Apr 15 20:28	23° Y 17'53		transit begin	13883 Mar 24 14:18	12° Υ 58'50	
direct	13882 Apr 18 22:01	22° Y °25'18		transit end	13883 Mar 24 19:44	12° Y ′43'48	
morning max el	13882 Apr 25 08:58	25° Y ′50′39	18°23'36	morning rise	13883 Mar 31 01:04	7° Y °22'42	
	13882 Apr 29 00:31	0° 8		direct	13883 Apr 02 17:12	6° Y 45'06	
desc. node	13882 May 09 09:39	15° 8 16'40		morning max el	13883 Apr 09 01:11	10° Y ′02′12	17°56'17
morning set	13882 May 15 14:17	25° 8 04'05			13883 Apr 22 22:29	0°8	
	13882 May 18 17:03	Π °0		desc. node	13883 Apr 26 06:19	5° 8 29'22	
				morning set	13883 Apr 26 18:24	6° 8 19'14	
superior conj	13882 May 31 07:31	19° Ⅱ 46'56					
minimum elong	13882 May 31 00:49	19° Ⅱ 20'46	2°05'45	superior conj	13883 May 10 21:16	29° 8 13'39	-1°38'16
max. Earth dist.	13882 May 31 21:46	20° Ⅱ 42'34	1.45868 AU	minimum elong	13883 May 10 12:16	28° 8 37'56	1°38'12
	13882 Jun 06 20:38	0 \circ \odot			13883 May 11 08:58	Π $^{\circ}0$	
evening rise	13882 Jun 16 04:55	14° © 38'04		max. Earth dist.	13883 May 14 18:01	5° Ⅱ 19'29	1.45544 AU
greatest brilliancy	13882 Jun 25 19:33	29° 5 39'31	-0.8m	evening rise	13883 May 26 21:47	24° Ⅱ 10′17	
•	13882 Jun 26 00:53	$0^{\circ}\Omega$			13883 May 30 17:11	0 \circ \odot	
asc. node	13882 Jul 03 08:34	10° Ω 45'15		greatest brilliancy	13883 Jun 10 02:02	15° © 34'24	-0.6m
evening max el	13882 Jul 08 12:36	16° Ω 57'15	18°53'51	asc. node	13883 Jun 20 05:31	29° 5 06'31	
retrograde	13882 Jul 15 05:42	20° Ω 38'13			13883 Jun 21 01:09	0°N	
evening set	13882 Jul 18 15:01	19° Ω 31'59		evening max el	13883 Jun 21 18:53		19°43'49
inferior conj	13882 Jul 24 03:47	13° Ω 48′22	2°54'28	retrograde	13883 Jun 29 03:57	4°Ω55'52	
minimum elong	13882 Jul 24 05:29	13° Ω 43'00		evening set	13883 Jul 02 22:45	3° Ω 32'46	
min. Earth dist.	13882 Jul 25 20:57		0.66292 AU	o . chang set	13883 Jul 06 10:29	30°R99	
Darm dist.	15002 301 25 20.5/	11 063020	J.002/2 MU		15005 Jul 00 10.29	50 N	

inferior conj	13883 Jul 08 06:42	27° © 35'47	3°09'07	retrograde	13884 Jun 12 02:56	19° 5 23'48	
minimum elong	13883 Jul 08 07:25	27° © 33'23	3°08'06	evening set	13884 Jun 16 07:55	17° © 43'55	
min. Earth dist.	13883 Jul 09 09:31	26° © 06'04	0.67638 AU	inferior conj	13884 Jun 21 13:53	11° © 35'07	3°11'17
morning rise	13883 Jul 13 15:40	21° © 11'58		minimum elong	13884 Jun 21 13:36	11° © 36'08	3°10'14
direct	13883 Jul 19 11:35	18° 5 38'33		min. Earth dist.	13884 Jun 22 02:58	10° 5 49'53	0.68525 AU
desc. node	13883 Jul 23 05:52	19° © 31'26		morning rise	13884 Jun 26 19:00	5° © 15'15	
morning max el	13883 Jul 31 11:24	25°549'55	25°08'26	direct	13884 Jul 02 03:00	2° © 54'47	
	13883 Aug 04 07:04	$0^{\circ}\Omega$		desc. node	13884 Jul 09 03:10	5°956'56	
	13883 Aug 25 15:55	0° m)		morning max el	13884 Jul 12 21:47	9° © 21'18	23°40'03
morning set	13883 Sep 05 08:38	18° m) 02'50		C	13884 Jul 29 04:38	$0^{\circ}\Omega$	
max. Earth dist.	13883 Sep 08 22:31	24° m/33'20	1.36652 AU	morning set	13884 Aug 16 22:43	29° Ω 18′04	
	13883 Sep 11 19:56	0∘ ⊽			13884 Aug 17 08:36	0° m)	
		-		max. Earth dist.	13884 Aug 20 20:02	5° m) 59'53	1.38979 AU
superior conj	13883 Sep 15 10:41	7° ഫ 01'33	-0°07'50				
minimum elong	13883 Sep 15 11:10	7° ഫ 03'59		superior conj	13884 Aug 28 10:01	19° m) 45'17	-0°42'18
behind sun begin	13883 Sep 15 05:27	6° £ 35'47	0 07 15	minimum elong	13884 Aug 28 13:04	19° m 59'36	
behind sun end	13883 Sep 15 16:53	ი — 33 47 7° — 32'14		asc. node	13884 Sep 02 03:25	28° Mp 46'17	0 42 03
asc. node	13883 Sep 16 06:52	7 <u>—</u> 32 1 4 8° <u>Ω</u> 41'37		asc. node	13884 Sep 02 18:37	0° <u>م</u>	
evening rise	13883 Sep 10 00.32 13883 Sep 23 14:56	23° £ 31'58		evening rise	13884 Sep 06 13:36	0 = 7° £ 23'27	
evening rise	13883 Sep 26 20:27	0°M		evening rise	•	0°M	
	•	21°M57'25	10040155		13884 Sep 19 13:02	3°M46'10	18°48'46
evening max el	13883 Oct 10 21:17		19°42'55	evening max el	13884 Sep 22 18:21		16 46 40
desc. node	13883 Oct 19 02:01	26°M47'41		retrograde	13884 Oct 01 05:31	8°M01'32	
retrograde	13883 Oct 20 21:32	26°M57'12		evening set	13884 Oct 03 02:54	7°M49'35	
evening set	13883 Oct 22 19:31	26°M47'01		desc. node	13884 Oct 04 23:27	7°M16'09	
inferior conj	13883 Oct 31 14:30	22°M44'22		inferior conj	13884 Oct 11 07:25	3°M29'02	
minimum elong	13883 Oct 31 05:08	22°M58'59	3°45'09	minimum elong	13884 Oct 11 02:23		1°58'10
min. Earth dist.	13883 Nov 02 18:38	21°M23'01	0.55246 AU	min. Earth dist.	13884 Oct 14 08:26	1° ™ 17'48	0.56773 AU
morning rise	13883 Nov 08 13:02	18°M26'34			13884 Oct 16 07:43	30°Ŗ 죠	
direct	13883 Nov 13 14:14	17° M 30'05		morning rise	13884 Oct 18 22:38	28° ≏ 34'59	
morning max el	13883 Nov 27 10:40	24°M23'58	24°48'13	direct	13884 Oct 24 18:17	27° ≏ 13'15	
	13883 Dec 02 13:54	0° ∡			13884 Nov 02 06:03	0° M	
asc. node	13883 Dec 13 08:05	16° ∡ 07'30		morning max el	13884 Nov 07 23:27	4°M35'09	26°23'44
	13883 Dec 20 13:23	8°0			13884 Nov 26 09:15	0° ∡ ¹	
morning set	13883 Dec 23 07:32	5° る 48'53		asc. node	13884 Nov 29 05:02	5° х 09′20	
				morning set	13884 Dec 06 18:10	20° х 25′16	
superior conj	13883 Dec 30 02:14	20° ප් 40'12	1°37'23		13884 Dec 11 03:04	0°ರ	
minimum elong	13883 Dec 30 02:46	20°る43'05	1°38'23				
max. Earth dist.	13884 Jan 01 01:19	24° る 57'30	1.32210 AU	superior conj	13884 Dec 13 13:04	5° ₹ 23'12	1°37'19
	13884 Jan 03 09:34	0° ≈		minimum elong	13884 Dec 13 12:31	5°る20'07	1°38'21
evening rise	13884 Jan 06 10:17	6° ≈ 19'26		max. Earth dist.	13884 Dec 14 07:25	7° る 05'20	1.31430 AU
desc. node	13884 Jan 15 00:39	22° ≈ 48′07		evening rise	13884 Dec 20 11:43	20° る 32'18	
	13884 Jan 19 05:10	0° ∀			13884 Dec 25 03:21	0° ≈	
evening max el	13884 Feb 08 17:12	27° 升 16′20	27°33'56	desc. node	13884 Dec 31 21:26	12° ≈ 25'32	
	13884 Feb 11 19:38	0° Y			13885 Jan 12 11:09	0° ₩	
retrograde	13884 Feb 22 13:17	4° Y '42'34		evening max el	13885 Jan 21 00:52	9° ¥ 45'17	27°20'14
evening set	13884 Feb 29 10:20	2° Y 19'32		retrograde	13885 Feb 04 00:07	17° ¥ 03'20	
3	13884 Mar 03 07:23	30° ₽ ₩		evening set	13885 Feb 10 20:15	14°) € 56'37	
min. Earth dist.	13884 Mar 04 04:38		0.63067 AU	min. Earth dist.	13885 Feb 14 15:23	12°) €08'51	0.60931 AU
inferior conj	13884 Mar 07 00:40	26° ¥ 22'08		inferior conj	13885 Feb 17 18:33	9°) €25'00	
minimum elong	13884 Mar 07 02:44	26° ¥ 17'02		minimum elong	13885 Feb 17 23:39	9° ¥ 13'50	
asc. node	13884 Mar 10 05:29	23°) 24'22	1 01 25	morning rise	13885 Feb 25 06:10	4°) (31'04	- 17 .7
morning rise	13884 Mar 13 21:43	21°) (2122		asc. node	13885 Feb 25 02:56	4°) 33'28	
direct	13884 Mar 16 05:56	20°) (43'41		direct	13885 Feb 27 08:44	4°) 12'41	
morning max el	13884 Mar 22 18:59	24°) 03'57	17°46'19	morning max el	13885 Mar 06 11:02	7°) (46'33	17°54'28
morning max cr	13884 Mar 27 14:51	0° Υ	17 4017	morning max ci	13885 Mar 20 20:45	0°Υ	17 3420
morning set	13884 Apr 08 00:07	18° Υ 47'19		morning set	13885 Mar 22 01:25	2° Υ 10'13	
desc. node	13884 Apr 12 02:54	25° Υ 53'41		desc. node	13885 Mar 29 23:26	16° Υ 25'33	
desc. Hode	-			desc. flode	13863 Wai 29 23.20	10 1 23 33	
	13884 Apr 14 12:36	0°8		aunariar car:	12005 Amm 01 15:45	21000000140	0021111
aunoriae car:	12004 4 20 06:20	00226140	1000150	superior conj	13885 Apr 01 15:45	21° Y 06'48	
superior conj	13884 Apr 20 06:28	9° 8 36'48		minimum elong	13885 Apr 01 13:51	20° Y 58'35	0 21 10
minimum elong	13884 Apr 20 00:25	9° 8 11'53		ges	13885 Apr 06 21:10	0°8	1 40000 : **
max. Earth dist.	13884 Apr 26 11:52		1.44514 AU	max. Earth dist.	13885 Apr 09 01:56	3° 8 38'19	1.42890 AU
	13884 May 03 01:01	0°П		evening rise	13885 Apr 15 06:17	13° 8 34'46	
evening rise	13884 May 05 08:58	3° Ⅱ 35'56			13885 Apr 26 00:32	0°П	22002170
	13884 May 23 04:33	0.2		evening max el	13885 May 17 14:20	28° Ⅲ 25'11	22°02'59
evening max el	13884 Jun 03 19:16	14°534'56	20°48'04	_	13885 May 19 06:16	0.20 0.20	
asc. node	13884 Jun 06 02:32	16° © 41'15		asc. node	13885 May 23 23:39	3° © 15'10	

. 1	12005 M 27 00 40	20657120		. 1	12006 M 10 20 14	100 T 21127	
retrograde	13885 May 27 00:48	3°957'20		retrograde	13886 May 10 20:14	18° Ⅱ 31'27	
evening set	13885 May 31 16:46	2°901'26		asc. node	13886 May 10 20:53	18° Ⅱ 31'27	
	13885 Jun 02 16:59	30°RⅡ		evening set	13886 May 15 23:45	16° Ⅱ 21'05	
inferior conj	13885 Jun 05 23:13	25° Ⅱ 42'39	3°02'24	inferior conj	13886 May 21 08:45	9° ∏ 54'48	2°43'12
minimum elong	13885 Jun 05 22:02	25° Ⅱ 46'48	3°01'13	minimum elong	13886 May 21 06:55	10° I 01'10	2°41'52
min. Earth dist.	13885 Jun 05 23:07	25° Ⅱ 43'00	0.68938 AU	min. Earth dist.	13886 May 20 19:51	10° Ⅱ 39'16	0.68869 AU
morning rise	13885 Jun 11 03:06	19° Ⅱ 28'53		morning rise	13886 May 26 14:01	3° Ⅱ 48'35	
direct	13885 Jun 15 22:28	17° Ⅱ 26′13		direct	13886 May 30 20:45	2° Ⅱ 06′13	
morning max el	13885 Jun 25 10:03	23° Ⅱ 00′15	22°11'16	morning max el	13886 Jun 08 03:35	6° Ⅱ 50'14	20°49'48
desc. node	13885 Jun 26 00:21	23° Ⅱ 36'44		desc. node	13886 Jun 12 21:25	12° Ⅱ 11'09	
	13885 Jul 01 12:49	0			13886 Jun 25 18:51	0	
	13885 Jul 22 12:28	0 ° Ω		morning set	13886 Jul 08 02:43	18° © 39'42	
morning set	13885 Jul 28 12:28	9° Ω 28'52			13886 Jul 15 06:46	$0 {\circ} \Omega$	
max. Earth dist.	13885 Aug 02 20:25	18° Ω 14'05	1.41306 AU	max. Earth dist.	13886 Jul 16 03:41	1° Ω 24'22	1.43343 AU
	13885 Aug 09 16:54	O° Mp					
				superior conj	13886 Jul 22 23:48	12° Ω 40′27	-1°48'38
superior conj	13885 Aug 10 15:47	1° M)41'08	-1°17'27	minimum elong	13886 Jul 23 07:07	13° Ω 11'13	1°48'48
minimum elong	13885 Aug 10 21:40	2° m 07'13	1°17'12		13886 Aug 02 00:41	0° m	
asc. node	13885 Aug 19 23:58	18° m 44'24		evening rise	13886 Aug 04 00:13	3° m 30'10	
evening rise	13885 Aug 21 02:08	20° Mp 46'14		asc. node	13886 Aug 06 20:35	8° Mp 32'28	
	13885 Aug 26 02:25	0∘ ত		evening max el	13886 Aug 20 13:52	29° m 19'14	18°02'50
evening max el	13885 Sep 06 01:16	16° ≏ 16'37	18°15'52		13886 Aug 21 07:08	0∘ ত	
retrograde	13885 Sep 13 08:45	19° ≏ 59'28		retrograde	13886 Aug 27 04:49	2° £ 44'02	
evening set	13885 Sep 15 11:57	19° ≏ 41'10		evening set	13886 Aug 29 15:45	2° £ 15'40	
desc. node	13885 Sep 21 20:59	15° ♀ 51'42		-	13886 Sep 02 07:57	30°R, ₩)	
inferior conj	13885 Sep 22 22:04	14° £ 59'23	-0°19'41	inferior conj	13886 Sep 05 08:44	27° m 13'44	1°01'15
minimum elong	13885 Sep 22 21:22	15° ഫ 00'53	0°19'14	minimum elong	13886 Sep 05 10:29	27° m 09'29	1°00'28
min. Earth dist.	13885 Sep 26 05:14	12° ≙ 13'21	0.58837 AU	min. Earth dist.	13886 Sep 08 11:05	24° m) 13'35	0.61120 AU
morning rise	13885 Sep 30 03:21	9° £ 29'49		desc. node	13886 Sep 08 18:33	23° m 56'23	
direct	13885 Oct 06 12:05	7° £ 40'54		morning rise	13886 Sep 12 02:24	21° Mp 16'32	
morning max el	13885 Oct 20 19:33	15° £ 23'15	27°29'51	direct	13886 Sep 18 17:40	19° Mp 03'10	
morning man vi	13885 Nov 01 16:38	0°M	2, 2, 01	morning max el	13886 Oct 02 23:12	26° m 59'19	27°57'54
asc. node	13885 Nov 16 01:53	24°MJ36'00		morning max or	13886 Oct 05 19:48	0ಂ ರ	27 373.
use. Houe	13885 Nov 18 18:25	0° ∡ 7			13886 Oct 26 08:50	o° m .	
morning set	13885 Nov 21 01:47	4° ⋌ ¹48'56		asc. node	13886 Nov 02 22:39	14°ML20'27	
max. Earth dist.	13885 Nov 27 15:47	19° х 14'47	1.31164 AU	morning set	13886 Nov 05 04:28	18°M55'23	
max. Earth dist.	13003 1404 27 13.47	17 🗡 1447	1.51104710	morning set	13886 Nov 10 08:42	0° ₹	
superior conj	13885 Nov 28 00:39	20° х 04′23	1°31'21	max. Earth dist.	13886 Nov 10 22:35	1° ∡ 16′21	1.31427 AU
minimum elong	13885 Nov 27 23:11	19° 🖈 56'08	1°32'15	max. Lartii dist.	13000 100 10 22.33	1 × 1021	1.51427 AO
minimum ciong	13885 Dec 02 11:45	0°る	1 32 13	superior conj	13886 Nov 12 11:12	4° ∡ ³38'44	1°19'35
evening rise	13885 Dec 04 18:19	⁰ ਰ 4°ਰ56'21		minimum elong	13886 Nov 12 09:06	4° × ⁷ 27'04	1°20'14
evening rise	13885 Dec 17 20:20	4° ≈		evening rise	13886 Nov 19 04:05	19° ∡ 726′29	1 20 14
desc. node	13885 Dec 17 20:20	0 ~ 1° ≈ 30'15		evening rise	13886 Nov 24 05:46	0°る	
evening max el	13886 Jan 03 01:50	21°≈24'33	26°31'45	desc. node	13886 Dec 05 15:21	19° る 49'52	
retrograde	13886 Jan 17 00:53	28°≈31'45	20 31 43	desc. node	13886 Dec 13 14:33	0°≈	
evening set	13886 Jan 23 12:44	26°≈48'43		evening max el	13886 Dec 15 18:14	0 ~ 2°≈10'42	25°11'56
min. Earth dist.	13886 Jan 27 15:34	24°≈11'42	0.58755 AU	retrograde	13886 Dec 29 13:58	9°≈06'54	23 11 30
inferior conj	13886 Jan 30 19:09	21°≈48'36		evening set	13887 Jan 04 07:43	7°≈52'36	
minimum elong	13886 Jan 31 03:13	21°≈33'17		min. Earth dist.	13887 Jan 09 06:17		0.56769 AU
morning rise	13886 Feb 07 20:44	17°≈15'46	3 43 20	inferior conj	13887 Jan 11 23:28	3°≈23'54	
direct	13886 Feb 09 21:21	17 ≈1340 17°≈01'25		minimum elong	13887 Jan 12 08:05	3°≈09'42	
asc. node	13886 Feb 12 00:22	17 ≈01 23 17°≈17'56		minimum clong	13887 Jan 17 23:09	3 ≈0942 30°Rる	3 01 07
morning max el	13886 Feb 17 21:38	17 ≈1730 20°≈58'52	10022114	morning rise	13887 Jan 20 10:53	30 KO 29° る 13'15	
morning max er			10 22 14	•		29 る 13 13 28° る 59'17	
	13886 Feb 24 17:29	0° \ 16° \ 10'08		direct	13887 Jan 22 15:38	28 ⊘ 3917 0° ≈	
morning set	13886 Mar 05 16:31 13886 Mar 12 23:57	10 χ 1008		aga mada	13887 Jan 27 02:01 13887 Jan 29 21:46	0 ≈ 1°≈43'40	
	13880 Wai 12 23.37	UI		asc. node		1 ≈43 40 3°≈29'53	19°11'36
	12006 Mar. 14 22.57	201020127	0015107	morning max el	13887 Jan 31 22:48		19 11 30
superior conj	13886 Mar 14 22:57	3° Y 36'37 3° Y 41'35	0°15'06	morning set	13887 Feb 17 10:11	0° ₩	
minimum elong	13886 Mar 15 00:02	3° γ ′41′35 3° γ ′30′03	0°14'58	morning set	13887 Feb 17 17:03	0°) 34′04	
behind sun begin	13886 Mar 14 21:31			aumania	12007 E-L 25 22 41	160M 5 4100	0945110
behind sun end	13886 Mar 15 02:33	3° Y 53'06		superior conj	13887 Feb 25 23:41	16° ¥ 54'08	0°45'19
desc. node	13886 Mar 16 19:55	7° Υ 00'41	1 40026 433	minimum elong	13887 Feb 26 02:11	17° ¥ 06′10	0°45'17
max. Earth dist.	13886 Mar 22 11:46	16° Y 57'01	1.40836 AU	desc. node	13887 Mar 03 16:23	27° ¥ 35'42	1 20501 477
evening rise	13886 Mar 26 22:48	24° Y 25'51		max. Earth dist.	13887 Mar 04 18:27	29°) 33′50	1.38581 AU
	13886 Mar 30 09:17	0°B			13887 Mar 05 00:16	0° Υ	
	13886 Apr 19 20:42	0°II	22022122	evening rise	13887 Mar 08 12:28	6° Y 11'19	
evening max el	13886 Apr 30 05:43	12° Ⅱ 17'05	23°23'33		13887 Mar 23 09:04	0° 8	

evening max el	13887 Apr 12 19:19	26° 8 09'48	24943!25		13888 Mar 16 13:03	0°B	
evening max er	13887 Apr 12 19.19 13887 Apr 17 04:51	20 О 0948	24 43 23	evening max el	13888 Mar 25 08:48	10° 8 01'34	25°55'30
ratragrada	13887 Apr 17 04.31 13887 Apr 24 12:05	0 П 2°П59'38		retrograde	13888 Apr 06 23:25	10 8 01 34	23 33 30
retrograde asc. node	13887 Apr 24 12.03	2 П 3938 2° П 13'27		evening set	13888 Apr 13 01:37	17 8 13 49	
	•	2 щ13 27 0°Щ37'33		=	•	14° 8 15'24	
evening set	13887 Apr 30 03:15			asc. node	13888 Apr 13 15:39		0.67256.411
i To at 11 a	13887 Apr 30 19:47	30°₹ ႘	0.60224.444	min. Earth dist.	13888 Apr 17 06:42		0.67356 AU
min. Earth dist.	13887 May 04 15:03	25° 8 32'05	0.68334 AU	inferior conj	13888 Apr 18 20:47	8° 8 16'15	1°33'37
inferior conj	13887 May 05 16:36	24° 8 07'09	2°13'43	minimum elong	13888 Apr 18 18:49	8° 8 22'25	1°32'24
minimum elong	13887 May 05 14:27	24° 8 14'19	2°12'20	morning rise	13888 Apr 24 12:43	2° 8 28'31	
morning rise	13887 May 11 01:52	18° 8 09'34		direct	13888 Apr 27 20:05	1° 8 26'09	
direct	13887 May 14 20:27	16° 8 47'57		morning max el	13888 May 04 12:34	5° 8 02'05	18°46'57
morning max el	13887 May 22 04:23	20° 8 51'35	19°40'44	desc. node	13888 May 16 15:10	21° 8 07'39	
	13887 May 29 17:44	Π °0		greatest brilliancy	13888 May 18 15:24	24° 8 11'15	-0.8m
desc. node	13887 May 30 18:21	1° Ⅱ 24'53			13888 May 22 09:48	Π °0	
greatest brilliancy	13887 Jun 03 21:31	7° Ⅱ 19'25	-0.6m	morning set	13888 May 26 15:21	6° Ⅱ 34'44	
morning set	13887 Jun 17 04:40	27° Ⅲ 22'05		max. Earth dist.	13888 Jun 10 10:55	29° Ⅱ 40'13	1.45712 AU
	13887 Jun 18 21:43	0°			13888 Jun 10 15:59	0 \circ \odot	
max. Earth dist.	13887 Jun 28 17:11	15° © 18'11	1.44860 AU				
				superior conj	13888 Jun 11 21:21	1°954'50	-2°12'29
superior conj	13887 Jul 03 08:00	22° © 39'32	-2°09'17	minimum elong	13888 Jun 11 18:41	1° 5 44'27	2°13'30
minimum elong	13887 Jul 03 12:38	22° © 58'09	2°10'07	evening rise	13888 Jun 27 05:07	26° © 12'09	
	13887 Jul 07 20:44	$0^{\circ}\Omega$			13888 Jun 29 13:51	$0^{\circ}\Omega$	
evening rise	13887 Jul 17 02:39	15° Ω 21'51		asc. node	13888 Jul 10 14:03	17° Ω 16′36	
asc. node	13887 Jul 24 17:16	28° Ω 05′10		evening max el	13888 Jul 17 17:30	26° Ω 23'05	18°32'24
	13887 Jul 25 21:35	0° m)		retrograde	13888 Jul 24 05:10	29° Ω 52'59	
evening max el	13887 Aug 04 04:19	12° mp 43'58	18°08'38	evening set	13888 Jul 27 09:10	28° Ω 56'22	
retrograde	13887 Aug 10 13:02	16° m) 04'41		inferior conj	13888 Aug 02 02:12	23° Ω 21'16	2°39'27
evening set	13887 Aug 13 08:18	15° m) 23'19		minimum elong	13888 Aug 02 04:21	23° Ω 14'46	2°38'17
inferior conj	13887 Aug 19 11:27	10° m ₀ 03'45	2°00'11	min. Earth dist.	13888 Aug 04 03:48		0.65326 AU
minimum elong	13887 Aug 19 13:55	9° m/ 56'56	1°59'00	morning rise	13888 Aug 07 22:22	16° Ω 58'22	0.03320710
min. Earth dist.	13887 Aug 22 02:48	7° m ₀ 10'12	0.63348 AU	desc. node	13888 Aug 12 13:36	14°Ω30'56	
morning rise	13887 Aug 25 17:38	3° m/ 49'07	0.03340 AC	direct	13888 Aug 14 09:16	$14^{\circ}\Omega 18'52$	
desc. node	13887 Aug 26 16:06	3°m/09'18		morning max el	13888 Aug 27 18:58	$22^{\circ}\Omega 12'48$	27003146
direct	•			morning max ci	•	0° m)	27 03 40
	13887 Sep 01 09:15 13887 Sep 15 07:59	1° Mp 18'03 9° Mp 19'27	27°47'26		13888 Sep 03 15:05 13888 Sep 23 16:27	0∘ ت المار	
morning max el		0∘ ত الأ167/	2/4/20	morning gat	13888 Oct 02 09:28		
	13887 Oct 01 10:41			morning set		15° £ 53'15	1 22571 ATT
	13887 Oct 18 16:02	0°M,		max. Earth dist.	13888 Oct 06 16:15	24° £ 22'11	1.33571 AU
morning set	13887 Oct 19 23:58	2°M38'59		asc. node	13888 Oct 06 15:56	24° £ 20'38	
asc. node	13887 Oct 20 19:19	4°M16'48	1 22220 4 1 1		13888 Oct 09 09:51	0° M .	
max. Earth dist.	13887 Oct 24 23:53	13°11600'30	1.32228 AU		12000 0 + 10 21 00	2011 0511 5	0020150
				superior conj	13888 Oct 10 21:08	3°M05'15	0°38'58
superior conj	13887 Oct 27 18:45	19°M00'50	1°02'05	minimum elong	13888 Oct 10 19:18	2°M55'31	0°39'06
minimum elong	13887 Oct 27 16:29	18° M .48′26	1°02'27	evening rise	13888 Oct 18 01:41	18° M ₊25'34	
	13887 Nov 01 19:17	0° ∡ ¹			13888 Oct 23 17:39	0° ∡ ¹	
evening rise	13887 Nov 03 15:10	3° ∡ 757'45		evening max el	13888 Nov 07 16:39	22° ∡ ¹20′08	21°51'45
	13887 Nov 17 10:16	0°ಕ		desc. node	13888 Nov 08 09:47	23° ∡ 01′02	
desc. node	13887 Nov 22 12:31	7° る 07'37		retrograde	13888 Nov 20 03:56	28° ∡ ³30′56	
evening max el	13887 Nov 27 04:24	12° る 17'54	23°32'45	evening set	13888 Nov 23 07:23	28° ∡ ¹08'47	
retrograde	13887 Dec 10 14:31	18° る 58'28		inferior conj	13888 Dec 02 01:14	24° ∡ 15'14	
evening set	13887 Dec 15 03:14	18° る 13'52		minimum elong	13888 Dec 01 19:58	24° ∡ ¹22'37	5°46'34
min. Earth dist.	13887 Dec 21 14:51		0.55259 AU	min. Earth dist.	13888 Dec 01 21:04	24° ₹ ¹21'05	0.54522 AU
inferior conj	13887 Dec 23 07:26	14° る 08'43		morning rise	13888 Dec 10 09:29	20° ∡ 27'44	
minimum elong	13887 Dec 23 11:09	14° る 03'16	5°51'01	direct	13888 Dec 13 23:51	19° ∡ 759'15	
morning rise	13887 Dec 31 20:46	10° る 15'56		morning max el	13888 Dec 26 08:18	25° ∡ ¹54'57	21°58'17
direct	13888 Jan 03 14:16	9° る 57'45			13888 Dec 30 02:52	0°ප	
morning max el	13888 Jan 14 10:48	15° る 09'43	20°24'08	asc. node	13889 Jan 02 16:19	4° ප 45'08	
asc. node	13888 Jan 16 19:06	17° る 38'42		morning set	13889 Jan 16 10:04	29° る 57'06	
	13888 Jan 25 03:38	0° ≈			13889 Jan 16 10:37	0° ≈	
morning set	13888 Feb 01 23:47	15° ≈ 12'32					
	13888 Feb 09 04:16	0°)		superior conj	13889 Jan 23 12:44	15° ≈ 03'36	1°24'57
				minimum elong	13889 Jan 23 14:51	15° ≈ 14'43	1°25'33
superior conj	13888 Feb 09 13:34	0°) 47′08	1°08'36	max. Earth dist.	13889 Jan 27 14:23	23° ≈ 28′28	1.34427 AU
minimum elong	13888 Feb 09 16:15	1° ∺ 00'41	1°08'51		13889 Jan 30 21:15	0° ∀	
max. Earth dist.							
man. Darth and.	13888 Feb 15 01:45	11°) 38′00	1.36371 AU	evening rise	13889 Jan 31 21:30	1° ∺ 57'06	
evening rise		11°) 38′00 18°) 45′15	1.36371 AU	evening rise desc. node	13889 Jan 31 21:30 13889 Feb 04 09:29	1° 米 5/'06 8° 米 30'25	
	13888 Feb 15 01:45		1.36371 AU	-			
evening rise	13888 Feb 15 01:45 13888 Feb 18 21:14	18° ¥ 45'15	1.36371 AU	-	13889 Feb 04 09:29	8°) 30′25	26°52'31

	13889 Mar 16 08:51	0°B			13890 Jan 07 22:46	0° ≈	
retrograde	13889 Mar 21 05:05	1° 8 11'01		max. Earth dist.	13890 Jan 07 22:40 13890 Jan 10 10:56	0 ≈ 5°≈23'11	1.32889 AU
retrograde	13889 Mar 25 16:17	1 01101 30°RΥ		evening rise	13890 Jan 15 09:51	3 ≈23 11 15°≈38'16	1.32009 AU
ovening set	13889 Mar 27 16:55	28° Y 38'51		desc. node	13890 Jan 22 06:08	13 ≈38 16 28°≈40'46	
evening set min. Earth dist.	13889 Mar 31 16:38	24° Υ 42'32	0.65965 AU	desc. Hode	13890 Jan 22 23:48	28 ≈ 40 40	
asc. node	13889 Mar 31 13:06	24 1 42 32 24°Υ52'33	0.03903 AU		13890 Feb 11 22:29	0 Υ	
		24° 13233 22° $15'54$	0942116	avanina may al		0 1 7° Υ 09'09	2792650
inferior conj	13889 Apr 02 19:02	22° \bigvee 15'34 22° \bigvee 19'05	0°42'16	evening max el	13890 Feb 18 11:41	14° Y 36'42	27°26'59
minimum elong	13889 Apr 02 17:57		0°41'34	retrograde	13890 Mar 04 04:05		
morning rise	13889 Apr 08 20:19	16° Y 39'48		evening set	13890 Mar 10 22:57	12° Y 08′28	0.64212.441
direct	13889 Apr 11 17:36	15° Y 54'05	10000140	min. Earth dist.	13890 Mar 14 18:44	8° Υ 43'20	0.64213 AU
morning max el	13889 Apr 18 02:28	19° Y 14'48	18°09'48	inferior conj	13890 Mar 17 08:45	5° Υ 59'43	
	13889 Apr 26 09:12	0°8		minimum elong	13890 Mar 17 09:23	5°Υ58'02 4°Υ52'15	0°20'33
desc. node	13889 May 03 11:52	11° 8 10'57		asc. node	13890 Mar 18 10:34		
morning set	13889 May 07 03:04	17° 8 01'58		morning rise	13890 Mar 23 21:55	0° Y 37'40	
	13889 May 15 05:27	Π $^{\circ}$ 0		direct	13890 Mar 26 10:32	0° Υ 05'18	17040150
	12000 14 22 05 40	110110250	1055125	morning max el	13890 Apr 01 19:37	3° Y 22′27	17°49'50
superior conj	13889 May 22 05:49	11° I I03'50		morning set	13890 Apr 18 18:45	28° Y 50'16	
minimum elong	13889 May 21 21:18	10° Ⅱ 30′29			13890 Apr 19 11:19	0°8	
max. Earth dist.	13889 May 24 06:44	14° Ⅱ 15'13	1.45826 AU	desc. node	13890 Apr 20 08:28	1° 8 28'54	
	13889 Jun 03 09:40	0°9					
evening rise	13889 Jun 07 07:52	6° © 05'19		superior conj	13890 May 02 02:34	20° 8 51'01	
greatest brilliancy	13889 Jun 19 02:18	24°9510'53	-0.7m	minimum elong	13890 May 01 18:25	20° 8 18'12	
	13889 Jun 23 01:11	0 \circ Ω		max. Earth dist.	13890 May 07 02:31	28° 8 48'51	1.45196 AU
asc. node	13889 Jun 27 10:55	5° Ω 58'51			13890 May 07 20:34	0 ° Π	
evening max el	13889 Jul 01 02:51	10° Ω 09'45	19°13'16	evening rise	13890 May 17 20:18	15° Ⅱ 29'36	
retrograde	13889 Jul 08 01:50	14° Ω 01'31			13890 May 27 10:32	0 \circ \odot	
evening set	13889 Jul 11 15:06	12° Ω 48'15		asc. node	13890 Jun 14 07:53	24° © 01'54	
inferior conj	13889 Jul 17 01:29	6° Ω 59'04	3°02'17	evening max el	13890 Jun 14 06:45	23° 9 59'04	20°09'36
minimum elong	13889 Jul 17 02:47	6° Ω 54'51	3°01'14	retrograde	13890 Jun 22 00:31	28° 5 24'12	
min. Earth dist.	13889 Jul 18 12:35	5° Ω 05'13	0.66925 AU	evening set	13890 Jun 25 23:40	26° © 53'47	
morning rise	13889 Jul 22 13:51	0° Ω 34'28		inferior conj	13890 Jul 01 06:28	20° © 51'42	3°11'27
	13889 Jul 23 06:27	30° ₹ 5		minimum elong	13890 Jul 01 06:45	20° © 50'45	3°10'25
direct	13889 Jul 28 16:06	27° © 56'16		min. Earth dist.	13890 Jul 02 03:20	19° 5 540'42	0.68081 AU
desc. node	13889 Jul 30 11:02	28°908'12		morning rise	13890 Jul 06 13:30	14° 5 29'31	
	13889 Aug 03 17:53	$0^{\circ}\Omega$		direct	13890 Jul 12 04:34	12° © 00'55	
morning max el	13889 Aug 10 05:55		25°55'16	desc. node	13890 Jul 17 08:22	13°5940'07	
	13889 Aug 29 03:45	0° m		morning max el	13890 Jul 23 16:16	18° © 53'44	24°31'25
morning set	13889 Sep 15 05:31	28° m 29'40			13890 Aug 02 01:41	$0^{\circ}\Omega$	
	13889 Sep 16 01:04	0∘ ⊽			13890 Aug 22 05:58	0° m)	
max. Earth dist.	13889 Sep 18 22:39	5° £ 28'13	1.35414 AU	morning set	13890 Aug 28 07:48	10° m 17'16	
asc. node	13889 Sep 23 12:30	14° ≏ 27'55		max. Earth dist.	13890 Aug 31 22:08	16° Mp 40'47	1.37631 AU
superior conj	13889 Sep 24 15:43	16° ≏ 45'16	0°10'37	superior conj	13890 Sep 07 23:10	29° m 52'00	
minimum elong	13889 Sep 24 15:06	16° ≏ 42'08	0°10'41	minimum elong	13890 Sep 08 00:39	29° m 59'13	0°21'59
behind sun begin	13889 Sep 24 10:29	16° ≏ 18'45			13890 Sep 08 00:49	0∘ ⊽	
behind sun end	13889 Sep 24 19:42	17° ≏ 05'32		asc. node	13890 Sep 10 09:02	4° £ 34'23	
	13889 Oct 01 01:45	0°M₊		evening rise	13890 Sep 16 12:26	16° ≏ 48'34	
evening rise	13889 Oct 02 09:35	2°M44'50			13890 Sep 23 09:00	0° M ₊	
	13889 Oct 18 01:27	0° ∡ ¹		evening max el	13890 Oct 03 05:30	14°M13'32	19°17'09
evening max el	13889 Oct 20 15:59	2° ≯ 53′20	20°24'07	retrograde	13890 Oct 12 12:53	18°M53'21	
desc. node	13889 Oct 26 07:08	7° ҂ 03'53		desc. node	13890 Oct 13 04:35	18°M52'02	
retrograde	13889 Oct 31 14:53	8° ∡ 120′09		evening set	13890 Oct 14 09:36	18°M42'56	
evening set	13889 Nov 02 19:14	8° ≯ 08'11		inferior conj	13890 Oct 22 23:18	14°MJ33'04	
inferior conj	13889 Nov 11 17:53	4° ∡ 12'37	-4°44'48	minimum elong	13890 Oct 22 15:32	14°M45'55	2°59'58
minimum elong	13889 Nov 11 07:49	4° ∡ ¹27'19	4°41'14	min. Earth dist.	13890 Oct 25 14:03	12°M49'33	0.55814 AU
min. Earth dist.	13889 Nov 13 03:53	3° ≮ 22'55	0.54720 AU	morning rise	13890 Oct 30 19:04	10°ML00'49	
morning rise	13889 Nov 19 19:53	0° ∡ 11'37		direct	13890 Nov 05 04:43	8°M54'21	
	13889 Nov 20 11:31	30°RML		morning max el	13890 Nov 19 05:39	16°ML00'09	25°31'38
direct	13889 Nov 24 09:17	29°M26'51			13890 Nov 30 12:43	0° ∡ ¹	
	13889 Nov 28 05:20	0° ∡ ¹		asc. node	13890 Dec 07 10:26	11° ∡ ¹29'25	
morning max el	13889 Dec 07 19:36	6° ₰ 01'01	23°46'04	morning set	13890 Dec 16 09:26	29° ∡ ¹22'57	
asc. node	13889 Dec 20 13:26	22° ∡ ¹46'46			13890 Dec 16 16:18	0°ಕ	
	13889 Dec 24 15:15	0°ರ					
morning set	13889 Dec 31 21:52	14° る 42'20		superior conj	13890 Dec 23 03:43	14° ප 15'36	1°38'05
				minimum elong	13890 Dec 23 03:47	14° ප 15'55	1°39'07
superior conj	13890 Jan 07 18:16	29° ප 35'31		max. Earth dist.	13890 Dec 24 14:25	17° る 27'08	1.31819 AU
minimum elong	13890 Jan 07 19:25	29° ට 41'45	1°35'33	evening rise	13890 Dec 30 07:14	29° る 40'47	

	13890 Dec 30 10:57	0° ≈			13891 Dec 08 02:12	0°₹	
desc. node	13891 Jan 09 02:53	0 ~ 18° ≈ 32'06		evening rise	13891 Dec 14 11:07	13° る 58'21	
dese. Hode	13891 Jan 16 01:50	0° ∀		evening rise	13891 Dec 22 11:57	0°≈	
evening max el	13891 Jan 31 22:00	20° ∺ 01'16	27°32'18	desc. node	13891 Dec 26 23:44	7°≈56'37	
retrograde	13891 Feb 14 19:27	27° ¥ 23'45	27 32 10	dese. Hode	13892 Jan 11 23:23	0° ¥	
evening set	13891 Feb 21 17:06	25° \ 06'41		evening max el	13892 Jan 14 02:52	2° ¥ 08'42	27°03'47
min. Earth dist.	13891 Feb 25 11:12	22° \ 07'51	0.62178 AU	retrograde	13892 Jan 28 02:16	9° ¥ 22'50	2, 03 .,
inferior conj	13891 Feb 28 10:51	19°) 19'46		evening set	13892 Feb 03 20:06	7°) 24'59	
minimum elong	13891 Feb 28 14:08	19° ¥ 12'02		min. Earth dist.	13892 Feb 07 17:11		0.59992 AU
asc. node	13891 Mar 05 08:02	15°) 19'33		inferior conj	13892 Feb 10 21:47	2°¥06'23	
morning rise	13891 Mar 07 13:59	14° ¥ 14'53		minimum elong	13892 Feb 11 04:15	1°) 53'03	
direct	13891 Mar 09 19:38	13° ¥ 52'22			13892 Feb 13 13:58	30°R≈	2 00 00
morning max el	13891 Mar 16 13:04	17°) 16'49	17°47'34	morning rise	13892 Feb 18 15:38	27° ≈ 21'35	
morning man er	13891 Mar 25 15:45	0°Υ	1, 1,5.	asc. node	13892 Feb 20 05:30	27°≈06'15	
morning set	13891 Apr 01 09:35	11° Υ 44'01		direct	13892 Feb 20 16:49	27°≈05'23	
desc. node	13891 Apr 07 05:01	21° Y ′56'53			13892 Feb 27 06:44	0° ∀	
dese. node	13891 Apr 11 21:38	0°8		morning max el	13892 Feb 28 03:20	0°) 47'49	18°03'54
	1307171p1 11 21.50	° O		morning set	13892 Mar 14 17:20	25° ¥ 23'57	10 03 3 1
superior conj	13891 Apr 12 21:59	1° 8 42'41	-0°43'53	morning sec	13892 Mar 17 04:49	0° Υ	
minimum elong	13891 Apr 12 17:45	1° 8 24'53		desc. node	13892 Mar 24 01:31	12° Υ 30'19	
max. Earth dist.	13891 Apr 19 19:32	13° 8 04'09	1.43887 AU	desc. node	130)2 Wai 21 01.31	12 (301)	
evening rise	13891 Apr 27 10:13	25° 8 05'50	1.45007710	superior conj	13892 Mar 24 17:05	13° Y '39'31	-0°05'13
evening rise	13891 Apr 30 14:43	0°Ⅱ		minimum elong	13892 Mar 24 16:39	13° Y 37'35	0°05'16
	13891 May 21 12:00	0°©		behind sun begin	13892 Mar 24 10:39	13° Y ′04'38	0 03 10
evening max el	13891 May 28 04:45	7°\$548'58	21°18'49	behind sun end	13892 Mar 25 00:04	13 γ 04 38 14° Υ 10'27	
asc. node	13891 Jun 01 04:57	11°S13'12	21 10 49	max. Earth dist.	13892 Apr 01 07:36	26° Y 44'25	1.42046 AU
retrograde	13891 Jun 05 23:17	11 913 12 12°955'54		max. Earth dist.	13892 Apr 01 07.36 13892 Apr 03 06:51	0° 8	1.42046 AU
evening set	13891 Jun 10 08:57	12 933 34 11°908'48		evening rise	13892 Apr 03 06.31 13892 Apr 06 14:57	5° 8 24'53	
inferior conj	13891 Jun 15 14:50	4°\$55'21	3°08'49	evening rise	13892 Apr 00 14.37 13892 Apr 22 20:32	0° П	
	13891 Jun 15 14:08	4°957'47	3°07'43	avanina may al	13892 Apr 22 20:32 13892 May 09 21:51	0 H 21°H38'59	22°36'53
minimum elong min. Earth dist.	13891 Jun 15 14.08	4 93747 4°9529'53	0.68761 AU	evening max el asc. node	•	21 Ⅲ 38 39 27° Ⅲ 16'11	22 30 33
IIIII. Eartii tist.	13891 Jun 19 10:09	4 9 29 33 30°R Ⅱ	0.08/01 AU		13892 May 18 02:09	27° I I30'18	
		28° ∏ 38'03		retrograde	13892 May 19 20:27	27°Щ30°18 25°Щ27'54	
morning rise	13891 Jun 20 19:08			evening set	13892 May 24 17:14		2055122
direct	13891 Jun 25 21:44	26° Ⅱ 24'59		inferior conj	13892 May 30 00:30	19° Ⅱ 05'18	2°55'32
1 1	13891 Jul 03 10:59	0°©		minimum elong	13892 May 29 23:00	19° Ⅱ 10'31	2°54'17
desc. node	13891 Jul 04 05:35	0°540'22	22001155	min. Earth dist.	13892 May 29 18:52	19° Ⅱ 24'55	0.68961 AU
morning max el	13891 Jul 06 03:18	2° © 29'17	23°01'55	morning rise	13892 Jun 04 04:39	12° Ⅱ 54'29	
	13891 Jul 27 01:47	0°N		direct	13892 Jun 08 18:29	11° I I00'28	21025124
morning set	13891 Aug 09 11:56	21°Ω06'18	1 20002 411	morning max el	13892 Jun 17 17:35	16° Ⅱ 13'00	21°35'24
max. Earth dist.	13891 Aug 13 20:44		1.39993 AU	desc. node	13892 Jun 20 02:43	18° Ⅱ 45'17	
	13891 Aug 14 18:07	0° m)			13892 Jun 28 22:42	0°©	
	12001 1 21 15 26	100 - 10110	0055101		13892 Jul 19 02:29	0°N	
superior conj	13891 Aug 21 15:36	12° To 16'40		morning set	13892 Jul 19 15:13	0°Ω50'20	1 40001 177
minimum elong	13891 Aug 21 19:53	12° Tp 36'18	0°5/'04	max. Earth dist.	13892 Jul 25 23:30	11° Ω 04'50	1.42221 AU
asc. node	13891 Aug 28 05:35	24° m/36'52				0	
evening rise	13891 Aug 31 07:20	0° ჲ 29'32		superior conj	13892 Aug 02 12:34	23° Ω 49'10	
	13891 Aug 31 01:10	0° ⊽	1000000	minimum elong	13892 Aug 02 19:23	24° Ω 18'40	1°31'22
evening max el	13891 Sep 16 07:12	26° £ 20'37	18°32'07		13892 Aug 06 01:13	0° m)	
	13891 Sep 21 21:10	0°M,		evening rise	13892 Aug 13 14:22	13° Mp 37'22	
retrograde	13891 Sep 24 05:26	0°M20'52		asc. node	13892 Aug 14 02:12	14° m 31'18	
evening set	13891 Sep 26 04:43	0° ™ 06'48			13892 Aug 22 21:46	0∘ ত	
	13891 Sep 26 15:12	30° Ŗ Ω		evening max el	13892 Aug 29 17:02	9° ≙ 06'04	18°07'56
desc. node	13891 Sep 30 02:04	28° ≏ 26′00		retrograde	13892 Sep 05 16:20	12° ≏ 39'37	
inferior conj	13891 Oct 04 01:29	25° ≏ 36'58		evening set	13892 Sep 07 22:34	12° ≏ 17'36	
minimum elong	13891 Oct 03 22:28	25° ≏ 42'48	1°14'14	inferior conj	13892 Sep 15 01:07	7° ≏ 27'15	0°17'20
min. Earth dist.	13891 Oct 07 06:35	23° ≏ 08'41	0.57607 AU	minimum elong	13892 Sep 15 01:42	7° ≏ 25'57	0°17'09
morning rise	13891 Oct 11 12:44	20° ≏ 26'51		desc. node	13892 Sep 15 23:35	6° ≏ 36'22	
direct	13891 Oct 17 14:28	18° ≏ 53'47		min. Earth dist.	13892 Sep 18 07:25	4° ≏ 32'11	0.59799 AU
morning max el	13891 Oct 31 21:35	26° ≏ 25'19	26°56'14	morning rise	13892 Sep 22 01:31	1° ≏ 44'25	
	13891 Nov 04 07:21	0° M ₊			13892 Sep 26 04:58	30°R, Mp	
	13891 Nov 23 22:28	0° ∡ ¹		direct	13892 Sep 28 13:48	29° m 44'12	
asc. node	13891 Nov 24 07:20	0° х 42′25			13892 Sep 30 23:50	0∘ ত	
morning set	13891 Nov 30 19:00	13° х 54′16		morning max el	13892 Oct 12 21:13	7° ≏ 34'16	27°46'33
					13892 Oct 29 21:31	0° M	
superior conj	13891 Dec 07 15:06	28° ₹ ′58′02	1°35'29	asc. node	13892 Nov 10 04:10	20°M17'34	
minimum elong	13891 Dec 07 14:08	28° ₹ ′52'36	1°36'30	morning set	13892 Nov 14 00:49	28°M11'44	
max. Earth dist.	13891 Dec 07 21:56	29° ∡ ³36′15	1.31251 AU		13892 Nov 14 21:17	0° ∡ ¹	

max. Earth dist.	13892 Nov 20 06:01	11° √ 43'09	1.31204 AU	superior conj	13893 Nov 05 12:04	28°M07'35	1°12'53
				minimum elong	13893 Nov 05 09:50	27°M55'14	1°13'24
superior conj	13892 Nov 21 02:32	13° ∡ ³37'30	1°27'04		13893 Nov 06 08:27	0° ∡ 7	
minimum elong	13892 Nov 21 00:45	13° ∡ °27'33	1°27'53	evening rise	13893 Nov 12 05:54	12° ∡ ′57′13	
evening rise	13892 Nov 27 19:20	28° ∡ ¹25'52			13893 Nov 20 16:39	0°₹	
	13892 Nov 28 12:54	0°ප		desc. node	13893 Nov 29 17:48	14° る 39'53	
desc. node	13892 Dec 12 20:42	26° る 44'12		evening max el	13893 Dec 07 13:32	23° る 52'32	24°31'13
	13892 Dec 15 00:12	0° ≈			13893 Dec 16 22:46	0° ≈	
evening max el	13892 Dec 26 00:12	13° ≈ 25′06	26°01'10	retrograde	13893 Dec 21 06:30	0° ≈ 42'36	
retrograde	13893 Jan 08 22:47	20° ≈ 28'37			13893 Dec 25 15:36	30°Rる	
evening set	13893 Jan 15 04:02	18° ≈ 57'23		evening set	13893 Dec 26 12:53	29° る 41'36	
min. Earth dist.	13893 Jan 19 13:20	16° ≈ 20′23	0.57861 AU	min. Earth dist.	13894 Jan 01 01:17	26° る 51'58	0.56051 AU
inferior conj	13893 Jan 22 14:05	14° ≈ 10'41	-4°21'38	inferior conj	13894 Jan 03 09:31	25° る 24'22	-5°29'33
minimum elong	13893 Jan 22 22:52	13° ≈ 54'57	4°18'13	minimum elong	13894 Jan 03 16:49	25° る 12'57	5°27'19
morning rise	13893 Jan 30 20:38	9° ≈ 47'29		morning rise	13894 Jan 11 22:46	21° る 21'48	
direct	13893 Feb 01 21:52	9° ≈ 33'56		direct	13894 Jan 14 07:47	21° る 06'39	
asc. node	13893 Feb 06 02:55	10° ≈ 34'37		asc. node	13894 Jan 24 00:17	25° る 39'52	
morning max el	13893 Feb 10 10:34	13° ≈ 44'43	18°40'31	morning max el	13894 Jan 24 06:27	25° る 54'35	19°39'31
	13893 Feb 21 11:48	0°) €			13894 Jan 27 21:05	0° ≈	
morning set	13893 Feb 26 12:57	9°) 35′27		morning set	13894 Feb 10 16:29	24° ≈ 06′21	
					13894 Feb 13 14:24	0°) €	
superior conj	13893 Mar 07 08:22	26°) €31'21	0°28'43				
minimum elong	13893 Mar 07 10:14	26°) € 40′03	0°28'35	superior conj	13894 Feb 18 15:10	10°) (04'44	0°56'03
	13893 Mar 09 05:19	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	13894 Feb 18 17:52	10°) (18′00	0°56'06
desc. node	13893 Mar 10 22:02	3° Y 05'58		max. Earth dist.	13894 Feb 24 21:40	22°) €03'45	1.37626 AU
max. Earth dist.	13893 Mar 14 15:18	9° Ƴ 43'06	1.39882 AU	desc. node	13894 Feb 25 18:33	23°) (39′42	
evening rise	13893 Mar 18 16:37	16° Ƴ 39'50		evening rise	13894 Feb 28 14:49	28°) (46′53	
	13893 Mar 26 22:42	0°B			13894 Mar 01 07:24	$0^{\circ}\mathbf{\Upsilon}$	
	13893 Apr 17 11:21	$\Pi^{\circ}0$			13894 Mar 20 07:15	9° 8	
evening max el	13893 Apr 22 12:14	5° Ⅲ 31′08	23°58'03	evening max el	13894 Apr 05 01:50	19° 8 24'23	25°15'33
retrograde	13893 May 03 14:36	12° Ⅲ 02'09		retrograde	13894 Apr 17 04:30	26° 8 25'32	
asc. node	13893 May 04 23:26	11° Ⅲ 53'48		asc. node	13894 Apr 21 20:48	24° 8 52'42	
evening set	13893 May 08 22:56	9° Ⅱ 46'37		evening set	13894 Apr 23 00:26	23° 8 59'53	
min. Earth dist.	13893 May 13 15:20	4° Ⅱ 20′02	0.68694 AU	min. Earth dist.	13894 Apr 27 09:20	19° 8 09'27	0.67971 AU
inferior conj	13893 May 14 09:35	3° Ⅱ 17'56	2°31'59	inferior conj	13894 Apr 28 16:07	17° 8 29'17	1°58'03
minimum elong	13893 May 14 07:33	3° Ⅲ 24'51	2°30'37	minimum elong	13894 Apr 28 13:59	17° 8 36'15	1°56'43
	13893 May 16 22:18	30° Ŗ ႘		morning rise	13894 May 04 03:52	11° 8 35'31	
morning rise	13893 May 19 16:12	27° 8 14'58		direct	13894 May 07 17:39	10° 8 22'08	
direct	13893 May 23 17:39	25° 8 41'26		morning max el	13894 May 14 17:53	14° 8 12'13	19°15'51
	13893 May 31 11:02	$\Pi^{\circ}0$		desc. node	13894 May 24 20:37	27° 8 04'31	
morning max el	13893 May 31 13:58	0° Ⅱ 07'13	20°18'36		13894 May 26 20:36	$\Pi^{\circ}0$	
desc. node	13893 Jun 06 23:43	7° Ⅱ 37'36		greatest brilliancy	13894 May 27 12:56	1° Ⅱ 00′29	-0.7m
	13893 Jun 22 13:21	0 \circ \mathfrak{S}		morning set	13894 Jun 08 01:00	18° Ⅲ 30′00	
morning set	13893 Jun 28 22:01	9° 5 42'19			13894 Jun 15 11:21	0 \circ \odot	
max. Earth dist.	13893 Jul 08 09:02	24° © 33'00	1.44062 AU	max. Earth dist.	13894 Jun 21 00:51	8° 5 41'40	1.45311 AU
	13893 Jul 11 18:12	$0^{\circ}\Omega$					
				superior conj	13894 Jun 24 09:30	13° © 59'48	-2°13'05
superior conj	13893 Jul 14 10:26	4° Ω 22′26	-1°59'07	minimum elong	13894 Jun 24 11:24	14° © 07'17	2°14'07
minimum elong	13893 Jul 14 17:16	4° Ω 50'33	1°59'34		13894 Jul 04 08:28	$0^{\circ}\Omega$	
evening rise	13893 Jul 27 04:42	26° Ω 00'04		evening rise	13894 Jul 08 21:17	7° Ω 26′09	
	13893 Jul 29 12:04	o° mp		asc. node	13894 Jul 18 19:35	23° Ω 37'48	
asc. node	13893 Jul 31 22:51	4° m) 13'18			13894 Jul 23 01:42	o° my	
evening max el	13893 Aug 13 06:56	22° m 19'33	18°03'07	evening max el	13894 Jul 27 21:16	5° m 51'48	18°16'38
retrograde	13893 Aug 19 17:57	25° Mp 40'36		retrograde	13894 Aug 03 05:59	9° m 14'31	
evening set	13893 Aug 22 08:26	25° m 07'01		evening set	13894 Aug 06 05:02	8° Mp 26'42	
inferior conj	13893 Aug 28 19:07	19° m 57'35	1°28'47	inferior conj	13894 Aug 12 03:25	3° m 00'14	2°18'59
minimum elong	13893 Aug 28 21:20	19° m 51'52	1°27'46	minimum elong	13894 Aug 12 05:50	2° m 53'15	2°17'48
min. Earth dist.	13893 Aug 31 17:27	16° m 57'43	0.62092 AU	min. Earth dist.	13894 Aug 14 13:03	0° m 15'19	0.64231 AU
desc. node	13893 Sep 02 21:08	14° m 59'09			13894 Aug 14 18:35	30°R Ω	
morning rise	13893 Sep 04 07:48	13° m 51'57		morning rise	13894 Aug 18 05:08	26° Ω 41'27	
direct	13893 Sep 11 00:10	11° m)29'44		desc. node	13894 Aug 20 18:39	25° Ω 03′02	
morning max el	13893 Sep 25 03:10	19° m 29'22	27°57'51	direct	13894 Aug 24 19:23	24° Ω 05'47	
	13893 Oct 04 02:14	0∘ ⊽			13894 Sep 05 08:49	0° m)	
	13893 Oct 22 20:00	0° M		morning max el	13894 Sep 07 13:04	2° m 04'45	27°32'32
asc. node	13893 Oct 28 00:53	10° ™ 07'41			13894 Sep 28 08:28	0∘ ⊽	
morning set	13893 Oct 29 00:44	12°M09'06		morning set	13894 Oct 12 16:21	25° ≏ 41'08	
max. Earth dist.	13893 Nov 03 10:47	23°M37'37	1.31701 AU	asc. node	13894 Oct 14 21:33	0° ™ 07'54	

	13894 Oct 14 19:59	0°M.		max. Earth dist.	13895 Sep 29 21:07	16° ≙ 27'55	1.34304 AU
max. Earth dist.	13894 Oct 17 08:45		1.32742 AU	asc. node	13895 Oct 01 18:08	20° ⊆ 13'27	1.54504710
superior conj	13894 Oct 20 17:44	12°M23'10	0°52'59	superior conj	13895 Oct 04 17:06	26° £ 17'36	0°27'33
minimum elong	13894 Oct 20 15:33	12°M11'25	0°53'14	minimum elong	13895 Oct 04 15:40	26° ≙ 10′11	0°27'38
evening rise	13894 Oct 27 16:59	27° ML $28'04$			13895 Oct 06 11:38	0° M	
	13894 Oct 28 21:34	0° ∡ ¹		evening rise	13895 Oct 12 02:38	11°ML52'50	
	13894 Nov 15 09:58	0°ප			13895 Oct 21 09:37	0° ∡ ¹	
desc. node	13894 Nov 16 14:59	1° る 24'42		evening max el	13895 Oct 31 15:19	14° ₹ 03'54	21°12'07
evening max el	13894 Nov 18 23:24	3° る 52'54	22°48'52	desc. node	13895 Nov 03 12:16	16° ∡ ³34'19	
retrograde	13894 Dec 02 01:10	10° පි 22'10		retrograde	13895 Nov 12 12:21	19° ∡ 757'51	
evening set	13894 Dec 05 23:48	9°る48'18		evening set	13895 Nov 15 04:08	19° ∡ 41′20	
min. Earth dist.	13894 Dec 13 08:06		0.54850 AU	inferior conj	13895 Nov 24 01:37	15° ∡ ¹48'08	
inferior conj	13894 Dec 14 10:12	5° る 49'59		minimum elong	13895 Nov 23 17:23	15° ₹ 59'45	
minimum elong	13894 Dec 14 10:11	5°る50'01 2°る01'35	5°56'52	min. Earth dist.	13895 Nov 24 13:56	15° 🗷 30'45	0.54491 AU
morning rise direct	13894 Dec 22 21:56 13894 Dec 25 23:55	1° る 39'39		morning rise direct	13895 Dec 02 07:10 13895 Dec 06 07:16	11° х 57'39 11° х 23'11	
morning max el	13895 Jan 06 12:01		21°01'45	morning max el	13895 Dec 19 04:21		22°43'19
asc. node	13895 Jan 10 21:33	12°る06'57	21 0143	asc. node	13895 Dec 28 18:43	17 x 33 38 29° x 38'38	22 43 19
asc. Houc	13895 Jan 21 16:42	0°≈		asc. node	13895 Dec 29 00:12	29 ス 38 38	
morning set	13895 Jan 26 00:59	8° ≈ 48'04		morning set	13896 Jan 10 12:09	23° る 33'59	
morning sec	15075 3411 20 00.57	0 /4/1001		morning sec	13896 Jan 13 12:12	0° ≈	
superior conj	13895 Feb 02 09:22	24° ≈ 08'24	1°16'22		150,000 15 12.12	0	
minimum elong	13895 Feb 02 11:52	24° ≈ 21'19	1°16'46	superior conj	13896 Jan 17 11:35	8° ≈ 32'52	1°29'51
	13895 Feb 05 06:32	0° ∀		minimum elong	13896 Jan 17 13:19	8° ≈ 42'07	1°30'36
max. Earth dist.	13895 Feb 07 07:06	4°) €00'48	1.35508 AU	max. Earth dist.	13896 Jan 20 23:04	15° ≈ 52'13	1.33716 AU
evening rise	13895 Feb 11 06:35	11° ¥ 37'33		evening rise	13896 Jan 25 12:23	25° ≈ 02'59	
desc. node	13895 Feb 12 15:06	14° ¥ 07'55			13896 Jan 28 02:12	0°) €	
	13895 Feb 21 19:42	0° Y		desc. node	13896 Jan 30 11:42	4° ∺ 26′27	
	13895 Mar 15 12:57	$0^{\circ}S$			13896 Feb 15 07:17	0° Y	
evening max el	13895 Mar 18 15:31	3° 8 13'22	26°22'03	evening max el	13896 Feb 29 05:00	16° Y 49'42	27°10'16
retrograde	13895 Mar 31 13:18	10° 8 33'24		retrograde	13896 Mar 13 16:17	24° Y °17′57	
evening set	13895 Apr 06 20:00	8° 8 01'50		evening set	13896 Mar 20 07:40	21° Y 46'14	
asc. node	13895 Apr 08 18:13	6° 8 14'15	0.66015.433	min. Earth dist.	13896 Mar 24 05:22	18° ℃ 03'56	0.65261 AU
min. Earth dist.	13895 Apr 10 22:39	3° 8 46'34	0.66815 AU	asc. node	13896 Mar 25 15:39	16° Y 28'34	001750
inferior conj	13895 Apr 12 18:02	1° 8 34'27 1° 8 39'36	1°13'15	inferior conj	13896 Mar 26 13:00	15° Υ '28'26 15° Υ '29'46	0°16'58
minimum elong	13895 Apr 12 16:21 13895 Apr 14 01:31	1 ⊘ 3930	1°12'11	minimum elong morning rise	13896 Mar 26 12:31 13896 Apr 01 19:04	9° Y 58'18	0°16'37
morning rise	13895 Apr 18 13:37	25° Υ 51'34		direct	13896 Apr 04 12:28	9° Υ 18'46	
direct	13895 Apr 21 16:39	24° Υ '56'32		morning max el	13896 Apr 10 20:29		17°59'15
morning max el	13895 Apr 28 04:45	28° Y '24'05	18°29'07	morning max or	13896 Apr 23 05:33	0°8	17 57 15
	13895 Apr 29 17:22	0°ප		desc. node	13896 Apr 27 14:02	7° 8 06'51	
desc. node	13895 May 11 17:22	16° 8 56'28		morning set	13896 Apr 28 21:01	9° 8 13'57	
morning set	13895 May 18 21:07	28° 8 11'04		Č	13896 May 11 17:20	Π°	
-	13895 May 20 00:45	Π $^{\circ}0$					
				superior conj	13896 May 13 06:23	2° Ⅲ 26'41	-1°43'13
superior conj	13895 Jun 03 18:29	23° Ⅱ 05'41	-2°07'40	minimum elong	13896 May 12 21:19	1° Ⅱ 50′50	1°43'15
minimum elong	13895 Jun 03 12:42	22° Ⅱ 43'09		max. Earth dist.	13896 May 16 16:23	7° Ⅱ 49'10	1.45642 AU
max. Earth dist.	13895 Jun 03 20:20		1.45850 AU	evening rise	13896 May 29 08:10	27° Ⅱ 26'35	
	13895 Jun 08 04:36	0°50			13896 May 31 00:06	0°€	
evening rise	13895 Jun 19 13:08	17°950'14		greatest brilliancy	13896 Jun 11 23:09	18° © 05'45	-0.7m
4 41 711	13895 Jun 27 06:25	0°Ω	0.0	1	13896 Jun 20 15:33	0° Ω	
greatest brilliancy	13895 Jun 28 08:17	1° Ω 40'49	-0.8m	asc. node	13896 Jun 21 13:17	1° Ω 04'22	10925124
asc. node evening max el	13895 Jul 05 16:23 13895 Jul 11 09:02	12° Ω 37'33 19° Ω 34'18	18°47'45	evening max el retrograde	13896 Jun 23 16:05 13896 Jun 30 22:23	3° Ω 21'52 7° Ω 27'03	19 33 24
retrograde	13895 Jul 11 09:02 13895 Jul 18 00:29	23°Ω12'05	10 4/43	evening set	13896 Jul 04 15:41	6°Ω06'34	
evening set	13895 Jul 21 08:23	$23^{\circ} \Omega 12^{\circ} 03$		inferior conj	13896 Jul 10 00:11	0° Ω 11'33	3°07'44
inferior conj	13895 Jul 26 22:09	16° Ω 26'50	2°50'57	minimum elong	13896 Jul 10 01:03	0° Ω 08'39	3°06'42
minimum elong	13895 Jul 26 23:58	16° Ω 21'07	2°49'51		13896 Jul 10 03:39	30°R.55	<u>-</u>
min. Earth dist.	13895 Jul 28 17:28	14° Ω 11'30	0.66052 AU	min. Earth dist.	13896 Jul 11 05:09	28°935'18	0.67469 AU
morning rise	13895 Aug 01 14:42	10° Ω 02'32		morning rise	13896 Jul 15 09:56	23° © 47'18	
direct	13895 Aug 07 22:10	7° Ω 22'51		direct	13896 Jul 21 07:33	21° © 12'20	
desc. node	13895 Aug 07 16:06	7° Ω 23'05		desc. node	13896 Jul 24 13:30	21° 9 51'48	
morning max el	13895 Aug 21 00:23	15° Ω 08'40	26°37'15	morning max el	13896 Aug 02 11:15	28° © 29'30	25°20'54
	13895 Sep 02 04:55	0° m)			13896 Aug 03 21:53	$0^{\circ}\Omega$	
	13895 Sep 21 03:20	0∘ ⊽			13896 Aug 25 22:49	0° m ∕	
morning set	13895 Sep 25 20:35	8° ≏ 40'06		morning set	13896 Sep 07 09:37	20° m 57'00	

max. Earth dist.	13896 Sep 10 23:50	27° mp 32'18	1.36318 AU	morning max el	13897 Jul 15 21:31	11°959'36	23°53'24
	13896 Sep 12 07:12	0∘ ত		•	13897 Jul 30 08:01	$0^{\circ}\Omega$	
	13030 Sep 12 07.12	~			13897 Aug 18 17:43	0° m)	
	12007 0 17 07 10	00 0 42155	0000153	. ,	•	-	
superior conj	13896 Sep 17 07:19	9° Ω 43'55		morning set	13897 Aug 20 03:01	2° Mp 21'04	
minimum elong	13896 Sep 17 07:30	9° ≏ 44'47	0°02'46	max. Earth dist.	13897 Aug 23 21:36	8° m 54'10	1.38627 AU
behind sun begin	13896 Sep 17 01:13	9° ≏ 13'33					
behind sun end	13896 Sep 17 13:47	10° ≙ 16′04		superior conj	13897 Aug 31 08:56	22° Mp 34'10	-0°36'57
asc. node	13896 Sep 17 14:41	10° ≏ 20'37		minimum elong	13897 Aug 31 11:33	22° Mp 46'34	0°36'43
evening rise	13896 Sep 25 08:41	26° ≏ 05'53		asc. node	13897 Sep 04 11:14	0° ≙ 25'56	
evening rise	*	0°M		use. Houe	=	0∘ ⊽	
	13896 Sep 27 06:57		10050150		13897 Sep 04 05:54		
evening max el	13896 Oct 12 20:38	24°M56'02	19°52'58	evening rise	13897 Sep 09 08:34	10° ≏ 00'49	
desc. node	13896 Oct 20 09:39	29°M41'53			13897 Sep 20 10:08	0° M ₊	
	13896 Oct 22 02:45	0° ∡ 7		evening max el	13897 Sep 25 15:55	6°M37'47	18°55'29
retrograde	13896 Oct 23 02:50	0° ∡ °02'49		retrograde	13897 Oct 04 07:58	10°M58'59	
Ü	13896 Oct 24 03:12	30°RM		evening set	13897 Oct 06 05:00	10°M47'33	
evening set	13896 Oct 25 01:55	29°M52'27		desc. node	13897 Oct 07 07:07	10°M30'58	
•			400 412 5				2017101
inferior conj	13896 Nov 02 22:16	25°M52'05		inferior conj	13897 Oct 14 12:04	6°M29'58	
minimum elong	13896 Nov 02 12:31	26° ™ 07'01	4°00'41	minimum elong	13897 Oct 14 06:18	6° M 40′08	2°14'14
min. Earth dist.	13896 Nov 04 22:10	24°M38'44	0.55077 AU	min. Earth dist.	13897 Oct 17 10:57	4°M25'31	0.56504 AU
morning rise	13896 Nov 10 21:40	21°M39'01		morning rise	13897 Oct 22 04:32	1°M41'45	
direct	13896 Nov 15 19:55	20°M45'42		direct	13897 Oct 27 21:52	0°M24'00	
	13896 Nov 29 14:10	27°MJ35'01	24022124	morning max el	13897 Nov 11 02:01	7°ML41'50	26011105
morning max el		27 IIC33 01 0° √ 1	47 J4 4 1	morning max ci		7 11641 30 0° ⊼ 1	20 11 03
_	13896 Dec 01 23:15				13897 Nov 27 15:33		
asc. node	13896 Dec 14 15:47	17° ∡ ′59'13		asc. node	13897 Dec 01 12:46	6° ≯ 56'16	
	13896 Dec 21 00:42	0° ਰ		morning set	13897 Dec 09 10:59	22° ₹ 55'22	
morning set	13896 Dec 25 00:03	8° る 17'54			13897 Dec 12 16:46	0°ರ	
superior conj	13896 Dec 31 19:04	23° る 09'23	1°36'50	superior conj	13897 Dec 16 05:37	7° る 51'41	1°37'42
minimum elong	13896 Dec 31 19:45	23° ප 13'10	1°37'51	minimum elong	13897 Dec 16 05:13	7° る 49'30	1°38'45
=				_		9°₹56'46	
max. Earth dist.	13897 Jan 02 22:33	27°₹49'43	1.32368 AU	max. Earth dist.	13897 Dec 17 04:07		1.31515 AU
	13897 Jan 03 22:45	0° ≈		evening rise	13897 Dec 23 05:23	23° る 04'35	
evening rise	13897 Jan 08 04:54	8° ≈ 54'14			13897 Dec 26 14:33	0° ≈	
desc. node	13897 Jan 16 08:22	24° ≈ 29'32		desc. node	13898 Jan 03 05:10	14° ≈ 10′51	
	13897 Jan 19 12:14	0°) €			13898 Jan 13 08:36	0°) €	
evening max el	13897 Feb 10 17:03	0° Ƴ 01'32	27°33'07	evening max el	13898 Jan 24 01:35	12° ¥ 36′59	27°24'28
Ü	13897 Feb 10 16:24	0° Y		retrograde	13898 Feb 07 00:28	19° ¥ 56′00	
retrograde	13897 Feb 24 12:28	7° Υ ′28'31		evening set	13898 Feb 13 21:10	17° ¥ 46'29	
C				•			0.61050 444
evening set	13897 Mar 03 09:01	5° Y ′03'58		min. Earth dist.	13898 Feb 17 15:56	14° ¥ 56′03	0.61259 AU
min. Earth dist.	13897 Mar 07 03:36	1° 'Y' 50'46	0.63371 AU	inferior conj	13898 Feb 20 18:18	12°) 10′42	-2°09'39
	13897 Mar 08 23:50	30°Ŗ ℋ		minimum elong	13898 Feb 20 22:55	12°) € 00′24	2°07'24
inferior conj	13897 Mar 09 22:10	29°) €03'14	-0°51'04	asc. node	13898 Feb 27 10:35	7°) €28'24	
minimum elong	13897 Mar 09 23:49	28° ¥ 59'04	0°50'16	morning rise	13898 Feb 28 03:42	7° ₩ 13'41	
asc. node	13897 Mar 12 13:07	26°) €32'06		direct	13898 Mar 02 06:59	6°) 54′19	
morning rise	13897 Mar 16 17:06	23°) (48'16		morning max el	13898 Mar 09 06:41	10°) €25'27	17°52'02
•				morning max ci			17 32 02
direct	13897 Mar 19 02:23	23°) €20'40			13898 Mar 22 06:04	0° Υ	
morning max el	13897 Mar 25 14:11	26°) 39′55	17°46'39	morning set	13898 Mar 24 22:02	4° Υ 47'52	
	13897 Mar 28 12:28	0° Y		desc. node	13898 Apr 01 07:09	18° Y ′00′15	
morning set	13897 Apr 10 23:18	21° Y 32'15					
desc. node	13897 Apr 14 10:37	27° Y 29'33		superior conj	13898 Apr 04 17:50	23° Y 59'43	-0°27'05
	13897 Apr 15 21:57	0°8		minimum elong	13898 Apr 04 15:21	23° Ƴ 49'04	0°27'00
					13898 Apr 08 06:42	0°8	
	12007 4 22 12 10	120 40101	1007140	E 4 E 4	-		1 42166 ATT
superior conj	13897 Apr 23 12:10	12° 8 40'01		max. Earth dist.	13898 Apr 12 01:35	6°816'08	1.43166 AU
minimum elong	13897 Apr 23 05:30	12° 8 12'44		evening rise	13898 Apr 18 14:08	16° 8 42'28	
max. Earth dist.	13897 Apr 29 10:37	22° 8 14'30	1.44714 AU		13898 Apr 27 06:40	Π \circ 0	
	13897 May 04 08:54	$\Pi^{\circ}0$			13898 May 19 13:18	0 \circ \odot	
evening rise	13897 May 08 19:08	6° Ⅱ 50'31		evening max el	13898 May 20 13:16	1°901'44	21°51'21
C	13897 May 24 07:50	0°ಅ		asc. node	13898 May 26 07:25	5° © 31'30	
evening max el	13897 Jun 06 17:25	17° © 11'24	20°37'43	retrograde	13898 May 29 19:27	6°927'08	
•			20 3173	•	•		
asc. node	13897 Jun 08 10:17	18°5547'06		evening set	13898 Jun 03 09:48	4°533'26	
retrograde	13897 Jun 14 21:19	21° © 53'48			13898 Jun 07 09:59	30°RⅡ	
evening set	13897 Jun 19 00:45	20° © 16'26		inferior conj	13898 Jun 08 16:03	28° Ⅱ 16′03	3°04'26
inferior conj	13897 Jun 24 06:53	14° © 09'24	3°11'42	minimum elong	13898 Jun 08 14:59	28° Ⅱ 19'46	3°03'16
minimum elong	13897 Jun 24 06:44	14° © 09'55	3°10'38	min. Earth dist.	13898 Jun 08 17:51	28° Ⅱ 09'45	0.68909 AU
min. Earth dist.	13897 Jun 24 22:00	13° © 17'18	0.68428 AU	morning rise	13898 Jun 13 19:57	22° Ⅱ 01'25	
morning rise	13897 Jun 29 12:25	7° © 48'51		direct	13898 Jun 18 17:15	19° ∏ 55'55	
•						19 Ⅲ 33 33 25° Ⅲ 34'12	
direct	13897 Jul 04 22:19	5°526'01		desc. node	13898 Jun 28 08:00		2202 *** 5
desc. node	13897 Jul 11 10:48	8° © 04'06		morning max el	13898 Jun 28 09:21	25° Ⅱ 37'36	22~24'12

	13898 Jul 02 08:41	0°ಅ		morning max el	13899 Jun 11 02:01	9° ∏ 26'18	21°01'16
	13898 Jul 23 19:27	$0^{\circ}\Omega$		desc. node	13899 Jun 15 05:04	14° Ⅱ 01′29	
morning set	13898 Jul 31 20:33	12° Ω 41'52			13899 Jun 26 23:41	0 \circ \odot	
max. Earth dist.	13898 Aug 05 21:34	21° Ω 01'50	1.40976 AU	morning set	13899 Jul 11 13:59	22° © 00'58	
	13898 Aug 11 02:51	0° m)			13899 Jul 16 15:11	0 $^{\circ}\Omega$	
	-			max. Earth dist.	13899 Jul 19 03:49	4° Ω 04′28	1.43071 AU
superior conj	13898 Aug 13 17:39	4° ™ 37'59	-1°12'14				
minimum elong	13898 Aug 13 23:08	5° Mp 02'32	1°11'59	superior conj	13899 Jul 26 05:08	15° Ω 46′12	-1°44'25
asc. node	13898 Aug 22 07:49	20° Mp 25° 27		minimum elong	13899 Jul 26 12:26	16° Ω 17'08	1°44'29
evening rise	13898 Aug 23 22:55	23° m 28'48			13899 Aug 03 10:09	0° ™	
	13898 Aug 27 10:52	0∘ ⊽		evening rise	13899 Aug 06 23:32	6° ™ 19'41	
evening max el	13898 Sep 08 21:38	19° ≏ 02'22	18°19'24	asc. node	13899 Aug 09 04:27	10° m) 15'37	
retrograde	13898 Sep 16 08:32	22° ≏ 49'17			13899 Aug 21 13:38	0∘ ⊽	
evening set	13898 Sep 18 10:40	22° ≏ 32'10		evening max el	13899 Aug 23 09:37	2° ≏ 00'46	18°03'28
desc. node	13898 Sep 24 04:39	19° ≏ 19'35		retrograde	13899 Aug 30 02:27	5° Ω 27'29	
inferior conj	13898 Sep 25 23:31	17° £ 53'19		evening set	13899 Sep 01 12:06	5° Ω 00'55	0050100
minimum elong	13898 Sep 25 22:16	17° £ 55'54		inferior conj	13899 Sep 08 07:28	0° Ω 01'48	0°50'23
min. Earth dist.	13898 Sep 29 06:28	15° £ 11'21	0.58512 AU	minimum elong	13899 Sep 08 08:57	29° m 58'14	0°49'44
morning rise	13898 Oct 03 06:24	12° £ 28'37			13899 Sep 08 08:13	30°₹ ™	
direct	13898 Oct 09 13:32	10° Ω 43'51 18° Ω 23'18	27922122	desc. node	13899 Sep 11 02:10	27° Mp 22'35	0.60701 ATT
morning max el	13898 Oct 23 21:00		21-22-22	min. Earth dist.	13899 Sep 11 11:01	27° Mp 02'17	0.60781 AU
1-	13898 Nov 02 15:18 13898 Nov 18 09:39	0°M		morning rise	13899 Sep 15 02:52	24° Mp 07'52	
asc. node	13898 Nov 20 06:07	26°M19′28 0°⊀		direct	13899 Sep 21 17:29	21° Mp 57'46 29° Mp 52'39	27056112
morning set	13898 Nov 20 06.07	0 x . 7° ∡ 120'59		morning max el	13899 Oct 05 23:46 13899 Oct 06 02:44	0° ʊ	27 30 12
morning set	13696 INOV 23 19.11	/ X 2039			13899 Oct 00 02.44 13899 Oct 27 16:42	0° m	
superior conj	13898 Nov 30 17:13	22° ∡ ¹33'06	1°32'38	asc. node	13899 Nov 05 06:27	16°M01'39	
minimum elong	13898 Nov 30 17:13	22° x 25'32	1°33'34	morning set	13899 Nov 07 00:27	21°M30'19	
max. Earth dist.	13898 Nov 30 12:26	22° × 25' 32 22° × 706'21	1.31170 AU	morning set	13899 Nov 11 22:16	0° x ⁷	
max. Lartii dist.	13898 Dec 04 01:23	0°る	1.51170 AC	max. Earth dist.	13899 Nov 13 19:42	4° ∡ 109'27	1.31351 AU
evening rise	13898 Dec 07 11:21	7° る 26'56		max. Lartii dist.	130771101 13 17.42	7 7 0727	1.51551 AO
evening rise	13898 Dec 19 02:13	0°≈		superior conj	13899 Nov 15 04:03	7° ∡ 08'41	1°21'45
desc. node	13898 Dec 21 02:05	3° ≈ 21'06		minimum elong	13899 Nov 15 02:01	6° ₹ 57'24	1°22'26
evening max el	13899 Jan 06 03:41		26°41'09	evening rise	13899 Nov 21 20:47	21° × 756'17	1 22 20
evening man er	13899 Jan 13 21:07	0° ∀	20 .10)	overmig rise	13899 Nov 25 16:47	0°ਰ	
retrograde	13899 Jan 20 02:45	1°) 32'38		desc. node	13899 Dec 07 23:06	21° ♂ 48'26	
Č	13899 Jan 26 05:16	30°R≈			13899 Dec 14 00:04	0° ≈	
evening set	13899 Jan 26 16:32	29° ≈ 45'33		evening max el	13899 Dec 18 21:14	5°≈16'57	25°25'26
min. Earth dist.	13899 Jan 30 17:32	27° ≈ 07'59	0.59071 AU	retrograde	13900 Jan 01 17:53	12°≈15′24	
inferior conj	13899 Feb 02 21:43	24° ≈ 40'43	-3°34'12	evening set	13900 Jan 07 14:58	10° ≈ 56'34	
minimum elong	13899 Feb 03 05:25	24° ≈ 25'47	3°30'51	min. Earth dist.	13900 Jan 12 09:28	8° ≈ 16'47	0.57032 AU
morning rise	13899 Feb 10 21:24	20° ≈ 04'45		inferior conj	13900 Jan 15 05:08	6° ≈ 23'22	-4°53'41
direct	13899 Feb 12 22:04	19° ≈ 50′01		minimum elong	13900 Jan 15 13:58	6° ≈ 08'31	4°50'36
asc. node	13899 Feb 14 08:02	19° ≈ 57'29		morning rise	13900 Jan 23 15:33	2° ≈ 09'44	
morning max el	13899 Feb 20 18:24	23° ≈ 43′06	18°16'50	direct	13900 Jan 25 19:05	1° ≈ 56′02	
	13899 Feb 25 19:33	0°)		asc. node	13900 Feb 01 05:27	4° ≈ 08'17	
morning set	13899 Mar 08 11:26	18° ¥ 43′27		morning max el	13900 Feb 03 21:16	6° ≈ 21'14	19°02'55
	13899 Mar 14 11:02	0° Y			13900 Feb 18 21:16	0° ∀	
	44000 X =	ca00-		morning set	13900 Feb 20 10:50	3°) €04'32	
superior conj	13899 Mar 17 22:05	6° Υ 21'47	0°09'57		12000 7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1001/2	004444
minimum elong	13899 Mar 17 22:50	6° Y 25'08	0°09'49	superior conj	13900 Feb 28 20:32	19°) 33′18	0°41'10
behind sun begin	13899 Mar 17 16:56	5°Υ58'23		minimum elong	13900 Feb 28 22:55	19°) 44'38	0°41'04
behind sun end	13899 Mar 18 04:43	6° Y 51'50		desc. node	13900 Mar 06 00:11	29°) 10′51	
desc. node	13899 Mar 19 03:41	8° Y 35'22	1 41150 ATT	E 4 E 4	13900 Mar 06 11:00	0°Υ 2°W22150	1 20012 411
max. Earth dist.	13899 Mar 25 12:13	19° Y 41'46 27° Y 25'27	1.41158 AU	max. Earth dist.	13900 Mar 07 19:00	2° Υ 23'59 9° Υ 03'14	1.38913 AU
evening rise	13899 Mar 30 03:34			evening rise	13900 Mar 11 14:09	0° 8	
	13899 Mar 31 17:40 13899 Apr 20 21:53	0°Β 0°Β		evening max el	13900 Mar 24 14:46 13900 Apr 15 18:42	28° 8 45'54	2/10211/10
evening max el	13899 Apr 20 21:53 13899 May 03 05:02	0°Щ 14° Щ 53'19	23°11'23	evening max ei	13900 Apr 13 18:42 13900 Apr 17 01:36	28° O 43′34 0° Ⅱ	2 4 3148
asc. node	13899 May 13 04:38	14 山 33 19 21° 川 00'57	<i>23</i> 11 <i>23</i>	retrograde	13900 Apr 17 01:36 13900 Apr 27 07:55	5° П 31'27	
retrograde	13899 May 13 04.38 13899 May 13 15:24	21° I I00'37		asc. node	13900 Apr 27 07:53 13900 Apr 30 01:57	3 П 3127 4° П 58'14	
evening set	13899 May 18 17:12	18° Ⅱ 53'23		evening set	13900 Apr 30 01:37	3° П 10'52	
min. Earth dist.	13899 May 23 14:38	13° I 106'10	0.68909 AU	o. oing see	13900 May 02 21:13 13900 May 05 21:03	30°R 8	
inferior conj	13899 May 24 01:41	12° Ⅲ 27'56	2°46'46	min. Earth dist.	13900 May 07 10:13	27° 8 59'58	0.68442 AU
minimum elong	13899 May 23 23:56		2°45'28	inferior conj	13900 May 08 09:55	26° 8 40'41	2°18'51
morning rise	13899 May 29 06:35	6° Ⅱ 20'35	-	minimum elong	13900 May 08 07:47	26° 8 47'49	2°17'30
direct	13899 Jun 02 15:09	4° Ⅲ 35'16		morning rise	13900 May 13 18:25	20° 8 41'40	
				5 ···	J	- *	

direct morning max el	13900 May 17 14:43 13900 May 25 01:42	19° 8 17'03 23° 8 26'10	19°50'03	desc. node greatest brilliancy	13901 May 19 22:51 13901 May 21 21:37	22° 8 48'56 25° 8 45'12	-0.8m
morning mun or	13900 May 30 17:09	0°Щ	1, 20 03	greatest stimule;	13901 May 24 16:20	0°Ⅱ	0.011
desc. node	13900 Jun 02 02:01	3° Ⅱ 10′02		morning set	13901 May 31 00:29	9° Ⅱ 48′09	
	13900 Jun 20 05:02	0ං ව			13901 Jun 13 00:02	0ංම	
morning set	13900 Jun 20 16:31	0°544'05	1 44674 433	max. Earth dist.	13901 Jun 14 09:14	2° © 09'45	1.45633 AU
max. Earth dist.	13900 Jul 01 16:11	17° © 51'39	1.44674 AU	superior conj	13901 Jun 16 08:11	5° © 13'38	2013'10
superior conj	13900 Jul 06 16:45	25° © 53'49	-2°07'09	minimum elong	13901 Jun 16 06:44	5°907'59	2°14'21
minimum elong	13900 Jul 06 22:09	26°9515'35		evening rise	13901 Jul 01 11:16	29°519'01	
	13900 Jul 09 05:24	$0^{\circ}\Omega$		C	13901 Jul 01 21:24	$0^{\circ}\Omega$	
evening rise	13900 Jul 20 05:11	18° Ω 19'48		asc. node	13901 Jul 13 21:51	19° Ω 06′03	
asc. node	13900 Jul 27 01:08	29° Ω 51′05		evening max el	13901 Jul 21 13:33	29° Ω 00′32	18°27'49
	13900 Jul 27 03:17	0°M)	10007127	. 1	13901 Jul 22 15:11	0° Mp	
evening max el retrograde	13900 Aug 07 00:00 13900 Aug 13 09:05	15° Mp 23'00 18° Mp 43'27	18°06'37	retrograde evening set	13901 Jul 28 00:11 13901 Jul 31 02:53	2° My 28'05 1° My 33'49	
evening set	13900 Aug 15 03:04	18° Mg 04'14		evening set	13901 Jul 31 02:33	1 11√33 49 30°RΩ	
inferior conj	13900 Aug 22 08:04	12° m) 47'19	1°52'30	inferior conj	13901 Aug 05 21:12	26°Ω01'00	2°34'35
minimum elong	13900 Aug 22 10:30	12° mp 40'41	1°51'22	minimum elong	13901 Aug 05 23:26	25° Ω 54'18	2°33'25
min. Earth dist.	13900 Aug 25 01:22	9° m 51'25	0.63029 AU	min. Earth dist.	13901 Aug 08 00:57	23° Ω 26′51	0.65054 AU
morning rise	13900 Aug 28 15:52	6° Mg 34′38		morning rise	13901 Aug 11 18:45	19° Ω 39'01	
desc. node	13900 Aug 28 23:40	6° TQ 20'24		desc. node	13901 Aug 15 21:10	17° Ω 20'55	
direct	13900 Sep 04 07:50	4° 1005'29	27951114	direct	13901 Aug 18 06:42	17° Ω 00'07	27912102
morning max el	13900 Sep 18 07:57 13900 Oct 02 13:28	12° ™ 07'08 0° <u>₽</u>	27°51'14	morning max el	13901 Aug 31 18:36 13901 Sep 05 09:13	24° Ω 55'49 0° m	27°12'03
	13900 Oct 02 13:28 13900 Oct 20 03:20	0° m .			13901 Sep 05 05:15	0∘ ت مالا	
morning set	13900 Oct 22 19:30	5° M .18′18		morning set	13901 Oct 06 06:38	18° ≏ 37'21	
asc. node	13900 Oct 23 03:10	5°M57'07		asc. node	13901 Oct 09 23:46	26° ≏ 00'18	
max. Earth dist.	13900 Oct 27 21:59	15°M56'52	1.32071 AU	max. Earth dist.	13901 Oct 10 15:44	27° ≏ 21'43	1.33339 AU
					13901 Oct 11 22:28	0° M	
superior conj	13900 Oct 30 12:12	21°M33'36	1°05'08		12001 0 . 14 15 20	50 W 41110	0040151
minimum elong	13900 Oct 30 09:55	21°M21'06 0°⊀	1°05'31	superior conj	13901 Oct 14 15:28	5°M41'13 5°M30'50	0°42'51 0°43'00
evening rise	13900 Nov 03 08:30 13900 Nov 06 07:48	6° ₹ ¹28'08		minimum elong evening rise	13901 Oct 14 13:31 13901 Oct 21 18:28	20°M56'57	0 43 00
evening rise	13900 Nov 18 12:25	0° ろ 2000		evening rise	13901 Oct 26 03:25	20 11 3 3037	
desc. node	13900 Nov 24 20:12	9° る 17'08		desc. node	13901 Nov 11 17:26	25° ∡ ¹25'04	
evening max el	13900 Nov 30 07:59	15° る 28'52	23°48'06	evening max el	13901 Nov 11 19:21	25° ∡ ¹29'45	22°06'15
retrograde	13900 Dec 13 20:25	22° る 12'25			13901 Nov 17 18:17	5°0	
evening set	13900 Dec 18 13:51	21° る 23'45		retrograde	13901 Nov 24 10:48	1° る 45'37	
min. Earth dist.	13900 Dec 24 18:57		0.55438 AU	evening set	13901 Nov 27 19:03	1°る20'51	
inferior conj	13900 Dec 26 15:57 13900 Dec 26 20:48	17°る15'48 17°る08'35	-5°4/'56 5°46'25	inferior conj	13901 Dec 01 14:18 13901 Dec 06 11:10	30°₹ ҂ ¹ 27° ҂ ¹26'39	5050144
minimum elong morning rise	13900 Dec 26 20.48 13901 Jan 04 05:33	17 3 08 33	3 40 23	minimum elong	13901 Dec 06 11:10 13901 Dec 06 07:12	27 x ·20 39 27° x ⁷ 32'13	
direct	13901 Jan 06 20:25	13° る 03'34		min. Earth dist.	13901 Dec 06 01:15	27° × 40'34	0.54580 AU
morning max el	13901 Jan 17 11:26	18° ろ 09'23	20°11'51	morning rise	13901 Dec 14 20:23	23° ∡ ³39'24	
asc. node	13901 Jan 19 02:46	19° る 50'57		direct	13901 Dec 18 07:29	23° ∡ 12'46	
	13901 Jan 26 09:07	0° ≈		morning max el	13901 Dec 30 10:52	29° ∡ 02'02	21°43'02
morning set	13901 Feb 04 16:46	17° ≈ 41'14		_	13901 Dec 31 10:23	0°号	
	13901 Feb 10 16:49	0° ℋ		asc. node	13902 Jan 05 24:00	6° る 47'40	
superior conj	13901 Feb 12 08:41	3° ∺ 21'33	1°05'31	morning set	13902 Jan 18 22:49 13902 Jan 20 02:38	0° ≈ 2° ≈ 25'09	
minimum elong	13901 Feb 12 08:41 13901 Feb 12 11:24	3° ∺ 35'10	1°05'42	morning set	13902 Jan 20 02.38	2 ~23 09	
max. Earth dist.	13901 Feb 18 01:43	14°) (31'04	1.36687 AU	superior conj	13902 Jan 27 06:38	17° ≈ 34'50	1°22'53
desc. node	13901 Feb 20 20:43	19°) 43′16		minimum elong	13902 Jan 27 08:52	17° ≈ 46'31	1°23'27
evening rise	13901 Feb 21 20:17	21°) € 30'34		max. Earth dist.	13902 Jan 31 13:23	26° ≈ 22'32	1.34698 AU
	13901 Feb 26 16:10	0° Υ			13902 Feb 02 09:09	0° ∀	
	13901 Mar 18 12:04	0°8	25945125	evening rise	13902 Feb 04 18:27	4°) €37'14	
evening max el retrograde	13901 Mar 29 08:09 13901 Apr 10 19:58	12° 8 38'05 19° 8 49'31	25~45'35	desc. node	13902 Feb 07 17:17 13902 Feb 19 11:57	10° 米 07'59 0° Ƴ	
evening set	13901 Apr 10 19:38 13901 Apr 16 20:32	19° 8 49'31		evening max el	13902 Feb 19 11:57 13902 Mar 11 21:59	0° γ 26° Υ 23'25	26°45'19
asc. node	13901 Apr 16 23:18	17° 8 14'51		J. J	13902 Mar 16 01:37	0° 8	_0 .0 17
min. Earth dist.	13901 Apr 21 02:34	12° 8 45'17	0.67529 AU	retrograde	13902 Mar 25 02:26	3° 8 48'10	
inferior conj	13901 Apr 22 14:45	10° 8 50'26	1°40'26	evening set	13902 Mar 31 12:58	1° 8 16'06	
minimum elong	13901 Apr 22 12:43	10° 8 56'53	1°39'10		13902 Apr 01 23:35	30° ₹ Υ	
morning rise	13901 Apr 28 05:30	5° 8 01'01		asc. node	13902 Apr 03 20:43	28° Y ′02′22	
direct	13901 May 01 14:29	3° 8 55'52	10052152	min. Earth dist.	13902 Apr 04 13:27	27° Y 14′52	0.66196 AU
morning max el	13901 May 08 08:45	7° 8 35'10	18~53'52	inferior conj	13902 Apr 06 14:01	24° Ƴ 51'49	0°50'51

minimum elong	13902 Apr 06 12:44	24° Ƴ 55'35	0°50'01	minimum elong	13903 Mar 21 05:29	8° Ƴ 37'37	0°10'24
morning rise	13902 Apr 12 13:43	19° Υ 13'47	0 3001	transit middle	13903 Mar 21 05:29	8° Υ 37'37	0°10'24
direct	13902 Apr 15 12:29	18° Y 25'41		transit begin	13903 Mar 21 03:09	8° Υ 43'55	0 1021
morning max el	13902 Apr 21 21:53	21° Y ′47'47	18°14'17	transit end	13903 Mar 21 07:50	8° Υ 31'19	
5 5	13902 Apr 28 11:51	0°8		asc. node	13903 Mar 21 18:12	8° Ƴ 03'38	
desc. node	13902 May 06 19:36	12° 8 49'46		morning rise	13903 Mar 27 16:25	3° Y 14'16	
morning set	13902 May 11 08:03	20° 8 03'31		direct	13903 Mar 30 06:17	2° Y 40'06	
	13902 May 17 13:38	$\Pi^{\circ}0$		morning max el	13903 Apr 05 14:46	5° Y 56'56	17°51'47
	-				13903 Apr 21 19:45	9° 8	
superior conj	13902 May 26 16:15	14° Ⅱ 20'48	-1°59'18	morning set	13903 Apr 22 19:48	1° 8 40'37	
minimum elong	13902 May 26 08:15	13° Ⅱ 49′29	1°59'46	desc. node	13903 Apr 23 16:14	3° 8 06'03	
max. Earth dist.	13902 May 28 05:12	16° Ⅱ 45'11	1.45856 AU				
	13902 Jun 05 17:18	0 \circ \mathfrak{s}		superior conj	13903 May 06 10:19	24° 8 00'11	-1°28'42
evening rise	13902 Jun 11 17:14	9° 5 20'05		minimum elong	13903 May 06 01:46	23° 8 25'58	1°28'31
greatest brilliancy	13902 Jun 22 18:11	26° © 24'08	-0.8m		13903 May 10 04:51	Π $^{\circ}0$	
	13902 Jun 25 03:46	0 \circ Ω		max. Earth dist.	13903 May 11 01:22	1° Ⅱ 20'56	1.45331 AU
asc. node	13902 Jun 30 18:40	7° Ω 53'31		evening rise	13903 May 22 06:55	18° Ⅱ 46′25	
evening max el	13902 Jul 04 23:38	12° Ω 46′52	19°06'08		13903 May 29 16:16	0 \circ \odot	
retrograde	13902 Jul 11 20:20	16° Ω 34'29		greatest brilliancy	13903 Jun 06 04:32	11°907'50	-0.6m
evening set	13902 Jul 15 08:14	15° Ω 23'38		asc. node	13903 Jun 17 15:37	26° © 03'26	
inferior conj	13902 Jul 20 19:24	9° Ω 36′25		evening max el	13903 Jun 18 04:23	26° © 36'03	20°00'16
minimum elong	13902 Jul 20 20:50	9° Ω 31'46	2°58'41		13903 Jun 22 11:40	0 $^{\circ}\Omega$	
min. Earth dist.	13902 Jul 22 08:36	7° Ω 36'49	0.66715 AU	retrograde	13903 Jun 25 18:57	0° Ω 55'43	
morning rise	13902 Jul 26 08:47	3°Ω11'50			13903 Jun 28 21:36	30°R∽	
direct	13902 Aug 01 12:30	0° Ω 33'02		evening set	13903 Jun 29 16:34	29°527'48	2010152
desc. node	13902 Aug 02 18:35	0° Ω 38'53	26006142	inferior conj	13903 Jul 04 23:42	23°527'25	3°10'52
morning max el	13902 Aug 14 05:38	8° Ω 07'56	26°06'42	minimum elong	13903 Jul 05 00:09	23°S25'56	3°09'49
	13902 Aug 31 08:03	0° റ 0°ആ		min. Earth dist.	13903 Jul 05 22:37	22° © 09'53 17° © 04'38	0.67937 AU
marning sat	13902 Sep 18 11:34 13902 Sep 19 04:54	1° 19'55		morning rise direct	13903 Jul 10 07:23 13903 Jul 16 00:10	1/°904'38 14°934'18	
morning set max. Earth dist.	13902 Sep 19 04.34 13902 Sep 22 23:42	8° £ 29'54	1.35116 AU	direct desc. node	13903 Jul 10 00:10 13903 Jul 20 15:58	14 934 18 15°955'18	
asc. node	13902 Sep 22 23:42 13902 Sep 26 20:20	6 ⊆ 29 34 16° Ω 07'26	1.33110 AU	morning max el	13903 Jul 27 16:11	21°933'46	24°44'32
asc. Houc	13902 Sep 20 20.20	10 = 07 20		morning max ci	13903 Aug 04 00:05	0°Ω	24 44 32
superior conj	13902 Sep 28 11:22	19° ≏ 25'21	0°15'13		13903 Aug 04 00:03	0° m)	
minimum elong	13902 Sep 28 11:22 13902 Sep 28 10:30	19° ⊆ 20'58	0°15'18	morning set	13903 Sep 01 10:08	13° m) 15'41	
behind sun begin	13902 Sep 28 18:37	19° ⊆ 11'17	0 15 10	max. Earth dist.	13903 Sep 04 10:00 13903 Sep 04 24:00	19° m) 40'09	1.37287 AU
behind sun end	13902 Sep 28 12:24	19° ₽ 30'39		man. Barar alov.	13903 Sep 10 12:11	0∘ ⊽	1.5 / 20 / 110
	13902 Oct 03 13:52	0°M			ту от отр	• —	
evening rise	13902 Oct 06 02:53	5° M ₁7'59		superior conj	13903 Sep 11 20:43	2° £ 37'34	-0°16'59
<i>y</i>	13902 Oct 19 17:50	0° ∡ ¹		minimum elong	13903 Sep 11 21:50	2° - 43′02	
evening max el	13902 Oct 24 16:35	5° ₹ '56'25	20°35'54	asc. node	13903 Sep 13 16:53	6° ≙ 14'20	
desc. node	13902 Oct 29 14:44	9° ∡ ¹46′20		evening rise	13903 Sep 20 06:41	19° ≙ 24'37	
retrograde	13902 Nov 04 21:17	11° ∡ ³30′24			13903 Sep 25 16:36	0°M	
evening set	13902 Nov 07 04:11	11° √ 17'31		evening max el	13903 Oct 07 03:58	17° M L09'11	19°25'41
inferior conj	13902 Nov 16 02:58	7° ∡ ¹22'55	-4°57'34	retrograde	13903 Oct 16 17:11	21°M55'59	
minimum elong	13902 Nov 15 17:07	7° ∡ ³37′09	4°54'13	desc. node	13903 Oct 16 12:09	21°M55'51	
min. Earth dist.	13902 Nov 17 07:32	6° х 41′40	0.54635 AU	evening set	13903 Oct 18 14:05	21°M45'46	
morning rise	13902 Nov 24 05:53	3° ∡ ¹25'25		inferior conj	13903 Oct 27 05:49	17°M38'29	-3°19'54
direct	13902 Nov 28 16:00	2° ∡ ⁴43′29		minimum elong	13903 Oct 26 21:24	17°M52'07	3°16'12
morning max el	13902 Dec 11 23:08	9° ∡ 11'58	23°29'43	min. Earth dist.	13903 Oct 29 17:07	16°M02'38	0.55598 AU
asc. node	13902 Dec 23 21:09	24° ∡ °42′00		morning rise	13903 Nov 04 02:34	13°M11'31	
	13902 Dec 26 23:03	0°る		direct	13903 Nov 09 09:17	12°M08'42	
morning set	13903 Jan 04 14:20	17° る 10'46		morning max el	13903 Nov 23 08:56	19°ML10'27	25°16'54
	13903 Jan 10 12:18	0° ≈			13903 Dec 02 11:23	0° ∡ ¹	
				asc. node	13903 Dec 10 18:12	13° ∡ 19'34	
superior conj	13903 Jan 11 11:22	2°≈04'55	1°33'34		13903 Dec 19 04:56	0°る	
minimum elong	13903 Jan 11 12:40	2°≈12'00	1°34'28	morning set	13903 Dec 20 02:04	1° る 52'59	
max. Earth dist.	13903 Jan 14 08:51	8°≈16'38	1.33092 AU	·	12002 D 26 20 27	16074450	1027157
evening rise	13903 Jan 19 05:12	18°≈14'28		superior conj	13903 Dec 26 20:25	16°₹44'50	1°37'56
daga mada	13903 Jan 25 09:22	0° ₩ 20/36		minimum elong	13903 Dec 26 20:39	16°る46'05	1°38'59
desc. node	13903 Jan 25 13:55 13903 Feb 13 18:03	0°) 20'36 0° Υ		max. Earth dist.	13903 Dec 28 11:27	20°る19'37 0°≈	1.31943 AU
evening max el	13903 Feb 13 18:03 13903 Feb 22 11:17	9° Υ 51'17	27°23'33	evening rise	13904 Jan 01 23:32 13904 Jan 03 01:26	0°≈ 2°≈14'44	
retrograde	13903 Feb 22 11:17 13903 Mar 08 02:24	9° Y 17° Y 19° 02	41 43 33	desc. node	13904 Jan 03 01:26 13904 Jan 12 10:38	2°≈1444 20°≈15'34	
evening set		1/ 11702		acsc. Houc	1270 Jan 12 10.36	∠∪ ~~1 <i>))</i> 4	
o vominie oot					13904 Ian 18 06:00	0°¥	
•	13903 Mar 14 20:31	14° Y '49'40	0.64493 AII	evening may el	13904 Jan 18 06:00 13904 Feb 04 22:06	0° \ 22° \ 49'14	27°33'32
min. Earth dist.		14° Y '49'40	0.64493 AU -0°10'28	evening max el	13904 Jan 18 06:00 13904 Feb 04 22:06 13904 Feb 16 14:28	0°) 22°) (49'14 0° Υ	27°33'32

. 1	12004 F 1 10 10 00	0° Υ 13'13			12004 D 20 07 20	0044157	
retrograde	13904 Feb 18 19:06			desc. node	13904 Dec 29 07:28	9° ≈ 44'57	
_	13904 Feb 20 22:30	30° ₹			13905 Jan 12 09:06	0° ∀	
evening set	13904 Feb 25 16:42	27° ¥ 53′50		evening max el	13905 Jan 17 03:59	5° ∺ 04'27	27°10'18
min. Earth dist.	13904 Feb 29 10:45		0.62493 AU	retrograde	13905 Jan 31 03:30	12° ∺ 20'14	
inferior conj	13904 Mar 03 09:16	22°) €03'06	-1°23'16	evening set	13905 Feb 06 22:14	10° ₩ 19'06	
minimum elong	13904 Mar 03 12:06	21° ¥ 56′19	1°21'52	min. Earth dist.	13905 Feb 10 18:26	7°) € 35'49	0.60320 AU
asc. node	13904 Mar 07 15:42	18°) €23'14		inferior conj	13905 Feb 13 22:44	4°) 55'46	-2°45'18
morning rise	13904 Mar 10 10:15	16° ¥ 55'38		minimum elong	13905 Feb 14 04:44	4°) 43′09	2°42'28
direct	13904 Mar 12 16:45	16°) €31'56		morning rise	13905 Feb 21 14:27	0°) €07'47	
morning max el	13904 Mar 19 08:28	19°) 54'37	17°46'46		13905 Feb 22 03:47	30°R≈	
morning max cr	13904 Mar 26 21:09	0° Υ	17 40 40	asc. node	13905 Feb 22 13:12	29°≈55'55	
. ,							
morning set	13904 Apr 04 07:35	14° Y 26′00		direct	13905 Feb 23 15:59	29°≈50'55	
desc. node	13904 Apr 09 12:49	23° Y 33'02			13905 Feb 25 03:41	0° ∀	
	13904 Apr 13 07:06	9° 8		morning max el	13905 Mar 02 23:30	3° ¥ 30′12	18°00'09
				morning set	13905 Mar 18 13:11	28°) €00'19	
superior conj	13904 Apr 16 02:09	4° 8 42'08	-0°49'57		13905 Mar 19 15:09	0 ° $\mathbf{\Upsilon}$	
minimum elong	13904 Apr 15 21:16	4° 8 21'46	0°49'44	desc. node	13905 Mar 27 09:20	14° Y ′06′00	
max. Earth dist.	13904 Apr 22 18:42	15° 8 39'13	1.44119 AU				
evening rise	13904 Apr 30 19:35	28° 8 18'19		superior conj	13905 Mar 28 17:53	16° Ƴ 29'51	-0°10'50
e vennig rise	13904 May 01 21:59	0°II		minimum elong	13905 Mar 28 16:57	16°Υ25'46	
	13904 May 22 11:22	0° ©		behind sun begin	13905 Mar 28 11:04	15° Υ 59'51	0 10 32
	•		21007140	_		16° Υ 51'38	
evening max el	13904 May 31 03:12		21°07'49	behind sun end	13905 Mar 28 22:50		1 100 50 1 7 7
asc. node	13904 Jun 03 12:41	13° © 23'32		max. Earth dist.	13905 Apr 05 07:21	29° Y ′24'49	1.42350 AU
retrograde	13904 Jun 08 17:52	15° © 26'21			13905 Apr 05 15:51	$0^{\circ}S$	
evening set	13904 Jun 13 01:53	13° © 41'44		evening rise	13905 Apr 10 21:34	8° 8 29'59	
inferior conj	13904 Jun 18 07:45	7° 5 29'48	3°09'55		13905 Apr 25 01:03	$\Pi^{\circ}0$	
minimum elong	13904 Jun 18 07:11	7° 5 31'44	3°08'50	evening max el	13905 May 13 20:57	24° Ⅱ 15'53	22°24'57
min. Earth dist.	13904 Jun 18 17:03	6°\$57'26	0.68689 AU	asc. node	13905 May 21 09:52	29° Ⅲ 38′06	
morning rise	13904 Jun 23 12:16	1° © 11'30			13905 May 23 06:25	0° ©	
8	13904 Jun 25 02:25	30°R Ⅱ		retrograde	13905 May 23 15:23	0°900'40	
direct	13904 Jun 28 16:43	28° I 55'50		retrograde	13905 May 24 00:16	30°RⅡ	
uncci		0°95			-	28° ∏ 00'33	
	13904 Jul 02 15:06			evening set	13905 May 28 10:26		2050111
desc. node	13904 Jul 06 13:15	2° © 43'44		inferior conj	13905 Jun 02 17:22	21° Ⅲ 39'12	
morning max el	13904 Jul 09 03:01	5° ॐ 08'06	23°15'12	minimum elong	13905 Jun 02 15:58	21° Ⅱ 44'04	2°56'59
	13904 Jul 28 07:00	$0 {\circ} \Omega$		min. Earth dist.	13905 Jun 02 13:41	21° ∏ 52′04	0.68962 AU
morning set	13904 Aug 12 17:52	24° Ω 14'14		morning rise	13905 Jun 07 21:21	15° Ⅱ 27'16	
	13904 Aug 16 03:36	0° m /		direct	13905 Jun 12 13:08	13° Ⅲ 30′09	
max. Earth dist.	13904 Aug 16 22:05	1° m 19'37	1.39641 AU	morning max el	13905 Jun 21 16:33	18° Ⅲ 50′19	21°47'45
	J	•		desc. node	13905 Jun 23 10:23	20° Ⅱ 40′09	
superior conj	13904 Aug 24 15:40	15° m 09'08	-0°51'59	dese. Hode	13905 Jun 30 23:48	0.2 2.2	
minimum elong	13904 Aug 24 19:31	15° m) 26'54			13905 Jul 21 10:03	$0 {\circ} {\mathfrak O}$	
_	13904 Aug 24 19:31 13904 Aug 30 13:27	-	0 31 43		13905 Jul 24 00:50	4° Ω 08'04	
asc. node	U	26° m 17'38		morning set			1 11006 177
	13904 Sep 01 11:41	0∘ ⊽		max. Earth dist.	13905 Jul 29 23:55	13° Ω 48'46	1.41906 AU
evening rise	13904 Sep 03 03:01	3° ഫ 09'32				_	
evening max el	13904 Sep 19 04:08	29° ₽ 10'03	18°37'30	superior conj	13905 Aug 06 15:53	26° Ω 50'37	-1°26'35
	13904 Sep 20 01:13	0°M₊		minimum elong	13905 Aug 06 22:24	27° Ω 19'06	1°26'25
retrograde	13904 Sep 27 06:45	3°M15'24			13905 Aug 08 11:00	O° m y	
evening set	13904 Sep 29 05:13	3°M02'11		asc. node	13905 Aug 17 10:03	16° Mp 13'52	
desc. node	13904 Oct 02 09:39	1°M48'35		evening rise	13905 Aug 17 12:07	16° Mp 23'26	
	13904 Oct 05 06:54	30° ₽ Ω		•	13905 Aug 25 02:11	0∘ ⊽	
inferior conj	13904 Oct 07 04:44	28° Ω 35'41	-1°31'29	evening max el	13905 Sep 02 13:07	11° ≏ 51'13	18°10'18
minimum elong	13904 Oct 07 01:02	28° ⊆ 42'41	1°29'36	retrograde	13905 Sep 02 15:07 13905 Sep 09 15:02	15° £ 27'39	10 10 10
•			0.57303 AU	•	-		
min. Earth dist.	13904 Oct 10 08:45	26° £ 12'54	0.57505 AU	evening set	13905 Sep 11 20:11	15° Ω 07'00	000 412.1
morning rise	13904 Oct 14 17:24	23° △ 31'01		inferior conj	13905 Sep 19 01:21	10° ♀ 19'42	0°04'31
direct	13904 Oct 20 17:06	22° ≏ 01'54		minimum elong	13905 Sep 19 01:31	10° ≏ 19'21	0°04'32
morning max el	13904 Nov 03 23:45	29° ≏ 30'28	26°45'37	transit middle	13905 Sep 19 01:31	10° ≏ 19'21	0°04'32
	13904 Nov 04 11:50	0° M		transit begin	13905 Sep 18 22:15	10° ≏ 26'32	
	13904 Nov 25 07:31	0° ∡ ¹		transit end	13905 Sep 19 04:47	10° ≙ 12'09	
asc. node	13904 Nov 26 15:09	2° ∡ °28'50		desc. node	13905 Sep 19 07:10	10° ≏ 06'51	
morning set	13904 Dec 03 12:04	16° ≯ 26'15		min. Earth dist.	13905 Sep 22 08:11	7° ≏ 27'19	0.59461 AU
<i>3 ,</i>	13904 Dec 09 15:57	0°る		morning rise	13905 Sep 26 03:29	4° ഫ 41'20	
	10,0.000 0, 10.07	Ÿ O		direct	13905 Oct 02 14:44	2° Ω 44'53	
superior con:	13904 Dec 10 07:39	1° る 27'41	1°36'16		13905 Oct 16 22:11	2 22 44 33 10° 2 32'27	279/1120
superior conj				morning max el			41 30
minimum elong	13904 Dec 10 06:50	1°る23'05	1°37'17	,	13905 Nov 01 01:01	0°M	
max. Earth dist.	13904 Dec 10 18:31	2° る 28'20	1.31297 AU	asc. node	13905 Nov 13 11:59	22°M01'16	
evening rise	13904 Dec 17 04:30	16° る 30'47			13905 Nov 17 09:48	0° ∡	
	13904 Dec 23 21:21	0° ≈		morning set	13905 Nov 17 18:34	0° х 46′09	

max. Earth dist.	13905 Nov 24 02:43	14° ∡ ³36′09	1.31179 AU		13906 Nov 08 21:55	0° ∡ 7	
superior conj	13905 Nov 24 19:12	16° ₹ 08'06	1°28'44	superior conj	13906 Nov 09 05:07	0° ∡ ³39'45	1°15'25
minimum elong	13905 Nov 24 17:31	15° ₹ 58'42	1°29'34	minimum elong	13906 Nov 09 02:55	0° х 27'35	1°15'58
	13905 Dec 01 01:34	0°궁		evening rise	13906 Nov 15 22:31	15° ∡ 28'24	
evening rise	13905 Dec 01 12:12	0° る 57'21		<i>Q</i> 11	13906 Nov 23 00:59	8°0	
desc. node	13905 Dec 16 04:24	28° る 38'53		desc. node	13906 Dec 03 01:27	16° පි 43'16	
	13905 Dec 17 01:04	0° ≈		evening max el	13906 Dec 11 16:59	27° る 02'29	24°45'46
evening max el	13905 Dec 30 02:38	16° ≈ 28'54	26°12'31	-	13906 Dec 15 04:42	0°≈	
retrograde	13906 Jan 13 01:31	23° ≈ 33'44		retrograde	13906 Dec 25 10:58	3° ≈ 54'37	
evening set	13906 Jan 19 09:13	21° ≈ 58′21		evening set	13906 Dec 30 21:35	2° ≈ 49'02	
min. Earth dist.	13906 Jan 23 16:02	19° ≈ 21'37	0.58168 AU	min. Earth dist.	13907 Jan 05 04:50	0° ≈ 02'36	0.56289 AU
inferior conj	13906 Jan 26 17:58	17° ≈ 06′58	-4°09'31		13907 Jan 05 06:30	30°Ŗる	
minimum elong	13906 Jan 27 02:34	16° ≈ 51'15	4°06'04	inferior conj	13907 Jan 07 16:26	28° る 28'06	-5°21'12
morning rise	13906 Feb 03 22:54	12° ≈ 40′19		minimum elong	13907 Jan 08 00:21	28° る 15'31	5°18'44
direct	13906 Feb 05 23:44	12° ≈ 26′35		morning rise	13907 Jan 16 05:15	24° る 22'47	
asc. node	13906 Feb 09 10:37	13° ≈ 08′22		direct	13907 Jan 18 12:37	24° る 08'07	
morning max el	13906 Feb 14 07:57	16° ≈ 32'36	18°33'38	asc. node	13907 Jan 27 07:57	27° る 59'37	
	13906 Feb 23 19:26	0° ∀		morning max el	13907 Jan 28 05:42	28° る 49'54	19°29'19
morning set	13906 Mar 02 07:18	12° ∺ 07'59			13907 Jan 29 09:06	0° ≈	
				morning set	13907 Feb 14 09:51	26° ≈ 36'55	
superior conj	13906 Mar 11 06:24	29°) 14′08	0°23'59		13907 Feb 16 02:16	0° ∀	
minimum elong	13906 Mar 11 08:01	29°) €21'38	0°23'50				
	13906 Mar 11 16:18	0° Υ		superior conj	13907 Feb 22 11:10	12°) 42'25	0°52'21
desc. node	13906 Mar 14 05:50	4° Υ 41'31		minimum elong	13907 Feb 22 13:49	12°) ₹55'21	0°52'21
max. Earth dist.	13906 Mar 18 15:42	12° Υ 30'19	1.40221 AU	max. Earth dist.	13907 Feb 28 22:14	24°) (57'12	1.37956 AU
evening rise	13906 Mar 22 20:01	19° Ƴ 36'42		desc. node	13907 Mar 01 02:21	25° ¥ 16′01 0° Ƴ	
	13906 Mar 29 06:02	8°0			13907 Mar 03 17:24	1° Υ 36'40	
	13906 Apr 19 07:23	0°II	22046102	evening rise	13907 Mar 04 15:18		
evening max el	13906 Apr 26 11:39	8° Д 08'02 14° Д 33'19	23°46'03	avanina may al	13907 Mar 22 10:43	0° と 22° と 01'41	25904120
retrograde asc. node	13906 May 07 09:56	14° Д 33'19		evening max el retrograde	13907 Apr 09 01:16	28° 8 58'54	25*04*29
evening set	13906 May 08 07:08 13906 May 12 16:35	14 П 2949 12° П 19'35		asc. node	13907 Apr 21 00:30 13907 Apr 25 04:27	28 8 38 34 27° 8 44'38	
min. Earth dist.	13906 May 17 10:17	6° ∏ 47'39	0.68766 AU	evening set	13907 Apr 26 18:48	26° 8 34'24	
inferior conj	13906 May 17 10:17	5° П 51'44	2°36'11	min. Earth dist.	13907 Apr 20 18:48 13907 May 01 04:41	20 3 34 24 21° 8 38'47	0.68110 AU
minimum elong	13906 May 18 00:40	5°II58'28	2°34'51	inferior conj	13907 May 02 09:39	20° 8 03'49	2°03'54
morning rise	13906 May 23 08:43	29° 8 47'33	2 3431	minimum elong	13907 May 02 07:30	20° 8 10'54	
	13906 May 23 02:33	30°R₩		morning rise	13907 May 07 20:29	14° 8 08'45	_ 0_00
direct	13906 May 27 12:01	28° 8 10'53		direct	13907 May 11 11:58	12° 8 52'28	
	13906 Jun 01 07:40	0°II		morning max el	13907 May 18 14:40	16° 8 46'53	19°24'13
morning max el	13906 Jun 04 11:49	2° Ⅱ 42'46	20°29'12	desc. node	13907 May 28 04:19	28° 8 48'51	
desc. node	13906 Jun 10 07:25	9° ∏ 26'14			13907 May 29 00:09	0° Ⅱ	
	13906 Jun 24 19:21	0ంతె		greatest brilliancy	13907 May 31 06:47	3° Ⅱ 19′28	-0.7m
morning set	13906 Jul 03 09:53	13° © 05'31		morning set	13907 Jun 12 12:03	21° II 50'20	
max. Earth dist.	13906 Jul 12 08:37	27°510'41	1.43822 AU		13907 Jun 17 18:54	0 \circ \odot	
	13906 Jul 14 02:38	$0^{\circ}\Omega$		max. Earth dist.	13907 Jun 24 23:50	11° © 15'14	1.45171 AU
superior conj	13906 Jul 18 17:17	7° Ω 32'55		superior conj	13907 Jun 28 19:23	17° © 17'26	
minimum elong	13906 Jul 19 00:24	8° Ω 02′23	1°55'59	minimum elong	13907 Jun 28 22:20	17° 5 29'13	2°13'06
evening rise	13906 Jul 31 05:15	28° Ω 53'40			13907 Jul 06 16:39	$0^{\circ}\Omega$	
	13906 Jul 31 20:27	0° ™		evening rise	13907 Jul 13 01:20	10° Ω 28'54	
asc. node	13906 Aug 04 06:40	5° Mp 58′06		asc. node	13907 Jul 22 03:21	25° Ω 25'37	
evening max el	13906 Aug 17 02:38	25° TQ 01'06	18°02'38		13907 Jul 25 02:06	0° ™	
retrograde	13906 Aug 23 14:47	28° Tp 23'06		evening max el	13907 Jul 31 17:02	8° m 30'43	18°13'27
evening set	13906 Aug 26 04:02	27° m 51'22	1010101	retrograde	13907 Aug 07 01:34	11° m 52'29	
inferior conj	13906 Sep 01 16:51	22° Mp 44'29	1°19'21	evening set	13907 Aug 09 23:17	11° Mp 06'57	2012127
minimum elong	13906 Sep 01 18:55	22°m/39'13	1°18'24	inferior conj	13907 Aug 15 23:15	5° m 42'46	
min. Earth dist.	13906 Sep 04 16:40	19° Mp 44'11	0.61756 AU	minimum elong	13907 Aug 16 01:43	5° Mp 35'47	2°11'25
desc. node	13906 Sep 06 04:42	18° Mp 21'10		min. Earth dist.	13907 Aug 18 10:54	2° Mp 54'34 30° RΩ	0.63928 AU
morning rise direct	13906 Sep 08 07:16 13906 Sep 14 23:24	16° Mp 41'41 14° Mp 22'25		morning rise	13907 Aug 21 09:33 13907 Aug 22 02:30	30° ₹37 29° Ω 25'15	
morning max el	13906 Sep 14 23:24 13906 Sep 29 03:17	22° My 20'45	27058120	desc. node	13907 Aug 22 02:30 13907 Aug 24 02:12	$29^{\circ} 0.25^{\circ} 15$ $28^{\circ} 0.05^{\circ} 47$	
morning max ci	13906 Sep 29 03.17 13906 Oct 05 21:26	ე∘ ი	41 3037	direct	13907 Aug 24 02.12 13907 Aug 28 17:17	26° Ω 51'06	
	13906 Oct 05 21:26 13906 Oct 25 05:26	0°M		direct	13907 Aug 28 17.17 13907 Sep 05 22:04	0° m)	
asc. node	13906 Oct 23 03:20 13906 Oct 31 08:43	11°M49'29		morning max el	13907 Sep 03 22:04 13907 Sep 11 12:53	رابات 4° ال 051'04	27°38'25
morning set	13906 Nov 01 19:29	14°M46'42			13907 Sep 30 13:53	0° ⊽	JU = J
max. Earth dist.	13906 Nov 07 08:17	26°M33'17	1.31596 AU	morning set	13907 Oct 16 12:29	28° ≏ 22'50	
				<i>5</i>			

	13907 Oct 17 07:55	0°M₊		morning set	13908 Sep 28 18:38	11° ≏ 27'29	
asc. node	13907 Oct 18 05:22	1°M48'28		max. Earth dist.	13908 Oct 02 21:19	19° ≏ 29'18	1.34032 AU
max. Earth dist.	13907 Oct 21 07:32	8°M12'19	1.32551 AU	asc. node	13908 Oct 04 01:59	21° ≏ 53'38	
superior conj	13907 Oct 24 11:27	14°M57'37	0°56'22	superior conj	13908 Oct 07 11:56	28° ≏ 55'45	0°31'44
minimum elong	13907 Oct 24 09:13	14°M45'33	0°56'39	minimum elong	13908 Oct 07 10:20	28° ≏ 47'25	0°31'52
evening rise	13907 Oct 31 09:38	29°M59'29			13908 Oct 08 00:12	0° M	
	13907 Oct 31 09:43	0° ∡ ¹		evening rise	13908 Oct 14 19:37	14°M25'32	
	13907 Nov 17 00:57	0°₹			13908 Oct 22 15:28	0° ∡ ¹	
desc. node	13907 Nov 19 22:36	3° ප 40'17		evening max el	13908 Nov 03 17:11	17° ∡ 12′02	21°25'45
evening max el	13907 Nov 23 02:43	7° る 04'24	23°04'08	desc. node	13908 Nov 05 19:52	19° ∡ ′06′28	
retrograde	13907 Dec 06 07:38	13° る 37'56		retrograde	13908 Nov 15 19:34	23° ҂ 12'21	
evening set	13907 Dec 10 11:18	13° る 00'27		evening set	13908 Nov 18 15:09	22° ₹ ′54′06	
min. Earth dist.	13907 Dec 17 12:05	9° ට 45'03	0.54975 AU	inferior conj	13908 Nov 27 11:33	19° ∡ '01'01	-5°36'19
inferior conj	13907 Dec 18 19:30	8° る 59'59		minimum elong	13908 Nov 27 04:14	19° √ 11'17	
minimum elong	13907 Dec 18 20:52	8° පි 58'02		min. Earth dist.	13908 Nov 27 18:05	18° ∡ ′51′50	0.54480 AU
morning rise	13907 Dec 27 07:57	5° る 10'26	2 20 03	morning rise	13908 Dec 05 18:02	15° × 711'57	0.5 1 100 110
direct	13907 Dec 30 06:48	4°₹49'57		direct	13908 Dec 09 14:37	14° х 39'45	
morning max el	13907 Dec 30 00:48 13908 Jan 10 13:31	10°る13'38	20°48'12	morning max el	13908 Dec 09 14:37 13908 Dec 22 07:38	20° x 46'31	22°27'17
asc. node	13908 Jan 14 05:15	10 3 13 38	20 46 12	morning max er	13908 Dec 22 07.38 13908 Dec 29 23:48	20 x 40 31 0°る	22 2/1/
asc. node	13908 Jan 24 02:01	0°≈		asc. node	13908 Dec 29 23.48 13908 Dec 31 02:28	0 る 1°る38'58	
morning set	13908 Jan 29 17:45	11° ≈ 17'34		morning set	13909 Jan 13 04:39	26° る 03'19	
	12000 F 1 06 02 54	260 42120	1010110		13909 Jan 15 01:05	0° ≈	
superior conj	13908 Feb 06 03:54	26°≈42'29	1°13'43				
minimum elong	13908 Feb 06 06:29	26°≈55'42	1°14'04	superior conj	13909 Jan 20 05:08	11° ≈ 04'34	1°28'13
	13908 Feb 07 18:46	0° ∀		minimum elong	13909 Jan 20 07:01	11° ≈ 14'32	
max. Earth dist.	13908 Feb 11 06:49	6° ¥ 56′21	1.35801 AU	max. Earth dist.	13909 Jan 23 21:32	18° ≈ 46'54	1.33957 AU
evening rise	13908 Feb 15 04:39	14° ∺ 21'28		evening rise	13909 Jan 28 08:37	27° ≈ 42'30	
desc. node	13908 Feb 15 22:51	15°) 45′23			13909 Jan 29 13:09	0° ∀	
	13908 Feb 24 03:17	0° Y		desc. node	13909 Feb 01 19:27	6°) €05'42	
	13908 Mar 16 04:38	$0^{\circ}S$			13909 Feb 16 09:37	0° Y	
evening max el	13908 Mar 21 14:48	5° 8 51'33	26°13'05	evening max el	13909 Mar 04 04:22	19° Ƴ 30′15	27°04'30
retrograde	13908 Apr 03 10:10	13° 8 09'54		retrograde	13909 Mar 17 14:11	26° Ƴ 58'13	
evening set	13908 Apr 09 15:22	10° 8 38'45		evening set	13909 Mar 24 04:21	24° Y 26'10	
asc. node	13908 Apr 11 01:50	9° 8 20'11		min. Earth dist.	13909 Mar 28 02:42	20° Ƴ 39'01	0.65515 AU
min. Earth dist.	13908 Apr 13 18:49	6° 8 18'26	0.67014 AU	asc. node	13909 Mar 28 23:17	19° Ƴ 41'16	
inferior conj	13908 Apr 15 12:23	4° 8 10'25	1°20'49	inferior conj	13909 Mar 30 08:33	18° Ƴ 06'19	0°26'19
minimum elong	13908 Apr 15 10:35	4° 8 15'58	1°19'41	minimum elong	13909 Mar 30 07:50	18° Ƴ 08'20	0°25'48
C	13908 Apr 19 05:44	30° Ŗ ♈		morning rise	13909 Apr 05 12:53	12° Ƴ 34'04	
morning rise	13908 Apr 21 06:38	28° Y °25'52		direct	13909 Apr 08 07:36	11° Υ 52'28	
direct	13908 Apr 24 11:09	27° Y ′28′21		morning max el	13909 Apr 14 15:47	15° Ƴ 11'04	18°02'35
	13908 Apr 29 23:04	0°8			13909 Apr 25 11:37	0°8	
morning max el	13908 May 01 00:38	0° 8 58'32	18°35'02	desc. node	13909 Apr 30 21:49	8° 8 45'38	
desc. node	13908 May 14 01:07	18° 8 37'42	10 30 02	morning set	13909 May 03 00:13	12° 8 10'59	
desc. node	13908 May 21 08:00	0°II		morning sec	13909 May 14 01:30	0°II	
morning set	13908 May 22 04:35	1° Ⅱ 20'47			15707 May 11 01.50	о д	
morning set	13700 Way 22 04.33	1 11204/		superior conj	13909 May 17 15:54	5° Ⅱ 41'36	-1°47'54
superior conj	13908 Jun 07 05:32	26° Ⅱ 25'41	-2°09'48	minimum elong	13909 May 17 13:54 13909 May 17 06:53	5° I 106'06	
minimum elong	13908 Jun 07 00:47	26° I 107'11		max. Earth dist.	13909 May 20 14:37		1.45723 AU
max. Earth dist.	13908 Jun 06 18:46		1.45821 AU	max. Lartii dist.	13909 Jun 02 07:05	0°95	1. 4 3/23 AO
max. Earm dist.		23 H 4340	1.43621 AU	avanina riaa		0°9343'21	
	13908 Jun 09 12:24			evening rise	13909 Jun 02 18:20		0.7
evening rise	13908 Jun 22 20:51	21° © 01'58		greatest brilliancy	13909 Jun 15 18:45	20°532'41	-0.7m
	13908 Jun 28 12:27	0° Ω	0.0		13909 Jun 22 11:12	0°Ω	
greatest brilliancy	13908 Jun 30 18:58	3° Ω 34'50	-0.8m	asc. node	13909 Jun 24 21:00	3° Ω 02'05	1000000
asc. node	13908 Jul 08 00:07	14° £ 29'35		evening max el	13909 Jun 27 13:12	5° Ω 59'11	19°27'20
evening max el	13908 Jul 14 05:18	22° Ω 11'55	18°42'01	retrograde	13909 Jul 04 16:49	9° Ω 59'29	
retrograde	13908 Jul 20 19:18	25° Ω 46'46		evening set	13909 Jul 08 08:41	8° Ω 41'35	
evening set	13908 Jul 24 01:49	24° Ω 45'36		inferior conj	13909 Jul 13 17:47	2° Ω 48'37	
inferior conj	13908 Jul 29 16:39	19° Ω 06′15	2°47'08	minimum elong	13909 Jul 13 18:48	2° Ω 45'13	3°04'59
minimum elong	13908 Jul 29 18:36	19° Ω 00'13	2°46'00	min. Earth dist.	13909 Jul 15 00:55	1° Ω 05'58	0.67290 AU
min. Earth dist.	13908 Jul 31 14:10	16° Ω 45'38	0.65805 AU		13909 Jul 15 21:27	30° ₹ 5	
morning rise	13908 Aug 04 10:26	12° Ω 42'14		morning rise	13909 Jul 19 04:24	26° 5 24'06	
desc. node	13908 Aug 09 23:41	10° Ω 04'52		direct	13909 Jul 25 03:41	23°5947'47	
direct	13908 Aug 10 19:07	10° Ω 02'27		desc. node	13909 Jul 27 21:08	24° © 15'37	
morning max el	13908 Aug 24 00:11	17° Ω 51'39	26°47'01		13909 Aug 05 06:35	$0^{\circ}\Omega$	
	13908 Sep 03 04:50	0° m y		morning max el	13909 Aug 06 11:03	1° Ω 10′11	25°33'08
	13908 Sep 22 12:31	0∘ 亚			13909 Aug 28 04:55	0° ™	
	-				-		

morning set	13909 Sep 11 10:12	23° m 51'06		desc. node	13910 Jul 14 18:28	10° © 14'21	
S	13909 Sep 14 18:07	0∘ <u>⊽</u>		morning max el	13910 Jul 19 21:19	14° © 39'19	24°06'45
max. Earth dist.	13909 Sep 15 01:06	0° Ω 32'54	1.35992 AU		13910 Aug 01 10:06	$0^{\circ}\Omega$	
asc. node	13909 Sep 20 22:32	12° ჲ 00'37			13910 Aug 21 02:22	0° ™	
				morning set	13910 Aug 24 06:50	5° Mp 23'45	
superior conj	13909 Sep 21 03:45	12° ≏ 26'44		max. Earth dist.	13910 Aug 27 23:23	11° m 51'05	1.38281 AU
minimum elong	13909 Sep 21 03:37	12° ≏ 26'04	0°02'09				
behind sun begin	13909 Sep 20 21:24	11° £ 54'56		superior conj	13910 Sep 04 07:32	25° m 23'09	
behind sun end	13909 Sep 21 09:50	12° £ 57'16		minimum elong	13910 Sep 04 09:45	25° m 33'40	0°31'25
evening rise	13909 Sep 29 02:22	28° Ω 40'29		1	13910 Sep 06 17:07	0∘ ⊽	
evening max el	13909 Sep 29 17:55 13909 Oct 16 20:23	0°M 27°M56'57	20°03'30	asc. node evening rise	13910 Sep 07 19:06 13910 Sep 13 03:23	2° £ 06′28 12° £ 38′44	
evening max er	13909 Oct 10 20:23 13909 Oct 19 03:40	27 IIC3037 0° √ 7	20 03 30	evening rise	13910 Sep 13 03.23 13910 Sep 22 11:39	0°M	
desc. node	13909 Oct 23 17:15	2° × ⁷ 33'57		evening max el	13910 Sep 29 13:43	9°M31'01	19°02'33
retrograde	13909 Oct 27 08:27	3° √ 10'44		retrograde	13910 Oct 08 10:52	13°M58'21	17 02 33
evening set	13909 Oct 29 09:04	2° ₹ '59'58		evening set	13910 Oct 10 07:40	13°M47'21	
<i>5</i>	13909 Nov 05 15:11	30°RM₊		desc. node	13910 Oct 10 14:42	13°M43'42	
inferior conj	13909 Nov 07 06:30	29°M01'38	-4°19'32	inferior conj	13910 Oct 18 17:11	9°M32'33	-2°33'31
minimum elong	13909 Nov 06 20:29	29°M16'41	4°15'41	minimum elong	13910 Oct 18 10:40	9° ™ 43'45	2°30'26
min. Earth dist.	13909 Nov 09 01:49	27°M56'27	0.54931 AU	min. Earth dist.	13910 Oct 21 13:33	7°MJ35'11	0.56253 AU
morning rise	13909 Nov 15 06:47	24°M53'06		morning rise	13910 Oct 26 10:51	4° ™ 50'05	
direct	13909 Nov 20 02:02	24°M02'50		direct	13910 Nov 01 01:42	3°M36'17	
	13909 Dec 02 21:15	0° ∡ ″		morning max el	13910 Nov 15 04:45	10° ™ 49'54	25°57'52
morning max el	13909 Dec 03 17:45		24°16'19	_	13910 Nov 29 20:12	0° ∡ 7	
asc. node	13909 Dec 17 23:35	19° ∡ 52'57		asc. node	13910 Dec 04 20:37	8° ₹ 44'50	
	13909 Dec 23 11:09	0°る		morning set	13910 Dec 13 03:47	25° ₹ 25'55	
morning set	13909 Dec 28 16:35	10° る 47'40			13910 Dec 15 06:14	0°ප	
superior conj	13910 Jan 04 12:00	25° ප 39'34	1°36'11	superior conj	13910 Dec 19 22:13	10° ප් 20'45	1°37'57
minimum elong	13910 Jan 04 12:52	25° る 44'14	1°37'09	minimum elong	13910 Dec 19 21:59	10° る 19'28	1°39'00
	13910 Jan 06 11:59	0° ≈		max. Earth dist.	13910 Dec 21 00:55	12° る 48'55	1.31609 AU
max. Earth dist.	13910 Jan 06 20:01	0° ≈ 43'15	1.32541 AU	evening rise	13910 Dec 26 23:12	25° る 37'46	
evening rise	13910 Jan 11 23:46	11° ≈ 30′23			13910 Dec 29 02:08	0° ≈	
desc. node	13910 Jan 19 16:07	26°≈11'20		desc. node	13911 Jan 06 12:53	15°≈56'00	
	13910 Jan 21 19:59	0°) €			13911 Jan 15 08:22	0°) {	
	13910 Feb 11 23:15	0°Υ	27021126	evening max el	13911 Jan 28 02:11	15°) €28'25	27°27'59
evening max el	13910 Feb 14 16:55	2° Υ 46'51 10° Υ 14'10	27°31'36	retrograde	13911 Feb 11 00:36	22°) 48'32 20°) 36'19	
retrograde evening set	13910 Feb 28 11:26 13910 Mar 07 07:26	7° Y 48'14		evening set min. Earth dist.	13911 Feb 17 21:46 13911 Feb 21 16:13	17°) 43'06	0.61582 AU
min. Earth dist.	13910 Mar 11 02:25		0.63671 AU	inferior conj	13911 Feb 24 17:44	14°)(56'32	
inferior conj	13910 Mar 13 19:25	1° Υ 44'27		minimum elong	13911 Feb 24 21:52	14°) 47'08	
minimum elong	13910 Mar 13 20:41	1° Υ 41'11		asc. node	13911 Mar 02 18:18	10°) €26'42	
asc. node	13910 Mar 15 20:47	29°) (41'53		morning rise	13911 Mar 04 00:56	9°) 56'38	
	13910 Mar 15 13:09	30° ₹		direct	13911 Mar 06 05:00	9°) (36′13	
morning rise	13910 Mar 20 12:16	26° ∺ 26'52		morning max el	13911 Mar 13 02:17	13°) €04'44	17°50'04
direct	13910 Mar 22 22:40	25° ¥ 57'41			13911 Mar 24 14:30	0 ° Υ	
morning max el	13910 Mar 29 09:23	29°) 16′03	17°47'23	morning set	13911 Mar 28 19:03	7° Y 27'29	
	13910 Mar 30 02:38	0° Υ		desc. node	13911 Apr 04 14:59	19° Ƴ 36′22	
morning set	13910 Apr 14 22:57	24° Y 19'11				• •	
desc. node	13910 Apr 17 18:27	29° Y 06'44		superior conj	13911 Apr 08 20:28	26° Y 55'08	
	13910 Apr 18 07:00	0°8		minimum elong	13911 Apr 08 17:23	26° Y 41'59	0°32'55
superior conj	13910 Apr 27 18:24	15° 8 45'26	1010144	max. Earth dist.	13911 Apr 10 16:05 13911 Apr 16 01:15	0° と 8° と 54'30	1.43429 AU
minimum elong	13910 Apr 27 18:24 13910 Apr 27 11:10	15° 8 15'58		evening rise	13911 Apr 10 01:13	19° 8 52'21	1.43429 AU
max. Earth dist.	13910 May 03 09:27	24° 8 47'38		evening rise	13911 Apr 29 12:57	0°П	
max. Dartii dist.	13910 May 06 16:45	0°Ⅱ	1.110/3/110		13911 May 21 03:48	0°©	
evening rise	13910 May 13 05:30	10° Ⅱ 06'42		evening max el	13911 May 24 12:05	3° 5 39'09	21°39'49
5 .	13910 May 26 11:47	0°9		asc. node	13911 May 29 15:07	7° © 46'57	
evening max el	13910 Jun 10 15:30	19° 5 349'10	20°27'37	retrograde	13911 Jun 02 14:05	8° 9 57'56	
asc. node	13910 Jun 11 18:00	20° © 52'41		evening set	13911 Jun 07 02:49	7° 5 06'27	
retrograde	13910 Jun 18 15:43	24° © 25'15		inferior conj	13911 Jun 12 08:53	0° © 50'27	3°06'12
evening set	13910 Jun 22 17:39	22° © 50'19		minimum elong	13911 Jun 12 07:57	0° © 53'43	3°05'04
inferior conj	13910 Jun 27 23:58	16° 5 45'05		min. Earth dist.	13911 Jun 12 12:36	0° © 37'29	0.68869 AU
minimum elong	13910 Jun 27 23:58	16°5945'03	3°10'46		13911 Jun 12 23:22	30°R∏	
min. Earth dist.	13910 Jun 28 17:06	15°5546'16	0.68318 AU	morning rise	13911 Jun 17 12:53	24° ∏ 34'55	
morning rise	13910 Jul 03 05:59	10°523'54		direct	13911 Jun 22 12:03	22° ∏ 26'44	
direct	13910 Jul 08 17:44	7° © 58'53		desc. node	13911 Jul 01 15:42	27° Ⅱ 34′03	

	12011 1 1 02 00 10	200 T 1 (11 0	22225110		12012 1 05 00 22	70 T 0 440	
morning max el	13911 Jul 02 08:48	28° Ⅱ 16'10	22°37'18	direct	13912 Jun 05 09:32	7° Ⅱ 04'42	21012155
	13911 Jul 04 00:25	0° ©		morning max el	13912 Jun 14 00:36	12° Ⅱ 03'03	21°12'55
	13911 Jul 26 01:48	0°N		desc. node	13912 Jun 17 12:47	15° Ⅱ 53'32	
morning set	13911 Aug 05 04:07	15° Ω 54'24			13912 Jun 28 03:39	0°®	
max. Earth dist.	13911 Aug 09 22:54	23° Ω 51'47	1.40641 AU	morning set	13912 Jul 15 00:48	25°\$21'26	
	13911 Aug 13 12:34	0° m		T 4 1 1 1	13912 Jul 17 23:18	0°N	1 10505 177
	12011 1 17 10 02	70 m 2 4122	1000155	max. Earth dist.	13912 Jul 22 03:53	6°8745'17	1.42785 AU
superior conj	13911 Aug 17 19:02	7° m/34'23			12012 1 1 20 00 50	100 0 50142	1040100
minimum elong	13911 Aug 18 00:07	7° m 57'16	1°06'41	superior conj	13912 Jul 29 09:50	18° Ω 50'42	
asc. node	13911 Aug 25 15:38	22° m 06'59		minimum elong	13912 Jul 29 17:02	19° Ω 21′26	1°39'59
evening rise	13911 Aug 27 19:25	26° TQ 11'27			13912 Aug 04 19:42	0° m)	
	13911 Aug 29 19:57	0∘ ত		evening rise	13912 Aug 09 22:20	9° m)08'13	
evening max el	13911 Sep 12 18:06	21° ≏ 49'30	18°23'21	asc. node	13912 Aug 11 12:13	11° m)58'27	
retrograde	13911 Sep 20 08:44	25° ≏ 40'50			13912 Aug 22 07:32	0∘ ಹ	
evening set	13911 Sep 22 09:48	25° ≏ 24'52		evening max el	13912 Aug 26 05:22	4° ჲ 43'18	18°04'38
desc. node	13911 Sep 27 12:13	22° ≏ 47'18		retrograde	13912 Sep 02 00:17	8° ₾ 12'13	
inferior conj	13911 Sep 30 01:24	20° ≏ 49'02	-0°48'25	evening set	13912 Sep 04 08:42	7° ≏ 47'20	
minimum elong	13911 Sep 29 23:34	20° ჲ 52'45	0°47'24	inferior conj	13912 Sep 11 06:31	2° ≙ 51'14	0°39'02
min. Earth dist.	13911 Oct 03 07:56	18° ≙ 11'29	0.58192 AU	minimum elong	13912 Sep 11 07:43	2° ≏ 48'25	0°38'31
morning rise	13911 Oct 07 09:52	15° ≏ 29'18		desc. node	13912 Sep 13 09:45	0° ≙ 50'44	
direct	13911 Oct 13 15:12	13° ≏ 48'38			13912 Sep 14 07:57	30°R, Mp	
morning max el	13911 Oct 27 22:40	21° ≏ 25'17	27°14'03	min. Earth dist.	13912 Sep 14 11:10	29° m 52'47	0.60437 AU
	13911 Nov 04 10:48	0°M		morning rise	13912 Sep 18 03:39	27° Mp 00'52	
asc. node	13911 Nov 21 17:30	28°ML04'29		direct	13912 Sep 24 17:33	24° m 54'06	
	13911 Nov 22 17:05	0° ∡ 7			13912 Oct 05 22:47	0∘ ⊽	
morning set	13911 Nov 27 12:31	9° х 53′33		morning max el	13912 Oct 09 00:25	2° ≏ 47'39	27°53'39
Č				C	13912 Oct 28 23:29	0° M .	
superior conj	13911 Dec 04 09:46	25° ₹ 02'29	1°33'47	asc. node	13912 Nov 07 14:15	17° M 44'06	
minimum elong	13911 Dec 04 08:33	24° ₹ ′55'40	1°34'44	morning set	13912 Nov 10 16:52	24°ML05'37	
max. Earth dist.	13911 Dec 04 09:05	24° х 58'36	1.31183 AU	. 8	13912 Nov 13 11:29	0° ∡ 7	
	13911 Dec 06 15:04	0°ਰ		max. Earth dist.	13912 Nov 16 16:40	7° х ¹03'00	1.31287 AU
evening rise	13911 Dec 11 04:29	9° る 58'27		man. Barm dist.	15,121,07 10 10.10	, , 03 00	1.5120, 110
e vennig nise	13911 Dec 21 09:10	0° ≈		superior conj	13912 Nov 17 20:49	9° х 39′16	1°23'47
desc. node	13911 Dec 24 09:45	5° ≈ 11'29		minimum elong	13912 Nov 17 18:52	9° × 728'24	1°24'31
evening max el	13912 Jan 10 05:19	27°≈22'40	26°49'50	evening rise	13912 Nov 17 18:32 13912 Nov 24 13:29	24°×726'53	1 2431
evening max er	13912 Jan 13 05:58	0° ∀	20 47 30	evening rise	13912 Nov 27 04:18	0°중	
retrograde	13912 Jan 24 04:28	4°) 33′23		desc. node	13912 Dec 10 06:43	23° る 46'05	
evening set	13912 Jan 24 04:28 13912 Jan 30 19:55	2°) 42′21		desc. Hode	13912 Dec 10 00:43	23 ℃ 40 03	
evening set				avanina may al	13912 Dec 14 13:40 13912 Dec 22 00:04		25020120
min. Earth dist.	13912 Feb 03 21:20	30°R≈ 0°) (03'54	0.59388 AU	evening max el		8°≈23'07 15°≈23'38	23 36 26
inferior conj	13912 Feb 03 19:17	0 X 03 34 27°≈32'44		retrograde	13913 Jan 04 21:33	13 ≈23 38 14°≈00'21	
	13912 Feb 06 23:52			evening set	13913 Jan 10 21:42		0.57210.411
minimum elong	13912 Feb 07 07:10	27°≈18'17	3-18-08	min. Earth dist.	13913 Jan 15 12:36	11°≈21'56	0.57310 AU
morning rise	13912 Feb 14 21:35	22°≈53'42		inferior conj	13913 Jan 18 10:21	9°≈22'30	
direct	13912 Feb 16 22:20	22°≈38'31		minimum elong	13913 Jan 18 19:16		4°39'30
asc. node	13912 Feb 17 15:46	22°≈40'31	10011150	morning rise	13913 Jan 26 19:35	5°≈05'40	
morning max el	13912 Feb 24 15:00	26°≈27'34	18°11'53	direct	13913 Jan 28 22:05	4°≈52'08	
	13912 Feb 27 16:56	0°) {		asc. node	13913 Feb 03 13:10	6°≈35'50	1005430
morning set	13912 Mar 11 06:36	21°) €18'10		morning max el	13913 Feb 06 19:27	9°≈12'08	18°54'39
	13912 Mar 15 21:51	0° Ƴ		_	13913 Feb 20 07:37	0°) {	
				morning set	13913 Feb 23 04:42	5°) (35′42	
superior conj	13912 Mar 20 21:39	9° ℃ 08'59	0°04'39				
minimum elong	13912 Mar 20 22:00	9° Y 10′35	0°04'32	superior conj	13913 Mar 03 17:40	22°) 13′38	0°36'49
behind sun begin	13912 Mar 20 14:44	8° Y 37'48		minimum elong	13913 Mar 03 19:53	22°) €24'09	0°36'43
behind sun end	13912 Mar 21 05:17	9° Ƴ 43'17			13913 Mar 07 21:47	0° Y	
desc. node	13912 Mar 21 11:28	10° Y °11′02		desc. node	13913 Mar 08 07:57	0° Y 46′20	
max. Earth dist.	13912 Mar 28 12:32	22° Y 26'11	1.41476 AU	max. Earth dist.	13913 Mar 10 19:26	5° Y 13′20	1.39251 AU
evening rise	13912 Apr 02 08:49	0° 8 27'04		evening rise	13913 Mar 14 16:17	11° Ƴ 56'41	
	13912 Apr 02 02:09	9° 8			13913 Mar 25 20:59	0° 8	
	13912 Apr 22 00:04	Π °0			13913 Apr 17 09:52	Π °0	
evening max el	13912 May 06 04:15	17° Ⅱ 30′02	22°59'13	evening max el	13913 Apr 18 18:04	1° Ⅲ 22′12	24°20'04
asc. node	13912 May 15 12:19	23° Ⅱ 28'47		retrograde	13913 Apr 30 03:37	8° Ⅱ 03'04	
retrograde	13912 May 16 10:29	23° II 32'38		asc. node	13913 May 02 09:37	7° Ⅱ 40'43	
evening set	13912 May 21 10:33	21° Ⅲ 26′09		evening set	13913 May 05 15:15	5° Ⅱ 44'09	
inferior conj	13912 May 26 18:35	15° Ⅱ 01'34	2°50'07	min. Earth dist.	13913 May 10 05:20	0° Ⅲ 27'44	0.68542 AU
minimum elong	13912 May 26 16:54	15° Ⅲ 07′23	2°48'50		13913 May 10 13:35	30° ₹ 8	
min. Earth dist.	13912 May 26 09:23	15° Ⅲ 33′27	0.68941 AU	inferior conj	13913 May 11 03:07	29° 8 14'19	2°23'48
morning rise	13912 May 31 23:10	8° ∏ 53′00		minimum elong	13913 May 11 01:01	29° 8 21'25	2°22'26
				-			

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13914 May 04 08:51

direct

6°**8**25'33

min. Earth dist.

13915 Apr 07 10:07

29° **Y**47′02 0.66418 AU

		00					
inferior conj	13915 Apr 09 08:52	27° Y °27'42	0°59'10	transit middle	13916 Mar 23 01:27	11° ℃ 16'49	0°00'29
minimum elong	13915 Apr 09 07:25	27° Y 32'00	0°58'14	transit begin	13916 Mar 22 22:23	11° Υ 25'10	
morning rise	13915 Apr 15 07:03	21° Y 47'53		transit end	13916 Mar 23 04:30	11° Υ ′08'28	
direct	13915 Apr 18 07:19	20° ℃ 57'21		asc. node	13916 Mar 23 01:56	11° Υ 15'29	
morning max el	13915 Apr 24 17:28	24° Y 21′06	18°19'11	morning rise	13916 Mar 29 10:49	5°Υ50'36	
	13915 Apr 29 12:01	0°8		direct	13916 Apr 01 01:54	5° Y 14'36	
desc. node	13915 May 09 03:22	14° 8 29'08		morning max el	13916 Apr 07 10:02	8° Ƴ 31'24	17°54'04
morning set	13915 May 14 13:47	23° 8 07'19			13916 Apr 22 03:49	0° 8	
	13915 May 18 21:40	Π °0		morning set	13916 Apr 24 21:25	4° 8 32'25	
				desc. node	13916 Apr 25 00:00	4° 8 43'09	
superior conj	13915 May 30 03:01	17° Ⅱ 38'48					
minimum elong	13915 May 29 19:40	17° Ⅱ 10'06	2°03'15	superior conj	13916 May 08 18:37	27° 8 10'48	-1°34'05
max. Earth dist.	13915 May 31 03:52	19° Ⅱ 15'51	1.45872 AU	minimum elong	13916 May 08 09:47	26° 8 35'36	1°33'57
	13915 Jun 07 01:06	0 \circ ∞			13916 May 10 13:14	Π \circ 0	
evening rise	13915 Jun 15 02:20	12° © 34'19		max. Earth dist.	13916 May 13 00:06	3° Ⅱ 52′09	1.45454 AU
greatest brilliancy	13915 Jun 25 08:54	28° © 32'53	-0.8m	evening rise	13916 May 24 17:34	22° Ⅱ 03'14	
	13915 Jun 26 07:46	0 $^{\circ}$ Ω			13916 May 29 22:34	0°€	
asc. node	13915 Jul 03 02:26	9° Ω 47'08		greatest brilliancy	13916 Jun 08 07:19	13° © 58'57	-0.6m
evening max el	13915 Jul 07 20:20	15° Ω 24′00	18°59'19	asc. node	13916 Jun 18 23:24	28° © 03'26	
retrograde	13915 Jul 14 14:59	19° Ω 07'49		evening max el	13916 Jun 20 01:55	29° © 12'39	19°51'13
evening set	13915 Jul 18 01:29	17° Ω 59'26			13916 Jun 20 21:32	$0^{\circ}\Omega$	
inferior conj	13915 Jul 23 13:30	12° Ω 14′07	2°56'51	retrograde	13916 Jun 27 13:27	3° Ω 27′05	
minimum elong	13915 Jul 23 15:05	12° Ω 09′03	2°55'46	evening set	13916 Jul 01 09:33	2° Ω 01'45	
min. Earth dist.	13915 Jul 25 04:49	10° Ω 08'55	0.66496 AU		13916 Jul 03 13:48	30° ₹ ∽	
morning rise	13915 Jul 29 03:58	5° Ω 49'34		inferior conj	13916 Jul 06 17:06	26°903'08	3°09'55
direct	13915 Aug 04 09:04	3° Ω 10′22		minimum elong	13916 Jul 06 17:41	26° © 01'08	3°08'54
desc. node	13915 Aug 05 02:16	3° Ω 12'16		min. Earth dist.	13916 Jul 07 18:06	24° © 39'01	0.67784 AU
morning max el	13915 Aug 17 05:27	10° Ω 49′08	26°17'43	morning rise	13916 Jul 12 01:27	19° © 39'44	
	13915 Sep 01 11:32	0° ™		direct	13916 Jul 17 19:54	17° © 07'45	
	13915 Sep 19 21:53	0∘ ত		desc. node	13916 Jul 21 23:39	18° © 12'17	
morning set	13915 Sep 22 03:57	4° £ 08'52		morning max el	13916 Jul 29 16:11	24°©13'41	24°57'26
max. Earth dist.	13915 Sep 26 00:36	11° ≏ 31'14	1.34826 AU		13916 Aug 03 20:22	$0^{\circ}\Omega$	
asc. node	13915 Sep 29 04:08	17° ≏ 46'13			13916 Aug 24 21:25	0° m)	
				morning set	13916 Sep 03 12:05	16° Mp 12'38	
superior conj	13915 Oct 01 06:50	22° ≏ 04'22	0°19'44	max. Earth dist.	13916 Sep 07 01:45	22° m 39'27	1.36943 AU
minimum elong	13915 Oct 01 05:45	21° ≏ 58'48	0°19'49		13916 Sep 10 23:36	0० ত	
	13915 Oct 05 02:19	0° M					
evening rise	13915 Oct 08 20:08	7° ™ 50′30		superior conj	13916 Sep 13 18:01	5° ₽ 21'59	-0°11'51
	13915 Oct 20 16:09	0°⊀		minimum elong	13916 Sep 13 18:46	5° ≙ 25'43	0°11'44
evening max el	13915 Oct 27 17:30	9° ₰ 00'10	20°48'09	behind sun begin	13916 Sep 13 14:14	5° ഫ 03'29	
desc. node	13915 Oct 31 22:23	12° ∡ ²25′20		behind sun end	13916 Sep 13 23:18	5° ≙ 48'00	
retrograde	13915 Nov 08 04:01	14° ∡ °41′18		asc. node	13916 Sep 15 00:43	7° ≙ 53'28	
evening set	13915 Nov 10 13:44	14° ∡ ²27'19		evening rise	13916 Sep 22 00:50	21° ≙ 59'55	
inferior conj	13915 Nov 19 12:20	10° ∡ ³33′26	-5°09'17		13916 Sep 26 01:35	0° M ₊	
minimum elong	13915 Nov 19 02:53	10° ∡ ¹46'56	5°06'16	evening max el	13916 Oct 09 02:48	20°M05'51	19°34'46
min. Earth dist.	13915 Nov 20 11:18	10° ₹ 00'35	0.54565 AU	desc. node	13916 Oct 17 19:47	24°M56'12	
morning rise	13915 Nov 27 16:10	6° ∡ ³38'55		retrograde	13916 Oct 18 21:57	24°M59'42	
direct	13915 Dec 01 22:50	5° ₹ 59'43		evening set	13916 Oct 20 19:18	24°M49'34	
morning max el	13915 Dec 15 02:40	12° ∡ *22'35	23°13'27	inferior conj	13916 Oct 29 12:51	20° M 44'50	-3°36'10
asc. node	13915 Dec 26 04:55	26° ₹ 38'04		minimum elong	13916 Oct 29 03:53	20° M 59′05	3°32'19
	13915 Dec 28 05:23	5°0		min. Earth dist.	13916 Oct 31 20:27	19° M ₊16'43	0.55397 AU
morning set	13916 Jan 07 06:49	19° る 39'11		morning rise	13916 Nov 06 10:32	16°M22'55	
	13916 Jan 12 01:48	0°≈		direct	13916 Nov 11 14:18	15°M23'34	
				morning max el	13916 Nov 25 12:23	22°M21'13	25°01'40
superior conj	13916 Jan 14 04:36	4° ≈ 34'36	1°32'23		13916 Dec 02 06:29	0° ∡	
minimum elong	13916 Jan 14 06:04	4° ≈ 42'29	1°33'12	asc. node	13916 Dec 12 01:58	15° ∡ '09'59	
max. Earth dist.	13916 Jan 17 06:59	11° ≈ 10′22	1.33299 AU		13916 Dec 19 17:12	0°ರ	
evening rise	13916 Jan 22 00:46	20° ≈ 51′10		morning set	13916 Dec 21 18:42	4° る 22'28	
	13916 Jan 26 19:30	0° ∀					
desc. node	13916 Jan 27 21:38	1° ¥ 59'37		superior conj	13916 Dec 28 13:11	19° る 13'51	1°37'41
	13916 Feb 14 16:10	0° Y		minimum elong	13916 Dec 28 13:35	19° ප 16'00	1°38'42
evening max el	13916 Feb 25 10:50	12° Y ′32'46	27°19'29	max. Earth dist.	13916 Dec 30 08:34	23° る 11'43	1.32080 AU
retrograde	13916 Mar 10 00:38	20° Y ′00′50			13917 Jan 02 12:28	0° ≈	
evening set	13916 Mar 16 17:56	17° Ƴ 30′28		evening rise	13917 Jan 04 19:47	4° ≈ 48'39	
min. Earth dist.	13916 Mar 20 14:38	13° Y 56'44	0.64767 AU	desc. node	13917 Jan 13 18:21	21° ≈ 57'44	
inferior conj	13916 Mar 23 01:26	11° Y 16'51	-0°00'24		13917 Jan 18 11:32	0°)	
minimum elong	13916 Mar 23 01:27	11° Y 16'49	0°00'29	evening max el	13917 Feb 06 22:04	25°) 35'39	27°34'02

	12017 F-k 12 07-25	0° Υ			12010 I 12 00.42	00 W	
	13917 Feb 12 07:35				13918 Jan 13 00:43	0° \	27015150
retrograde	13917 Feb 20 18:38	3° Y 00′57		evening max el	13918 Jan 20 04:54	7° ¥ 58'00	27°15'59
evening set	13917 Feb 27 15:58	0° Y 39'30		retrograde	13918 Feb 03 04:20	15° ¥ 15'07	
	13917 Feb 28 13:55	30° ₹ ₩		evening set	13918 Feb 09 23:52	13° ¥ 10′56	
min. Earth dist.	13917 Mar 03 10:06	27°) ₹33'39	0.62806 AU	min. Earth dist.	13918 Feb 13 19:27	10° ∺ 25′18	
inferior conj	13917 Mar 06 07:22	24°) 45′03		inferior conj	13918 Feb 16 23:12	7°) 43′01	
minimum elong	13917 Mar 06 09:45	24°) (39′13	1°10'22	minimum elong	13918 Feb 17 04:42	7° ∺ 31'11	2°29'51
asc. node	13917 Mar 09 23:24	21° ∺ 27′50		morning rise	13918 Feb 24 12:44	2° ¥ 51'49	
morning rise	13917 Mar 13 06:12	19° ∺ 34'59		asc. node	13918 Feb 24 20:52	2°) 46′36	
direct	13917 Mar 15 13:37	19° ∺ 10'01		direct	13918 Feb 26 14:45	2°) 34′12	
morning max el	13917 Mar 22 03:48	22° ∺ 31'15	17°46'19	morning max el	13918 Mar 05 19:24	6° ∺ 10'29	17°56'53
	13917 Mar 28 00:38	0 ° $\mathbf{\gamma}$		morning set	13918 Mar 21 09:15	0° Ƴ 36'19	
morning set	13917 Apr 07 05:57	17° Ƴ 08'15			13918 Mar 21 01:19	0° Y	
desc. node	13917 Apr 11 20:35	25° Y 08′29		desc. node	13918 Mar 29 17:05	15° Ƴ 40'39	
	13917 Apr 14 16:41	$_{0\circ}$ 8					
				superior conj	13918 Mar 31 19:03	19° Ƴ 20'14	-0°16'32
superior conj	13917 Apr 19 06:49	7° 8 42'13	-0°55'59	minimum elong	13918 Mar 31 17:36	19° Ƴ 13'55	0°16'33
minimum elong	13917 Apr 19 01:17	7° 8 19'18	0°55'45		13918 Apr 07 01:11	9° 8	
max. Earth dist.	13917 Apr 25 17:38	18° 8 12'26	1.44338 AU	max. Earth dist.	13918 Apr 08 06:57	2° 8 03'19	1.42642 AU
	13917 May 03 05:39	Π $^{\circ}0$		evening rise	13918 Apr 14 04:33	11° 8 35'16	
evening rise	13917 May 04 05:13	1° Ⅱ 30'55			13918 Apr 26 06:23	$\Pi^{\circ}0$	
	13917 May 23 12:40	0ංම		evening max el	13918 May 16 19:59	26° Ⅲ 52′11	22°13'08
evening max el	13917 Jun 03 01:33	13°501'54	20°57'05		13918 May 20 08:53	0ංම	
asc. node	13917 Jun 05 20:27	15° © 31'46		asc. node	13918 May 23 17:35	1° 9 57'24	
retrograde	13917 Jun 11 12:26	17° © 56'12		retrograde	13918 May 26 10:09	2° © 30'15	
evening set	13917 Jun 15 18:48	16°9514'08		evening set	13918 May 31 03:32	0° © 32'23	
inferior conj	13917 Jun 21 00:41	10° © 03'52	3°10'45	C	13918 May 31 17:59	30°RⅡ	
minimum elong	13917 Jun 21 00:17	10° © 05'17	3°09'41	inferior conj	13918 Jun 05 10:10	24° Ⅱ 12'26	3°00'40
min. Earth dist.	13917 Jun 21 12:02	9° 5 24'32	0.68605 AU	minimum elong	13918 Jun 05 08:54	24° Ⅱ 16'54	2°59'27
morning rise	13917 Jun 26 05:31	3°544'39		min. Earth dist.	13918 Jun 05 08:26	24° Ⅱ 18'31	0.68951 AU
direct	13917 Jul 01 11:51	1°526'23		morning rise	13918 Jun 10 14:04	17° Ⅱ 59'29	
desc. node	13917 Jul 08 20:56	4°9648'05		direct	13918 Jun 15 07:47	15° Ⅱ 59'19	
morning max el	13917 Jul 12 02:46	7°5946'29	23°28'33	morning max el	13918 Jun 24 15:35	21° II 27'02	22°00'21
	13917 Jul 29 11:41	0°Ω		desc. node	13918 Jun 25 18:05	22° I I35'31	
morning set	13917 Aug 15 23:17	27° Ω 20'29		dese. node	13918 Jul 01 23:27	0°95	
morning sec	13917 Aug 17 12:59	0° m)			13918 Jul 22 17:32	o°Ω	
max. Earth dist.	13917 Aug 19 23:33	4° Mp 12'10	1.39286 AU	morning set	13918 Jul 27 09:55	7° Ω 23'45	
max. Earth dist.	13)17 Hug 17 23.33	1 11/12 10	1.57200710	max. Earth dist.	13918 Aug 02 00:33	16°Ω33'25	1.41587 AU
superior conj	13917 Aug 27 15:24	18° m) 00'21	-0°46'36		207101118 02 00100		
minimum elong	13917 Aug 27 18:48	18° mp 16'13		superior conj	13918 Aug 09 18:39	29° Ω 50′01	-1°21'34
asc. node	13917 Sep 01 21:16	27° m 57'37		minimum elong	13918 Aug 10 00:50	0° mp 17'15	
	13917 Sep 02 22:36	0∘ ⊽			13918 Aug 09 20:55	0° m)	
evening rise	13917 Sep 05 22:29	5° ≏ 48'36		asc. node	13918 Aug 19 17:50	17° m) 55'13	
evening rise	13917 Sep 03 22:29 13917 Sep 20 05:34	0° ™		evening rise	13918 Aug 20 09:30	19° m) 07'43	
evening max el	13917 Sep 22 01:20	2°ML00'14	18°43'19	evening rise	13918 Aug 26 08:37	0∘ ⊽	
retrograde	13917 Sep 30 08:27	6°ML10'51	10 .5 17	evening max el	13918 Sep 05 09:17	14° £ 36'05	18°13'03
evening set	13917 Oct 02 06:16	5°M58'22		retrograde	13918 Sep 12 14:04	18° £ 15'46	10 15 05
desc. node	13917 Oct 04 17:16	5°ML08'28		evening set	13918 Sep 14 18:08	17° £ 56'25	
inferior conj	13917 Oct 10 08:31	1°ML35'08	-1°47'32	desc. node	13918 Sep 21 14:47	13° £ 36'04	
minimum elong	13917 Oct 10 04:05	1°ML43'17		inferior conj	13918 Sep 22 01:59	13° ≙ 12'03	-0°08'45
mmmum viong	13917 Oct 12 11:56	30°R ≏	1 10 10	minimum elong	13918 Sep 22 01:40	13° £ 12'43	0°08'30
min. Earth dist.	13917 Oct 12 11:05	29° ₽ 18'21	0.57014 AU	transit middle	13918 Sep 22 01:40	13° ⊆ 12'43	0°08'30
morning rise	13917 Oct 17 17:03	26° ₽ 36'08	0.57014710	transit begin	13918 Sep 21 22:45	13° ⊆ 12'43	0 00 30
direct	13917 Oct 17 22:32 13917 Oct 23 20:10	25° ⊆ 10'56		transit end	13918 Sep 22 04:35	13° ⊆ 06'25	
uncet	13917 Nov 04 03:29	0°M		min. Earth dist.	13918 Sep 25 09:05	10° ⊆ 22'55	0.59129 AU
morning max el	13917 Nov 04 03:29 13917 Nov 07 02:06	2°M36'06	26°34'11	morning rise	13918 Sep 29 05:48	7° ⊆ 38'23	0.39129 AU
morning max ci	13917 Nov 07 02:00 13917 Nov 26 15:46	2 11 6 30 00	20 3411	direct	13918 Oct 05 15:51	5° £ 45'53	
asc. node	13917 Nov 28 13.46 13917 Nov 28 22:55	4° ∡ 14'54		morning max el	13918 Oct 03 13:31 13918 Oct 19 23:15	13° ⊆ 30'34	27025122
morning set	13917 Nov 28 22:33 13917 Dec 06 05:03	18° ₹ 57'10		morning max ci	13918 Oct 19 23:15 13918 Nov 02 03:05	0°M	21 33 33
morning set	13917 Dec 00 05:05 13917 Dec 11 05:49	0°る		asc. node	13918 Nov 15 19:45	23°M44'09	
	1371/ DEC 11 03.49	υ Ο		asc. Hour	13918 Nov 15 19:45 13918 Nov 18 22:09	23°111644°09 0° √ 1	
gunorios cos:	12017 Dec. 12, 00:12	3° る 56'31	1026154	morning act		3° ∡ 18'54	
superior conj	13917 Dec 13 00:13 13917 Dec 12 23:32	3°る551	1°37'56	morning set	13918 Nov 20 12:09	J X:10.34	
minimum elong		5°る5247		superior cori	12019 Nov 27 11.47	180.72711	1030114
max. Earth dist.	13917 Dec 13 15:06		1.31362 AU	superior conj	13918 Nov 27 11:47	18° х 37'16	
evening rise	13917 Dec 19 21:58	19° る 02'43		minimum elong	13918 Nov 27 10:13	18° × 28'30	
daga rada	13917 Dec 25 07:38	0°≈ 11°0021'20		max. Earth dist.	13918 Nov 26 23:21	17° ∡ 727'48	1.31167 AU
desc. node	13917 Dec 31 15:08	11° ≈ 31′20			13918 Dec 02 14:45	0°₹	

	12010 D 04 05 06	20=277140			12010 N 24 10 22	00=	
evening rise	13918 Dec 04 05:06	3° る 27'48			13919 Nov 24 10:33	0°る	
	13918 Dec 18 04:21	0° ≈		desc. node	13919 Dec 05 09:06	18° る 44'27	
desc. node	13918 Dec 18 12:03	0° ≈ 31'05			13919 Dec 14 15:41	0° ≈	
evening max el	13919 Jan 02 04:49	19° ≈ 30'19	26°23'10	evening max el	13919 Dec 14 20:19	0° ≈ 11'07	25°00'03
retrograde	13919 Jan 16 03:52	26° ≈ 36′24		retrograde	13919 Dec 28 15:17	7°≈05'25	
evening set	13919 Jan 22 13:50	24° ≈ 56'58		evening set	13920 Jan 03 05:51	5° ≈ 55'08	
min. Earth dist.	13919 Jan 26 18:25	22° ≈ 20'11	0.58478 AU	min. Earth dist.	13920 Jan 08 08:14	3° ≈ 11'30	
inferior conj	13919 Jan 29 21:20	20° ≈ 00'54	-3°57'08	inferior conj	13920 Jan 10 22:59	1° ≈ 30'11	-5°12'05
minimum elong	13919 Jan 30 05:40	19° ≈ 45′21	3°53'42	minimum elong	13920 Jan 11 07:21	1° ≈ 16'38	5°09'22
morning rise	13919 Feb 07 00:31	15° ≈ 30'54			13920 Jan 13 08:19	30°Ŗる	
direct	13919 Feb 09 01:10	15° ≈ 16′53		morning rise	13920 Jan 19 11:09	27° る 22'03	
asc. node	13919 Feb 11 18:18	15° ≈ 43'18		direct	13920 Jan 21 17:00	27° る 07'49	
morning max el	13919 Feb 17 05:02	19° ≈ 18'16	18°27'18		13920 Jan 29 05:09	0° ≈	
	13919 Feb 25 01:37	0°) €		asc. node	13920 Jan 29 15:40	0° ≈ 20'52	
morning set	13919 Mar 05 01:47	14°) (40′04		morning max el	13920 Jan 31 04:41	1° ≈ 43'31	19°19'36
	13919 Mar 13 03:29	$0^{\circ}\mathbf{\Upsilon}$		morning set	13920 Feb 17 03:20	29° ≈ 07'01	
					13920 Feb 17 13:58	0° ₩	
superior conj	13919 Mar 14 04:45	1° Y '56'55	0°19'05				
minimum elong	13919 Mar 14 06:05	2° Y '03'04	0°18'57	superior conj	13920 Feb 25 07:28	15° ¥ 20'11	0°48'28
desc. node	13919 Mar 16 13:33	6° Ƴ 15'56		minimum elong	13920 Feb 25 10:02	15°) 32'39	0°48'26
max. Earth dist.	13919 Mar 21 16:06	15° Y 16′07	1.40552 AU	desc. node	13920 Mar 02 10:03	26° ¥ 51'05	
evening rise	13919 Mar 25 23:49	22° Y '33'43	10002110	max. Earth dist.	13920 Mar 02 10:03	27° ¥ 49'22	1.38291 AU
evening rise	13919 Mar 30 13:54	0°8		max. Lartii dist.	13920 Mar 04 03:50	0° Υ	1.502)1710
	13919 Apr 20 05:59	0°II		evening rise	13920 Mar 06 16:12	4° Υ 26'42	
evening max el	13919 Apr 29 11:01	10° Ⅱ 44'07	23°34'00	evening rise	13920 Mar 22 15:16	0°8	
Č	•	10 П 44 07 17° П 03'32	23 34 00	avanina may al		24° 8 37'49	24952100
retrograde	13919 May 10 05:07	17 Д 03 32 17° Д 02'48		evening max el	13920 Apr 11 00:39	24 O 3749 0° Ⅱ	24 33 09
asc. node	13919 May 10 14:49			. 1	13920 Apr 17 18:38		
evening set	13919 May 15 10:06	14° Ⅱ 51'35	0.00000 444	retrograde	13920 Apr 22 20:23	1° Ⅱ 31'02	
min. Earth dist.	13919 May 20 05:05	9° Ⅱ 14'21	0.68827 AU	asc. node	13920 Apr 26 12:08	0° Ⅲ 33'15	
inferior conj	13919 May 20 19:34	8° Ⅱ 24'35	2°40'14		13920 Apr 27 09:53	30° ₹8	
minimum elong	13919 May 20 17:40		2°38'53	evening set	13920 Apr 28 13:02	29° 8 07'45	
morning rise	13919 May 26 01:11	2° Ⅱ 19'18		min. Earth dist.	13920 May 02 23:55	24° 8 06'53	0.68241 AU
direct	13919 May 30 06:21	0°Ⅱ39'32		inferior conj	13920 May 04 03:03	22° 8 37'14	2°09'31
morning max el	13919 Jun 07 09:50		20°40'09	minimum elong	13920 May 04 00:54	22° 8 44'22	2°08'08
desc. node	13919 Jun 12 15:07	11° Ⅱ 14'57		morning rise	13920 May 09 13:02	16° 8 40'50	
	13919 Jun 26 01:05	0 \circ \odot		direct	13920 May 13 06:12	15° 8 21'39	
morning set	13919 Jul 06 21:33	16° © 27'30		morning max el	13920 May 20 11:37	19° 8 20'50	19°32'55
	13919 Jul 15 11:12	$0^{\circ}\Omega$			13920 May 29 02:40	Π \circ 0	
max. Earth dist.	13919 Jul 15 08:26	29° 5 48'50	1.43571 AU	desc. node	13920 May 29 12:02	0°Ⅱ32'53	
				greatest brilliancy	13920 Jun 02 03:00	5° Ⅱ 46′02	-0.6m
superior conj	13919 Jul 21 23:32	10° Ω 40'58	-1°51'53	morning set	13920 Jun 14 23:23	25° Ⅲ 10′32	
minimum elong	13919 Jul 22 06:49	11° Ω 11′21	1°52'07		13920 Jun 18 02:32	0 \circ \odot	
	13919 Aug 02 05:23	0° m y		max. Earth dist.	13920 Jun 26 22:47	13° © 47'57	1.45014 AU
evening rise	13919 Aug 03 05:17	1° m 45'01					
asc. node	13919 Aug 06 14:26	7° m 41'29		superior conj	13920 Jul 01 04:49	20°533'02	-2°10'44
evening max el	13919 Aug 19 22:18	27° mp 41'56	18°02'34	minimum elong	13920 Jul 01 08:45	20°548'44	2°11'39
C	13919 Aug 22 19:50	0∘ <u>⊽</u>		Č	13920 Jul 07 01:11	$0^{\circ}\Omega$	
retrograde	13919 Aug 26 11:51	1° ഫ 05'20		evening rise	13920 Jul 15 04:47	13° Ω 29′03	
evening set	13919 Aug 28 23:52	0° ≏ 35'26		asc. node	13920 Jul 23 11:07	27° Ω 11'53	
8	13919 Aug 30 05:24	30°R, M)			13920 Jul 25 05:16	0° m)	
inferior conj	13919 Sep 04 14:54	25° m/31'09	1°09'26	evening max el	13920 Aug 02 12:44	11° m)08'49	18°10'43
minimum elong	13919 Sep 04 16:48	25° m/26'25	1°08'34	retrograde	13920 Aug 08 21:18	14° m) 29'55	10 10 15
min. Earth dist.	13919 Sep 07 16:06	22° m/30'48	0.61416 AU	evening set	13920 Aug 11 17:41	13° m) 46'39	
desc. node	13919 Sep 07 10:00 13919 Sep 08 12:20	21° mp 44'08	0.01410710	inferior conj	13920 Aug 17 17:41 13920 Aug 17 19:20	8° m) 24'54	2°05'48
morning rise	13919 Sep 08 12:20 13919 Sep 11 07:03	19° mp 31'18		minimum elong	13920 Aug 17 19:20 13920 Aug 17 21:48	8° m) 18'00	2°04'37
direct	13919 Sep 17 07:03 13919 Sep 17 22:46	17° M) 15'10		min. Earth dist.	13920 Aug 17 21:48 13920 Aug 20 08:58	5° m/33'42	0.63616 AU
morning max el	13919 Oct 02 03:34	-	27°58'36	morning rise	13920 Aug 20 08:38 13920 Aug 24 00:08	2° m/08'51	0.03010 AC
morning max ci		-	27 38 30	-	_		
	13919 Oct 06 13:28	ი∘ m 0∘ ত		desc. node	13920 Aug 25 09:52	1° TD 10'35	
1	13919 Oct 26 14:23	0°M 12°M 20/20		1:4	13920 Aug 27 23:45	30°R€ (120	
asc. node	13919 Nov 02 16:29	13°M30'28		direct	13920 Aug 30 15:24	29° Ω 36'20	
morning set	13919 Nov 04 14:02	17°M22'54	1 21 422 433		13920 Sep 02 09:49	0° m)	0.70 / 2/2 2
max. Earth dist.	13919 Nov 10 05:40	29°M27'54	1.31499 AU	morning max el	13920 Sep 13 12:46	7° m) 37'15	27°43'38
	13919 Nov 10 11:31	0° ∡ ¹			13920 Sep 30 18:34	0∘ 亚	
	1201037	20 = 1	10151:0		13920 Oct 17 19:42	0°M	
superior conj	13919 Nov 11 22:04	3° ⋌ 10'39	1°17'48	morning set	13920 Oct 18 08:24	1°ML03'17	
minimum elong	13919 Nov 11 19:55	2° х 58'44	1°18'25	asc. node	13920 Oct 19 13:09	3°M28'12	
evening rise	13919 Nov 18 15:09	17° ∡ 58'43		max. Earth dist.	13920 Oct 23 06:05	11°ML10'03	1.32369 AU

superior conj	13920 Oct 26 05:05	17° M 31'03	0°59'38	superior conj	13921 Oct 10 06:37	1°M32'44	
minimum elong	13920 Oct 26 02:49	17° ™ 18'45	0°59'57	minimum elong	13921 Oct 10 04:52	1°M23'35	0°35'58
	13920 Oct 31 22:26	0° ∡ ¹		evening rise	13921 Oct 17 12:33	16° M 57'17	
evening rise	13920 Nov 02 02:16	2° ∡ ′30′09			13921 Oct 23 23:15	0° ∡ ¹	
	13920 Nov 16 21:27	0°₹		evening max el	13921 Nov 06 19:22	20° ∡ ¹20'13	21°39'39
desc. node	13920 Nov 21 06:16	5° そ 53'29		desc. node	13921 Nov 08 03:33	21° ∡ ³35′14	
evening max el	13920 Nov 25 06:11	10°る15'43	23°19'34	retrograde	13921 Nov 19 02:42	26° ∡ ¹26′21	
retrograde	13920 Dec 08 14:01	16° る 53'13		evening set	13921 Nov 22 02:26	26° ₮ 06'07	
evening set	13920 Dec 12 22:38	16° る 11'55		inferior conj	13921 Nov 30 21:31	22° ∡ 12'56	-5°43'26
min. Earth dist.	13920 Dec 19 16:10	13° る 01'59	0.55120 AU	minimum elong	13921 Nov 30 15:17	22° х 21'41	5°41'37
inferior conj	13920 Dec 21 04:38	12° る 09'04	-5°55'06	min. Earth dist.	13921 Nov 30 22:18	22° ∡ 11′50	0.54493 AU
minimum elong	13920 Dec 21 07:20	12° る 05'09	5°53'54	morning rise	13921 Dec 09 04:57	18° ∡ ¹24'52	
morning rise	13920 Dec 29 17:40	8° る 17'54		direct	13921 Dec 12 22:09	17° × 754'45	
direct	13921 Jan 01 13:30	7° る 58'45		morning max el	13921 Dec 25 10:43	23° ∡ 55'42	22°11'30
morning max el	13921 Jan 12 14:47	13° る 16'05	20°35'01	C	13921 Dec 30 19:24	0°ರ	
asc. node	13921 Jan 15 12:59	16° る 25'24		asc. node	13922 Jan 02 10:12	3° る 39'37	
	13921 Jan 24 10:15	0° ≈		morning set	13922 Jan 15 21:13	28° ප 31'45	
morning set	13921 Jan 31 10:37	13° ≈ 46'31			13922 Jan 16 13:53	0° ≈	
morning sec	13,21 0411 31 10.57	15			13722 0411 10 13.55	0.0	
superior conj	13921 Feb 07 22:41	29° ≈ 16'29	1°10'54	superior conj	13922 Jan 22 22:50	13° ≈ 35'43	1°26'26
minimum elong	13921 Feb 08 01:20	29° ≈ 29'55	1°11'11	minimum elong	13922 Jan 23 00:51	13° ≈ 46'20	1°27'05
	13921 Feb 08 07:16	0° ∀		max. Earth dist.	13922 Jan 26 20:10	21° ≈ 40'51	1.34209 AU
max. Earth dist.	13921 Feb 13 06:38	9° ¥ 50'37	1.36107 AU	evening rise	13922 Jan 31 05:07	0° ¥ 21'52	1.5 .20 , 110
evening rise	13921 Feb 17 03:06	17° ¥ 05'37	1.50107 710	evening rise	13922 Jan 31 00:35	0° X	
desc. node	13921 Feb 17 06:35	17° ∺ 21'36		desc. node	13922 Feb 04 03:11	7°) 43′38	
desc. node	13921 Feb 24 11:39	0° Υ		desc. node	13922 Feb 17 13:25	0°Υ	
	13921 Feb 24 11.39 13921 Mar 16 23:58	0° 8		avanina may al	13922 Feb 17 13.23 13922 Mar 07 03:48	22° Υ 09'48	26°58'16
		8° 8 28'31	26902142	evening max el		22 1 09 48 29° Y 36'59	20 38 10
evening max el	13921 Mar 24 14:06	_	26°03'43	retrograde	13922 Mar 20 11:57	29° Y 36'39 27° Y 04'49	
retrograde	13921 Apr 06 06:58	15° 8 44'52		evening set	13922 Mar 27 00:51		0.65760.444
evening set	13921 Apr 12 10:35	13° 8 14'22		min. Earth dist.	13922 Mar 30 23:55	23° Y 12'45	0.65760 AU
asc. node	13921 Apr 13 09:34	12° 8 23'14		asc. node	13922 Mar 31 07:02	22° Y ′52'40	
min. Earth dist.	13921 Apr 16 14:53	8° 8 48'49	0.67205 AU	inferior conj	13922 Apr 02 03:56	20° ℃ 43'10	0°35'20
inferior conj	13921 Apr 18 06:36	6° 8 45'10	1°28'06	minimum elong	13922 Apr 02 03:00	20° Y 45′52	0°34'43
minimum elong	13921 Apr 18 04:42	6° 8 51'05	1°26'55	morning rise	13922 Apr 08 06:35	15° Y ′08'50	
morning rise	13921 Apr 23 23:35	0° 8 58'55		direct	13922 Apr 11 02:40	14° Y °25′03	
	13921 Apr 26 18:40	30° ŖƳ		morning max el	13922 Apr 17 11:09	17° Ƴ 44'43	18°06'17
direct	13921 Apr 27 05:36	29° Y 58'50			13922 Apr 26 16:46	0°B	
	13921 Apr 27 16:36	9° 8		desc. node	13922 May 03 05:32	10° 8 23'48	
morning max el	13921 May 03 20:39	3° 8 31'58	18°41'17	morning set	13922 May 06 04:03	15° 8 09'13	
desc. node	13921 May 16 08:51	20° 8 18'23			13922 May 15 09:49	$\Pi^{\circ}0$	
	13921 May 22 15:11	Π \circ 0					
morning set	13921 May 25 12:40	4° Ⅲ 31'17		superior conj	13922 May 21 01:48	8° Ⅱ 57'02	-1°52'17
max. Earth dist.	13921 Jun 09 17:03	28° Ⅲ 13′02	1.45770 AU	minimum elong	13922 May 20 17:00	8° Ⅲ 22'29	1°52'31
				max. Earth dist.	13922 May 23 12:56	12° Ⅱ 48'38	1.45784 AU
superior conj	13921 Jun 10 16:35	29° Ⅱ 44'59	-2°11'29		13922 Jun 03 14:25	0 \circ \odot	
minimum elong	13921 Jun 10 12:58	29° Ⅲ 30′51	2°12'26	evening rise	13922 Jun 06 04:18	3° 9 59'19	
	13921 Jun 10 20:26	0°9		greatest brilliancy	13922 Jun 18 13:03	22° 9 54'45	-0.7m
evening rise	13921 Jun 26 04:04	24° © 11'39			13922 Jun 23 10:22	$0^{\circ}\Omega$	
	13921 Jun 29 19:16	$0^{\circ}\Omega$		asc. node	13922 Jun 27 04:48	4° Ω 58'46	
greatest brilliancy	13921 Jul 03 02:21	5° Ω 14'49	-0.9m	evening max el	13922 Jun 30 10:15	8° Ω 36′27	19°19'36
asc. node	13921 Jul 10 07:55	16° Ω 20′23		retrograde	13922 Jul 07 11:18	12° Ω 32'00	
evening max el	13921 Jul 17 01:30	24° Ω 49'05	18°36'41	evening set	13922 Jul 11 01:45	11° Ω 16'38	
retrograde	13921 Jul 23 14:12	28° Ω 21'14		inferior conj	13922 Jul 16 11:30	5° Ω 25'44	3°04'00
evening set	13921 Jul 26 19:20	27° Ω 22'33		minimum elong	13922 Jul 16 12:41	5° Ω 21'51	3°02'57
inferior conj	13921 Aug 01 11:20		2°42'56	min. Earth dist.	13922 Jul 17 20:47	3° Ω 36'56	
minimum elong	13921 Aug 01 13:23		2°41'48	mm. zarm alst.	13922 Jul 20 22:21	30°R.55	0.07055110
min. Earth dist.	13921 Aug 03 11:04		0.65549 AU	morning rise	13922 Jul 21 23:03	29° 5 01'05	
morning rise	13921 Aug 03 11:04 13921 Aug 07 06:23	$15^{\circ}\Omega 21'57$	J.JJJ7/11U	direct	13922 Jul 27 23:58	26°\$23'41	
desc. node	13921 Aug 07 00:23 13921 Aug 12 07:22	$13^{\circ} \Omega 49'07$		desc. node	13922 Jul 27 23:38 13922 Jul 30 04:48	26°5941'48	
direct	13921 Aug 12 07.22 13921 Aug 13 16:15	$12^{\circ} \Omega 49^{\circ} 12^{\circ} \Omega 42'14$		desc. Hode	13922 Jul 30 04.48 13922 Aug 05 05:03	20 941 48 0°Ω	
	-		26056117	morning me1	_	3° Ω 50'48	25045100
morning max el	13921 Aug 26 23:56	20° Ω 34'15	20 301/	morning max el	13922 Aug 09 10:51		43 43 00
	13921 Sep 04 03:05	0° m)			13922 Aug 29 10:28	0° M)	
	13921 Sep 23 21:26	0∘ ⊽		morning set	13922 Sep 14 10:23	26° m/43'45	
morning set	13921 Oct 01 16:25	14° £ 13'21	1 22776 433		13922 Sep 16 04:56	0∘ ⊽	1.25(70.41)
max. Earth dist.	13921 Oct 05 21:15	22° £ 29'33	1.33776 AU	max. Earth dist.	13922 Sep 18 02:20		1.35679 AU
asc. node	13921 Oct 06 09:46	23° △ 32'50		asc. node	13922 Sep 23 06:20	13° ≏ 40'01	
	13921 Oct 09 12:55	0° M .					

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						_	
	13924 Aug 13 22:10	0° m)			13925 Jul 19 07:08	0 ° Ω	
				max. Earth dist.	13925 Jul 25 03:59	9° {\2 7'10	1.42486 AU
superior conj	13924 Aug 19 19:55	10° m) 29'24			12025 1 01 1102	21005425	1005100
minimum elong	13924 Aug 20 00:33	10° m 50'32	1°01′21	superior conj	13925 Aug 01 14:02	21° Ω 54'25	
asc. node	13924 Aug 26 23:28	23° Mp 48'30		minimum elong	13925 Aug 01 21:03	22° Ω 24'37	1°35'18
evening rise	13924 Aug 29 15:34	28° m 53'17			13925 Aug 06 05:18	0° m)	
	13924 Aug 30 05:37	0° <u>ი</u>	10027151	evening rise	13925 Aug 12 20:44	11° m 56'10	
evening max el	13924 Sep 14 14:41 13924 Sep 22 09:19	24° ♀ 37'40 28° ♀ 33'46	18°27'51	asc. node	13925 Aug 13 20:03	13°Mp41'45 0° ⊆	
retrograde	13924 Sep 22 09:19 13924 Sep 24 09:23	28° 2 18'51		avanina may al	13925 Aug 23 06:58		18°06'14
evening set desc. node	13924 Sep 24 09:23 13924 Sep 28 19:49	26° £ 13'52		evening max el retrograde	13925 Aug 29 01:13 13925 Sep 04 22:26	7 = 2707 10° ⊆ 58'27	18 00 14
inferior conj	13924 Scp 28 19:49 13924 Oct 02 03:45	23° 2 46'13	-1°03'26	evening set	13925 Sep 07 05:38	10° <u>2</u> 35'10	
minimum elong	13924 Oct 02 03:43	23° ⊆ 51'06	1°02'07	inferior conj	13925 Sep 07 05:58 13925 Sep 14 05:59	5° £ 42'10	0°27'09
min. Earth dist.	13924 Oct 05 09:38	21° ⊆ 13'28	0.57871 AU	minimum elong	13925 Sep 14 05:55 13925 Sep 14 06:51	5° - 4210	0°26'49
morning rise	13924 Oct 09 13:42	18° ₽ 31'36	0.57671710	desc. node	13925 Sep 14 00:31	4° £ 20'30	0 204)
direct	13924 Oct 15 17:08	16° ⊆ 55'02		min. Earth dist.	13925 Sep 17 11:34	2° £ 45'20	0.60092 AU
morning max el	13924 Oct 30 00:32		27°04'54	morning rise	13925 Sep 21 04:51	29° m 55'44	0.000,2110
	13924 Nov 04 02:05	0°M	_,		13925 Sep 21 02:07	30°R.M)	
asc. node	13924 Nov 23 01:12	29°M49'58		direct	13925 Sep 27 17:57	27° m 52'24	
	13924 Nov 23 03:17	0° ∡ 7			13925 Oct 04 19:10	0∘ ಹ	
morning set	13924 Nov 29 05:42	12° ∡ ¹26'19		morning max el	13925 Oct 12 01:11	5° ≙ 44'16	27°50'14
Ü				Č	13925 Oct 30 05:04	0° M .	
superior conj	13924 Dec 06 02:17	27° ∡ ³32'18	1°34'47	asc. node	13925 Nov 09 22:00	19° M 27'13	
minimum elong	13924 Dec 06 01:12	27° ∡ ¹26'15	1°35'47	morning set	13925 Nov 13 10:50	26° M ₊41′08	
max. Earth dist.	13924 Dec 06 05:41	27° ∡ ′51′19	1.31211 AU		13925 Nov 15 00:21	0° ∡ ¹	
	13924 Dec 07 04:43	ರ°0		max. Earth dist.	13925 Nov 19 13:30	9° ∡ ¹56'44	1.31236 AU
evening rise	13924 Dec 12 21:40	12° る 30'35					
	13924 Dec 21 17:06	0° ≈		superior conj	13925 Nov 20 13:31	12° ∡ 10′24	1°25'41
desc. node	13924 Dec 25 17:28	7° ≈ 01'36		minimum elong	13925 Nov 20 11:40	12° ₺ 00'01	1°26'27
	13925 Jan 11 22:09	0° ∀		evening rise	13925 Nov 27 06:14	26° ∡ ′58′16	
evening max el	13925 Jan 12 06:40	0°) 20′21	26°57'41		13925 Nov 28 16:15	0° ප	
retrograde	13925 Jan 26 05:57	7°) € 32'58		desc. node	13925 Dec 12 14:26	25° る 43'18	
evening set	13925 Feb 01 22:45	5° ¥ 38′10			13925 Dec 15 11:33	0° ≈	
min. Earth dist.	13925 Feb 05 20:48	2° ¥ 58′21	0.59712 AU	evening max el	13925 Dec 25 02:43	11° ≈ 28'48	25°50'56
inferior conj	13925 Feb 09 01:31	0° ∺ 23'41		retrograde	13926 Jan 08 00:52	18° ≈ 31′03	
minimum elong	13925 Feb 09 08:22	0° ∺ 09'49	3°05'23	evening set	13926 Jan 14 03:50	17° ≈ 03'29	
	13925 Feb 09 13:15	30°R ≈		min. Earth dist.	13926 Jan 18 15:36	14° ≈ 25′56	0.57602 AU
morning rise	13925 Feb 16 21:11	25° ≈ 41'34		inferior conj	13926 Jan 21 15:04	12° ≈ 20'51	
direct	13925 Feb 18 22:06	25° ≈ 25'52		minimum elong	13926 Jan 21 23:58	12° ≈ 05'15	4°27'58
asc. node	13925 Feb 18 23:24	25°≈25'53	1000504	morning rise	13926 Jan 29 22:57	8°≈00'39	
morning max el	13925 Feb 26 11:23		18°07'24	direct	13926 Feb 01 00:39	7° ≈ 47'10	
	13925 Feb 27 06:25	0°) {		asc. node	13926 Feb 05 20:48	9°≈05'40	10046153
morning set	13925 Mar 14 01:56	23° ¥ 53′21 0° Ƴ		morning max el	13926 Feb 09 17:19	12° ≈ 02'10	18°46'52
	13925 Mar 17 08:31	U- I		morning set	13926 Feb 21 17:06 13926 Feb 25 22:42	0° ∺ 8° ∺ 07'28	
superior conj	13925 Mar 23 21:36	11° Y′ 57'17	0000140	morning set	13920 100 23 22.42	6 / (0/28	
minimum elong	13925 Mar 23 21:32	11° Y 56'59		superior conj	13926 Mar 06 15:05	24° ¥ 54'58	0°32'22
behind sun begin	13925 Mar 23 13:52	11° Υ 22'43	0 00 34	minimum elong	13926 Mar 06 17:07	25°\(\frac{1}{25}\)	
behind sun end	13925 Mar 24 05:12	12° Y 31'10		minimum ciong	13926 Mar 09 08:37	25 γ (0431	J J2 17
desc. node	13925 Mar 23 19:13	11° Υ 46'35		desc. node	13926 Mar 10 15:43	2° Υ ′22'05	
max. Earth dist.	13925 Mar 31 12:34	25° Y ′08'57	1.41789 AU	max. Earth dist.	13926 Mar 13 19:43		1.39589 AU
man. Darm dist.	13925 Apr 03 10:49	0°8	1.11707110	evening rise	13926 Mar 17 18:49	14° Y '51'32	1.57507110
evening rise	13925 Apr 05 14:30	3° 8 29'53		8	13926 Mar 27 03:37	0°B	
S	13925 Apr 23 03:11	0°II			13926 Apr 18 00:04	0°II	
evening max el	13925 May 09 03:22	20° Ⅱ 06'47	22°47'08	evening max el	13926 Apr 21 17:27	3° Ⅱ 59'11	24°08'17
asc. node	13925 May 17 20:03	25° Ⅱ 54'34		retrograde	13926 May 02 23:14	10° Ⅱ 34'58	
retrograde	13925 May 19 05:30	26° Ⅱ 03'23		asc. node	13926 May 04 17:19	10° Ⅲ 21'19	
evening set	13925 May 24 03:49	23° II 59'01		evening set	13926 May 08 09:05	8° Ⅱ 17'51	
inferior conj	13925 May 29 11:25	17° Ⅲ 35′27	2°53'14	min. Earth dist.	13926 May 13 00:24	2° Ⅱ 55'56	0.68627 AU
minimum elong	13925 May 29 09:50	17° Ⅱ 40'57	2°51'58	inferior conj	13926 May 13 20:16	1° Ⅱ 48'35	2°28'30
min. Earth dist.	13925 May 29 04:07	18° Ⅱ 00'47	0.68960 AU	minimum elong	13926 May 13 18:12	1° Ⅱ 55'35	2°27'08
morning rise	13925 Jun 03 15:45	11° Ⅱ 25'39			13926 May 15 04:46	30° ₹ 8	
direct	13925 Jun 08 03:58	9° Ⅱ 34'18		morning rise	13926 May 19 03:24	25° 8 46'44	
morning max el	13925 Jun 16 23:19		21°24'51	direct	13926 May 23 03:17	24° 8 15'54	
desc. node	13925 Jun 19 20:26	17° Ⅱ 46'40		morning max el	13926 May 30 20:42	28° 8 36'33	20°09'44
	13925 Jun 29 06:39	0ಂತಾ			13926 Jun 01 04:55	Π °0	
morning set	13925 Jul 18 11:14	28° © 41'24		desc. node	13926 Jun 06 17:26	6° Ⅱ 44'08	

	12026 Jun 22 19:25	0° ©			12027 Jun 15 15:42	0°©	
morning set	13926 Jun 22 18:35 13926 Jun 27 16:28	0°930'22		max. Earth dist.	13927 Jun 15 15:43 13927 Jun 20 06:38	0°99 7°9913′25	1.45426 AU
max. Earth dist.	13926 Jul 07 14:18	23° © 01'15	1.44259 AU	max. Earm dist.	13927 Juli 20 00.38	1 3913 23	1.43420 AU
max. Earm dist.	13926 Jul 11 22:24	0°Ω	1.44239 AU	superior conj	13927 Jun 23 05:28	11° © 52'06	_2°13'32
	13)20 Jul 11 22.24	0 66		minimum elong	13927 Jun 23 06:26	11°955'54	
superior conj	13926 Jul 13 08:51	2° Ω 20'24	-2°01'43	minimum ciong	13927 Jul 04 13:03	0°Ω	2 1433
minimum elong	13926 Jul 13 15:22	2°Ω47'05		evening rise	13927 Jul 07 22:06	5° Ω 30'48	
evening rise	13926 Jul 26 08:36	24°Ω12'43	2 02 13	asc. node	13927 Jul 18 13:26	22°Ω44'06	
e vennig 1150	13926 Jul 29 17:19	0° m)		use. Houe	13927 Jul 23 13:23	0° m)	
asc. node	13926 Jul 31 16:42	3°m/22'14		evening max el	13927 Jul 27 05:32	4° m) 17'41	18°19'37
evening max el	13926 Aug 12 15:21	20° m) 43'42	18°03'50	retrograde	13927 Aug 02 14:36	7° mp 41'27	
retrograde	13926 Aug 19 01:39	24° m/04'20		evening set	13927 Aug 05 14:46	6° m) 51'43	
evening set	13926 Aug 21 17:08	23° m/29'08		inferior conj	13927 Aug 11 11:53	1° m/23'20	2°23'39
inferior conj	13926 Aug 28 02:04	18° m) 17'28	1°35'50	minimum elong	13927 Aug 11 14:16	1° m/ 16'23	2°22'29
minimum elong	13926 Aug 28 04:22	18° Mp 11'26	1°34'47		13927 Aug 12 16:24	30°R Ω	
min. Earth dist.	13926 Aug 30 22:59	15° m) 18'24	0.62378 AU	min. Earth dist.	13927 Aug 13 19:46	28° Ω 41'24	0.64490 AU
desc. node	13926 Sep 02 14:53	12° m 52'23		morning rise	13927 Aug 17 12:20	25° Ω 03′29	
morning rise	13926 Sep 03 13:16	12°Mp09'34		desc. node	13927 Aug 20 12:25	23° Ω 11′53	
direct	13926 Sep 10 05:39	9° m 44'59		direct	13927 Aug 24 01:59	22° Ω 26'41	
morning max el	13926 Sep 24 07:50	17° m 45'28	27°56'29		13927 Sep 06 08:04	0° m)	
	13926 Oct 04 13:47	0∘ ⊽		morning max el	13927 Sep 06 17:59	0° Mp 24′44	27°26'50
	13926 Oct 23 00:25	0° M			13927 Sep 28 14:48	0∘ 亚	
asc. node	13926 Oct 27 18:44	9° ™ 19'05		morning set	13927 Oct 12 00:09	24° ≙ 03'45	
morning set	13926 Oct 28 09:50	10°M35'47		asc. node	13927 Oct 14 15:24	29° ≏ 20'05	
max. Earth dist.	13926 Nov 02 17:32	21°M48'56	1.31802 AU		13927 Oct 14 23:14	0° M	
				max. Earth dist.	13927 Oct 16 14:15	3°M20'54	1.32910 AU
superior conj	13926 Nov 04 22:41	26°M39'02	1°10'48				
minimum elong	13926 Nov 04 20:25	26°M26'35	1°11'17	superior conj	13927 Oct 20 03:41	10°M52'13	0°50'13
	13926 Nov 06 11:10	0° ∡		minimum elong	13927 Oct 20 01:33	10°M40'48	0°50'26
evening rise	13926 Nov 11 16:57	11° ∡ *29'48		evening rise	13927 Oct 27 03:58	25°M59'59	
	13926 Nov 20 22:58	0°る			13927 Oct 29 01:22	0° ⊼	
desc. node	13926 Nov 29 11:31	13°る31'25	24010126	desc. node	13927 Nov 16 08:44	0° ろ 06'13	
evening max el	13926 Dec 06 15:11	21°る50'58	24°18'26	·	13927 Nov 16 06:27	0°る	22025150
retrograde	13926 Dec 20 07:02	28° る 39'10		evening max el	13927 Nov 18 01:23	1°る51'07	22°35'58
evening set	13926 Dec 25 09:38	27°る42'01	0.55852 AU	retrograde	13927 Dec 01 00:16	8°る16'29 7°る45'33	
min. Earth dist.	13926 Dec 31 02:47 13927 Jan 02 07:49	24°る49'15 23°る27'48		evening set min. Earth dist.	13927 Dec 04 18:34 13927 Dec 12 09:24	4° る 18'58	0.54748 AU
inferior conj minimum elong	13927 Jan 02 07.49 13927 Jan 02 14:32	23° る 2748 23° る 17'28	5°33'48	inferior conj	13927 Dec 12 09:24 13927 Dec 13 06:44	4 018 38 3° 石 48'52	
morning rise	13927 Jan 02 14:32 13927 Jan 10 21:22	19° る 27'32	3 33 40	minimum elong	13927 Dec 13 05:32	3°る50'32	
direct	13927 Jan 13 07:55	19° ට 11'54		morning rise	13927 Dec 13 03:32 13927 Dec 21 17:47	0°る01'08	3 30 33
morning max el	13927 Jan 23 11:31	24°る05'20	19°48'51	morning 1130	13927 Dec 21 19:43	30°R. ₹ 7	
asc. node	13927 Jan 23 18:10	24° る 21'35	17 1031	direct	13927 Dec 24 22:26	29° ∡ 137'53	
use. Houe	13927 Jan 28 10:57	0° ≈		uncet	13927 Dec 27 23:01	0° る	
morning set	13927 Feb 10 02:59	22° ≈ 39'57		morning max el	13928 Jan 05 15:13	5° ਰ 13'51	21°13'50
8	13927 Feb 13 17:33	0°) €		asc. node	13928 Jan 10 15:27	10° ට 57'45	
					13928 Jan 21 21:15	0° ≈	
superior conj	13927 Feb 17 23:32	8°) 32'41	0°58'51	morning set	13928 Jan 25 11:58	7° ≈ 22'53	
minimum elong	13927 Feb 18 02:15	8°) 46′08	0°58'56	-			
max. Earth dist.	13927 Feb 24 02:01	20°) 1 7′22	1.37336 AU	superior conj	13928 Feb 01 18:57	22° ≈ 39'43	1°18'19
desc. node	13927 Feb 25 12:14	22°) 55′18		minimum elong	13928 Feb 01 21:23	22° ≈ 52′20	1°18'46
evening rise	13927 Feb 27 19:26	27°) €04'41			13928 Feb 05 09:24	0° ∀	
	13927 Mar 01 11:09	0° Y		max. Earth dist.	13928 Feb 06 12:14	2°) 13′24	1.35256 AU
	13927 Mar 20 14:36	$0^{\circ}S$		evening rise	13928 Feb 10 13:15	10° 米 00′45	
evening max el	13927 Apr 04 07:03	17° 8 52'22	25°24'52	desc. node	13928 Feb 12 08:47	13° ¥ 22'45	
retrograde	13927 Apr 16 12:37	24° 8 56'50			13928 Feb 22 00:49	0° Y	
asc. node	13927 Apr 21 14:41	23° 8 08'08			13928 Mar 15 04:50	0° S	
evening set	13927 Apr 22 09:56	22° 8 30'13		evening max el	13928 Mar 16 20:52	1° 8 40'53	26°29'26
min. Earth dist.	13927 Apr 26 17:57	17° 8 44'18	0.67845 AU	retrograde	13928 Mar 29 20:43	9° 8 02'25	
inferior conj	13927 Apr 28 02:21	15° 8 59'36	1°53'19	evening set	13928 Apr 05 04:37	6° 8 30'37	
minimum elong	13927 Apr 28 00:14	16° 8 06'28	1°52'00	asc. node	13928 Apr 07 12:07	4° 8 19'40	0.66620 : **
morning rise	13927 May 03 14:56	10° 8 07'04		min. Earth dist.	13928 Apr 09 06:37	2° 8 19'36	0.66638 AU
direct	13927 May 07 03:16	8° 8 56'08	10000157	inferior conj	13928 Apr 11 03:33	0° 8 04'05	1°07'11
morning max el	13927 May 14 01:34	12° 8 42'46	19°08'57	minimum elong	13928 Apr 11 01:58	0° 8 08'53	1°06'11
desc. node	13927 May 24 14:19	26° 8 14'38	0.7m	morning rig-	13928 Apr 11 04:54	30°₹ Υ	
greatest brilliancy	13927 May 27 00:26	29° 8 49'30	-0.7m	morning rise direct	13928 Apr 17 00:18	24° Y 22'36 23° Y 29'38	
morning set	13927 May 27 03:15 13927 Jun 06 20:36	0° П 16° П 22'01			13928 Apr 20 02:04 13928 Apr 26 13:10	23°°°729'38 26°°755'14	18°24'23
morning set	13927 Jun 06 20:36	10 Щ22701		morning max el	13720 Apr 26 13:10	20 1 33 14	10 24 25

	13928 Apr 29 08:05	0°8		direct	13929 Apr 03 21:19	7° Ƴ 49'14	
desc. node	13928 May 10 11:05	16° 8 09'22		morning max el	13929 Apr 10 05:17	11° Y ′06'21	17°56'40
morning set	13928 May 16 20:05	26° 8 13'28			13929 Apr 23 11:11	0° 8	
	13928 May 19 05:21	Π °0		desc. node	13929 Apr 27 07:44	6° 8 21'01	
				morning set	13929 Apr 27 23:31	7° 8 26'09	
superior conj	13928 Jun 01 13:54	20° Ⅱ 57'51	-2°05'36		13929 May 11 21:28	Π °0	
minimum elong	13928 Jun 01 07:22	20° Ⅲ 32'22	2°06'18				
max. Earth dist.	13928 Jun 02 02:28	21° Ⅱ 46′54	1.45873 AU	superior conj	13929 May 12 03:18	0°Ⅱ23′08	-1°39'13
	13928 Jun 07 08:50	0 \circ		minimum elong	13929 May 11 18:17	29° 8 47'23	1°39'11
evening rise	13928 Jun 17 10:58	15° 5 48'06		max. Earth dist.	13929 May 15 22:32	6° Ⅱ 22'49	1.45561 AU
	13928 Jun 26 12:38	0 $^{\circ}\Omega$		evening rise	13929 May 28 04:02	25° ∏ 20′16	
greatest brilliancy	13928 Jun 26 22:40	0° Ω 38'44	-0.8m		13929 May 31 05:05	0°©	
asc. node	13928 Jul 04 10:15	11° Ω 40'40		greatest brilliancy	13929 Jun 11 06:32	16°538'23	-0.6m
evening max el	13928 Jul 09 16:52	18° Ω 01'36	18°52'52	asc. node	13929 Jun 21 07:10	0° Ω 02'58	
retrograde	13928 Jul 16 09:42	21°Ω42'01			13929 Jun 21 06:07	0° N	10042124
evening set	13928 Jul 19 18:49	20° Ω 36'09	2052120	evening max el	13929 Jun 22 23:15	1° Ω 49'44	19°42'34
inferior conj	13928 Jul 25 07:44	14° Ω 52'47	2°53'38	retrograde	13929 Jun 30 07:54	5° Ω 59'08	
minimum elong min. Earth dist.	13928 Jul 25 09:27 13928 Jul 27 01:12	14° Ω 47'21 12° Ω 42'06	2°52'32 0.66266 AU	evening set	13929 Jul 04 02:30 13929 Jul 08 10:17	4° № 36'25 30°R ©	
morning rise	13928 Jul 27 01.12 13928 Jul 30 23:19	8° Ω 28'19	0.00200 AU	inferior conj	13929 Jul 08 10:17 13929 Jul 09 10:31	28°\$39'44	2000147
direct	13928 Aug 06 05:42	5°Ω48'49		minimum elong	13929 Jul 09 10:31 13929 Jul 09 11:16	28° © 37'12	3°07'45
desc. node	13928 Aug 06 09:53	5° Ω 48'56		min. Earth dist.	13929 Jul 10 13:39	27° © 09'00	0.67617 AU
morning max el	13928 Aug 00 05:35	13°Ω31'24	26°28'22	morning rise	13929 Jul 10 13:39 13929 Jul 14 19:37	27 3 09 00 22° 9 15'46	0.07017 AC
morning max cr	13928 Sep 01 13:45	0° m)	20 20 22	direct	13929 Jul 20 15:44	19° © 42'11	
	13928 Sep 20 07:42	0∘ ⊽		desc. node	13929 Jul 24 07:15	20°931'55	
morning set	13928 Sep 24 02:41	ა — 6° ჲ 57'51		morning max el	13929 Aug 01 16:07	26°954'23	25°10'11
max. Earth dist.	13928 Sep 28 01:20	14° £ 33'23	1.34541 AU		13929 Aug 04 13:17	0°N	
asc. node	13928 Sep 30 12:00	19° £ 26'06			13929 Aug 26 04:21	0° m)	
				morning set	13929 Sep 06 13:32	19° m)09'14	
superior conj	13928 Oct 03 02:05	24° ≏ 43'37	0°24'08	max. Earth dist.	13929 Sep 10 03:24	25° m) 40'07	1.36605 AU
minimum elong	13928 Oct 03 00:48	24° ≏ 36'58	0°24'13		13929 Sep 12 10:44	0∘ ⊽	
	13928 Oct 05 14:47	0° M			•		
evening rise	13928 Oct 10 13:19	10°M23'44		superior conj	13929 Sep 16 14:59	8° ഫ 06'23	-0°06'49
	13928 Oct 20 18:02	0° ∡ ¹		minimum elong	13929 Sep 16 15:24	8° ഫ 08'29	0°06'42
evening max el	13928 Oct 29 18:45	12° ∡ °05'57	21°00'52	behind sun begin	13929 Sep 16 09:30	7° ≙ 39'18	
desc. node	13928 Nov 02 06:02	15° ∡ °02′20		behind sun end	13929 Sep 16 21:19	8° ≏ 37'42	
retrograde	13928 Nov 10 10:59	17° ∡ 754′09		asc. node	13929 Sep 17 08:34	9° ჲ 33'32	
evening set	13928 Nov 12 23:52	17° ∡ ³38'52		evening rise	13929 Sep 24 18:48	24° ≏ 35'30	
inferior conj	13928 Nov 21 21:57	13° ∡ ′45′30			13929 Sep 27 11:24	0° M	
minimum elong	13928 Nov 21 13:05	13° ∡ 58′04		evening max el	13929 Oct 12 01:54	23°M04'25	19°44'18
min. Earth dist.	13928 Nov 22 15:15	13° ∡ 20′58	0.54513 AU	desc. node	13929 Oct 20 03:25	27°M53'52	
morning rise	13928 Nov 30 02:41	9° ⋌ ¹53'24 –		retrograde	13929 Oct 22 02:59	28°M05'12	
direct	13928 Dec 04 05:48	9° ⋌ 16'51		evening set	13929 Oct 24 01:08	27°M55'00	
morning max el	13928 Dec 17 06:11	15° х 34'10	22°57'14	inferior conj	13929 Nov 01 20:18	23°M52'43	
asc. node	13928 Dec 27 12:38	28° ∡ 36′04		minimum elong	13929 Nov 01 10:51	24°M07'26	3°48'07
	13928 Dec 28 09:34	0°る		min. Earth dist.	13929 Nov 03 23:53	22°M32'28	0.55219 AU
morning set	13929 Jan 08 23:21	22° る 08'42		morning rise	13929 Nov 09 18:53	19°M35'39	
	13929 Jan 12 15:00	0° ≈		direct	13929 Nov 14 19:44	18°M39'35 25°M32'55	24046'02
superior conj	13929 Jan 15 21:58	7°≈05'47	1°31'00	morning max el	13929 Nov 28 15:54 13929 Dec 02 20:12	25°111632'55	24 40 03
minimum elong	13929 Jan 15 23:35	7°≈14'27	1°31'48	asc. node	13929 Dec 14 09:42	0 x ⁴ 17° x ⁷ 01'38	
max. Earth dist.	13929 Jan 19 05:15	14°≈05'14	1.33517 AU	asc. nouc	13929 Dec 21 04:48	0°る	
evening rise	13929 Jan 23 20:34	23°≈29'32	1.55517 AO	morning set	13929 Dec 24 11:15	6°る52'10	
evening rise	13929 Jan 27 05:52	0° \		morning set	15)2) Bec 24 11:13	0 032 10	
desc. node	13929 Jan 29 05:23	3° ¥ 39'23		superior conj	13929 Dec 31 05:58	21° る 43'26	1°37'15
dese. node	13929 Feb 14 16:00	0° Υ		minimum elong	13929 Dec 31 06:32	21° る 46'30	1°38'16
evening max el	13929 Feb 27 10:16		27°14'46	max. Earth dist.	13930 Jan 02 05:42	26° පි 04'11	1.32230 AU
retrograde	13929 Mar 12 22:45	22° Y ′42'35			13930 Jan 04 01:29	0° ≈	
evening set	13929 Mar 19 15:04	20° Y 11'24		evening rise	13930 Jan 07 14:16	7° ≈ 23'29	
min. Earth dist.	13929 Mar 23 12:16	16° Ƴ 33'09	0.65038 AU	desc. node	13930 Jan 16 02:05	23° ≈ 40′04	
asc. node	13929 Mar 25 09:35	14° Ƴ 28'18			13930 Jan 19 17:58	0° ∀	
inferior conj	13929 Mar 25 21:24	13° Y 55'26	0°09'26	evening max el	13930 Feb 09 21:56	28°) €21'47	27°33'51
minimum elong	13929 Mar 25 21:08	13° Y 56'10	0°09'11		13930 Feb 11 16:59	0° Y	
transit middle	13929 Mar 25 21:08	13° Y 56'10	0°09'11	retrograde	13930 Feb 23 17:57	5° Y '48'09	
transit begin	13929 Mar 25 18:39	14° Y 03'04		evening set	13930 Mar 02 14:54	3° Y 24'56	
transit end	13929 Mar 25 23:37	13° Ƴ 49'17		min. Earth dist.	13930 Mar 06 09:14	0° Υ 15'12	0.63112 AU
morning rise	13929 Apr 01 04:59	8° Y 27'07			13930 Mar 06 15:33	30°Ŗ ℋ	

inferior conj minimum elong asc. node	13930 Mar 09 05:06 13930 Mar 09 07:04 13930 Mar 12 07:03	27°\£26'58 27°\£22'04 24°\£34'39		inferior conj minimum elong morning rise	13931 Feb 19 23:18 13931 Feb 20 04:19 13931 Feb 27 10:36	10° 光 30'13 10° 光 19'13 5° 光 35'53	
morning rise	13930 Mar 16 01:50	22°) 1 4′15		asc. node	13931 Feb 27 04:30	5°) 40′31	
direct	13930 Mar 18 10:12	21° ¥ 47'56		direct	13931 Mar 01 13:15	5° ∺ 17'21	
morning max el	13930 Mar 24 23:02	25° 米 07'59	17°46'17	morning max el	13931 Mar 08 15:10	8° ¥ 50'49	17°54'06
	13930 Mar 29 00:47	0° Υ			13931 Mar 22 10:49	0° Υ	
morning set	13930 Apr 10 04:41	19° Y 52'19		morning set	13931 Mar 24 05:39	3°Υ14'12	
desc. node	13930 Apr 14 04:18	26° Y 44'38		desc. node	13931 Apr 01 00:51	17° Ƴ 16'11	
	13930 Apr 16 02:02	0°B		superior conj	13931 Apr 03 20:45	22° Y 12'58	0000100
superior conj	13930 Apr 22 11:57	10° 8 44'22	-1°02'00	minimum elong	13931 Apr 03 20.43	22° Y 04'17	
minimum elong	13930 Apr 22 05:48	· . · .	1°01'44	minimum clong	13931 Apr 08 10:28	0°8	0 22 20
max. Earth dist.	13930 Apr 28 16:24	20° 8 45'32	1.44543 AU	max. Earth dist.	13931 Apr 11 06:38	4° 8 42'29	1.42927 AU
	13930 May 04 13:18	0°II		evening rise	13931 Apr 17 12:05	14° 8 42'56	
evening rise	13930 May 07 15:04	4° Ⅱ 45'01		Č	13931 Apr 27 12:02	0° I I	
	13930 May 24 15:04	0 \circ \odot		evening max el	13931 May 19 18:57	29° Ⅲ 29′17	22°01'20
evening max el	13930 Jun 05 23:46	15° © 38'53	20°46'36		13931 May 20 07:25	0ංම	
asc. node	13930 Jun 08 04:10	17° © 39'16		asc. node	13931 May 26 01:17	4° © 15'34	
retrograde	13930 Jun 14 06:53	20° 5 26'48		retrograde	13931 May 29 04:48	5°900'28	
evening set	13930 Jun 18 11:39	18° © 47'15		evening set	13931 Jun 02 20:33	3°504'50	
inferior conj	13930 Jun 23 17:38	12°538'43	3°11'22		13931 Jun 05 17:40	30°RⅡ	2002150
minimum elong	13930 Jun 23 17:22	12°539'37	3°10'18	inferior conj	13931 Jun 08 02:58	26° Ⅱ 46'18	3°02'50
min. Earth dist.	13930 Jun 24 07:00 13930 Jun 28 22:49	11° © 52'28 6° © 18'44	0.68512 AU	minimum elong min. Earth dist.	13931 Jun 08 01:48 13931 Jun 08 03:09	26°Ⅲ50'21 26°Ⅲ45'39	3°01'40 0.68935 AU
morning rise direct	13930 Jul 28 22.49 13930 Jul 04 07:04	3°957'56		morning rise	13931 Jun 13 06:51	20° II 32'22	0.08933 AU
desc. node	13930 Jul 11 04:32	6°954'35		direct	13931 Jun 18 02:29	20 H 32 22 18° H 29'18	
morning max el	13930 Jul 15 02:29	10° © 25'31	23°41'56	morning max el	13931 Jun 27 14:43	24° Ⅱ 04'26	22°13'06
morning max or	13930 Jul 30 15:24	0°Ω	25 11 50	desc. node	13931 Jun 28 01:42	24° I I32'20	22 13 00
	13930 Aug 18 22:00	0° m)			13931 Jul 02 20:49	0°99	
morning set	13930 Aug 19 04:04	0° m/25'40			13931 Jul 24 00:36	$0^{\circ}\Omega$	
max. Earth dist.	13930 Aug 23 01:01	7° m 06'17	1.38933 AU	morning set	13931 Jul 30 18:23	10° Ω 38′03	
				max. Earth dist.	13931 Aug 05 01:21	19° Ω 19'44	1.41263 AU
superior conj	13930 Aug 30 14:39	20° m 50'59			13931 Aug 11 06:45	0° ™	
minimum elong	13930 Aug 30 17:37	21°Mp04'55	0°40'59				
asc. node	13930 Sep 04 05:05	29° m/38'13		superior conj	13931 Aug 12 20:51	2° Mp 48'06	
	13930 Sep 04 09:35	0° ™		minimum elong	13931 Aug 13 02:40		1°16'11
evening rise	13930 Sep 08 17:39	8° £ 27'25 0° I L		asc. node	13931 Aug 22 01:40	19° Mp 36'48 21° Mp 51'07	
evening max el	13930 Sep 20 22:11 13930 Sep 24 22:43	0 በር 4°ጤ51'54	18°40'37	evening rise	13931 Aug 23 06:29 13931 Aug 27 16:19	0° ت	
retrograde	13930 Oct 03 10:32	9°M08'01	10 4/3/	evening max el	13931 Sep 08 05:30	0 — 17° ≏ 21'40	18°16'17
evening set	13930 Oct 05 17:52	8°M56'09		retrograde	13931 Sep 15 13:27	21° ₽ 05'05	10 10 17
desc. node	13930 Oct 07 00:53	8°M26'14		evening set	13931 Sep 17 16:29	20° ≏ 46'57	
inferior conj	13930 Oct 13 12:45	4°M35'59	-2°03'44	desc. node	13931 Sep 23 22:22	17° ≏ 04'55	
minimum elong	13930 Oct 13 07:35	4°M45'16	2°01'12	inferior conj	13931 Sep 25 03:00	16° ≙ 05'30	-0°22'30
min. Earth dist.	13930 Oct 16 13:29	2°M25'41	0.56740 AU	minimum elong	13931 Sep 25 02:12	16° ≏ 07'13	0°21'59
	13930 Oct 20 13:36	30° Ŗ Ω		min. Earth dist.	13931 Sep 28 10:07	13° ≏ 20'04	0.58797 AU
morning rise	13930 Oct 21 04:06	29° ≏ 42'47		morning rise	13931 Oct 02 08:29	10° ≏ 36'38	
direct	13930 Oct 26 23:32	28° ₽ 21'30		direct	13931 Oct 08 17:03	8° 2 48'14	25020110
	13930 Nov 02 10:50	0°ጤ 5°ጤ42'46	26922101	morning max el	13931 Oct 23 00:28 13931 Nov 03 03:04	16° ჲ 29'59 0° ጤ	27°28'49
morning max el	13930 Nov 10 04:31	3°11642'40	26°22'01			0-116	
asc. node	12020 Nov. 27, 22:44			aca nada			
	13930 Nov 27 22:44	0° ∡ ¹		asc. node	13931 Nov 18 03:31	25°M27'52	
	13930 Dec 01 06:39	0°⊀ 6°⊀01'55			13931 Nov 18 03:31 13931 Nov 20 09:59	25°M27'52 0° √	
morning set		0° ∡ ¹		asc. node morning set	13931 Nov 18 03:31	25°M27'52	
	13930 Dec 01 06:39 13930 Dec 08 21:55	0° ҂ ¹ 6° ҂ ¹01'55 21° ҂ ¹27'58			13931 Nov 18 03:31 13931 Nov 20 09:59	25°M27'52 0° √	1°31'38
	13930 Dec 01 06:39 13930 Dec 08 21:55	0° ҂ ¹ 6° ҂ ¹01'55 21° ҂ ¹27'58	1°37'24	morning set	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37	25°M27'52 0°⊀ 5°⊀51'48	1°31'38 1°32'33
morning set	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30	0° 년 6° 년01'55 21° 년27'58 0° 급		morning set superior conj	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22	25°M27'52 0°⊀ 5°⊀'51'48 21°⊀'06'44	
superior conj minimum elong max. Earth dist.	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45	0°♂ 6°♂01'55 21°♂27'58 0°♂ 6°♂25'35 6°♂22'42 8°♂10'53		morning set superior conj minimum elong max. Earth dist.	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55	25°M27'52 0°♂ 5°♂51'48 21°♂06'44 20°♂58'37 20°♂20'09 0°♂	1°32'33
morning set superior conj minimum elong	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32	0°ダ 6°ダ01'55 21°ダ27'58 0°उ 6°उ25'35 6°उ22'42 8°उ10'53 21°उ35'14	1°38'27	morning set superior conj minimum elong	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05	25°M27'52 0° ♂ 5° ♂51'48 21° ♂06'44 20° ♂58'37 20° ♂20'09 0° ♂ 5° ♂58'57	1°32'33
superior conj minimum elong max. Earth dist. evening rise	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25	0° ♥ 01'55 21° ₹27'58 0° ♂ 6° ♂25'35 6° ♂22'42 8° ♂10'53 21° ♂35'14 0° ≈	1°38'27	morning set superior conj minimum elong max. Earth dist. evening rise	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12	25°M27'52 0° ₹ 5° ₹51'48 21° ₹06'44 20° ₹58'37 20° ₹20'09 0° ₹ 5° ₹58'57 0° ≈	1°32'33
superior conj minimum elong max. Earth dist.	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25 13931 Jan 02 22:53	0° ♥ 6° ₹01'55 21° ₹27'58 0° ₹ 6° ₹25'35 6° ₹22'42 8° ₹10'53 21° ₹35'14 0° ≈ 13° ≈17'45	1°38'27	morning set superior conj minimum elong max. Earth dist. evening rise desc. node	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12 13931 Dec 20 19:48	25°M27'52 0° ₹ 5° ₹51'48 21° ₹06'44 20° ₹58'37 20° ₹20'09 0° ₹ 5° ₹58'57 0° ≈ 2° ≈23'19	1°32'33 1.31164 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25 13931 Jan 02 22:53 13931 Jan 13 20:05	0°♂ 6°♂01'55 21°♂27'58 0°♂ 6°♂25'35 6°♂22'42 8°♂10'53 21°♂35'14 0°≈ 13°≈17'45 0°¥	1°38'27 1.31438 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12 13931 Dec 20 19:48 13932 Jan 05 06:53	25°M27'52 0° ₹ 5° ₹'51'48 21° ₹'06'44 20° ₹'20'09 0° ₹ 5° ₹58'57 0° ≈ 2° ≈23'19 22° ≈31'22	1°32'33
superior conj minimum elong max. Earth dist. evening rise desc. node	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25 13931 Jan 02 22:53 13931 Jan 13 20:05 13931 Jan 23 05:43	0° ₹ 6° ₹01'55 21° ₹27'58 0° ₹ 6° ₹25'35 6° ₹22'42 8° ₹10'53 21° ₹35'14 0° ≈ 13° ≈17'45 0° ¥ 10° ¥51'12	1°38'27 1.31438 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12 13931 Dec 20 19:48 13932 Jan 05 06:53 13932 Jan 19 05:57	25°M27'52 0° ₹ 5° ₹51'48 21° ₹06'44 20° ₹20'09 0° ₹ 5° ₹58'57 0° ≈ 2° ≈23'19 22° ≈31'22 29° ≈38'51	1°32'33 1.31164 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25 13931 Jan 02 22:53 13931 Jan 13 20:05 13931 Jan 23 05:43 13931 Feb 06 04:57	0°♂ 6°♂01'55 21°♂27'58 0°♂ 6°♂25'35 6°♂22'42 8°♂10'53 21°♂35'14 0°≈ 13°≈17'45 0°升 10°升51'12 18°升09'29	1°38'27 1.31438 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12 13931 Dec 20 19:48 13932 Jan 05 06:53 13932 Jan 19 05:57 13932 Jan 25 18:02	25°M27'52 0°ズ 5°ズ51'48 21°ズ06'44 20°ズ58'37 20°ズ20'09 0°℧ 5°℧58'57 0°≈ 2°≈23'19 22°≈31'22 29°≈38'51 27°≈55'19	1°32'33 1.31164 AU 26°33'10
superior conj minimum elong max. Earth dist. evening rise desc. node	13930 Dec 01 06:39 13930 Dec 08 21:55 13930 Dec 12 19:30 13930 Dec 15 16:45 13930 Dec 15 16:14 13930 Dec 16 11:39 13930 Dec 22 15:32 13930 Dec 26 18:25 13931 Jan 02 22:53 13931 Jan 13 20:05 13931 Jan 23 05:43	0° ₹ 6° ₹01'55 21° ₹27'58 0° ₹ 6° ₹25'35 6° ₹22'42 8° ₹10'53 21° ₹35'14 0° ≈ 13° ≈17'45 0° ¥ 10° ¥51'12 18° ¥09'29 16° ¥02'27	1°38'27 1.31438 AU	morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	13931 Nov 18 03:31 13931 Nov 20 09:59 13931 Nov 23 05:37 13931 Nov 30 04:22 13931 Nov 30 02:55 13931 Nov 29 20:02 13931 Dec 04 04:08 13931 Dec 06 22:05 13931 Dec 19 09:12 13931 Dec 20 19:48 13932 Jan 05 06:53 13932 Jan 19 05:57	25°M27'52 0°ズ 5°ズ51'48 21°ズ06'44 20°ズ58'37 20°ズ20'09 0°℧ 5°℧58'57 0°≈ 2°≈23'19 22°≈31'22 29°≈38'51 27°≈55'19	1°32'33 1.31164 AU 26°33'10 0.58792 AU

retrograde

evening set

13932 Dec 30 19:22

13933 Jan 05 13:36

10°≈15'34

9°≈00'37

13933 Dec 11 20:09

13933 Dec 16 09:36

retrograde

evening set

20°る07'41

19°る22'27

page 180

min. Earth dist.	13933 Dec 22 20:16	16°₹17'32	0.55284 AU	inferior conj	13934 Dec 04 07:24	25° ҂ 23'47	-5°49'12
inferior conj	13933 Dec 24 13:28	15° る 16'57	-5°51'41	minimum elong	13934 Dec 04 02:22	25° ҂ ³30'51	5°47'39
minimum elong	13933 Dec 24 17:23	15° る 11'10	5°50'20	min. Earth dist.	13934 Dec 04 02:26	25° ҂ ³30'44	0.54528 AU
morning rise	13934 Jan 02 02:54	11° る 23'48		morning rise	13934 Dec 12 15:47	21° х ⁴36′19	
direct	13934 Jan 04 19:57	11° る 05'49		direct	13934 Dec 16 05:42	21° ₰ 08'06	
morning max el	13934 Jan 15 15:44	16° ප 16'57	20°22'18	morning max el	13934 Dec 28 13:27	27° ₹ 02'59	21°56'06
asc. node	13934 Jan 17 20:42	18° る 36'28			13934 Dec 31 08:57	0°ප	
	13934 Jan 25 16:58	0° ≈		asc. node	13935 Jan 04 17:56	5° ರ 40'50	
morning set	13934 Feb 03 03:33	16° ≈ 15′03			13935 Jan 18 02:26	0° ≈	
Ü	13934 Feb 09 19:51	0°) €		morning set	13935 Jan 18 13:45	0°≈59'29	
		• , ,					
superior conj	13934 Feb 10 17:38	1° ¥ 50'26	1°07'56	superior conj	13935 Jan 25 16:37	16° ≈ 06'26	1°24'29
minimum elong	13934 Feb 10 20:20	2°) 04'00	1°08'10	minimum elong	13935 Jan 25 18:45	16°≈17'40	1°25'06
max. Earth dist.	13934 Feb 16 26:28	12°) 43'45	1.36418 AU	max. Earth dist.	13935 Jan 29 19:00	24°≈34'34	1.34466 AU
desc. node	13934 Feb 19 14:25	18°) 57'47	1.50410 AC	max. Lartii dist.	13935 Feb 01 12:24	0° ∺	1.54400 AC
evening rise	13934 Feb 20 01:51	19° H 50'03		evening rise	13935 Feb 01 12:24 13935 Feb 03 01:49	3° ∺ 01'13	
evening rise	13934 Feb 25 20:33	19 χ 30 03		•		9° H 21'13	
				desc. node	13935 Feb 06 10:59	9° π 2113	
	13934 Mar 17 21:50	0°8	2505.4105		13935 Feb 18 18:21		2 (051122
evening max el	13934 Mar 27 13:27	11° 8 05'02	25°54'07	evening max el	13935 Mar 10 03:14	24° Y 48'42	26°51'33
retrograde	13934 Apr 09 03:42	18° 8 18'58			13935 Mar 16 14:09	0° 8	
evening set	13934 Apr 15 05:41	15° 8 49'18		retrograde	13935 Mar 23 09:30	2° 8 14'44	
asc. node	13934 Apr 15 17:14	15° 8 24'17		evening set	13935 Mar 29 21:08	29° Ƴ 42'35	
min. Earth dist.	13934 Apr 19 10:53	11° 8 18'29	0.67382 AU		13935 Mar 29 12:04	30° ₹Ƴ	
inferior conj	13934 Apr 21 00:42	9° 8 19'26	1°35'08	asc. node	13935 Apr 02 14:41	26° Ƴ 03'24	
minimum elong	13934 Apr 20 22:44	9° 8 25'40	1°33'53	min. Earth dist.	13935 Apr 02 20:58	25° Ƴ 45'36	0.65998 AU
morning rise	13934 Apr 26 16:27	3° 8 31'29		inferior conj	13935 Apr 04 23:07	23° Y 19'24	0°44'09
direct	13934 Apr 30 00:03	2° 8 28'43		minimum elong	13935 Apr 04 21:59	23° Y 22'43	0°43'24
morning max el	13934 May 06 16:46	6° 8 05'06	18°47'53	morning rise	13935 Apr 11 00:08	17° Ƴ 43'01	
desc. node	13934 May 18 16:35	21° 8 59'26		direct	13935 Apr 13 21:39	16° Ƴ 56'57	
greatest brilliancy	13934 May 20 16:16	25° 8 00'39	-0.8m	morning max el	13935 Apr 20 06:34	20° Ƴ 17'49	18°10'23
,	13934 May 23 22:02	0°Щ		Ü	13935 Apr 27 20:34	0°8	
morning set	13934 May 28 21:22	7° Ⅱ 43'27		desc. node	13935 May 05 13:18	12° 8 02'15	
3	13934 Jun 12 04:29	0ංම		morning set	13935 May 09 08:29	18° 8 08'57	
max. Earth dist.	13934 Jun 12 15:25	0°5642'44	1.45702 AU	. 8	13935 May 16 18:09	0°II	
max. Earth dist.	13754 Juli 12 13.25	0 3-12-1-1	1.43/02/10		15755 Way 10 10.07	о д	
superior conj	13934 Jun 14 03:37	3°504'18	-2°12'41	superior conj	13935 May 24 12:00	12° Ⅱ 13'01	-1°56'18
minimum elong	13934 Jun 14 01:11	2°954'48		minimum elong	13935 May 24 03:34	11° I I40'00	
evening rise	13934 Jun 29 10:47	27°\$20'06	2 13 43	max. Earth dist.	13935 May 24 03:34 13935 May 26 11:19		1.45831 AU
evening rise				max. Earth dist.	•		1.43631 AU
1	13934 Jul 01 02:34	0° Ω 18° Ω 10'29			13935 Jun 04 22:02	0°95	
asc. node	13934 Jul 12 15:43		10021142	evening rise	13935 Jun 09 13:59	7°914'24	0.7
evening max el	13934 Jul 19 21:41	27° Ω 26'34	18°31'42	greatest brilliancy	13935 Jun 21 06:01	25° © 11'32	-0.7m
	13934 Jul 23 03:34	0° m)			13935 Jun 24 11:57	0°N	
retrograde	13934 Jul 26 09:11	0° m/56'06		asc. node	13935 Jun 29 12:34	6° £ 53′53	
evening set	13934 Jul 29 12:59	29° £ 59′50		evening max el	13935 Jul 03 07:10	11°Ω13'18	19°12'10
	13934 Jul 29 12:52	30°R Ω		retrograde	13935 Jul 10 05:47	15° Ω 04'24	
inferior conj	13934 Aug 04 06:12	24° Ω 25'03		evening set	13935 Jul 13 18:51	13° Ω 51′29	
minimum elong	13934 Aug 04 08:22	24° Ω 18'31		inferior conj	13935 Jul 19 05:20	8° Ω 02'34	3°01'41
min. Earth dist.	13934 Aug 06 08:07	21° Ω 54'39	0.65288 AU	minimum elong	13935 Jul 19 06:40	7° Ω 58'15	3°00'37
morning rise	13934 Aug 10 02:35	18° Ω 02'15		min. Earth dist.	13935 Jul 20 16:44	6° Ω 07'54	0.66900 AU
desc. node	13934 Aug 14 14:56	15° Ω 36′39		morning rise	13935 Jul 24 17:52	1° Ω 37'55	
direct	13934 Aug 16 13:37	15° Ω 22'52			13935 Jul 27 00:53	30° ₹ 🥯	
morning max el	13934 Aug 29 23:38	23° Ω 17′03	27°04'58	direct	13935 Jul 30 20:19	28° © 59'42	
	13934 Sep 04 23:01	0° m)		desc. node	13935 Aug 01 12:21	29°910'05	
	13934 Sep 25 05:57	0∘ 亚			13935 Aug 03 23:44	$0^{\circ}\Omega$	
morning set	13934 Oct 04 13:49	16° ≏ 57'47		morning max el	13935 Aug 12 10:35	6° Ω 31'04	25°56'49
asc. node	13934 Oct 08 17:38	25° ♀ 12'10		•	13935 Aug 30 15:22	0° m)	
max. Earth dist.	13934 Oct 08 20:54	25° ≏ 28'45	1.33536 AU	morning set	13935 Sep 17 10:07	29° m 34'33	
	13934 Oct 11 01:39	0° M ,		Č	13935 Sep 17 15:39	0∘ ⊽	
				max. Earth dist.	13935 Sep 17 13:35 13935 Sep 21 03:25	6° ≏ 34'22	1.35375 AU
superior conj	13934 Oct 13 01:05	4°ML08'38	0°39'47	asc. node	13935 Sep 21 03:23 13935 Sep 25 14:12	15° ⊆ 19'13	
Superior conj		3°M58'45	0°39'57	300. 110 u 0	10,000 бор 20 14.12	1/13	
minimum elong	13934 Oct 17 73-13	J IIVJU TJ	3 37 31				0011122
minimum elong	13934 Oct 12 23:13			superior coni	13935 Sen 26 10-40	1701212110	
minimum elong evening rise	13934 Oct 20 05:23	19° M 28'15		superior conj	13935 Sep 26 19:49	17° Ω 48'49	0°11'32 0°11'38
evening rise	13934 Oct 20 05:23 13934 Oct 25 08:28	19° M 28'15 0° √	21052150	minimum elong	13935 Sep 26 19:09	17° ≏ 45'25	0°11'32 0°11'38
evening rise evening max el	13934 Oct 20 05:23 13934 Oct 25 08:28 13934 Nov 09 21:47	19° M .28'15 0° ⊀' 23° ⊀' 28'26	21°53'50	minimum elong behind sun begin	13935 Sep 26 19:09 13935 Sep 26 14:54	17° £ 45'25 17° £ 23'52	
evening rise evening max el desc. node	13934 Oct 20 05:23 13934 Oct 25 08:28 13934 Nov 09 21:47 13934 Nov 10 11:10	19°M28'15 0° ⊀ 23° ₹28'26 24° ₹00'33	21°53'50	minimum elong	13935 Sep 26 19:09 13935 Sep 26 14:54 13935 Sep 26 23:24	17° ♀ 45'25 17° ♀ 23'52 18° ♀ 07'01	
evening rise evening max el desc. node retrograde	13934 Oct 20 05:23 13934 Oct 25 08:28 13934 Nov 09 21:47 13934 Nov 10 11:10 13934 Nov 22 09:39	19°M28'15 0° ♂ 23° ♂28'26 24° ♂00'33 29° ♂39'53	21°53'50	minimum elong behind sun begin behind sun end	13935 Sep 26 19:09 13935 Sep 26 14:54 13935 Sep 26 23:24 13935 Oct 02 17:30	17° £ 45'25 17° £ 23'52 18° £ 07'01 0° M .	
evening rise evening max el desc. node	13934 Oct 20 05:23 13934 Oct 25 08:28 13934 Nov 09 21:47 13934 Nov 10 11:10	19°M28'15 0° ⊀ 23° ₹28'26 24° ₹00'33	21°53'50	minimum elong behind sun begin	13935 Sep 26 19:09 13935 Sep 26 14:54 13935 Sep 26 23:24	17° ♀ 45'25 17° ♀ 23'52 18° ♀ 07'01	

	13935 Oct 19 08:56	0° ∡ 7		retrograde	13936 Oct 13 18:08	19°M59'56	
evening max el	13935 Oct 17 00:30 13935 Oct 22 20:44	4° ∡ ′00'00	20°25'43	desc. node	13936 Oct 14 05:54	19°M59'12	
desc. node	13935 Oct 28 08:29	8° ≯ 06'36	20 23 13	evening set	13936 Oct 15 14:52	19°M49'33	
retrograde	13935 Nov 02 20:27	9° х 27'48		inferior conj	13936 Oct 24 04:50	15°M40'02	-3°06'33
evening set	13935 Nov 05 01:10	9° × 15'43		minimum elong	13936 Oct 23 20:56	15°M53'03	3°03'00
inferior conj	13935 Nov 13 23:47	5° х 20′20	-4°47'15	min. Earth dist.	13936 Oct 26 19:09	13°M57'31	0.55782 AU
minimum elong	13935 Nov 13 13:45	5° ∡ ³34'59	4°43'43	morning rise	13936 Nov 01 00:40	11°M08'35	
min. Earth dist.	13935 Nov 15 09:05	4° ∡ ³31'46	0.54703 AU	direct	13936 Nov 06 09:57	10°M02'33	
morning rise	13935 Nov 22 01:52	1° ∡ 19'55		morning max el	13936 Nov 20 10:46	17° M 07'51	25°29'46
direct	13935 Nov 26 14:52	0° ∡ ³35'30			13936 Nov 30 23:34	0° ∡ ¹	
morning max el	13935 Dec 10 00:47	7° ∡ 09'00	23°43'55	asc. node	13936 Dec 08 12:05	12° ∡ 22'43	
asc. node	13935 Dec 22 15:03	23° х 40′57			13936 Dec 17 08:21	ರ°ರ	
	13935 Dec 26 05:27	ರ°ರ		morning set	13936 Dec 17 13:09	0° る 25'49	
morning set	13936 Jan 03 01:35	15° る 44'59					
				superior conj	13936 Dec 24 07:26	15° る 18'18	1°38'03
superior conj	13936 Jan 09 22:02	0° ≈ 38'16	1°34'25	minimum elong	13936 Dec 24 07:32	15° る 18'49	1°39'06
minimum elong	13936 Jan 09 23:13	0° ≈ 44'41	1°35'19	max. Earth dist.	13936 Dec 25 18:46	18° る 33'15	1.31828 AU
	13936 Jan 09 14:59	0° ≈		evening rise	13936 Dec 31 11:09	0° ≈ 44'13	
max. Earth dist.	13936 Jan 12 15:25	6° ≈ 29'35	1.32911 AU		13936 Dec 31 02:38	0° ≈	
evening rise	13936 Jan 17 13:57	16° ≈ 42′05		desc. node	13937 Jan 10 04:19	19° ≈ 24'05	
desc. node	13936 Jan 24 07:36	29° ≈ 32'10			13937 Jan 16 13:30	0° ∀	
	13936 Jan 24 13:46	0°) €		evening max el	13937 Feb 02 02:48	21°) €07'07	27°32'35
	13936 Feb 13 06:01	0° Y		retrograde	13937 Feb 16 00:13	28°) €29'56	
evening max el	13936 Feb 20 16:25	8° Ƴ 14'11	27°26'36	evening set	13937 Feb 22 21:50	26°) 12'34	
retrograde	13936 Mar 05 08:40	15° Ƴ 41'53		min. Earth dist.	13937 Feb 26 15:54	23°) 13′19	0.62221 AU
evening set	13936 Mar 12 03:25	13° Y 13′30		inferior conj	13937 Mar 01 15:27	20° 米 25′02	
min. Earth dist.	13936 Mar 15 23:15	9° Ƴ 47'48	0.64253 AU	minimum elong	13937 Mar 01 18:39	20° ∺ 17'30	1°31'11
inferior conj	13936 Mar 18 13:05	7° Y ′04′20		asc. node	13937 Mar 06 09:36	16° ¥ 29′01	
minimum elong	13936 Mar 18 13:39	7° Y ′02'50	0°18'22	morning rise	13937 Mar 08 18:17	15°) 19'49	
asc. node	13936 Mar 19 12:08	6° Y ′03'52		direct	13937 Mar 11 00:02	14° ¥ 57′08	
morning rise	13936 Mar 25 01:58	1° Y ′42′00		morning max el	13937 Mar 17 17:12	18° ¥ 21′16	17°47'25
direct	13936 Mar 27 14:46	1° Υ ′09'22			13937 Mar 26 04:28	0° Υ	
morning max el	13936 Apr 02 23:43	4° Y ′26′23	17°50'04	morning set	13937 Apr 02 14:03	12° Y 48'49	
morning set	13936 Apr 19 23:41	29° Y ′56′17		desc. node	13937 Apr 08 06:30	22° Y 48′01	
	13936 Apr 20 00:34	0°8			13937 Apr 12 11:05	0°B	
desc. node	13936 Apr 21 09:56	2° 8 20'17			12027 4 14 02 20	200 40155	0045105
	12026 M 02 00 27	210050120	1024114	superior conj	13937 Apr 14 03:20	2° 8 49'55	
superior conj	13936 May 03 08:27	21° 8 59'39 21° 8 26'34		minimum elong	13937 Apr 13 22:59	2° 8 31'38	0°44'55
minimum elong	13936 May 03 00:13 13936 May 08 09:07	• •	1°24'01	max. Earth dist.	13937 Apr 21 00:13	14° 8 08'00	1.43926 AU
max. Earth dist.	13936 May 08 09:07	0°Ⅱ 29° ႘ 52'21	1.45221 AU	evening rise	13937 Apr 28 16:16 13937 May 01 02:47	26° ႘ 14'39 0° Ⅱ	
evening rise	13936 May 19 02:36	16° ∏ 39'16	1.43221 AU		13937 May 01 02.47 13937 May 21 21:00	0°©	
evening rise	13936 May 27 22:08	0.20 0.20		evening max el	13937 May 21 21:00 13937 May 29 09:17	8°\$52'37	21017113
greatest brilliancy	13936 May 27 22:08 13936 Jun 02 21:37	8°\$49'04	-0.6m	asc. node	13937 May 29 09:17 13937 Jun 02 06:33	12° © 11'44	21 1/13
asc. node	13936 Jun 15 09:30	24°958'31	-0.0111	retrograde	13937 Jun 07 03:16	13°958'35	
evening max el	13936 Jun 15 11:11	25°\$02'46	20°08'11	evening set	13937 Jun 11 12:43	12° © 11'49	
retrograde	13936 Jun 23 04:28	29° 5 27'03	20 00 11	inferior conj	13937 Jun 16 18:35	5°958'35	3°09'01
evening set	13936 Jun 27 03:25	27°956'58		minimum elong	13937 Jun 16 17:56	6°900'53	3°07'55
inferior conj	13936 Jul 02 10:15	21°955'08	3°11'16	min. Earth dist.	13937 Jun 17 02:11	5° © 32'06	0.68755 AU
minimum elong	13936 Jul 02 10:34	21°954'03	3°10'14	morning rise	13937 Jun 21 22:56	29° ∏ 41′06	
min. Earth dist.	13936 Jul 03 07:25	20°543'10	0.68068 AU	morning not	13937 Jun 21 14:38	30°R∏	
morning rise	13936 Jul 07 17:24	15° © 32'48		direct	13937 Jun 27 01:46	27° I I27'42	
direct	13936 Jul 13 08:41	13°9504'00			13937 Jul 03 07:27	0.ಪ	
desc. node	13936 Jul 18 09:43	14° © 38'57		desc. node	13937 Jul 05 06:59	1° 5 36'49	
morning max el	13936 Jul 24 20:58	19° © 57'42	24°33'10	morning max el	13937 Jul 07 08:00	3°533'09	23°03'43
<i>5</i>	13936 Aug 02 10:48	0°N		5	13937 Jul 27 13:22	0°N	
	13936 Aug 22 19:00	0° m)		morning set	13937 Aug 10 17:29	22° Ω 14'07	
morning set	13936 Aug 29 12:49	11° m 23'23		max. Earth dist.	13937 Aug 15 01:37	29° Ω 33'22	1.39943 AU
max. Earth dist.	13936 Sep 02 03:02	17° m 46'46	1.37587 AU		13937 Aug 15 07:49	0° m/y	
	13936 Sep 08 15:52	0∘ <u>⊽</u>			-	-	
	-			superior conj	13937 Aug 22 20:22	13° m 22'29	-0°56'17
superior conj	13936 Sep 09 03:33	0° ჲ 56'26	-0°21'07	minimum elong	13937 Aug 23 00:34	13° m 41'47	0°56'01
minimum elong	13936 Sep 09 04:58	1° ≏ 03'18	0°20'57	asc. node	13937 Aug 29 07:17	25° m 28'52	
asc. node						00.0	
	13936 Sep 11 10:44	5° ≙ 25'54			13937 Aug 31 15:56	0∘ ⊽	
evening rise	13936 Sep 11 10:44 13936 Sep 17 16:21	5° £ 25'54 17° £ 51'36		evening rise	13937 Aug 31 15:56 13937 Sep 01 11:29	1° £ 33'36	
evening rise	-	17° £ 51'36 0° M		evening rise evening max el	•	1° £ 33'36 27° £ 26'03	18°32'51
evening rise	13936 Sep 17 16:21	17° ≏ 51'36	19°18'16	-	13937 Sep 01 11:29	1° ჲ 33'36	18°32'51

retrograde	13937 Sep 25 10:21	1° M 27'04		asc. node	13938 Aug 16 03:52	15° m 23'44	
evening set	13937 Sep 27 09:29	1°ML13'07		asc. node	13938 Aug 24 10:03	0° ⊡	
evening sec	13937 Sep 27 03:23 13937 Sep 30 11:48	30°R ≏		evening max el	13938 Aug 31 21:13	ა — 10° ჲ 10'54	18°08'14
desc. node	13937 Oct 01 03:24	29° ₽ 37'59		retrograde	13938 Sep 07 20:53	13° £ 44'52	10 00 1 .
inferior conj	13937 Oct 05 06:39	26° £ 43'47	-1°18'53	evening set	13938 Sep 10 02:56	13° ≏ 23'04	
minimum elong	13937 Oct 05 03:31	26° ≏ 49'50	1°17'14	inferior conj	13938 Sep 17 05:52	8° £ 33'07	0°14'45
min. Earth dist.	13937 Oct 08 11:36	24° £ 16'16	0.57562 AU	minimum elong	13938 Sep 17 06:22	8° ≏ 32'01	0°14'37
morning rise	13937 Oct 12 18:03	21° ≏ 34'28		transit middle	13938 Sep 17 06:22	8° ≏ 32'01	0°14'37
direct	13937 Oct 18 19:33	20° ≙ 01'54		transit begin	13938 Sep 17 04:55	8° ≙ 35'15	
morning max el	13937 Nov 02 02:37	27° ≏ 33'04	26°54'51	transit end	13938 Sep 17 07:49	8° ≏ 28'46	
	13937 Nov 04 11:55	0° M ₊		desc. node	13938 Sep 18 00:57	7° ≙ 50'03	
	13937 Nov 24 12:56	0° ∡ ¹		min. Earth dist.	13938 Sep 20 12:13	5° ≏ 38'29	0.59754 AU
asc. node	13937 Nov 25 09:01	1° ∡ ³35′26		morning rise	13938 Sep 24 06:29	2° £ 50'57	
morning set	13937 Dec 01 22:49	14° ∡ 757'45		direct	13938 Sep 30 18:39	0° £ 51'12	
				morning max el	13938 Oct 15 02:03	8° ≏ 40'51	27°45'53
superior conj	13937 Dec 08 18:49	0° ට 01'06	1°35'41		13938 Oct 31 09:40	0° M ₊	
minimum elong	13937 Dec 08 17:52	29° ∡ 55'52	1°36'41	asc. node	13938 Nov 12 05:50	21°M09'55	
	13937 Dec 08 18:37	0°る 		morning set	13938 Nov 16 04:41	29°M15'08	
max. Earth dist.	13937 Dec 09 02:15	0°る42'39	1.31253 AU		13938 Nov 16 13:11	0° ⊼	
evening rise	13937 Dec 15 14:56	15° る 01'52		max. Earth dist.	13938 Nov 22 10:15	12° ∡ ¹48'58	1.31200 AU
1 1	13937 Dec 23 02:12	0°≈			12020 N 22 07 14	1.40 7.40120	1027127
desc. node	13937 Dec 28 01:10	8° ≈ 49'36 0° 米		superior conj	13938 Nov 23 06:14	14° 🗷 40'20	1°27'27
avanina may al	13938 Jan 12 03:24 13938 Jan 15 07:49	3° 升 15'42	27904147	minimum elong	13938 Nov 23 04:28	14° х 30′29 29° х 28′48	1°28'15
evening max el retrograde	13938 Jan 29 07:15	10°\dagger 30'08	2/ 044/	evening rise	13938 Nov 29 23:03 13938 Nov 30 04:51	29 x・2848	
evening set	13938 Feb 05 01:10	8° X 30'08		desc. node	13938 Nov 30 04:31 13938 Dec 14 22:07	27° る 38'03	
min. Earth dist.	13938 Feb 03 01:10 13938 Feb 08 22:09	5° X 50'16	0.60037 AU	desc. Hode	13938 Dec 14 22:07 13938 Dec 16 11:00	27 ⊙ 38 03	
inferior conj	13938 Feb 12 02:43	3° ∺ 12'32		evening max el	13938 Dec 10 11:00 13938 Dec 28 05:17	0 ~ 14° ≈ 32'40	26°02'50
minimum elong	13938 Feb 12 09:07	2° H 59'19		retrograde	13939 Jan 11 03:56	21°≈36'25	20 02 30
mmmum viong	13938 Feb 16 09:46	30°R≈	2 02 .2	evening set	13939 Jan 17 09:29	20°≈04'40	
morning rise	13938 Feb 19 20:17	28° ≈ 27'17		min. Earth dist.	13939 Jan 21 18:28	17°≈27'41	0.57898 AU
asc. node	13938 Feb 21 07:05	28°≈12'26		inferior conj	13939 Jan 24 19:22	15°≈17'20	
direct	13938 Feb 21 21:29	28° ≈ 11'01		minimum elong	13939 Jan 25 04:08	15° ≈ 01'36	4°16'03
	13938 Feb 27 01:53	0°) €		morning rise	13939 Feb 02 01:44	10° ≈ 53'41	
morning max el	13938 Mar 01 07:35	1° ¥ 52'59	18°03'21	direct	13939 Feb 04 02:51	10° ≈ 40′08	
morning set	13938 Mar 16 21:30	26°) €28'03		asc. node	13939 Feb 08 04:31	11° ≈ 36'59	
	13938 Mar 18 19:12	0° Υ		morning max el	13939 Feb 12 14:57	14° ≈ 50′21	18°39'35
desc. node	13938 Mar 26 03:01	13° Y 21′29			13939 Feb 23 01:41	0° ∀	
				morning set	13939 Feb 28 16:55	10°) 39′03	
superior conj	13938 Mar 26 21:58	14° Y 45'39	-0°06'20				
minimum elong	13938 Mar 26 21:26	14° Ƴ 43'18	0°06'25	superior conj	13939 Mar 09 12:51	27° ∺ 36′29	0°27'44
behind sun begin	13938 Mar 26 14:13	14° Ƴ 11'16		minimum elong	13939 Mar 09 14:40	27°) 44′57	0°27'35
behind sun end	13938 Mar 27 04:40	15° Y 15'15			13939 Mar 10 19:43	0°Υ	
max. Earth dist.	13938 Apr 03 12:21	27° Y 49′09	1.42092 AU	desc. node	13939 Mar 12 23:32	3° Y 57′10	
	13938 Apr 04 19:54	0°8		max. Earth dist.	13939 Mar 16 20:07	10° Y 48′56	1.39925 AU
evening rise	13938 Apr 08 20:38	6° 8 32'56		evening rise	13939 Mar 20 21:51	17° Y 46′59	
	13938 Apr 24 07:25	0°II	22025110		13939 Mar 28 10:52	0° B	
evening max el	13938 May 12 02:28	22° Ⅱ 42'58 28° Ⅱ 17'34	22°35'10	avanina may al	13939 Apr 18 18:29	0°Ⅱ 6°Ⅱ35'47	23°56'20
asc. node	13938 May 20 03:44	28° I 33'20		evening max el	13939 Apr 24 16:56 13939 May 05 18:43	13° Ц 06'00	23 30 20
retrograde evening set	13938 May 22 00:29 13938 May 26 21:03	26° I 31'13		retrograde asc. node	13939 May 03 18.43 13939 May 07 01:01	13 Ⅱ 06 00 12° Ⅱ 58'54	
inferior conj	13938 Jun 01 04:16	20° I 131'13	2°56'06	evening set	13939 May 07 01:01 13939 May 11 02:50	12 ∏ 58 54 10° ∏ 50'43	
minimum elong	13938 Jun 01 04:10	20° I 13'57	2°54'52	min. Earth dist.	13939 May 15 19:25	5° I 23'23	0.68707 AU
min. Earth dist.	13938 May 31 22:55	20° I I27'26	0.68966 AU	inferior conj	13939 May 16 13:23	4° Ⅱ 22'10	2°32'56
morning rise	13938 Jun 06 08:24	13° I 57'48	0.00700710	minimum elong	13939 May 16 11:22	4° Ⅱ 29'01	2°31'35
direct	13938 Jun 10 22:30	12° Ⅱ 03'21			13939 May 20 00:33	30°R₩	2 3130
morning max el	13938 Jun 19 22:12		21°37'03	morning rise	13939 May 21 19:55	28° 8 19'01	
desc. node	13938 Jun 22 04:08	19° Ⅱ 40'18	-	direct	13939 May 25 21:39	26° 8 45'00	
	13938 Jun 30 08:43	0ಂಣ			13939 Jun 01 11:54	0°II	
	13938 Jul 20 14:57	0°N		morning max el	13939 Jun 02 18:27	1° Ⅱ 11'37	20°20'05
morning set	13938 Jul 21 21:16	1° Ω 59'40		desc. node	13939 Jun 09 01:10	8° Ⅱ 31'55	
max. Earth dist.	13938 Jul 28 04:15	12° Ω 09'25	1.42180 AU		13939 Jun 24 00:58	0ಂಣ	
				morning set	13939 Jul 01 04:29	10° © 53'22	
superior conj	13938 Aug 04 17:46	24° Ω 56′18	-1°30'35	max. Earth dist.	13939 Jul 10 13:46	25°537'36	1.44035 AU
minimum elong	13938 Aug 05 00:33	25° Ω 25'40	1°30'27		13939 Jul 13 06:59	$0^{\circ}\Omega$	
	13938 Aug 07 15:10	0° m					
evening rise	13938 Aug 15 18:49	14° Mp 42'26		superior conj	13939 Jul 16 16:12	5° Ω 31'34	-1°58'30

minimum elong	13939 Jul 16 23:06	6° Ω 00'00	1°58'55	minimum elong	13940 Jun 25 17:46	15° © 18'23	2°13'58
evening rise	13939 Jul 29 09:36	27° Ω 06'49	1 3033	minimum crong	13940 Jul 04 21:14	0°Ω	2 13 30
3	13939 Jul 31 01:31	0° m)		evening rise	13940 Jul 10 02:40	8° Ω 34'21	
asc. node	13939 Aug 03 00:31	5° m 06'37		asc. node	13940 Jul 19 21:12	24° Ω 31'50	
evening max el	13939 Aug 15 11:04	23°M/24'11	18°02'58		13940 Jul 23 11:46	0° m	
retrograde	13939 Aug 21 22:14	26°M 45'20		evening max el	13940 Jul 29 01:24	6° ™ 56'07	18°16'06
evening set	13939 Aug 24 12:31	26° My $12'02$		retrograde	13940 Aug 04 10:04	10° m 18'38	
inferior conj	13939 Aug 30 23:31	21°Mp02'56	1°26'49	evening set	13940 Aug 07 08:55	9° m 31'10	
minimum elong	13939 Aug 31 01:43	20° Mp 57'18	1°25'48	inferior conj	13940 Aug 13 07:32	4° Mp 04'59	
min. Earth dist.	13939 Sep 02 22:03	18° Mp 03'00	0.62049 AU	minimum elong	13940 Aug 13 09:58	3° m 58'00	2°16'25
desc. node	13939 Sep 04 22:29	16° m 11'38		min. Earth dist.	13940 Aug 15 17:26	1° m 19'36	0.64192 AU
morning rise	13939 Sep 06 12:27	14° Mp 57'41			13940 Aug 16 23:10	30°R€	
direct	13939 Sep 13 04:47	12° Tp 35'52	27057150	morning rise	13940 Aug 19 09:29	27° Ω 46'21	
morning max el	13939 Sep 27 07:53	20° ™ 35'13 0° ₽	27°57'58	desc. node	13940 Aug 21 20:00	26° Ω 11'48	
	13939 Oct 05 10:58 13939 Oct 24 10:22	0° ™		direct	13940 Aug 25 23:48 13940 Sep 05 07:28	25° Ω 10′56 0° m	
asc. node	13939 Oct 24 10.22 13939 Oct 30 02:35	10°M59'55		morning max el	13940 Sep 03 07.28 13940 Sep 08 17:46	3° Mg 10'03	27033123
morning set	13939 Oct 30 02:35 13939 Oct 31 04:45	13°M 13'06		morning max cr	13940 Sep 28 20:48	0∘ ⊽	27 33 23
max. Earth dist.	13939 Nov 05 15:08	24°M43'59	1.31684 AU	morning set	13940 Oct 13 20:34	0 = 26° £ 45'57	
max. Earth dist.	15757 1101 05 15.00	24 IIU433)	1.51004710	morning set	13940 Oct 15 20:34 13940 Oct 15 11:22	0°M	
superior conj	13939 Nov 07 15:50	29°M10'48	1°13'26	asc. node	13940 Oct 15 23:15	1°ML00'11	
minimum elong	13939 Nov 07 13:36	28°M58'29	1°13'58	max. Earth dist.	13940 Oct 18 13:16	6°M20'15	1.32709 AU
	13939 Nov 08 00:45	0° ⊼ ¹					
evening rise	13939 Nov 14 09:35	14° ∡ °00′16		superior conj	13940 Oct 21 21:35	13° M 27'01	0°53'42
C	13939 Nov 22 06:44	8°0		minimum elong	13940 Oct 21 19:24	13°M15'12	0°53'58
desc. node	13939 Dec 01 19:11	15° る 35'32		evening rise	13940 Oct 28 20:40	28°M31'27	
evening max el	13939 Dec 09 18:47	25° පි 01'12	24°33'19		13940 Oct 29 13:17	0° ∡ ¹	
	13939 Dec 16 11:21	0° ≈			13940 Nov 15 16:40	ರ°0	
retrograde	13939 Dec 23 11:53	1° ≈ 51'30		desc. node	13940 Nov 17 16:21	2° る 23'17	
evening set	13939 Dec 28 18:51	0° ≈ 49'52		evening max el	13940 Nov 20 04:39	5° る 02'24	22°51'08
	13939 Dec 30 16:59	30°Ŗ₹		retrograde	13940 Dec 03 06:53	11° る 32'19	
min. Earth dist.	13940 Jan 03 06:32		0.56077 AU	evening set	13940 Dec 07 06:17	10° る 57'55	
inferior conj	13940 Jan 05 15:12	26° ප 32'13		min. Earth dist.	13940 Dec 14 13:27	7° る 37'35	0.54860 AU
minimum elong	13940 Jan 05 22:39	26°る20'34	5°25'56	inferior conj	13940 Dec 15 16:18	6°る59'24	
morning rise	13940 Jan 14 04:27	22° る 29'16		minimum elong	13940 Dec 15 16:32	6° る 59'04	5°56'58
direct	13940 Jan 16 13:10	22°る14'12 26°る39'35		morning rise	13940 Dec 24 04:11	3° る 10'53	
asc. node	13940 Jan 26 01:54 13940 Jan 26 11:06	26°639'33 27° る 01'24	10020107	direct morning max el	13940 Dec 27 05:38	2°る49'12 8°る18'32	20°59'48
morning max el	13940 Jan 26 11:06 13940 Jan 29 04:24	2/° 5 01′24 0° ≈	19°38'07	C	13941 Jan 07 17:02 13941 Jan 11 23:12	8°618'32 13° 6 05'02	20°59'48
morning set	13940 Jan 29 04.24 13940 Feb 12 20:17	0 ≈ 25°≈09'49		asc. node	13941 Jan 22 07:16	0°≈	
morning set	13940 Feb 15 05:43	0° ∺		morning set	13941 Jan 27 04:43	0 ∞ 9° ≈ 51'56	
	13710100 13 03.13	۰۸		morning sec	13711 0411 27 01.13) ·• 3130	
superior conj	13940 Feb 20 19:20	11°) 09'17	0°55'16	superior conj	13941 Feb 03 13:21	25° ≈ 12'53	1°15'47
minimum elong	13940 Feb 20 22:01	11°) 22′29	0°55'18	minimum elong	13941 Feb 03 15:52		1°16'11
max. Earth dist.	13940 Feb 27 02:33	23° ¥ 10'49	1.37667 AU		13941 Feb 05 21:44	0° ∀	
desc. node	13940 Feb 27 20:01	24°) 31′04		max. Earth dist.	13941 Feb 08 11:52	5° ¥ 08'36	1.35548 AU
evening rise	13940 Mar 01 19:37	29° ¥ 53′11		evening rise	13941 Feb 12 11:04	12°) 43′29	
	13940 Mar 01 21:09	0° Y		desc. node	13941 Feb 13 16:33	14°) ₹ 59'46	
	13940 Mar 20 17:41	$0^{\circ}S$			13941 Feb 22 08:14	0° Y	
evening max el	13940 Apr 06 06:32	_	25°14'00		13941 Mar 15 18:14	$0^{\circ}S$	
retrograde	13940 Apr 18 08:42	27° 8 29'54		evening max el	13941 Mar 19 20:10	4° 8 18'30	26°20'47
asc. node	13940 Apr 22 22:22	26° 8 01'16		retrograde	13941 Apr 01 17:38	11° 8 38'22	
evening set	13940 Apr 24 04:26	25° 8 04'22		evening set	13941 Apr 08 00:07	9° 8 06'51	
min. Earth dist.	13940 Apr 28 13:26	20° 8 13'16	0.67994 AU	asc. node	13941 Apr 09 19:47	7° 8 25'44	0.66040.477
inferior conj	13940 Apr 29 19:59	18° 8 33'47	1°59'23	min. Earth dist.	13941 Apr 12 02:53	4° 8 50'53	0.66848 AU
minimum elong	13940 Apr 29 17:50	18° 8 40'47	1°58'02	inferior conj	13941 Apr 13 22:01	2° 8 39'17	1°14'57 1°13'51
morning rise direct	13940 May 05 07:35 13940 May 08 21:37	12° 8 39'51		minimum elong	13941 Apr 13 20:18 13941 Apr 16 04:17	2° 8 44'31 30° ₹Υ	1 1331
morning max el	13940 May 08 21:37 13940 May 15 22:12	15° 8 16'41	19°17'01	morning rise	13941 Apr 16 04:17 13941 Apr 19 17:23	30° ₹ ¶ 26° Y 56'11	
desc. node	13940 May 15 22:12 13940 May 25 22:03	27° 8 58'03	17 1/01	direct	13941 Apr 19 17.23 13941 Apr 22 20:39	26° Υ 00'47	
desc. Houe	13940 May 27 07:34	27 О 38 03		morning max el	13941 Apr 29 08:55	29° Υ 28'38	18°29'55
greatest brilliancy	13940 May 28 16:47	2° ∏ 02'29	-0.7m		13941 Apr 29 21:28	0°8	10 27 00
morning set	13940 Jun 09 07:21	19° Ⅱ 40'51	******	desc. node	13941 May 12 18:49	17° 8 49'28	
3	13940 Jun 15 23:30	0°©		morning set	13941 May 20 02:55	29° 8 20'30	
max. Earth dist.	13940 Jun 22 05:32	9°545'58	1.45299 AU	Č	13941 May 20 12:56	0°II	
					-		
superior conj	13940 Jun 25 15:40	15° © 10'03	-2°12'57	superior conj	13941 Jun 05 00:47	24° Ⅱ 16′30	-2°08'06

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	12042 A 12 02.59	2200020117			12044 A 05 22.02	2500007145	0020117
morning set	13943 Apr 13 03:58	22° Y 38'17		superior conj	13944 Apr 05 23:02	25° ℃ 07'45	
desc. node	13943 Apr 16 12:06	28° Y 21'38		minimum elong	13944 Apr 05 20:26	24° Y 56'36	0°28'13
	13943 Apr 17 11:12	0°8			13944 Apr 08 19:47	0°8	
				max. Earth dist.	13944 Apr 13 06:25	7° 8 21'57	1.43205 AU
superior conj	13943 Apr 25 17:45	13° 8 48'39		evening rise	13944 Apr 19 20:07	17° 8 52'25	
minimum elong	13943 Apr 25 10:59	13° 8 20'58	1°07'43		13944 Apr 27 18:02	0° Ⅱ	
max. Earth dist.	13943 May 01 15:12	23° 8 18'45	1.44739 AU		13944 May 19 17:54	0 \circ \odot	
	13943 May 05 21:03	0°П		evening max el	13944 May 21 17:54	2° © 06'52	21°49'37
evening rise	13943 May 11 01:17	8° Ⅱ 00′38		asc. node	13944 May 27 09:00	6° © 32'24	
	13943 May 25 18:28	0		retrograde	13944 May 30 23:27	7° © 31'11	
evening max el	13943 Jun 08 21:55	18° © 16'20	20°36'17	evening set	13944 Jun 04 13:36	5° © 37'46	
asc. node	13943 Jun 10 11:52	19° © 45'40			13944 Jun 09 08:30	30°RⅡ	
retrograde	13943 Jun 17 01:17	22° © 57'49		inferior conj	13944 Jun 09 19:48	29° Ⅱ 20′36	
evening set	13943 Jun 21 04:31	21°520'46		minimum elong	13944 Jun 09 18:46	29° Ⅱ 24'13	3°03'38
inferior conj	13943 Jun 26 10:39	15° © 14'02	3°11'40	min. Earth dist.	13944 Jun 09 21:53	29° Ⅱ 13'18	0.68911 AU
minimum elong	13943 Jun 26 10:32	15° © 14'25	3°10'37	morning rise	13944 Jun 14 23:44	23° Ⅱ 05'47	
min. Earth dist.	13943 Jun 27 02:04	14° © 20'56	0.68414 AU	direct	13944 Jun 19 21:17	20° Ⅱ 59'56	
morning rise	13943 Jul 01 16:16	8° © 53'21		desc. node	13944 Jun 29 09:27	26° Ⅱ 31'11	
direct	13943 Jul 07 02:25	6° 5 30'14		morning max el	13944 Jun 29 14:02	26° Ⅱ 42'39	22°25'58
desc. node	13943 Jul 13 12:13	9° 5 03'11			13944 Jul 02 15:04	0 \circ \odot	
morning max el	13943 Jul 18 02:14	13° © 04'49	23°55'16		13944 Jul 24 07:14	0 $^{\circ}$ Ω	
	13943 Jul 31 18:09	0 $^{\circ}$ Ω		morning set	13944 Aug 02 02:20	13° Ω 51'19	
	13943 Aug 20 06:47	0° ™		max. Earth dist.	13944 Aug 07 02:27	22° Ω 08'01	1.40933 AU
morning set	13943 Aug 22 08:17	3°₩29'20			13944 Aug 11 16:30	0° m p	
max. Earth dist.	13943 Aug 26 02:34	10° Mp 01'32	1.38583 AU				
				superior conj	13944 Aug 14 22:35	5°M/45'16	-1°11'13
superior conj	13943 Sep 02 13:30	23°M/40'36	-0°35'53	minimum elong	13944 Aug 15 04:00	6° ™ 09'31	1°10'57
minimum elong	13943 Sep 02 16:03	23° m 52'38	0°35'39	asc. node	13944 Aug 23 09:27	21°Mp18'18	
	13943 Sep 05 20:42	0∘ ⊽		evening rise	13944 Aug 25 03:10	24° Mp 34'06	
asc. node	13943 Sep 06 12:53	1° ≏ 18'39			13944 Aug 28 00:55	0∘ ⊽	
evening rise	13943 Sep 11 12:35	11° ≏ 05'36		evening max el	13944 Sep 10 01:51	20° ≏ 08'15	18°19'56
	13943 Sep 21 21:07	0° M		retrograde	13944 Sep 17 13:16	23° ≏ 55'51	
evening max el	13943 Sep 27 20:19	7° M 44'31	18°56'24	evening set	13944 Sep 19 15:15	23° ≏ 38'54	
retrograde	13943 Oct 06 13:04	12°M06'32		desc. node	13944 Sep 25 06:00	20° ≏ 33'26	
evening set	13943 Oct 08 10:03	11°M55'10		inferior conj	13944 Sep 27 04:30	19° ≙ 00'27	-0°36'42
desc. node	13943 Oct 09 08:28	11°M41'25		minimum elong	13944 Sep 27 03:08	19° ჲ 03'16	0°35'55
inferior conj	13943 Oct 16 17:28	7°M37'56	-2°20'11	min. Earth dist.	13944 Sep 30 11:23	16° ≙ 19'07	0.58465 AU
minimum elong	13943 Oct 16 11:33	7°M48'18	2°17'19	morning rise	13944 Oct 04 11:34	13° ≏ 36′29	
min. Earth dist.	13943 Oct 19 16:01	5° ™ 34'27	0.56472 AU	direct	13944 Oct 10 18:28	11° ≏ 52'15	
morning rise	13943 Oct 24 10:03	2°M50'35		morning max el	13944 Oct 25 01:57	19° ≏ 31'16	27°21'18
direct	13943 Oct 30 03:07	1°M33'17			13944 Nov 03 00:23	0° M	
morning max el	13943 Nov 13 07:05	8°M50'27	26°09'20	asc. node	13944 Nov 19 11:20	27°M12'56	
	13943 Nov 29 04:15	0° ∡			13944 Nov 20 21:11	0° ∡ ″	
asc. node	13943 Dec 03 14:27	7° ∡ 750'14		morning set	13944 Nov 24 23:02	8° ₹ 25'14	
morning set	13943 Dec 11 14:46	23° ∡ ′59'11					
	13943 Dec 14 08:59	0°る		superior conj	13944 Dec 01 20:56	23° ∡ ³36'49	1°32'53
		_		minimum elong	13944 Dec 01 19:36	23° ₹ 29'26	1°33'50
superior conj	13943 Dec 18 09:20	8° ろ 55'15		max. Earth dist.	13944 Dec 01 16:45	23°×13'28	1.31168 AU
minimum elong	13943 Dec 18 08:59	8° ප 53'16			13944 Dec 04 17:36	0°る	
max. Earth dist.	13943 Dec 19 08:25	11° ろ 03'28	1.31523 AU	evening rise	13944 Dec 08 15:09	8° る 31'02	
evening rise	13943 Dec 25 09:17	24° る 08'47			13944 Dec 19 15:16	0° ≈	
	13943 Dec 28 05:39	0° ≈		desc. node	13944 Dec 22 03:28	4°≈15'01	
desc. node	13944 Jan 05 06:34	15°≈03'45		evening max el	13945 Jan 07 08:44	25°≈32'00	26°42'28
	13944 Jan 14 18:15	0° ∀			13945 Jan 13 00:35	0° ∀	
evening max el	13944 Jan 26 06:29	13°) 44′13	27°25'08	retrograde	13945 Jan 21 07:49	2°) 41′08	
retrograde	13944 Feb 09 05:21	21° 米 03′31		evening set	13945 Jan 27 21:49	0° ∺ 53'31	
evening set	13944 Feb 16 02:04	18°) €53'42			13945 Jan 29 10:34	30°R≈	
min. Earth dist.	13944 Feb 19 20:46		0.61298 AU	min. Earth dist.	13945 Jan 31 22:36	28°≈15'50	0.59113 AU
inferior conj	13944 Feb 22 23:04	13° ¥ 17'19		inferior conj	13945 Feb 04 02:51	25°≈48'00	
minimum elong	13944 Feb 23 03:35	13°) €07'12	2°04'57	minimum elong	13945 Feb 04 10:29	25°≈33'09	3°28'26
asc. node	13944 Feb 29 12:13	8°) €37'31		morning rise	13945 Feb 12 02:17	21°≈11'36	
morning rise	13944 Mar 01 08:09	8°) 19'55		direct	13945 Feb 14 02:55	20°≈56'49	
direct	13944 Mar 03 11:32	8°) €00'25	1505	asc. node	13945 Feb 15 09:42	21°≈02'58	1004 555
morning max el	13944 Mar 10 10:53	11°) €31'10	17°51'46	morning max el	13945 Feb 21 22:43	24°≈49'19	18°16'07
	13944 Mar 22 19:39	0°Υ 5° W 53137			13945 Feb 26 05:35	0°) (40100	
morning set	13944 Mar 26 02:26	5°Υ53'37		morning set	13945 Mar 09 15:32	19°) (48′09	
desc. node	13944 Apr 02 08:39	18° Ƴ 52′26			13945 Mar 15 01:23	0° Y	

		••					
superior conj	13945 Mar 19 02:49	7° Y ′28′19	0°08'51	superior conj	13946 Mar 02 00:54	20°) 38′32	0°40'14
minimum elong	13945 Mar 19 03:29	7° Y 31'18	0°08'43	minimum elong	13946 Mar 02 03:14	20°) 49'41	0°40'09
behind sun begin	13945 Mar 18 21:12	7° Y ′02'51		desc. node	13946 Mar 07 01:37	0° Y 02'09	
behind sun end	13945 Mar 19 09:45	7° Ƴ 59'41			13946 Mar 07 01:09	0° Y	
desc. node	13945 Mar 20 05:09	9° Ƴ 27'03		max. Earth dist.	13946 Mar 08 23:48	3° Y 30'18	1.38964 AU
max. Earth dist.	13945 Mar 26 17:07	20° Ƴ 48'07	1.41205 AU	evening rise	13946 Mar 12 19:13	10° Ƴ 10′13	
evening rise	13945 Mar 31 09:05	28° Y 33'52			13946 Mar 25 02:22	0° 8	
	13945 Apr 01 06:16	0° ႘		evening max el	13946 Apr 16 23:21	29° 8 50'20	24°30'08
	13945 Apr 21 07:35	$\Pi^{\circ}0$			13946 Apr 17 03:16	Π° 0	
evening max el	13945 May 04 09:41	15° Ⅲ 58′05	23°09'36	retrograde	13946 Apr 28 12:04	6° Ⅱ 35'17	
asc. node	13945 May 14 06:15	22° Ⅲ 04'21		asc. node	13946 May 01 03:34	6° Ⅱ 04'33	
retrograde	13945 May 14 19:27	22° Ⅱ 05'43		evening set	13946 May 04 01:14	4° Ⅱ 14'53	
evening set	13945 May 19 21:02	19° Ⅲ 57′28		C	13946 May 07 21:04	30°R₩	
inferior conj	13945 May 25 05:27	13° Ⅲ 32′08	2°47'31	min. Earth dist.	13946 May 08 14:18	29° 8 03'13	0.68460 AU
minimum elong	13945 May 25 03:42	13° ∏ 38'11	2°46'12	inferior conj	13946 May 09 13:43	27° 8 44'44	2°19'59
min. Earth dist.	13945 May 24 18:39	14° ∏ 09'28	0.68921 AU	minimum elong	13946 May 09 11:35	27° 8 51'53	2°18'36
morning rise	13945 May 30 10:19	7° Ⅱ 24'36	0.00021710	morning rise	13946 May 14 22:06	21° 8 45'30	2 1030
direct	13945 Jun 03 19:07	5° Ⅱ 38'51		direct	13946 May 18 18:39	20° 8 20'27	
morning max el	13945 Jun 12 06:35		21°02'49	morning max el	13946 May 26 06:04	24° 8 30'21	19°51'21
Č		10 Д 3034 14° Д 56'41	21 02 49	morning max er	•	0°Ⅱ	19 31 21
desc. node	13945 Jun 16 06:32				13946 May 31 01:34		
	13945 Jun 27 10:31	0°©		desc. node	13946 Jun 03 03:29	4° Ⅱ 03'58	
morning set	13945 Jul 12 20:13	23°5511'22			13946 Jun 20 16:58	0°®	
	13945 Jul 17 03:43	0 ° Ω		morning set	13946 Jun 21 22:55	1°954'54	
max. Earth dist.	13945 Jul 20 08:30	5° {\langle 09'12	1.43033 AU	max. Earth dist.	13946 Jul 02 20:45	18° © 55'31	1.44649 AU
		_					
superior conj	13945 Jul 27 10:31	16° Ω 54'23		superior conj	13946 Jul 07 22:40	27° © 03'18	-2°06'42
minimum elong	13945 Jul 27 17:49	17° Ω 25′20	1°43'39	minimum elong	13946 Jul 08 04:12	27° © 25'39	2°07'26
	13945 Aug 03 23:54	0° m)			13946 Jul 09 18:14	$0^{\circ}\Omega$	
evening rise	13945 Aug 08 04:07	7° m 25'43		evening rise	13946 Jul 21 10:15	19° Ω 27'03	
asc. node	13945 Aug 10 06:04	11° m 08'39			13946 Jul 27 16:01	O° m y	
	13945 Aug 21 20:50	0∘ ⊽		asc. node	13946 Jul 28 02:44	0° m ∕ 44'34	
evening max el	13945 Aug 24 13:44	3° ჲ 05'54	18°03'39	evening max el	13946 Aug 08 04:06	16° Mp 27′27	18°06'20
retrograde	13945 Aug 31 06:53	6° ≏ 32'59		retrograde	13946 Aug 14 13:15	19° m 47'53	
evening set	13945 Sep 02 16:19	6° ≙ 06'41		evening set	13946 Aug 17 07:01	19° m 08'59	
inferior conj	13945 Sep 09 12:02	1° ഫ 08'00	0°48'05	inferior conj	13946 Aug 23 12:18	13° m 52'25	1°50'49
minimum elong	13945 Sep 09 13:28	1° ≏ 04'35	0°47'27	minimum elong	13946 Aug 23 14:43	13° m 45'50	1°49'40
	13945 Sep 10 16:22	30°R, Mp		min. Earth dist.	13946 Aug 26 05:52	10° m 56'15	0.62985 AU
desc. node	13945 Sep 12 03:32	28° m/36'39		morning rise	13946 Aug 29 20:21	7° m/40'02	
min. Earth dist.	13945 Sep 12 15:44	28° m 08'39	0.60728 AU	desc. node	13946 Aug 30 01:05	7° m)31'21	
morning rise	13945 Sep 16 07:40	25° m 14'36		direct	13946 Sep 05 12:21	5° m) 11'10	
direct	13945 Sep 22 22:12	23° m) 04'57		morning max el	13946 Sep 19 12:37	13° m 12'45	27°51'42
	13945 Oct 06 03:47	0∘ ⊽			13946 Oct 03 00:10	0ಂ ರ	_, -, -, -
morning max el	13945 Oct 07 04:35	ა – 0° ჲ 59'44	27°55'59		13946 Oct 20 18:09	0° m .	
morning max or	13945 Oct 28 05:48	0° ™	27 55 57	morning set	13946 Oct 23 23:33	6°M22'43	
asc. node	13945 Nov 06 08:06	16°M54'42		asc. node	13946 Oct 24 04:47	6°M49'09	
morning set	13945 Nov 09 02:43	22°M35'07		max. Earth dist.	13946 Oct 29 02:23	17°ML03'35	1.32048 AU
morning set	13945 Nov 12 14:15	0° √		max. Earth dist.	13940 OCt 29 02.23	17 11603 33	1.32048 AU
max. Earth dist.	13945 Nov 15 00:05		1.31337 AU	superior conj	13946 Oct 31 15:58	22°M37'07	1°05'45
max. Earth dist.	13943 NOV 13 00.03	3 X -103/	1.31337 AU	minimum elong	13946 Oct 31 13:38	22°M24'37	1°06'10
	12045 N 16 07-47	00.712145	1922112	minimum ciong			1 00 10
superior conj	13945 Nov 16 07:47	8° ₹ 12'45			13946 Nov 04 00:40	0° 🗷	
minimum elong	13945 Nov 16 05:46	8° ₹ 01'33	1°22′55	evening rise	13946 Nov 07 11:27	7° ∡ 731'19	
evening rise	13945 Nov 23 00:31	23°×700'20			13946 Nov 19 00:45	0°る	
	13945 Nov 26 08:00	0°₹		desc. node	13946 Nov 25 21:34	10°る13'56	
desc. node	13945 Dec 09 00:27	22° る 43'54		evening max el	13946 Dec 01 13:13	16° පි 37'53	23°50'18
	13945 Dec 14 06:42	0° ≈		retrograde	13946 Dec 15 01:56	23° ♂ 21'45	
evening max el	13945 Dec 20 02:26	6° ≈ 26′15	25°27'22	evening set	13946 Dec 19 20:02	22° ろ 32'31	
retrograde	13946 Jan 02 23:12	13° ≈ 24'59		min. Earth dist.	13946 Dec 26 00:15		0.55462 AU
evening set	13946 Jan 08 20:45	12° ≈ 05'31		inferior conj	13946 Dec 27 21:49	18° ろ 24'12	
min. Earth dist.	13946 Jan 13 14:45			minimum elong	13946 Dec 28 02:52	18° පි 16'40	5°45'35
inferior conj	13946 Jan 16 10:42	7° ≈ 31'37	-4°51'43	morning rise	13947 Jan 05 11:29	14° る 28'46	
minimum elong	13946 Jan 16 19:34	7° ≈ 16'40	4°48'36	direct	13947 Jan 08 01:59	14° る 11'46	
morning rise	13946 Jan 24 21:01	3° ≈ 17'30		morning max el	13947 Jan 18 16:14	19° る 16'51	20°10'11
direct	13946 Jan 27 00:20	3° ≈ 03'51		asc. node	13947 Jan 20 04:24	20° る 49'47	
asc. node	13946 Feb 02 07:06	5° ≈ 10'25			13947 Jan 26 21:20	0° ≈	
morning max el	13946 Feb 05 01:50	7° ≈ 28'17	19°01'40	morning set	13947 Feb 05 20:31	18° ≈ 44'28	
	13946 Feb 19 11:59	0° ∀			13947 Feb 11 08:15	0° ∀	
morning set	13946 Feb 21 14:42	4°) €08'26					

7°**ට**44'11

0°≈

13948 Jan 07 01:38

13948 Jan 19 14:18

asc. node

13948 Dec 23 22:46

13948 Dec 26 12:35

asc. node

25°**渘**¹36'55

0°る

morning set	13949 Jan 04 18:03	18° る 14'03		morning rise	13949 Nov 04 08:19	14°M20'03	
	13949 Jan 10 04:25	0° ≈		direct	13949 Nov 09 14:42	13° ™ 17'40	
				morning max el	13949 Nov 23 14:09	20° ™ 18'51	25°14'50
superior conj	13949 Jan 11 15:10	3° ≈ 08′20	1°33'20		13949 Dec 01 20:57	0° ∡	
minimum elong	13949 Jan 11 16:31	3° ≈ 15'35	1°34'10	asc. node	13949 Dec 10 19:50	14° ∡ 12'59	
max. Earth dist.	13949 Jan 14 13:24	9° ≈ 23'42	1.33116 AU		13949 Dec 18 20:48	0°ಕ	
evening rise	13949 Jan 19 09:20	19° ≈ 18'58		morning set	13949 Dec 20 05:49	2° る 55'53	
	13949 Jan 24 23:29	0° ∀				_	
desc. node	13949 Jan 25 15:19	1°) 12′06		superior conj	13949 Dec 27 00:09	17° る 47'35	1°37'53
	13949 Feb 13 02:33	0° Y		minimum elong	13949 Dec 27 00:25		1°38'55
evening max el	13949 Feb 22 16:01		27°23'00	max. Earth dist.	13949 Dec 28 15:50	21° る 25'46	1.31960 AU
retrograde	13949 Mar 08 06:57	18° Y ′24′26			13950 Jan 01 15:23	0° ≈	
evening set	13949 Mar 15 00:57	15° Ƴ 54'57		evening rise	13950 Jan 03 05:24	3° ≈ 18′13	
min. Earth dist.	13949 Mar 18 21:14	12° Y 24'59	0.64536 AU	desc. node	13950 Jan 12 12:03	21° ≈ 07'07	
inferior conj	13949 Mar 21 09:28	9° Y 43'19	-0°08'18		13950 Jan 17 18:16	0° ∀	
minimum elong	13949 Mar 21 09:43	9° Ƴ 42'39	0°08'16	evening max el	13950 Feb 05 02:51	23° ¥ 54′29	27°33'39
transit middle	13949 Mar 21 09:43	9° Y 42'39	0°08'16		13950 Feb 13 12:27	0° Y	
transit begin	13949 Mar 21 07:05	9° Y 49'45		retrograde	13950 Feb 18 23:48	1° Ƴ 18'44	
transit end	13949 Mar 21 12:21	9° Y 35'33			13950 Feb 24 04:07	30° Ŗ ₩	
asc. node	13949 Mar 21 19:49	9° Ƴ 15'32		evening set	13950 Feb 25 21:20	28° ¥ 59′06	
morning rise	13949 Mar 27 20:26	4° Υ 18'51		min. Earth dist.	13950 Mar 01 15:25	25° ¥ 56′23	0.62536 AU
direct	13949 Mar 30 10:30	3° Y 44'24		inferior conj	13950 Mar 04 13:47	23°) €07'46	-1°20'52
morning max el	13949 Apr 05 18:53	7° Y ′01'07	17°52'02	minimum elong	13950 Mar 04 16:31	23° ₭ 01'11	1°19'31
	13949 Apr 21 08:49	0°8		asc. node	13950 Mar 08 17:18	19°) 32′28	
morning set	13949 Apr 23 00:46	2° 8 46'56		morning rise	13950 Mar 11 14:27	17° ¥ 59'58	
desc. node	13949 Apr 23 17:40	3° 8 57'32		direct	13950 Mar 13 21:05	17°) 36′05	
	•			morning max el	13950 Mar 20 12:34	20° ¥ 58'32	17°46'41
superior conj	13949 May 06 16:13	25° 8 09'02	-1°29'44		13950 Mar 27 09:12	$0^{\circ}\mathbf{\Upsilon}$	
minimum elong	13949 May 06 07:38	24° 8 34'38	1°29'35	morning set	13950 Apr 05 12:05	15° Ƴ 30'35	
-	13949 May 09 17:24	$\Pi^{\circ}0$		desc. node	13950 Apr 10 14:16	24° Y ′23'48	
max. Earth dist.	13949 May 11 05:58	2° ∏ 24'18	1.45356 AU		13950 Apr 13 20:37	0° ႘	
evening rise	13949 May 22 13:10	19° Ⅱ 56′02			1		
C	13949 May 29 04:02	$0 \circ \mathfrak{S}$		superior conj	13950 Apr 17 07:33	5° 8 49'17	-0°51'07
greatest brilliancy	13949 Jun 06 09:55	12° © 14'32	-0.6m	minimum elong	13950 Apr 17 02:33	5° 8 28'25	0°50'56
asc. node	13949 Jun 17 17:16	26°959'53		max. Earth dist.	13950 Apr 23 23:20	16° 8 42'41	1.44150 AU
evening max el	13949 Jun 18 08:48	27° © 39'46	19°58'57	evening rise	13950 May 02 01:39	29° 8 27'05	
3	13949 Jun 21 00:35	$0^{\circ}\Omega$		3	13950 May 02 10:11	0°II	
retrograde	13949 Jun 25 22:55	1° Ω 58'36			13950 May 22 21:06	0°©	
evening set	13949 Jun 29 20:20	0° Ω 31′02		evening max el	13950 Jun 01 07:44	11° © 29'26	21°06'17
3	13949 Jun 30 11:39	30°Rூ		asc. node	13950 Jun 04 14:19	14°9521'52	
inferior conj	13949 Jul 05 03:32	24°930'54	3°10'35	retrograde	13950 Jun 09 21:52	16° © 29'09	
minimum elong	13949 Jul 05 04:00	24°9529'18	3°09'34	evening set	13950 Jun 14 05:39	14° © 44'52	
min. Earth dist.	13949 Jul 06 02:45	23° © 12'23	0.67919 AU	inferior conj	13950 Jun 19 11:30	8°533'12	3°10'05
morning rise	13949 Jul 10 11:19	18° © 07'57		minimum elong	13950 Jun 19 10:59	8°\$35'00	3°09'00
direct	13949 Jul 16 04:18	15° © 37'28		min. Earth dist.	13950 Jun 19 21:07	7° 9 59'47	0.68679 AU
desc. node	13949 Jul 20 17:24	16°954'41		morning rise	13950 Jun 24 16:05	2° © 14'43	
morning max el	13949 Jul 27 20:55		24°46'17	5 5	13950 Jun 29 08:06	30°RⅡ	
Ü	13949 Aug 03 08:24	$0^{\circ}\Omega$		direct	13950 Jun 29 20:48	29° Ⅲ 58'42	
	13949 Aug 24 02:39	0° m/			13950 Jun 30 09:39	0°ಅ	
morning set	13949 Sep 01 15:08	14° m) 22'00		desc. node	13950 Jul 07 14:41	3° © 40'41	
max. Earth dist.	13949 Sep 05 04:57	20° m 46'43	1.37238 AU	morning max el	13950 Jul 10 07:45	6°5512'08	23°17'04
	13949 Sep 10 03:08	0∘ <u>v</u>		Ü	13950 Jul 28 18:20	$0^{\circ}\Omega$	
	1			morning set	13950 Aug 13 23:23	25° Ω 22'06	
superior conj	13949 Sep 12 01:06	3° ≏ 42'18	-0°15'56	Ü	13950 Aug 16 17:12	0° m)	
minimum elong	13949 Sep 12 02:09	3° Ω 47'24		max. Earth dist.	13950 Aug 18 03:03		1.39592 AU
behind sun begin	13949 Sep 12 00:45	3° Ω 40'34					
behind sun end	13949 Sep 12 03:33	3° ≏ 54'15		superior conj	13950 Aug 25 20:26	16° m 14'59	-0°50'55
asc. node	13949 Sep 13 18:32	7° Ω 05'46		minimum elong	13950 Aug 26 00:12	16° m/32'23	
evening rise	13949 Sep 20 10:37	20° ჲ 28'02		asc. node	13950 Aug 31 15:07	27° m 09'25	
<i>3</i> - <i>7</i>	13949 Sep 25 07:00	0°M			13950 Sep 02 02:35	0∘ ⊽	
evening max el	13949 Oct 07 08:32	18°M15'37	19°26'56	evening rise	13950 Sep 02 02:33	ە <u>~</u> 4° ي 13'39	
retrograde	13949 Oct 16 22:34	23°M03'25		<i>5</i>	13950 Sep 01 07:10	0°M	
desc. node	13949 Oct 16 13:34	23°M 03'00		evening max el	13950 Sep 20 02:20	0°M15'38	18°38'16
evening set	13949 Oct 18 19:33	22°M53'13		retrograde	13950 Sep 28 11:44	4°M21'43	
inferior conj	13949 Oct 27 11:31	18°M46'17	-3°23'01	evening set	13950 Sep 20 11:44 13950 Sep 30 10:05	4°M08'37	
minimum elong	13949 Oct 27 03:00	19°M.00'02		desc. node	13950 Oct 03 11:03	2°M59'57	
min. Earth dist.	13949 Oct 29 22:18		0.55569 AU	inferior conj	13950 Oct 08 10:01	29° Ω 42'33	-1°34'38
dibt.	2, 1, 000 2, 22.10	110-11-27			10.01	2 33	

minimum elong	13950 Oct 08 06:10	29° ≏ 49'47	1°32'39	evening set	13951 Sep 13 00:33	16° ≙ 11'45	
g	13950 Oct 08 00:43	30°R ≏	1 3237	inferior conj	13951 Sep 20 06:08	11° ≏ 24'49	0°01'55
min. Earth dist.	13950 Oct 11 13:48	27° ₽ 20'39	0.57265 AU	minimum elong	13951 Sep 20 06:12	11° ≏ 24'40	0°01'59
morning rise	13950 Oct 15 22:49	24° ₽ 38'44		transit middle	13951 Sep 20 06:12	11° ≏ 24'40	0°01'59
direct	13950 Oct 21 22:18	23° ₽ 10'04		transit begin	13951 Sep 20 02:49	11° ≏ 32'04	
	13950 Nov 04 12:44	0° M		transit end	13951 Sep 20 09:34	11° Ω 17'14	
morning max el	13950 Nov 05 04:49	0°M38'05	26°44'03	desc. node	13951 Sep 20 08:35	11° ≏ 19'25	
S	13950 Nov 25 21:44	0° ∡ ¹		min. Earth dist.	13951 Sep 23 13:00	8° ≏ 32'53	0.59417 AU
asc. node	13950 Nov 27 16:48	3° ∡ ′21'17		morning rise	13951 Sep 27 08:27	5° ≏ 47'09	
morning set	13950 Dec 04 15:52	17° ∡ °29′04		direct	13951 Oct 03 19:35	3° ₽ 51'11	
	13950 Dec 10 08:29	ರ∘ರ		morning max el	13951 Oct 18 03:01	11° ≏ 38'16	27°40'46
					13951 Nov 01 12:46	0° M	
superior conj	13950 Dec 11 11:22	2° る 30'07	1°36'24	asc. node	13951 Nov 14 13:38	22°M52'50	
minimum elong	13950 Dec 11 10:34	2° る 25'42	1°37'26		13951 Nov 18 01:41	0° ∡ ¹	
max. Earth dist.	13950 Dec 11 22:47	3°₹33'50	1.31306 AU	morning set	13951 Nov 18 22:25	1° ∡ ¹48'53	
evening rise	13950 Dec 18 08:20	17° る 33'39					
	13950 Dec 24 12:04	0° ≈		superior conj	13951 Nov 25 22:53	17° ∡ 10′16	1°29'03
desc. node	13950 Dec 30 08:52	10° ≈ 36'55		minimum elong	13951 Nov 25 21:14	17° ∡ *01'01	1°29'55
	13951 Jan 12 15:45	0° ∀		max. Earth dist.	13951 Nov 25 06:58	15° ∡ ¹41'26	1.31171 AU
evening max el	13951 Jan 18 08:51	6° ₩ 10'17	27°11'09		13951 Dec 01 17:47	0°ರ	
retrograde	13951 Feb 01 08:22	13° ¥ 26′20		evening rise	13951 Dec 02 15:56	1° る 59'44	
evening set	13951 Feb 08 03:11	11° ¥ 24'51		desc. node	13951 Dec 17 05:48	29° る 31'57	
min. Earth dist.	13951 Feb 11 23:20	8° ¥ 41'12	0.60361 AU		13951 Dec 17 12:52	0° ≈ ≈	
inferior conj	13951 Feb 15 03:33	6° ∺ 00'48	-2°42'48	evening max el	13951 Dec 31 07:44	17° ≈ 36′07	26°14'11
minimum elong	13951 Feb 15 09:28	5°) 48′20	2°40'02	retrograde	13952 Jan 14 06:41	24° ≈ 41′10	
morning rise	13951 Feb 22 18:58	1° ¥ 12'24		evening set	13952 Jan 20 14:40	23° ≈ 05′16	
asc. node	13951 Feb 23 14:48	1° ∺ 01'37		min. Earth dist.	13952 Jan 24 21:09	20° ≈ 28'32	0.58204 AU
direct	13951 Feb 24 20:33	0° ¥ 55'26		inferior conj	13952 Jan 27 23:15	18° ≈ 13'13	-4°07'16
morning max el	13951 Mar 04 03:39	4°) 34′18	17°59'42	minimum elong	13952 Jan 28 07:49	17° ≈ 57'32	4°03'49
morning set	13951 Mar 19 17:22	29° ∺ 03'47		morning rise	13952 Feb 05 03:58	13° ≈ 46′06	
	13951 Mar 20 05:34	0 ° Υ		direct	13952 Feb 07 04:43	13° ≈ 32′22	
desc. node	13951 Mar 28 10:46	14° Y 56'20		asc. node	13952 Feb 10 12:14	14° ≈ 10′58	
				morning max el	13952 Feb 15 12:20	17° ≈ 37'48	18°32'45
superior conj	13951 Mar 29 22:47	17° Ƴ 35'25			13952 Feb 24 08:49	0° ∀	
minimum elong	13951 Mar 29 21:45	17° Ƴ 30'54	0°12'01	morning set	13952 Mar 02 11:17	13° 米 11′15	
behind sun begin	13951 Mar 29 16:27	17° Y ′07'35					
behind sun end	13951 Mar 30 03:03	17° Ƴ 54'11		superior conj	13952 Mar 11 10:56	0° Y 19′00	0°22'57
	13951 Apr 06 05:06	0 \circ 8		minimum elong	13952 Mar 11 12:30	0° Y 26′13	0°22'48
max. Earth dist.	13951 Apr 06 12:02	0° 8 28'44	1.42389 AU		13952 Mar 11 06:51	0° Υ	
evening rise	13951 Apr 12 03:15	9° 8 37'33		desc. node	13952 Mar 14 07:14	5° Ƴ 31'53	
	13951 Apr 25 12:18	Π °0		max. Earth dist.	13952 Mar 18 20:36	13° Ƴ 35'55	1.40265 AU
evening max el	13951 May 15 01:33	25° Ⅱ 19'32	22°23'15	evening rise	13952 Mar 23 01:19	20° Y 43'34	
	13951 May 20 23:43	0 \circ			13952 Mar 28 18:30	0°8	
asc. node	13951 May 22 11:29	0° © 38'45			13952 Apr 18 15:44	0°Щ	
retrograde	13951 May 24 19:22	1° 5 03'20		evening max el	13952 Apr 26 16:21	9° Ⅱ 12'02	23°44'17
	13951 May 28 07:24	30°RⅡ		retrograde	13952 May 07 14:01	15° Ⅱ 36'26	
evening set	13951 May 29 14:13	29° Ⅱ 03'31		asc. node	13952 May 08 08:44	15° Ⅲ 33'43	
inferior conj	13951 Jun 03 21:05	22° I I42'23	2°58'45	evening set	13952 May 12 20:27	13° Ⅱ 22'55	
minimum elong	13951 Jun 03 19:43		2°57'32	min. Earth dist.	13952 May 17 14:18		0.68781 AU
min. Earth dist.	13951 Jun 03 17:42	22° Ⅱ 54'15	0.68964 AU	inferior conj	13952 May 18 06:23	6° Ⅱ 55'11	2°37'07
morning rise	13951 Jun 09 01:04	16° Ⅱ 30'17		minimum elong	13952 May 18 04:26		2°35'46
direct	13951 Jun 13 17:07	14° Ⅱ 32'44	21040120	morning rise	13952 May 23 12:24	0° Ⅱ 50'51	
morning max el	13951 Jun 22 21:09	19° Ⅱ 53'55	21°49'28	1: 4	13952 May 24 18:56	30°R8	
desc. node	13951 Jun 24 11:49	21° Ⅱ 35'07		direct	13952 May 27 15:59	29° 8 13'42	
	13951 Jul 01 09:18	0°©			13952 May 30 17:27	0°Ⅱ 20Ⅲ4€127	20020141
	13951 Jul 21 22:31	0°Ω		morning max el	13952 Jun 04 16:18	3° Ⅱ 46'27	20°30'41
morning set	13951 Jul 25 06:48	5°Ω16'46	1 /10/0 ATT	desc. node	13952 Jun 10 08:50	10° Ⅱ 19'57 0° ©	
max. Earth dist.	13951 Jul 31 04:41	14 863302	1.41868 AU	morning sat	13952 Jun 24 07:00	0°ഇ 14° ഇ 15'29	
superior con-	13051 Aug 07 21:00	27° Ω 57'02	1925/20	morning set	13952 Jul 03 16:15 13952 Jul 12 13:21	28°9514'29	1.43796 AU
superior conj	13951 Aug 07 21:00	$28^{\circ} \Omega 25'19$		max. Earth dist.	13952 Jul 12 13:21 13952 Jul 13 15:34	28°9014'29 0°Ω	1.43/90 AU
minimum elong	13951 Aug 08 03:28 13951 Aug 09 01:01	0° m)	1 4341		13734 Jul 13 13.34	0 06	
asc. node	13951 Aug 09 01:01 13951 Aug 18 11:41	บ"แม 17° ก ับ 05'34		superior conj	13952 Jul 18 22:54	8° Ω 40'46	-1°54'58
evening rise	_	17° my 27'42		minimum elong	13952 Jul 18 22:34 13952 Jul 19 06:04	9° Ω 10'29	
evening rise	13951 Aug 18 16:29	1/°110/2/42 0° Ω		_	13952 Jul 19 06:04 13952 Jul 31 10:01	29° Ω 59'08	1 33 17
evening may al	13951 Aug 25 15:23		18010/38	evening rise			
evening max el retrograde	13951 Aug 25 15:25 13951 Sep 03 17:16 13951 Sep 10 19:35	12° £ 55'19 16° £ 32'12	18°10'38	asc. node	13952 Jul 31 10:13 13952 Jul 31 10:13 13952 Aug 04 08:17	0° my 6° my 50'20	

evening max el	13952 Aug 17 06:43	26° Mp 04'41	18°02'33	evening rise	13953 Jul 13 06:37	11° Ω 35'53	
retrograde	13952 Aug 23 19:02	29° m 26'51		asc. node	13953 Jul 22 05:00	26° Ω 18'42	
evening set	13952 Aug 26 08:06	28° m 55'24			13953 Jul 24 13:30	0° m y	
inferior conj	13952 Sep 01 21:15	23° m 48'50	1°17'18	evening max el	13953 Jul 31 21:09	9° m 34'12	18°13'00
minimum elong	13952 Sep 01 23:17	23° m 43'41	1°16'23	retrograde	13953 Aug 07 05:41	12° m 55'52	
min. Earth dist.	13952 Sep 04 21:16	20° m 48'31	0.61711 AU	evening set	13953 Aug 10 03:10	12° m) 10'42	
desc. node	13952 Sep 06 06:07	19° m 32'42	0.01711110	inferior conj	13953 Aug 16 03:23	6° Mp 46'50	2°11'07
morning rise	13952 Sep 08 00:07	17° Mp 46'26		minimum elong	13953 Aug 16 05:51	6° Mp 39'52	2°09'57
direct	13952 Sep 06 11:35 13952 Sep 15 04:00	15° M) 27'36		min. Earth dist.	13953 Aug 10 05:51 13953 Aug 18 15:19	3° m ₂ 58'12	0.63885 AU
	*	-	27050142		•	-•	0.03883 AU
morning max el	13952 Sep 29 08:01	23° m 25'44	21-3843	morning rise	13953 Aug 22 06:52	0° m/29'30	
	13952 Oct 05 05:17	ია დ			13953 Aug 22 22:46	30°R€	
	13952 Oct 24 19:42	0° M ₊		desc. node	13953 Aug 24 03:37	29° Ω 14'18	
asc. node	13952 Oct 31 10:21	12°M40'40		direct	13953 Aug 28 21:43	27° Ω 55'36	
morning set	13952 Nov 01 23:28	15°M49'52			13953 Sep 04 10:53	0° m)	
max. Earth dist.	13952 Nov 07 12:37	27°M38'55	1.31575 AU	morning max el	13953 Sep 11 17:34	5° m 55'42	27°39'12
	13952 Nov 08 14:20	0° ∡ ¹			13953 Sep 30 02:02	0∘ ত	
				morning set	13953 Oct 16 16:40	29° ≏ 26'53	
superior conj	13952 Nov 09 08:51	1° ∡ ¹42'11	1°15'56		13953 Oct 16 23:19	0° M .	
minimum elong	13952 Nov 09 06:40	1° ∡ °30′04	1°16'31	asc. node	13953 Oct 18 06:59	2°M39'37	
evening rise	13952 Nov 16 02:12	16° ∡ ³30'45		max. Earth dist.	13953 Oct 21 12:03	9° M ₊18'38	1.32523 AU
Č	13952 Nov 22 15:39	0°ಕ					
desc. node	13952 Dec 03 02:51	17° ට 38'11		superior conj	13953 Oct 24 15:19	16°ML00'40	0°57'05
evening max el	13952 Dec 05 02:51		24°47'56	minimum elong	13953 Oct 24 13:04	15°M48'33	0°57'22
evening max er	13952 Dec 11 22:13 13952 Dec 13 23:11	0°≈	24 47 50	minimum ciong	13953 Oct 24 13:04 13953 Oct 31 01:46	0° ⊼ ⊓	0 37 22
retrograde	13952 Dec 15 25:11 13952 Dec 25 16:23	5°≈03'15		evening rise	13953 Oct 31 13:19	1° ∡ ¹02'07	
•				evening rise		1 x 02 07 0°る	
evening set	13952 Dec 31 03:36	3°≈56'58	0.56210 ATT	1 1	13953 Nov 16 10:11		
min. Earth dist.	13953 Jan 05 10:07	1°≈11'00	0.56318 AU	desc. node	13953 Nov 20 00:01	4° る 37'43	22006122
	13953 Jan 07 06:54	30°₹ ⋜	5010112	evening max el	13953 Nov 23 07:58	8°る13'00	23°06'22
inferior conj	13953 Jan 07 22:11	29°₹35'33		retrograde	13953 Dec 06 13:19	14° ♂ 47'07	
minimum elong	13953 Jan 08 06:12	29° ろ 22'46	5°17'11	evening set	13953 Dec 10 17:44	14° පි 09'04	
morning rise	13953 Jan 16 10:57	25° පි 29'51		min. Earth dist.	13953 Dec 17 17:27	10° る 54'29	0.54992 AU
direct	13953 Jan 18 18:01	25° る 15'17		inferior conj	13953 Dec 19 01:34	10° る 08'20	
asc. node	13953 Jan 27 09:36	28° る 59'19		minimum elong	13953 Dec 19 03:10	10° る 06'01	5°55'53
	13953 Jan 28 11:55	0° ≈		morning rise	13953 Dec 27 14:09	6° る 18'35	
morning max el	13953 Jan 28 10:22	29° る 56'13	19°27'54	direct	13953 Dec 30 12:31	5° る 58'20	
morning set	13953 Feb 14 13:41	27° ≈ 39'45		morning max el	13954 Jan 10 18:31	11° る 21'13	20°46'18
	13953 Feb 15 17:37	0° ∀		asc. node	13954 Jan 14 06:52	15° る 12'50	
					13954 Jan 23 16:22	0° ≈	
superior conj	13953 Feb 22 15:24	13°) 46′21	0°51'31	morning set	13954 Jan 29 21:30	12° ≈ 20'15	
minimum elong	13953 Feb 22 18:01	13° ¥ 59'10	0°51'31	_			
max. Earth dist.	13953 Mar 01 03:07	26° ₩ 03'24	1.38005 AU	superior conj	13954 Feb 06 07:56	27° ≈ 45'52	1°13'07
desc. node	13953 Mar 01 03:44	26° ¥ 06'11		minimum elong	13954 Feb 06 10:31	27° ≈ 59'08	1°13'26
	13953 Mar 03 07:29	0° Y			13954 Feb 07 10:17	0°) €	
evening rise	13953 Mar 04 20:10	2° Υ 42'19		max. Earth dist.	13954 Feb 11 11:34	8° ₩ 02'36	1.35845 AU
evening rise	13953 Mar 21 21:48	0°8		evening rise	13954 Feb 15 09:12	15° ¥ 26'16	1.550 15 710
evening max el	13953 Apr 09 05:56	23° 8 05'18	25°02'51	desc. node	13954 Feb 16 00:16	16° ¥ 35'44	
evening max er	13953 Apr 09 05:30 13953 Apr 20 11:36	0°Ⅱ	23 02 31	desc. flode	13954 Feb 23 16:24	0° Υ	
ratra ara da	13953 Apr 20 11:30 13953 Apr 21 04:40	0° Д 01'59				0°8	
retrograde					13954 Mar 16 11:51		26011147
1	13953 Apr 21 21:28	30°R8		evening max el	13954 Mar 22 19:27	6° 8 55'12	26°11'47
asc. node	13953 Apr 25 06:05	28° 8 51'22		retrograde	13954 Apr 04 14:29	14° 8 13'18	
evening set	13953 Apr 26 22:45	27° 8 37'36		evening set	13954 Apr 10 19:28	11° 8 42'13	
min. Earth dist.	13953 May 01 08:46	22° 8 41'15		asc. node	13954 Apr 12 03:29	10° 8 29'37	
inferior conj	13953 May 02 13:28	21° 8 07'02	2°05'09	min. Earth dist.	13954 Apr 14 23:01	7° 8 21'11	0.67044 AU
minimum elong	13953 May 02 11:19	21° 8 14'07	2°03'47	inferior conj	13954 Apr 16 16:20	5° 8 13'42	1°22'24
morning rise	13953 May 08 00:10	15° 8 11'46		minimum elong	13954 Apr 16 14:31	5° 8 19'20	1°21'16
direct	13953 May 11 15:54	13° 8 55'04			13954 Apr 21 15:49	30° ₹Ƴ	
morning max el	13953 May 18 18:59	17° 8 50'07	19°25'23	morning rise	13954 Apr 22 10:24	29° Ƴ 28'56	
desc. node	13953 May 28 05:43	29° 8 41'15		direct	13954 Apr 25 15:08	28° Y 31'02	
	13953 May 28 10:58	$\Pi^{\circ}0$			13954 Apr 29 18:32	$0^{\circ}S$	
greatest brilliancy	13953 May 31 10:43	4° Ⅲ 20'37	-0.7m	morning max el	13954 May 02 04:49	2° 8 01'35	18°35'51
morning set	13953 Jun 12 18:23	23° 川 00'01		desc. node	13954 May 15 02:31	19° 8 29'14	
-	13953 Jun 17 07:15	0ಂತ			13954 May 21 20:26	$\Pi^{\circ}0$	
max. Earth dist.	13953 Jun 25 04:26		1.45152 AU	morning set	13954 May 23 10:26	2° Ⅱ 28'59	
				Ü	•		
superior conj	13953 Jun 29 01:27	18° 5 26'26	-2°11'55	superior conj	13954 Jun 08 11:48	27° Ⅲ 35′08	-2°10'10
	13953 Jun 29 01:27 13953 Jun 29 04:36	18° © 26'26 18° © 38'58		superior conj minimum elong	13954 Jun 08 11:48 13954 Jun 08 07:16		
superior conj minimum elong						27° Ⅱ 17′26	

	13954 Jun 10 00:53	0°99		evening rise	13955 Jun 04 00:33	1°953'00	
evening rise	13954 Jun 24 02:40	22° © 10'20		greatest brilliancy	13955 Jun 16 22:50	21°935'04	-0.7m
evening rise	13954 Jun 29 00:54	22 3 10 20 0° Ω		greatest brilliancy	13955 Jun 22 20:23	21 3 33 04 0°Ω	-U. /III
greatest brilliancy	13954 Jul 29 00.34 13954 Jul 01 21:51	4°Ω32'20	-0.8m	asc. node	13955 Jun 25 22:41	3°Ω58'05	
	13954 Jul 09 01:47	$4 \% \Omega 23' 52$	-0.8111			7° Ω 03'19	10026112
asc. node	13954 Jul	$23^{\circ}\Omega 15'33$	10041112	evening max el	13955 Jun 28 17:35	$11^{\circ}\Omega 02'52$	19-26-12
evening max el			18°41'13	retrograde	13955 Jul 05 20:50		
retrograde	13954 Jul 21 23:19	26° Ω 50'00		evening set	13955 Jul 09 12:29	9° Ω 45'21	200512.1
evening set	13954 Jul 25 05:37	25° Ω 49'12	2047100	inferior conj	13955 Jul 14 21:40	3° Ω 52'41	3°05'31 3°04'29
inferior conj	13954 Jul 30 20:37	20°Ω10'11	2°46'09	minimum elong	13955 Jul 14 22:44	3° Ω 49'11	
minimum elong	13954 Jul 30 22:36	20° Ω 04'05	2°45'02	min. Earth dist.	13955 Jul 16 05:06	2° Ω 09'09	0.67264 AU
min. Earth dist.	13954 Aug 01 18:28	17° Ω 48'49	0.65769 AU		13955 Jul 17 22:21	30° ₹ 5	
morning rise	13954 Aug 05 14:36	13° Ω 46'11		morning rise	13955 Jul 20 08:26	27°528'07	
desc. node	13954 Aug 11 01:06	11° Ω 09'38		direct	13955 Jul 26 07:56	24°951'41	
direct	13954 Aug 11 23:25	11°Ω06'27		desc. node	13955 Jul 28 22:31	25°5517'09	
morning max el	13954 Aug 25 04:53	18° Ω 56'04	26°48'19		13955 Aug 05 07:30	0° N	
	13954 Sep 03 14:10	0° m/		morning max el	13955 Aug 07 15:48	2° Ω 14'47	25°34'49
_	13954 Sep 23 02:19	0∘ ⊽			13955 Aug 28 16:53	0° m y	
morning set	13954 Sep 29 23:04	12° ≏ 32'13		morning set	13955 Sep 12 14:59	24° m 57'08	
max. Earth dist.	13954 Oct 04 02:02	20° ≏ 36'00	1.33999 AU		13955 Sep 15 08:44	0∘ 亚	
asc. node	13954 Oct 05 03:35	22° ≏ 44'41		max. Earth dist.	13955 Sep 16 06:00	1° ≏ 39'57	1.35952 AU
	12054 0	200 2 5011 5	0000100		12055 0 22 05 50	100 0 0 111 6	0000100
superior conj	13954 Oct 08 15:56	29° ₽ 59'15	0°32'38	superior conj	13955 Sep 22 07:59	13° 2 31'16	0°03'03
minimum elong	13954 Oct 08 14:18	29° ≏ 50'44	0°32'44	minimum elong	13955 Sep 22 07:48	13° △ 30'19	0°03'09
	13954 Oct 08 16:04	0°M,		behind sun begin	13955 Sep 22 01:38	12° ≏ 59'29	
evening rise	13954 Oct 15 23:21	15° M ₊28'11		behind sun end	13955 Sep 22 13:57	14° ≏ 01'13	
	13954 Oct 23 05:28	0° ∡ ¹		asc. node	13955 Sep 22 00:11	12° ≏ 52'10	
evening max el	13954 Nov 04 22:11	18° ∡ 19'36 −	21°27'36	evening rise	13955 Sep 30 06:13	29° ≏ 43'49	
desc. node	13954 Nov 06 21:18	20° ∡ ¹06'41			13955 Sep 30 09:22	0° M ₊	
retrograde	13954 Nov 17 01:15	24° ∡ ¹20'38		evening max el	13955 Oct 18 01:06	29°M03'58	20°04'56
evening set	13954 Nov 19 21:26	24° ∡ °02'06			13955 Oct 19 00:39	0° ∡ ¹	
inferior conj	13954 Nov 28 17:36	20° ₹ 09'03		desc. node	13955 Oct 24 18:41	3° ∡ ³38′26	
minimum elong	13954 Nov 28 10:28	20° ₹ 19'05	5°35'40	retrograde	13955 Oct 28 13:57	4° ≯ 18'38	
min. Earth dist.	13954 Nov 28 23:24	20° ₹ 00'55	0.54482 AU	evening set	13955 Oct 30 14:51	4° ₮ 07'46	
morning rise	13954 Dec 07 00:12	16° ∡ ′20′09		inferior conj	13955 Nov 08 12:22	0° ₮ 09'40	-4°22'15
direct	13954 Dec 10 20:21	15° ∡ ¹48'13		minimum elong	13955 Nov 08 02:20	0° ∡ ′24'43	4°18'24
morning max el	13954 Dec 23 12:48	21° ∡ ′54′20	22°25'09		13955 Nov 08 18:48	30°RM₊	
	13954 Dec 30 09:49	0°ಕ		min. Earth dist.	13955 Nov 10 07:04	29°M05'35	0.54917 AU
asc. node	13955 Jan 01 04:04	2° る 33'54		morning rise	13955 Nov 16 12:44	26° ™ 01'45	
morning set	13955 Jan 14 08:23	27° る 05'43		direct	13955 Nov 21 07:38	25° M ₊11'50	
	13955 Jan 15 17:09	0° ≈			13955 Dec 02 18:29	0° ∡ ¹	
				morning max el	13955 Dec 04 22:57	1° ∡ ¹55'26	24°14'06
superior conj	13955 Jan 21 09:00	12° ≈ 07'20	1°27'50	asc. node	13955 Dec 19 01:10	20° х 46′42	
minimum elong	13955 Jan 21 10:55	12° ≈ 17'27	1°28'31		13955 Dec 24 02:04	0°₹	
max. Earth dist.	13955 Jan 25 02:05	19° ≈ 52'53	1.33987 AU	morning set	13955 Dec 29 20:18	11° る 50'15	
evening rise	13955 Jan 29 12:52	28° ≈ 46′28					
	13955 Jan 30 04:05	0° ∀		superior conj	13956 Jan 05 15:46	26° る 42'12	1°36'00
desc. node	13955 Feb 02 20:54	6° ¥ 56′23		minimum elong	13956 Jan 05 16:39	26° る 47'05	1°36'58
	13955 Feb 16 20:44	0° Y			13956 Jan 07 04:09	0° ≈	
evening max el	13955 Mar 05 09:03	20° Ƴ 34'35	27°03'45	max. Earth dist.	13956 Jan 08 00:24	1° ≈ 49'08	1.32563 AU
retrograde	13955 Mar 18 18:41	28° Y ′02'35		evening rise	13956 Jan 13 03:48	12° ≈ 34′01	
evening set	13955 Mar 25 08:40	25° Ƴ 30'31		desc. node	13956 Jan 20 17:34	27° ≈ 02'43	
min. Earth dist.	13955 Mar 29 07:07	21° Y '42'43	0.65547 AU		13956 Jan 22 09:33	0° ∀	
asc. node	13955 Mar 30 00:55	20° Ƴ 52'41			13956 Feb 12 04:09	0° Y	
inferior conj	13955 Mar 31 12:43	19° Ƴ 10′22	0°28'16	evening max el	13956 Feb 15 21:40	3° Y 52'06	27°31'26
minimum elong	13955 Mar 31 11:57	19° Ƴ 12'32	0°27'44	retrograde	13956 Feb 29 16:05	11° Y 19'35	
morning rise	13955 Apr 06 16:47	13° Ƴ 37'51		evening set	13956 Mar 07 11:58	8° Y 53'33	
direct	13955 Apr 09 11:42	12° Y 55'56		min. Earth dist.	13956 Mar 11 07:01	5° Ƴ 35'39	0.63709 AU
morning max el	13955 Apr 15 19:55	16° Ƴ 14'39	18°03'05	inferior conj	13956 Mar 13 23:49	2° Y 49'19	-0°37'43
	13955 Apr 25 23:48	9° 8		minimum elong	13956 Mar 14 01:01	2° Y 46'15	0°37'10
desc. node	13955 May 01 23:13	9° 8 36'53		asc. node	13956 Mar 15 22:25	0° Y ′53'02	
morning set	13955 May 04 05:32	13° 8 18'00			13956 Mar 16 21:39	30° ₹	
-	13955 May 14 14:09	Π°		morning rise	13956 Mar 20 16:23	27° ¥ 31'25	
	-			direct	13956 Mar 23 02:57	27° ∺ 01'59	
superior conj	13955 May 18 22:04	6° Ⅱ 51'03	-1°48'46		13956 Mar 29 05:01	0° Y	
minimum elong	13955 May 18 13:05	6° Ⅱ 15'43	1°48'55	morning max el	13956 Mar 29 13:30	0° Υ 20'12	17°47'31
max. Earth dist.	13955 May 21 19:12		1.45731 AU	morning set	13956 Apr 15 03:45	25° Y °25′02	
	13955 Jun 02 19:15	0°ಅ		desc. node	13956 Apr 17 19:51	29° Ƴ 57'49	
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	13956 Apr 17 20:21	0°B		minimum elong	13957 Apr 08 22:31 13957 Apr 10 05:24	27° Y 48'55 0° 呂	0°34'08
superior conj	13956 Apr 28 00:08	16° 8 53'51	-1°13'52	max. Earth dist.	13957 Apr 16 05:24 13957 Apr 16 06:03	9° 8 59'20	1.43470 AU
minimum elong	13956 Apr 27 16:48	16° 8 24'00		evening rise	13957 Apr 10 00:03	21° 8 01'38	1.43470 AC
max. Earth dist.	13956 May 03 14:07	25° 8 51'25		evening rise	13957 Apr 29 00:42	0°Ⅱ	
max. Lartii dist.	13956 May 06 05:09	0°Ⅱ	1.44)23 110		13957 May 20 10:46	0° ©	
evening rise	13956 May 13 11:46	11° I I16'23		evening max el	13957 May 24 16:41	4°9543'22	21°38'06
evening rise	13956 May 25 22:58	0°95		asc. node	13957 May 29 16:46	8°946'43	21 30 00
evening max el	13956 Jun 10 20:00	20°953'07	20°26'10	retrograde	13957 Jun 02 18:04	10°901'07	
asc. node	13956 Jun 11 19:41	21°950'11	20 20 10	evening set	13957 Jun 07 06:35	8°909'55	
retrograde	13956 Jun 18 19:40	25°\$28'14		inferior conj	13957 Jun 12 12:37	1° 9 54'06	3°06'31
evening set	13956 Jun 22 21:25	23°953'37		minimum elong	13957 Jun 12 11:43	1°957'15	3°05'22
inferior conj	13956 Jun 28 03:45	17° © 48'39	3°11'44	min. Earth dist.	13957 Jun 12 16:37	1°540'09	0.68869 AU
minimum elong	13956 Jun 28 03:47	17° 9 48'30	3°10'41	iiiii. Lattii dist.	13957 Jun 13 21:38	30°RⅡ	0.00007 AC
min. Earth dist.	13956 Jun 28 21:11	16°948'50	0.68307 AU	morning rise	13957 Jun 17 16:40	25° ∏ 38'24	
morning rise	13956 Jul 03 09:52	10 \$4830 11°\$27'20	0.00307 AU	direct	13957 Jun 22 16:04	23° II 29'52	
direct	13956 Jul 08 21:51	9°902'05		desc. node	13957 Jul 01 17:04	28° ∏ 30'19	
desc. node	13956 Jul 14 19:51					28 Ⅲ 3019 29° Ⅲ 20'24	22020104
		11°5012'39	24900122	morning max el	13957 Jul 02 13:29	29 п 2024 0° ©	22 39 04
morning max el	13956 Jul 20 02:01	15°5643'24	24°08'33		13957 Jul 03 04:58		
	13956 Jul 31 20:06	0° Ω			13957 Jul 25 13:37	0°N	
	13956 Aug 20 15:32	0° m/y		morning set	13957 Aug 05 09:47	17° Ω 02'47	1 40 500 1 11
morning set	13956 Aug 24 12:00	6° Tp 30'43		max. Earth dist.	13957 Aug 10 03:45	24° Ω 57'11	1.40593 AU
max. Earth dist.	13956 Aug 28 04:17	12° Mp 57'20	1.38231 AU		13957 Aug 13 02:19	0° m)	
	12056 C 04 12:02	260 m 20125	0920125		12057 A 17 22.54	00 m , 4014 0	1005157
superior conj	13956 Sep 04 12:02	26° Mp 28'25		superior conj	13957 Aug 17 23:54	8° Mp 40'42	
minimum elong	13956 Sep 04 14:10	26° m 38'35	0°30'21	minimum elong	13957 Aug 18 04:54	9° Mp 03'17	1 05 39
	13956 Sep 06 08:04	0∘ ⊽		asc. node	13957 Aug 25 17:19	22° m 59'22	
asc. node	13956 Sep 07 20:46	2° Ω 58'23		evening rise	13957 Aug 27 23:36	27° m 15'55	
evening rise	13956 Sep 13 07:21	13° Ω 42'29			13957 Aug 29 10:23	0∘ ত	
	13956 Sep 22 00:07	0°M		evening max el	13957 Sep 12 22:19	22° ≏ 54'56	18°24'00
evening max el	13956 Sep 29 18:10	10°M37'21	19°03'39	retrograde	13957 Sep 20 13:32	26° ≏ 47'01	
retrograde	13956 Oct 08 16:06	15°M05'42		evening set	13957 Sep 22 14:26	26° ≏ 31'12	
evening set	13956 Oct 10 12:52	14° M 54'45		desc. node	13957 Sep 27 13:36	24° ≏ 00'14	
desc. node	13956 Oct 10 16:07	14°M53'08		inferior conj	13957 Sep 30 06:26	21° ≏ 55'50	
inferior conj	13956 Oct 18 22:42	10° ™ 40′20		minimum elong	13957 Sep 30 04:28	21° ≏ 59'47	0°50'16
minimum elong	13956 Oct 18 16:04	10°M51'44		min. Earth dist.	13957 Oct 03 12:52	19° 亞 19'00	0.58141 AU
min. Earth dist.	13956 Oct 21 18:41	8°M44'01	0.56215 AU	morning rise	13957 Oct 07 15:03	16° ≏ 36'53	
morning rise	13956 Oct 26 16:28	5° ™ 58'45		direct	13957 Oct 13 20:10	14° ≙ 56'47	
direct	13956 Nov 01 06:59	4°M45'29		morning max el	13957 Oct 28 03:38	22° ≏ 33'06	27°12'55
morning max el	13956 Nov 15 09:54	11°M58'29	25°56'00		13957 Nov 03 18:39	0°M	
	13956 Nov 29 08:16	0° ∡ 7		asc. node	13957 Nov 21 19:05	28° M 57′25	
asc. node	13956 Dec 04 22:11	9° ∡ ³38'14			13957 Nov 22 07:56	0° ∡	
morning set	13956 Dec 13 07:33	26° ₹ 29'28		morning set	13957 Nov 27 16:19	10° х 57′29	
	13956 Dec 14 22:23	5°0					
				superior conj	13957 Dec 04 13:27	26° ₹ 05'55	1°34'00
superior conj	13956 Dec 20 01:56	11° る 24'04	1°37'59	minimum elong	13957 Dec 04 12:16	25° ₹ 59'16	1°34'59
minimum elong	13956 Dec 20 01:44	11° る 22'59	1°39'02	max. Earth dist.	13957 Dec 04 13:23	26° ∡ ¹05'33	1.31185 AU
max. Earth dist.	13956 Dec 21 05:18	13° る 55'48	1.31622 AU		13957 Dec 06 07:21	0°ප	
evening rise	13956 Dec 27 03:07	26° ප් 41'47		evening rise	13957 Dec 11 08:15	11° る 02'15	
	13956 Dec 28 17:30	0° ≈			13957 Dec 20 22:44	0° ≈	
desc. node	13957 Jan 06 14:20	16° ≈ 48'41		desc. node	13957 Dec 24 11:11	6° ≈ 05'13	
	13957 Jan 14 18:56	0° ∀		evening max el	13958 Jan 10 10:15	28° ≈ 30′01	26°50'58
evening max el	13957 Jan 28 07:04	16°) (34′59	27°28'25		13958 Jan 12 02:05	0° ∀	
retrograde	13957 Feb 11 05:25	23° ¥ 55′19		retrograde	13958 Jan 24 09:25	5°) 41′01	
evening set	13957 Feb 18 02:35	21°) 42′46		evening set	13958 Jan 31 01:02	3°) 49′29	
min. Earth dist.	13957 Feb 21 21:01	18°) (49′09	0.61628 AU	min. Earth dist.	13958 Feb 04 00:16	1°) 1 0′48	0.59436 AU
inferior conj	13957 Feb 24 22:26	16° ₩ 02'22	-1°54'40		13958 Feb 05 12:28	30° R ≈	
minimum elong	13957 Feb 25 02:28	15°) 53′10	1°52'42	inferior conj	13958 Feb 07 04:53	28° ≈ 39'07	-3°18'55
asc. node	13957 Mar 02 19:52	11°) € 35'41		minimum elong	13958 Feb 07 12:06	28° ≈ 24'46	3°15'42
morning rise	13957 Mar 04 05:18	11°) €02'06		morning rise	13958 Feb 15 02:19	23° ≈ 59'39	
direct	13957 Mar 06 09:30	10°) 41′31		direct	13958 Feb 17 03:04	23° ≈ 44'24	
morning max el	13957 Mar 13 06:26	14°) €09'40	17°49'49	asc. node	13958 Feb 17 17:19	23° ≈ 45'45	
-	13957 Mar 24 03:55	0° Y		morning max el	13958 Feb 24 19:14	27° ≈ 32'52	18°11'12
morning set	13957 Mar 28 23:27	8° Y 32'31			13958 Feb 27 00:33	0° ∀	
desc. node	13957 Apr 04 16:24	20° Y 27'35		morning set	13958 Mar 12 10:39	22°) 22'01	
	-			-	13958 Mar 16 12:18	0° Y	
superior conj	13957 Apr 09 01:44	28° Y ′02'34	-0°34'15				
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superior conj	13958 Mar 22 02:23	10° Y 14'49	0°03'33	superior conj	13959 Mar 04 22:01	23° ¥ 18'39	0°35'55
minimum elong	13958 Mar 22 02:38	10° Ƴ 15'59	0°03'26	minimum elong	13959 Mar 05 00:11	23° ∺ 28'58	0°35'47
behind sun begin	13958 Mar 21 19:13	9° Ƴ 42'36			13959 Mar 08 12:01	0° Y	
behind sun end	13958 Mar 22 10:04	10° Ƴ 49'17		desc. node	13959 Mar 09 09:23	1° Ƴ 37'34	
desc. node	13958 Mar 22 12:54	11° Y ′02'02		max. Earth dist.	13959 Mar 12 00:10	6° Ƴ 19'16	1.39299 AU
max. Earth dist.	13958 Mar 29 17:14	23° Y 31'03	1.41522 AU	evening rise	13959 Mar 15 21:20	13° Ƴ 03'32	
	13958 Apr 02 15:00	$_{0\circ}$ 8			13959 Mar 26 08:49	$_{0\circ}$ 8	
evening rise	13958 Apr 03 14:18	1° 8 34'46			13959 Apr 17 14:24	$\Pi^{\circ}0$	
	13958 Apr 22 10:19	Π° 0		evening max el	13959 Apr 19 22:43	2° Ⅲ 26'42	24°18'25
evening max el	13958 May 07 08:52	18° Ⅲ 34'17	22°57'30	retrograde	13959 May 01 07:46	9° Ⅱ 06'53	
asc. node	13958 May 16 13:57	24° Ⅲ 31′21		asc. node	13959 May 03 11:13	8° Ⅱ 46'34	
retrograde	13958 May 17 14:32	24° Ⅱ 36′06		evening set	13959 May 06 19:09	6° Ⅱ 48'11	
evening set	13958 May 22 14:22	22° Ⅲ 29'52		min. Earth dist.	13959 May 11 09:23	1° Ⅱ 31′01	0.68555 AU
inferior conj	13958 May 27 22:19	16° Ⅱ 05'28	2°50'48	inferior conj	13959 May 12 06:54	0° Ⅱ 18'26	2°24'51
minimum elong	13958 May 27 20:39	16° Ⅱ 11'12	2°49'32	minimum elong	13959 May 12 04:48	0° Ⅱ 25'31	
min. Earth dist.	13958 May 27 13:24	16° Ⅲ 36'23	0.68945 AU	8	13959 May 12 12:22	30°R ∀	
morning rise	13958 Jun 02 02:52	9° ∏ 56'42		morning rise	13959 May 17 14:35	24° 8 17'47	
direct	13958 Jun 06 13:29	8° I 07'59		direct	13959 May 21 12:55	22° 8 49'38	
morning max el	13958 Jun 15 05:11	13° Ⅱ 07'27	21°14'36	morning max el	13959 May 29 03:31	27° 8 05'16	20°01'04
desc. node	13958 Jun 18 14:10	16° I I48'31	21 1430	morning max er	13959 May 31 20:13	0°II	20 01 04
dese. Hode	13958 Jun 28 14:13	0°95		desc. node	13959 Jun 05 11:08	5° Ⅱ 50'24	
morning set	13958 Jul 16 07:03	26° © 31'57		desc. Hode	13959 Jun 21 23:50	0°95	
morning set						0 ৩ 5°©17'42	
F 41 F 4	13958 Jul 18 11:46	0°Ω	1 40745 ATT	morning set	13959 Jun 25 10:52		1 44447 ATT
max. Earth dist.	13958 Jul 23 08:39	7° Ω 50'17	1.42745 AU	max. Earth dist.	13959 Jul 05 19:47	21° © 29'57	1.44447 AU
	12050 1 1 20 15 12	100 0 50155	1020107		12050 1 11 06 52	00.016146	200 410 7
superior conj	13958 Jul 30 15:13	19° Ω 58'55		superior conj	13959 Jul 11 06:52	0°Ω16'46	
minimum elong	13958 Jul 30 22:24	20° Ω 29'36	1°39'06	minimum elong	13959 Jul 11 13:00	0° Ω 41'42	2°04'44
	13958 Aug 05 09:30	0° m			13959 Jul 11 02:45	0°Ω	
evening rise	13958 Aug 11 02:54	10° m 14'13		evening rise	13959 Jul 24 12:08	22° Ω 23'46	
asc. node	13958 Aug 12 13:55	12° m 51'43			13959 Jul 28 22:59	0° m)	
	13958 Aug 22 17:28	0∘ ⊽		asc. node	13959 Jul 30 10:33	2°m/30'15	
evening max el	13958 Aug 27 09:31	5° ≏ 48'25	18°04'48	evening max el	13959 Aug 10 23:47	19° m 07'26	18°04'47
retrograde	13958 Sep 03 04:45	9° ≏ 17'42		retrograde	13959 Aug 17 09:27	22° m 27'49	
evening set	13958 Sep 05 12:57	8° 亞 53'05		evening set	13959 Aug 20 01:59	21° m 50'58	
inferior conj	13958 Sep 12 11:09	3° ≏ 57'24	0°36'36	inferior conj	13959 Aug 26 09:12	16° Mp 37'02	1°42'35
minimum elong	13958 Sep 12 12:17	3° ჲ 54'44	0°36'08	minimum elong	13959 Aug 26 11:34	16° m 30'44	1°41'30
desc. node	13958 Sep 14 11:07	2° ჲ 04'49		min. Earth dist.	13959 Aug 29 04:36	13° m 39'07	0.62663 AU
min. Earth dist.	13958 Sep 15 15:56	0° ჲ 59'10	0.60388 AU	desc. node	13959 Sep 01 08:39	10° Mp 46'20	
	13958 Sep 16 19:28	30° ₽, M p		morning rise	13959 Sep 01 18:56	10° m 26'57	
morning rise	13958 Sep 19 08:31	28° Mp 07'36		direct	13959 Sep 08 11:13	8° m 00'15	
direct	13958 Sep 25 22:19	26°Mp01'16		morning max el	13959 Sep 22 12:34	16° Mp 01'26	27°54'35
	13958 Oct 05 17:45	0∘ ত			13959 Oct 04 00:41	0∘ ⊽	
morning max el	13958 Oct 10 05:14	3° ჲ 54'34	27°53'17		13959 Oct 22 04:48	0° M .	
-	13958 Oct 29 12:17	0° M .		morning set	13959 Oct 26 18:48	9° ጤ 01'27	
asc. node	13958 Nov 08 15:54	18°M36'45		asc. node	13959 Oct 26 12:36	8°M29'58	
morning set	13958 Nov 11 20:47	25°Mo9'53		max. Earth dist.	13959 Nov 01 00:11	19° M 59'19	1.31907 AU
Č	13958 Nov 14 03:27	0° ∡ ¹					
max. Earth dist.	13958 Nov 17 20:58	8° ∡ ¹09'46	1.31275 AU	superior conj	13959 Nov 03 09:16	25°M09'45	1°08'38
				minimum elong	13959 Nov 03 06:58	24°M57'14	
superior conj	13958 Nov 19 00:31	10° ∡ ′42'50	1°24'12	C	13959 Nov 05 14:02	0° ∡ ¹	
minimum elong	13958 Nov 18 22:35	10° ∡ ³32'04		evening rise	13959 Nov 10 04:02	10° ∡ *01'56	
evening rise	13958 Nov 25 17:11	25° ∡ '30'28		0 / 4 · · · · · · · · · · · · · · · · · ·	13959 Nov 20 05:55	0°ਰ	
	13958 Nov 27 19:50	್ತಿ		desc. node	13959 Nov 28 05:15	12° る 21'37	
desc. node	13958 Dec 11 08:09	24° පි 41'10		evening max el	13959 Dec 04 16:51	19° る 49'10	24°05'36
dese. Hode	13958 Dec 15 00:16	0°≈		retrograde	13959 Dec 18 07:26	26° る 35'33	24 03 30
evening max el	13958 Dec 23 05:12	9° ≈ 31'43	25940'10	evening set	13959 Dec 23 06:09	25° ප් 42'06	
•			23 40 19	•			0.55658 AU
retrograde	13959 Jan 06 02:48	16°≈32'30		min. Earth dist.	13959 Dec 29 04:15	22° ろ 46°02 21° ろ 30'48	
evening set	13959 Jan 12 03:20	15°≈08'39	0.57240 ATT	inferior conj	13959 Dec 31 05:56		
min. Earth dist.	13959 Jan 16 17:47	12°≈30'21	0.57349 AU	minimum elong	13959 Dec 31 11:58	21°る21'39 17°る32'50	5 59 50
inferior conj	13959 Jan 19 15:48	10°≈30'06		morning rise	13960 Jan 08 19:38		
minimum elong	13959 Jan 20 00:44	10°≈14'43	4-3/2/	direct	13960 Jan 11 07:50	17° る 16'39	10050121
morning rise	13959 Jan 28 00:54	6°≈12'47		morning max el	13960 Jan 21 16:26	22° ろ 15'35	19~58'31
direct	13959 Jan 30 03:13	5°≈59'18		asc. node	13960 Jan 22 12:04	23° る 04'43	
asc. node	13959 Feb 04 14:43	7°≈37'54	10052120		13960 Jan 27 22:44	0°≈	
morning max el	13959 Feb 07 23:56	10°≈18'38	18~53'29	morning set	13960 Feb 08 13:37	21°≈14'08	
	13959 Feb 20 22:05	0°) {			13960 Feb 12 20:37	0° ℋ	
morning set	13959 Feb 24 08:33	6° ∺ 39'20					

superior conj	13960 Feb 16 08:08	7°) €01'27	1°01'32	morning set	13961 Jan 22 23:01	5° ≈ 57'24	
minimum elong	13960 Feb 16 10:51	7°) 15′00	1°01'38				
max. Earth dist.	13960 Feb 22 06:38	18° ¥ 31'36	1.37054 AU	superior conj	13961 Jan 30 04:39	21° ≈ 11'01	1°20'10
desc. node	13960 Feb 24 05:55	22°) 10′46		minimum elong	13961 Jan 30 07:01	21° ≈ 23′17	1°20'39
evening rise	13960 Feb 26 00:25	25° ¥ 23'31		max. Earth dist.	13961 Feb 03 17:26	0° ¥ 25'15	1.35010 AU
	13960 Feb 28 15:00	0° Υ			13961 Feb 03 12:22	0° ∀	
	13960 Mar 18 22:22	9° 8		evening rise	13961 Feb 07 20:07	8° ∺ 24'02	
evening max el	13960 Apr 01 12:16	16° 8 20'01	25°33'50	desc. node	13961 Feb 10 02:29	12° 米 36′59	
retrograde	13960 Apr 13 20:36	23° 8 27'38			13961 Feb 20 06:15	0° Y	
asc. node	13960 Apr 19 08:34	21° 8 21'51			13961 Mar 14 23:07	$0^{\circ}S$	
evening set	13960 Apr 19 19:19	21° 8 00'03		evening max el	13961 Mar 15 02:08	0° 8 07'21	26°36'28
min. Earth dist.	13960 Apr 24 02:29	16° 8 18'36	0.67720 AU	retrograde	13961 Mar 28 04:01	7° 8 30'18	
inferior conj	13960 Apr 25 12:30	14° 8 29'30	1°48'25	evening set	13961 Apr 03 13:04	4° 8 58'21	
minimum elong	13960 Apr 25 10:24	14° 8 36'13	1°47'07	asc. node	13961 Apr 06 06:01	2° 8 23'17	
morning rise	13960 May 01 01:58	8° 8 38'13		min. Earth dist.	13961 Apr 07 14:24	0° 8 51'36	0.66456 AU
direct	13960 May 04 12:52	7° 8 29'46			13961 Apr 08 07:50	30° Ŗ ♈	
morning max el	13960 May 11 09:20	11° 8 13'05	19°02'14	inferior conj	13961 Apr 09 12:54	28° Ƴ 32'43	1°00'56
desc. node	13960 May 22 08:00	25° 8 24'35		minimum elong	13961 Apr 09 11:26	28° Ƴ 37'07	0°59'59
greatest brilliancy	13960 May 24 13:17	28° 8 43'07	-0.7m	morning rise	13961 Apr 15 10:53	22° Y 52'40	
	13960 May 25 09:41	Π °0		direct	13961 Apr 18 11:23	22° Y ′01'46	
morning set	13960 Jun 03 16:28	14° Ⅱ 14'23		morning max el	13961 Apr 24 21:38	25° Y 25'40	18°19'49
	13960 Jun 13 20:09	0			13961 Apr 28 20:46	$_{0\circ}$ 8	
max. Earth dist.	13960 Jun 17 12:23	5° © 44'44	1.45529 AU	desc. node	13961 May 09 04:46	15° 8 21'45	
				morning set	13961 May 14 19:23	24° 8 16'04	
superior conj	13960 Jun 20 01:09	9° © 43'15			13961 May 18 10:00	Π °0	
minimum elong	13960 Jun 20 01:09	9° 5 43'15	2°14'44				
	13960 Jul 02 17:49	0 $^{\circ}$ Ω		superior conj	13961 May 30 09:14	18° Ⅱ 49'10	
evening rise	13960 Jul 04 22:28	3° € 33'52		minimum elong	13961 May 30 02:03	18° Ⅲ 21′03	2°03'51
asc. node	13960 Jul 16 07:16	21° Ω 49'35		max. Earth dist.	13961 May 31 08:24	20° Ⅱ 19'34	1.45879 AU
	13960 Jul 22 03:06	0° ™			13961 Jun 06 13:16	0 \circ \odot	
evening max el	13960 Jul 24 13:44	2°m/43'13	18°22'56	evening rise	13961 Jun 15 08:18	13° © 44'03	
retrograde	13960 Jul 30 23:22	6° Mp 08′23		greatest brilliancy	13961 Jun 25 12:15	29° © 33'12	-0.8m
evening set	13960 Aug 03 00:37	5° m 16'44			13961 Jun 25 19:16	0 $^{\circ}\Omega$	
inferior conj	13960 Aug 08 20:30	29° Ω 46′27	2°28'04	asc. node	13961 Jul 03 04:06	10° Ω 42'49	
minimum elong	13960 Aug 08 22:50	29° Ω 39'35	2°26'53	evening max el	13961 Jul 08 00:35	16° Ω 28'27	18°58'23
	13960 Aug 08 15:53	30°R Ω		retrograde	13961 Jul 14 18:58	20° Ω 11'46	
min. Earth dist.	13960 Aug 11 02:38	27° Ω 07'44	0.64739 AU	evening set	13961 Jul 18 05:17	19° Ω 03'44	
morning rise	13960 Aug 14 19:42	23° Ω 25'36		inferior conj	13961 Jul 23 17:25	13° Ω 18'42	
desc. node	13960 Aug 18 06:10	21° Ω 22'24		minimum elong	13961 Jul 23 19:02	13° Ω 13'33	
direct	13960 Aug 21 08:41	20° Ω 47'49		min. Earth dist.	13961 Jul 25 09:03	11° Ω 12'42	0.66465 AU
morning max el	13960 Sep 03 22:55	28° Ω 44'53	27°20'44	morning rise	13961 Jul 29 08:03	6° Ω 54'08	
	13960 Sep 05 03:59	0° ™		direct	13961 Aug 04 13:17	4° Ω 14'56	
	13960 Sep 26 20:54	0∘ ⊽		desc. node	13961 Aug 05 03:38	4° Ω 16′16	
morning set	13960 Oct 09 07:47	22° ≏ 25'39		morning max el	13961 Aug 17 10:09	11° Ω 54'17	26°19'14
asc. node	13960 Oct 12 09:15	28° ≏ 32'02			13961 Aug 31 22:05	0° m)	
	13960 Oct 13 02:29	0° M			13961 Sep 19 11:54	0∘ ⊽	
max. Earth dist.	13960 Oct 13 19:38	1°M28'09	1.33088 AU	morning set	13961 Sep 22 08:32	5° ≏ 15'10	
				max. Earth dist.	13961 Sep 26 05:28	12° ≏ 39'18	1.34784 AU
superior conj	13960 Oct 17 13:33	9° ™ 20'42	0°47'22	asc. node	13961 Sep 29 05:51	18° ≏ 38'49	
minimum elong	13960 Oct 17 11:29	9°M09'38	0°47'34				
evening rise	13960 Oct 24 14:56	24°M31'38		superior conj	13961 Oct 01 10:57	23° ₾ 09'24	0°20'39
	13960 Oct 27 05:26	0° ∡		minimum elong	13961 Oct 01 09:49	23° ₾ 03'36	0°20'45
desc. node	13960 Nov 14 02:28	28° 🗷 45'50			13961 Oct 04 17:57	0°M,	
evening max el	13960 Nov 15 03:26	29° ₹ '49'02	22°23'07	evening rise	13961 Oct 08 23:56	8°M54'38	
	13960 Nov 15 07:58	0°る			13961 Oct 20 03:25	0° ∡ ¹	
retrograde	13960 Nov 27 23:13	6°る10'22		evening max el	13961 Oct 27 22:26	10° ∡ 108'57	20°49'56
evening set	13960 Dec 01 13:14	5° る 42'11		desc. node	13961 Oct 31 23:47	13° ∡ 28'37	
min. Earth dist.	13960 Dec 09 10:41	2°る09'55	0.54661 AU	retrograde	13961 Nov 08 09:44	15° ∡ 751′06	
inferior conj	13960 Dec 10 03:05	1° 3 46'52		evening set	13961 Nov 10 19:58	15° ₹ 36'55	5014107
minimum elong	13960 Dec 10 00:44	1°る50'10	5~55/1/	inferior conj	13961 Nov 19 18:26	11° × 43'08	
	13960 Dec 13 09:45	30°₹ ⋌ ¹		minimum elong	13961 Nov 19 09:04	11° х 56'29	
morning rise	13960 Dec 18 13:22	27° 🗷 59'31		min. Earth dist.	13961 Nov 20 16:38	11° 🗷 11'25	0.54555 AU
direct	13960 Dec 21 20:47	27° ∡ ³34'52		morning rise	13961 Nov 27 22:21	7° ⋌ ¹49'00	
	13960 Dec 29 14:40	0°る	0100 *** *	direct	13961 Dec 02 04:34	7° ⋌ 10'09	
morning max el	13961 Jan 02 18:13		21°26'16	morning max el	13961 Dec 15 07:57	13° × 32'19	23°11'13
asc. node		10'01		asc. node	12061 1300 26 06:22	27° ∡ ³33'57	
	13961 Jan 08 09:21 13961 Jan 20 01:35	9°る49'01 0°≈		asc. node	13961 Dec 26 06:32 13961 Dec 27 18:02	0° る	

	12062 I 07 10:24	200742112			120(2 N 07, 16-10	170 m 20111	
morning set	13962 Jan 07 10:34	20° る 43'12		morning rise	13962 Nov 07 16:19	17°M32'11	
	13962 Jan 11 17:47	0° ≈		direct	13962 Nov 12 19:46	16°M33'12	2.10.5012.2
	120/2 1 1/ 00 27	50 20140	1022104	morning max el	13962 Nov 26 17:35	23°M30'15	24°59'33
superior conj	13962 Jan 14 08:27	5°≈38'48	1°32'04		13962 Dec 02 14:10	0° ∡ 7	
minimum elong	13962 Jan 14 09:57	5°≈46'52	1°32'54	asc. node	13962 Dec 13 03:36	16° ∡ ′04'15	
max. Earth dist.	13962 Jan 17 11:33	12°≈18′03	1.33327 AU		13962 Dec 20 08:43	0° ろ	
evening rise	13962 Jan 22 04:58	21°≈56′26		morning set	13962 Dec 22 22:24	5° る 25'54	
	13962 Jan 26 09:42	0° ∀				_	
desc. node	13962 Jan 27 23:06	2° ¥ 51'57		superior conj	13962 Dec 29 16:54		1°37'35
	13962 Feb 14 01:21	0° Υ		minimum elong	13962 Dec 29 17:20	20° る 19'34	1°38'36
evening max el	13962 Feb 25 15:31	13° Y ′38′28	27°18'51	max. Earth dist.	13962 Dec 31 12:52	24° る 18'13	1.32096 AU
retrograde	13962 Mar 11 05:09	21° Y ′06'36			13963 Jan 03 04:17	0° ≈	
evening set	13962 Mar 17 22:18	18° Ƴ 36′08		evening rise	13963 Jan 05 23:44	5° ≈ 52'47	
min. Earth dist.	13962 Mar 21 19:03	15° Y ′01'48	0.64807 AU	desc. node	13963 Jan 14 19:49	22° ≈ 50'13	
inferior conj	13962 Mar 24 05:39	12° Y ′22'07	0°01'44		13963 Jan 19 00:02	0° ∀	
minimum elong	13962 Mar 24 05:36	12° Y ′22'15	0°01'35	evening max el	13963 Feb 08 02:48	26°) 41'45	27°34'10
transit middle	13962 Mar 24 05:36	12° Y 22'15	0°01'35		13963 Feb 11 23:06	0° Υ	
transit begin	13962 Mar 24 02:34	12° Y ′30′34		retrograde	13963 Feb 21 23:21	4° Υ 07'24	
transit end	13962 Mar 24 08:39	12° Y 13′56		evening set	13963 Feb 28 20:36	1° Y 45'45	
asc. node	13962 Mar 24 03:30	12° Y ′28′02			13963 Mar 03 03:07	30° ₹	
morning rise	13962 Mar 30 14:46	6° Y 55'35		min. Earth dist.	13963 Mar 04 14:45	28°) 39′23	0.62842 AU
direct	13962 Apr 02 06:03	6° Y 19'19		inferior conj	13963 Mar 07 11:50	25° ¥ 50'45	
morning max el	13962 Apr 08 14:07	9° Y 36′06	17°54'23	minimum elong	13963 Mar 07 14:09	25° ¥ 45′06	1°08'03
	13962 Apr 22 16:33	0°8		asc. node	13963 Mar 11 00:59	22°) 38'40	
morning set	13962 Apr 26 02:26	5° 8 39'32		morning rise	13963 Mar 14 10:22	20°) 40′21	
desc. node	13962 Apr 26 01:26	5° 8 35'22		direct	13963 Mar 16 17:55	20° ¥ 15′12	
				morning max el	13963 Mar 23 07:54	23° ¥ 36′16	17°46'21
superior conj	13962 May 10 00:33	28° 8 20'27			13963 Mar 28 11:16	0° Υ	
minimum elong	13962 May 09 15:41	27° 8 45'08	1°34'59	morning set	13963 Apr 08 10:32	18° Y 14'21	
	13962 May 11 01:37	0°П		desc. node	13963 Apr 12 22:01	26° Y ′00′29	
max. Earth dist.	13962 May 14 04:40	4° ∏ 56′09	1.45473 AU		13963 Apr 15 05:55	0°B	
evening rise	13962 May 25 23:46	23° Ⅱ 13'31			12062 4 20 12 10	000 51100	0057112
4 41 711	13962 May 30 10:15	0°95	0.6	superior conj	13963 Apr 20 12:19	8° 8 51'00	
greatest brilliancy	13962 Jun 09 11:58	15° © 04'00 29° © 00'29	-0.6m	minimum elong	13963 Apr 20 06:41	8° 8 27'37	
asc. node	13962 Jun 20 01:01 13962 Jun 20 23:30	29° 9 000 29		max. Earth dist.	13963 Apr 26 22:17	19° 8 17'16 0° Ⅱ	1.44366 AU
evening max el	13962 Jun 21 06:17	0° Ω 17'09	19°49'58	evening rise	13963 May 03 17:37 13963 May 05 11:23	0 H 2° H 41'21	
retrograde	13962 Jun 28 17:23	4°Ω30'49	19 49 36	evening rise	13963 May 23 22:34	0°95	
evening set	13962 Jul 02 13:16	3°Ω05'51		evening max el	13963 Jun 04 06:04	14° © 06'58	20°55'30
evening set	13962 Jul 05 15:43	30°RS		asc. node	13963 Jun 06 22:03	16°931'02	20 33 30
inferior conj	13962 Jul 07 20:53	27°507'31	3°09'39	retrograde	13963 Jun 12 16:23	19° 5 00'17	
minimum elong	13962 Jul 07 21:31	27°505'23	3°08'37	evening set	13963 Jun 16 22:33	17°5018'33	
min. Earth dist.	13962 Jul 08 22:12	25°\$42'25	0.67763 AU	inferior conj	13963 Jun 22 04:26	11°508'33	3°10'51
morning rise	13962 Jul 13 05:22	20°5643'58	,,	minimum elong	13963 Jun 22 04:04	11° © 09'51	3°09'47
direct	13962 Jul 19 00:02	18° © 11'49		min. Earth dist.	13963 Jun 22 16:05	10°528'11	0.68598 AU
desc. node	13962 Jul 23 01:01	19° © 12'55		morning rise	13963 Jun 27 09:20	4° 5 349'10	
morning max el	13962 Jul 30 20:54	25°518'41	24°59'11	direct	13963 Jul 02 15:56	2° 5 30'33	
C	13962 Aug 04 03:15	$0^{\circ}\Omega$		desc. node	13963 Jul 09 22:17	5° 5 46'26	
	13962 Aug 25 09:48	0° m y		morning max el	13963 Jul 13 07:28	8° 9 51'40	23°30'22
morning set	13962 Sep 04 16:59	17° m 19'38		-	13963 Jul 29 22:25	$0^{\circ}\Omega$	
max. Earth dist.	13962 Sep 08 06:41	23° Mp 47'01	1.36898 AU	morning set	13963 Aug 17 04:38	28° Ω 28'46	
	13962 Sep 11 14:17	0∘ ⊽			13963 Aug 18 02:15	0° ™	
				max. Earth dist.	13963 Aug 21 04:24	5° m 18'43	1.39243 AU
superior conj	13962 Sep 14 22:19	6° £ 27′23	-0°10'51				
minimum elong	13962 Sep 14 23:00	6° ≏ 30'48	0°10'42	superior conj	13963 Aug 28 20:00	19° m 06'37	-0°45'32
behind sun begin	13962 Sep 14 18:05	6° ჲ 06'35		minimum elong	13963 Aug 28 23:20	19° m 22'07	0°45'16
behind sun end	13962 Sep 15 03:56	6° £ 55'03		asc. node	13963 Sep 02 22:56	28° m 50'19	
asc. node	13962 Sep 16 02:23	8° ≏ 45'58			13963 Sep 03 13:22	0∘ ⊽	
evening rise	13962 Sep 23 04:43	23° △ 04'03		evening rise	13963 Sep 07 02:31	6° ≏ 53'08	
	13962 Sep 26 16:12	0°M			13963 Sep 20 12:33	0°M	100/
evening max el	13962 Oct 10 07:22	21°M13'09	19°36'03	evening max el	13963 Sep 23 05:38	3°M06'22	18°44'08
desc. node	13962 Oct 18 21:12	26°M03'18		retrograde	13963 Oct 01 13:24	7° ጤ 17'44	
retrograde	13962 Oct 20 03:21	26°M07'56		evening set	13963 Oct 03 11:09	7°M05'21	
evening set	13962 Oct 22 00:49	25°M57'48	2020107	desc. node	13963 Oct 05 18:38	6°M19'35	1050126
inferior conj	13962 Oct 30 18:35	21°M53'23		inferior conj	13963 Oct 11 13:46	2°M42'31	
minimum elong	13962 Oct 30 09:31	22°M07'45		minimum elong	13963 Oct 11 09:12	2°M50'53	1°48'18
min. Earth dist.	13962 Nov 02 01:37	20°11626'21	0.55374 AU	min. Earth dist.	13963 Oct 14 16:06	0° ™ 26'37	0.56978 AU

	13963 Oct 15 07:25	30° ₽ Ω		transit middle	13964 Sep 22 06:22	14° ≏ 19'11	0°11'09
morning rise	13963 Oct 19 03:55	27° £ 44'22		transit begin	13964 Sep 22 03:53	14° - 24'31	0 110)
direct	13963 Oct 25 01:19	26° £ 19'38		transit end	13964 Sep 22 08:51	14° ⊆ 13'50	
uncer	13963 Nov 03 20:30	0°M		min. Earth dist.	13964 Sep 25 13:53	11° ≏ 29'41	0.59082 AU
morning max el	13963 Nov 08 07:05	3°M44'10	26°32'34	morning rise	13964 Sep 29 10:47	8° ≏ 45'22	0.57002710
morning man er	13963 Nov 27 05:22	0° ∡ 7	20 323 .	direct	13964 Oct 05 20:40	6° £ 53'23	
asc. node	13963 Nov 30 00:33	5° х 08′17		morning max el	13964 Oct 20 04:05	14° ₽ 37'39	27°34'45
morning set	13963 Dec 07 08:47	20°× 00'36		morning man vi	13964 Nov 01 13:48	0°M	2, 3
	13963 Dec 11 22:08	0°ප		asc. node	13964 Nov 15 21:24	24°M37'06	
		• •			13964 Nov 18 13:36	0° ∡ 7	
superior conj	13963 Dec 14 03:53	4° る 59'41	1°37'01	morning set	13964 Nov 20 15:59	4° х 22′55	
minimum elong	13963 Dec 14 03:14	4° る 56'07	1°38'03	max. Earth dist.	13964 Nov 27 03:39	18° ∡ ′34'37	1.31160 AU
max. Earth dist.	13963 Dec 14 19:18	6° る 25'43	1.31368 AU				
evening rise	13963 Dec 21 01:47	20° පි 06'24		superior conj	13964 Nov 27 15:29	19° х 40'45	1°30'34
<i>8</i>	13963 Dec 25 22:24	0° ≈		minimum elong	13964 Nov 27 13:56	19° ∡ °32'08	1°31'27
desc. node	13964 Jan 01 16:36	12° ≈ 24'28		Ü	13964 Dec 02 06:51	0° ح	
	13964 Jan 13 08:37	0°) €		evening rise	13964 Dec 04 08:50	4° る 31'35	
evening max el	13964 Jan 21 09:47	9° ₩ 05'01	27°16'51	C	13964 Dec 17 16:32	0° ≈	
retrograde	13964 Feb 04 09:15	16° ¥ 22'24		desc. node	13964 Dec 18 13:30	1° ≈ 25'32	
evening set	13964 Feb 11 04:50	14°) 17′54		evening max el	13965 Jan 02 09:55	20°≈38'48	26°24'44
min. Earth dist.	13964 Feb 15 00:20	11°) 31'56	0.60686 AU	retrograde	13965 Jan 16 08:58	27° ≈ 45'05	
inferior conj	13964 Feb 18 04:01	8°) 49′20		evening set	13965 Jan 22 19:14	26°≈05'06	
minimum elong	13964 Feb 18 09:26	8°) 37'39		min. Earth dist.	13965 Jan 26 23:33	23° ≈ 28'17	0.58519 AU
morning rise	13964 Feb 25 17:13	3°) €57'42		inferior conj	13965 Jan 30 02:35	21° ≈ 08'21	
asc. node	13964 Feb 25 22:27	3°) €54'14		minimum elong	13965 Jan 30 10:52		3°51'22
direct	13964 Feb 27 19:19	3°) (39′57		morning rise	13965 Feb 07 05:32	16° ≈ 37'52	
morning max el	13964 Mar 05 23:34	7° ¥ 15'52	17°56'30	direct	13965 Feb 09 06:08	16° ≈ 23'50	
	13964 Mar 20 15:18	0°Υ		asc. node	13965 Feb 11 19:52	16° ≈ 47'38	
morning set	13964 Mar 21 13:30	1° Y '41'22		morning max el	13965 Feb 17 09:24	20° ≈ 24'33	18°26'27
desc. node	13964 Mar 29 18:32	16° Ƴ 32'21		Č	13965 Feb 24 13:55	0°) €	
				morning set	13965 Mar 05 05:49	15°) 44'29	
superior conj	13964 Apr 01 00:04	20° Y 27'30	-0°17'44	Č	13965 Mar 12 17:52	0° Y	
minimum elong	13964 Mar 31 22:31	20° Y ′20'42	0°17'44				
Č	13964 Apr 06 14:13	0° ႘		superior conj	13965 Mar 14 09:22	3° Y '02'59	0°18'03
max. Earth dist.	13964 Apr 08 11:45	3° 8 08'56	1.42682 AU	minimum elong	13965 Mar 14 10:38	3° Y 08'49	0°17'53
evening rise	13964 Apr 14 10:22	12° 8 44'36		desc. node	13965 Mar 16 15:03	7° Y °07'35	
C	13964 Apr 25 17:31	$\Pi^{\circ}0$		max. Earth dist.	13965 Mar 21 21:01	16° Ƴ 22'32	1.40601 AU
evening max el	13964 May 17 00:37	27° II 57'09	22°11'22	evening rise	13965 Mar 26 05:13	23° Y '41'45	
S	13964 May 19 05:18	0° ©		Ü	13965 Mar 30 02:19	0°႘	
asc. node	13964 May 23 19:11	2° © 58'51			13965 Apr 19 14:51	Π°	
retrograde	13964 May 26 14:08	3° © 34'08		evening max el	13965 Apr 29 15:42	11° Ⅱ 48'55	23°32'12
evening set	13964 May 31 07:18	1° © 36'34		retrograde	13965 May 10 09:12	18° Ⅱ 07'27	
S	13964 Jun 01 22:39	30°R∏		asc. node	13965 May 10 16:25	18° Ⅱ 07'03	
inferior conj	13964 Jun 05 13:54	25° Ⅱ 16'49	3°01'06	evening set	13965 May 15 13:58	15° Ⅱ 55'42	
minimum elong	13964 Jun 05 12:39	25° Ⅲ 21'11	2°59'55	inferior conj	13965 May 20 23:21	9° Ⅲ 28'50	2°41'02
min. Earth dist.	13964 Jun 05 12:26	25° Ⅲ 21'55	0.68956 AU	minimum elong	13965 May 20 21:28	9° Ⅲ 35'19	2°39'43
morning rise	13964 Jun 10 17:48	19° Ⅱ 03'41		min. Earth dist.	13965 May 20 09:07	10° Ⅱ 17'42	0.68840 AU
direct	13964 Jun 15 11:48	17° Ⅱ 03'07		morning rise	13965 May 26 04:54	3° Ⅲ 23′22	
morning max el	13964 Jun 24 20:12	22° Ⅱ 31'49	22°02'04	direct	13965 May 30 10:20	1° Ⅱ 43'10	
desc. node	13964 Jun 25 19:26	23° Ⅱ 31'38		morning max el	13965 Jun 07 14:21	6° Ⅲ 22'20	20°41'41
	13964 Jul 01 07:51	0° ©		desc. node	13965 Jun 12 16:30	12° Ⅱ 09'32	
	13964 Jul 22 05:36	$0^{\circ}\Omega$			13965 Jun 25 12:20	0∘ ©	
morning set	13964 Jul 27 15:48	8° Ω 33'12		morning set	13965 Jul 07 03:55	17° © 38'21	
max. Earth dist.	13964 Aug 02 05:19	17° Ω 38'49	1.41548 AU	Č	13965 Jul 14 23:51	$0^{\circ}\Omega$	
	13964 Aug 09 10:41	0° m)		max. Earth dist.	13965 Jul 15 13:11		1.43539 AU
	Č	7					
superior conj	13964 Aug 09 23:41	0° m 57'13	-1°20'35	superior conj	13965 Jul 22 05:07	11° Ω 49'41	-1°51'09
minimum elong	13964 Aug 10 05:48	1° m)24'13		minimum elong	13965 Jul 22 12:26	12° Ω 20′13	
asc. node	13964 Aug 19 19:31	18° m) 48'05		3	13965 Aug 01 19:02	0° m)	
evening rise	13964 Aug 20 13:48	20° m 12'47		evening rise	13965 Aug 03 10:01	2° m 51'25	
5 .	13964 Aug 25 22:08	0∘ ⊽		asc. node	13965 Aug 06 16:07	8° m/34'49	
evening max el	13964 Sep 05 13:25	15° Ω 41'14	18°13'27	evening max el	13965 Aug 20 02:24	28° m/46'40	18°02'33
retrograde	13964 Sep 12 18:38	19° Ω 21'26		<i>5</i> v.	13965 Aug 21 10:57	0∘ ⊽	·
evening set	13964 Sep 14 22:32	19° Ω 02'17		retrograde	13965 Aug 26 16:11	2° ♀ 10'17	
desc. node	13964 Sep 21 16:07	14° ≏ 49'35		evening set	13965 Aug 29 03:59	1° ≏ 40'40	
inferior conj	13964 Sep 22 06:46	14° Ω 18'19	-0°11'28	<u>U</u>	13965 Sep 01 01:00	30°R, M)	
minimum elong	13964 Sep 22 06:22	14° Ω 19'11	0°11'09	inferior conj	13965 Sep 04 19:21	26° m) 36'43	1°07'15
	r	.,	**			4	

minimum elong	13965 Sep 04 21:12	26° m 32'07	1°06'26	retrograde	13966 Aug 10 01:29	15° m 34'36	
min. Earth dist.	13965 Sep 04 21:12 13965 Sep 07 20:44	20° m/36'26	0.61368 AU	evening set	13966 Aug 12 21:40	13 my 34 30 14° my 51'41	
desc. node	13965 Sep 07 20.44 13965 Sep 08 13:39	23° m 57'20	0.01308 AU	inferior conj	13966 Aug 18 23:34	9° m) 30'16	2°04'12
morning rise	13965 Sep 11 11:45	22 ily 37 20 20° my 37'19		minimum elong	13966 Aug 19 02:02	9° m ₂ 30'10	2°03'02
•				min. Earth dist.	-		
direct	13965 Sep 18 03:24	18° My 21'37	27959124		13966 Aug 21 13:29	6° Mp 38'41	0.63572 AU
morning max el	13965 Oct 02 08:19	~	27°58'34	morning rise	13966 Aug 25 04:37	3° Mp 14'25	
	13965 Oct 05 19:20	ია ო		desc. node	13966 Aug 26 11:11	2° m/21'08	
,	13965 Oct 26 04:08	0°M,		direct	13966 Aug 31 19:54	0° Mp 42'09	27044116
asc. node	13965 Nov 02 18:09	14°M22'54		morning max el	13966 Sep 14 17:31	8° Mp 43'06	27°44'16
morning set	13965 Nov 04 18:00	18°M27'02			13966 Oct 01 06:06	0° ™	
en al en a	13965 Nov 10 03:43	0° ⊼ ¹	1 21 10 1 1 7 7		13966 Oct 18 10:49	0°M	
max. Earth dist.	13965 Nov 10 10:01	0° ∡ ³34'34	1.31484 AU	morning set	13966 Oct 19 12:34	2°M07'56	
				asc. node	13966 Oct 20 14:51	4°M20'26	
superior conj	13965 Nov 12 01:48	4° ⋌ 14'00	1°18'19	max. Earth dist.	13966 Oct 24 10:36	12°M17'03	1.32347 AU
minimum elong	13965 Nov 11 23:40	4° ⋌ ¹02'10	1°18'56				
evening rise	13965 Nov 18 18:51	19° ∡ '02'02		superior conj	13966 Oct 27 08:56	18° M ₊34'39	1°00'18
	13965 Nov 24 01:24	0°ಕ		minimum elong	13966 Oct 27 06:39	18°ML22'19	1°00'39
desc. node	13965 Dec 05 10:31	19° る 39'57			13966 Nov 01 14:31	0° ∡ ¹	
	13965 Dec 13 17:17	0° ≈		evening rise	13966 Nov 03 05:58	3° х 33′20	
evening max el	13965 Dec 15 01:31	1° ≈ 19'47	25°02'04		13966 Nov 17 08:09	0°ಕ	
retrograde	13965 Dec 28 20:35	8° ≈ 14'23		desc. node	13966 Nov 22 07:39	6° る 50'42	
evening set	13966 Jan 03 11:42	7° ≈ 03'29		evening max el	13966 Nov 26 11:25	11° る 24'25	23°21'42
min. Earth dist.	13966 Jan 08 13:28	4° ≈ 20'10	0.56574 AU	retrograde	13966 Dec 09 19:37	18° る 02'20	
inferior conj	13966 Jan 11 04:36	2° ≈ 37'56	-5°10'22	evening set	13966 Dec 14 04:56	17° る 20'28	
minimum elong	13966 Jan 11 13:03	2° ≈ 24'13	5°07'38	min. Earth dist.	13966 Dec 20 21:30	14° る 11'12	0.55141 AU
	13966 Jan 15 14:23	30°₹ る		inferior conj	13966 Dec 22 10:35	13° る 17'17	-5°54'39
morning rise	13966 Jan 19 16:43	28° る 29'24		minimum elong	13966 Dec 22 13:30	13° る 13'02	5°53'26
direct	13966 Jan 21 22:20	28° る 15'15		morning rise	13966 Dec 30 23:43	9° ප 25'51	
	13966 Jan 27 18:55	0° ≈		direct	13967 Jan 02 19:07	9° ප 06'54	
asc. node	13966 Jan 29 17:15	1° ≈ 21'25		morning max el	13967 Jan 13 19:41	14° る 23'29	20°33'14
morning max el	13966 Jan 31 09:18	2°≈50'10	19°18'16	asc. node	13967 Jan 16 14:35	17° る 23'05	
morning set	13966 Feb 17 07:11	0° ₩ 10'19			13967 Jan 24 23:58	0° ≈	
C	13966 Feb 17 05:07	0° ∀		morning set	13967 Feb 01 14:22	14° ≈ 49'21	
				C	13967 Feb 08 22:46	0°) €	
superior conj	13966 Feb 25 11:43	16°) 24'38	0°47'38				
minimum elong	13966 Feb 25 14:16	16° ¥ 36'58	0°47'35	superior conj	13967 Feb 09 02:43	0° ₩ 20'05	1°10'16
desc. node	13966 Mar 03 11:34	27° ¥ 42'15		minimum elong	13967 Feb 09 05:22	0°) €33'33	1°10'32
max. Earth dist.	13966 Mar 04 03:39	28°) 55′24	1.38339 AU	max. Earth dist.	13967 Feb 14 11:21	10° ¥ 56'58	1.36148 AU
	13966 Mar 04 17:56	$0^{\circ}\Upsilon$		evening rise	13967 Feb 18 07:39	18°) 10'41	
evening rise	13966 Mar 07 21:06	5° Ƴ 32'47		desc. node	13967 Feb 18 08:06	18°) 12'42	
	13966 Mar 23 02:32	0°8			13967 Feb 25 00:53	0°Υ	
evening max el	13966 Apr 12 05:18	25° 8 41'57	24°51'36				
e venning man er	13966 Apr 17 06:24	20 0 .107			13967 Mar 17 08:04	0°B	
retrograde		0°Π	2.0130	evening max el	13967 Mar 17 08:04 13967 Mar 25 18:46	0° と 9° と 32'39	26°02'27
Č .	-	0°Ⅱ 2°∏34'42	2. 3.30	evening max el	13967 Mar 25 18:46	9° 8 32'39	26°02'27
asc node	13966 Apr 24 00:35	2° Ⅱ 34'42	2.0130	retrograde	13967 Mar 25 18:46 13967 Apr 07 11:18	9° 8 32'39 16° 8 48'45	26°02'27
asc. node	13966 Apr 24 00:35 13966 Apr 27 13:44	2° ∏ 34'42 1° ∏ 40'16	2.0.50	retrograde evening set	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42	9° 8 32'39 16° 8 48'45 14° 8 18'19	26°02'27
asc. node evening set	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00	2° Д 34'42 1° Д 40'16 0° Д 11'33	2.0.50	retrograde evening set asc. node	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08	9°\dagge32'39 16°\dagge48'45 14°\dagge\18'19 13°\dagge\33'06	
evening set	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18	2°П34'42 1°П40'16 0°П11'33 30°R		retrograde evening set asc. node min. Earth dist.	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05	0.67230 AU
evening set min. Earth dist.	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01	2°∏34'42 1°∏40'16 0°∏11'33 30°R& 25°809'57	0.68256 AU	retrograde evening set asc. node min. Earth dist. inferior conj	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34	9°\days2'39 16°\days48'45 14°\days418'19 13°\days33'06 9°\days2'05 7°\days49'00	0.67230 AU 1°29'41
evening set min. Earth dist. inferior conj	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54	2°∏34'42 1°∏40'16 0°∏11'33 30°R8 25°8'09'57 23°8'41'02	0.68256 AU 2°10'43	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39	9°\days2'39 16°\days48'45 14°\days18'19 13°\days33'06 9°\days2'05 7°\days'00 7°\days'59	0.67230 AU
evening set min. Earth dist. inferior conj minimum elong	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45	2°∏34'42 1°∏40'16 0°∏11'33 30°R8 25°809'57 23°841'02 23°848'11	0.68256 AU	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31	0.67230 AU 1°29'41
evening set min. Earth dist. inferior conj minimum elong morning rise	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45	2°∏34'42 1°∏40'16 0°∭11'33 30°R& 25°႘09'57 23°႘41'02 23°႘48'11 17°႘44'28	0.68256 AU 2°10'43	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02	0.67230 AU 1°29'41 1°28'28
evening set min. Earth dist. inferior conj minimum elong morning rise direct	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09	2°∏34'42 1°∏40'16 0°∏11'33 30°R& 25°8'09'57 23°8'41'02 23°8'48'11 17°8'44'28 16°8'24'52	0.68256 AU 2°10'43 2°09'20	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52	9°\das2'39 16°\das48'45 14°\das48'19 13°\das3'06 9°\das2'05 7°\das49'00 7°\das45'59 2°\do2'02'31 1°\das2'02 4°\das5'37	0.67230 AU 1°29'41 1°28'28
evening set min. Earth dist. inferior conj minimum elong morning rise	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 21 15:59	2°∏34'42 1°∏40'16 0°∏11'33 30°R& 25°&09'57 23°&41'02 23°&48'11 17°&44'28 16°&24'52 20°&24'47	0.68256 AU 2°10'43 2°09'20	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18	9°\das2'39 16°\das4'45 14°\das4'19 13°\das3'06 9°\das2'05 7°\das4'9'00 7°\das4'59 2°\do2'31 1°\das2'02 4°\das5'37 21°\das4'10'45	0.67230 AU 1°29'41 1°28'28
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43	2°∏34'42 1°∏40'16 0°∏11'33 30°R& 25°8'09'57 23°8'41'02 23°8'48'11 17°8'44'28 16°8'24'52 20°8'24'47 0°∏	0.68256 AU 2°10'43 2°09'20	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23	9°\das2'39 16°\das4'45 14°\das4'19 13°\das3'06 9°\das2'05 7°\das4'9'00 7°\das4'59 2°\dos2'31 1°\dos2'02 4°\das5'37 21°\das4'10'45 0°\II	0.67230 AU 1°29'41 1°28'28
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28	2°∏34'42 1°∏40'16 0°∏11'33 30°R8 25°8'09'57 23°8'41'02 23°8'48'11 17°8'44'28 16°8'24'52 20°8'24'47 0°∏ 1°∏26'09	0.68256 AU 2°10'43 2°09'20 19°34'11	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38	9°\das2'39 16°\das4'45 14°\das4'19 13°\das3'06 9°\das2'05 7°\das4'9'00 7°\das5'459 2°\dos2'31 1°\das2'02 4°\das5'37 21°\das4'10'45 0°\pi 5°\pi40'20	0.67230 AU 1°29'41 1°28'28 18°42'10
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07	2° Π34'42 1° Π40'16 0° Π11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° Π 1° Π26'09 6° Π48'31	0.68256 AU 2°10'43 2°09'20	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°11 5°1140'20 29°1116'21	0.67230 AU 1°29'41 1°28'28
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50	2° ∏34'42 1° ∏40'16 0° ∏11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° ∏ 1° ∏26'09 6° ∏48'31 26° ∭21'22	0.68256 AU 2°10'43 2°09'20 19°34'11	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38	9°\das2'39 16°\das4'45 14°\das4'19 13°\das3'06 9°\das2'05 7°\das4'9'00 7°\das5'459 2°\dos2'31 1°\das2'02 4°\das5'37 21°\das4'10'45 0°\pi 5°\pi40'20	0.67230 AU 1°29'41 1°28'28 18°42'10
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 10 16:45 13966 May 11 16:45 13966 May 21 15:59 13966 May 22 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38	2°∏34'42 1°∏40'16 0°∏11'33 30°R8 25°8'09'57 23°8'41'02 23°8'48'11 17°8'44'28 16°8'24'52 20°8'24'47 0°∏ 1°∏26'09 6°∏48'31 26°∭21'22 0°\$	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 26 18:38 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°II 5°II40'20 29°II16'21 0°9	0.67230 AU 1°29'41 1°28'28 18°42'10
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50	2° ∏34'42 1° ∏40'16 0° ∏11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° ∏ 1° ∏26'09 6° ∏48'31 26° ∭21'22	0.68256 AU 2°10'43 2°09'20 19°34'11	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°II 5°II40'20 29°II16'21 0°9	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27	2° M34'42 1° M40'16 0° M11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° M 1° M26'09 6° M48'31 26° M21'22 0° \$52'03	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28	9°\&32'39 16°\&48'45 14°\&18'19 13°\&33'06 9°\&52'05 7°\&49'00 7°\&54'59 2°\&02'31 1°\&02'02 4°\&35'37 21°\&10'45 0°\\$\I 5°\\$\I40'20 29°\\$\I16'21 0°\\$\ 0°\\$\\$55'00 0°\\$55'00	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27	2° ∏34'42 1° ∏40'16 0° ∏11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° ∏ 1° ∏26'09 6° ∏48'31 26° ∏21'22 0° \$2 14° \$52'03	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist.	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 108:48 13967 Jun 11 19:28 13967 Jun 27 09:49	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°11 5°116'21 0°9 0°955'00 0°941'43 25°920'23	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist.	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 14 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27	2° ∏34'42 1° ∏40'16 0° ∏11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° ∏ 1° ∏26'09 6° ∏48'31 26° ∏21'22 0° 9 14° 9552'03 21° 9542'59 21° 9559'25	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 27 09:49 13967 Jun 30 07:45	9°\832'39 16°\848'45 14°\818'19 13°\833'06 9°\852'05 7°\849'00 7°\854'59 2°\802'31 1°\802'02 4°\835'37 21°\810'45 0°\\$\\$5°\\$\\$40'20 29°\\$\\$16'21 0°\\$\$ 0°\\$55'00 0°\\$41'43 25°\\$20'23 0°\\$\\$	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45 2°12'44
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 15:59 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27 13966 Jul 02 10:55 13966 Jul 02 15:01 13966 Jul 07 14:01	2° M34'42 1° M40'16 0° M11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° M 1° M26'09 6° M48'31 26° M21'22 0° 9 14° 952'03 21° 952'03	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 11 19:28 13967 Jun 27 09:49 13967 Jun 30 07:45 13967 Jul 04 04:18	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°II 5°II40'20 29°II16'21 0°9 0°955'00 0°941'43 25°920'23 0°\$ 6°\$\O8'59	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27 13966 Jul 02 10:55 13966 Jul 02 15:01 13966 Jul 07 14:01 13966 Jul 16 10:04	2° M 34'42 1° M 40'16 0° M 11'33 30° R 8 25° 809'57 23° 8 41'02 23° 8 48'11 17° 8 44'28 16° 8 24'52 20° 8 24'47 0° M 1° M 26'09 6° M 48'31 26° M 21'22 0° 9 14° 9 52'03 21° 9 42'59 21° 9 59'25 0° Ω 14° Ω 36'59	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy asc. node	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 11 19:28 13967 Jun 30 07:45 13967 Jul 04 04:18 13967 Jul 11 09:34	9°832'39 16°848'45 14°818'19 13°833'06 9°852'05 7°849'00 7°854'59 2°802'31 1°802'02 4°835'37 21°810'45 0°II 5°II40'20 29°II16'21 0°9 0°9555'00 0°951'43 25°920'23 0°0 6°008'59 17°014'55	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45 2°12'44 -0.9m
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27 13966 Jul 02 10:55 13966 Jul 02 15:01 13966 Jul 07 14:01 13966 Jul 16 10:04 13966 Jul 16 10:04 13966 Jul 24 12:48	2° M34'42 1° M40'16 0° M11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° M 1° M26'09 6° M48'31 26° M21'22 0° 9 14° 952'03 21° 959'25 0° Ω 14° Ω36'59 28° Ω05'58	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy asc. node evening max el	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 11 19:28 13967 Jun 27 09:49 13967 Jun 30 07:45 13967 Jul 04 04:18 13967 Jul 11 09:34 13967 Jul 11 09:34 13967 Jul 18 05:45	9°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45 2°12'44
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise asc. node	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27 13966 Jul 02 10:55 13966 Jul 02 15:01 13966 Jul 07 14:01 13966 Jul 16 10:04 13966 Jul 24 12:48 13966 Jul 25 17:10	2° M34'42 1° M40'16 0° M11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° M 1° M26'09 6° M48'31 26° M21'22 0° 9 14° 952'03 21° 959'25 0° Ω 14° Ω36'59 28° Ω05'58 0° M	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27 2°11'19	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy asc. node evening max el retrograde	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 26 18:38 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 11 19:28 13967 Jun 27 09:49 13967 Jul 04 04:18 13967 Jul 11 09:34 13967 Jul 18 05:45 13967 Jul 18 05:45 13967 Jul 24 18:16	9°\\delta 32'39 16°\delta 48'45 14°\delta 18'19 13°\delta 33'06 9°\delta 52'05 7°\delta 49'00 7°\delta 54'59 2°\delta 02'02 4°\delta 53'37 21°\delta 10'45 0°\Pi 5°\Pi 40'20 29°\Pi 16'21 0°\delta 0°\delta 55'00 0°\delta 41'43 25°\delta 25'\delta 23' 0°\delta 6°\delta 08'59 17°\delta 14'55 25°\delta 53'17 29°\delta 25'01	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45 2°12'44 -0.9m
evening set min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node greatest brilliancy morning set max. Earth dist. superior conj minimum elong evening rise	13966 Apr 24 00:35 13966 Apr 27 13:44 13966 Apr 29 17:00 13966 Apr 29 22:18 13966 May 04 04:01 13966 May 05 06:54 13966 May 05 04:45 13966 May 10 16:45 13966 May 11 10:09 13966 May 21 15:59 13966 May 29 12:43 13966 May 30 13:28 13966 May 30 13:28 13966 Jun 03 07:07 13966 Jun 16 05:50 13966 Jun 18 14:38 13966 Jun 28 03:27 13966 Jul 02 10:55 13966 Jul 02 15:01 13966 Jul 07 14:01 13966 Jul 16 10:04 13966 Jul 16 10:04 13966 Jul 24 12:48	2° M34'42 1° M40'16 0° M11'33 30° R8 25° 809'57 23° 841'02 23° 848'11 17° 844'28 16° 824'52 20° 824'47 0° M 1° M26'09 6° M48'31 26° M21'22 0° 9 14° 952'03 21° 959'25 0° Ω 14° Ω36'59 28° Ω05'58	0.68256 AU 2°10'43 2°09'20 19°34'11 -0.6m 1.44988 AU -2°10'27 2°11'19	retrograde evening set asc. node min. Earth dist. inferior conj minimum elong morning rise direct morning max el desc. node morning set max. Earth dist. superior conj minimum elong evening rise greatest brilliancy asc. node evening max el	13967 Mar 25 18:46 13967 Apr 07 11:18 13967 Apr 13 14:42 13967 Apr 14 11:08 13967 Apr 17 19:06 13967 Apr 19 10:34 13967 Apr 19 08:39 13967 Apr 25 03:21 13967 Apr 28 09:37 13967 May 05 00:52 13967 May 17 10:18 13967 May 23 03:23 13967 May 26 18:38 13967 Jun 10 21:37 13967 Jun 11 08:48 13967 Jun 11 19:28 13967 Jun 11 19:28 13967 Jun 27 09:49 13967 Jun 30 07:45 13967 Jul 04 04:18 13967 Jul 11 09:34 13967 Jul 11 09:34 13967 Jul 18 05:45	9°\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	0.67230 AU 1°29'41 1°28'28 18°42'10 1.45761 AU -2°11'45 2°12'44 -0.9m

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inferior conj	13967 Aug 02 15:22			evening set			2002127
minimum elong	13967 Aug 02 17:27	22° Ω 43'35	2°40'45	inferior conj	13968 Jul 16 15:23	6° Ω 29'21	3°03'27
min. Earth dist.	13967 Aug 04 15:24	20° Ω 23'36	0.65513 AU	minimum elong	13968 Jul 16 16:36	6° Ω 25'23	3°02'23
morning rise	13967 Aug 08 10:37	16° Ω 26'30		min. Earth dist.	13968 Jul 18 00:58	4° Ω 39'41	0.67076 AU
desc. node	13967 Aug 13 08:42	13° Ω 55'04		morning rise	13968 Jul 22 03:05	0° Ω 04'40	
direct	13967 Aug 14 20:39	13° Ω 46′51			13968 Jul 22 05:13	30°ષ્દ્	
morning max el	13967 Aug 28 04:39	21° Ω 39′10	26°57'29	direct	13968 Jul 28 04:12	27° © 27'11	
	13967 Sep 04 11:27	0° m)		desc. node	13968 Jul 30 06:09	27° © 43'24	
	13967 Sep 24 10:57	0∘ ত			13968 Aug 03 22:58	$0^{\circ}\Omega$	
morning set	13967 Oct 02 20:48	15° ≏ 18'19		morning max el	13968 Aug 09 15:32	4° Ω 54'51	25°46'44
max. Earth dist.	13967 Oct 07 01:55	23° ≏ 36′21	1.33742 AU		13968 Aug 28 22:14	0° m)	
asc. node	13967 Oct 07 11:28	24° ≙ 24'43		morning set	13968 Sep 14 15:05	27° m 49'14	
	13967 Oct 10 04:41	0° M .		•	13968 Sep 15 19:30	0∘ ⊽	
				max. Earth dist.	13968 Sep 18 07:09	4° ≏ 40'20	1.35634 AU
superior conj	13967 Oct 11 10:36	2°M36'31	0°36'40	asc. node	13968 Sep 23 08:02	14° ≏ 31'40	
minimum elong	13967 Oct 11 08:49	2°M27'12	0°36'50				
evening rise	13967 Oct 18 16:17	18°ML00'17	0 30 20	superior conj	13968 Sep 24 04:06	16° ≏ 12'37	0°07'49
evening rise	13967 Oct 24 13:44	0° ∡ ¹		minimum elong	13968 Sep 24 03:38	16° ⊆ 10'15	0°07'55
			21941127	_	-		0 07 33
evening max el	13967 Nov 08 00:27	21°×728'28	21°41'37	behind sun begin	13968 Sep 23 22:13	15° Ω 42'57	
desc. node	13967 Nov 09 04:54	22° х 35'12		behind sun end	13968 Sep 24 09:03	16° ≏ 37'36	
retrograde	13967 Nov 20 08:24	27° ∡ ³35′16			13968 Sep 30 21:06	0° M	
evening set	13967 Nov 23 08:48	27° ∡ 14'41		evening rise	13968 Oct 01 23:43	2° ™ 17′23	
inferior conj	13967 Dec 02 03:37	23° ∡ ′21′31	-5°44'42		13968 Oct 18 02:47	0° ∡ ¹	
minimum elong	13967 Dec 01 21:34	23° х 29'59	5°42'55	evening max el	13968 Oct 20 01:12	2° ∡ 05'33	20°16'00
min. Earth dist.	13967 Dec 02 03:39	23° х 21'28	0.54496 AU	desc. node	13968 Oct 26 02:15	6° ∡ ¹26′07	
morning rise	13967 Dec 10 11:10	19° ∡ ³33'32		retrograde	13968 Oct 30 19:54	7° ∡ ¹27'18	
direct	13967 Dec 14 03:55	19° ∡ ¹03'41		evening set	13968 Nov 01 22:45	7° ∡ 15'50	
morning max el	13967 Dec 26 15:51	25° ∡ 03'55	22°09'23	inferior conj	13968 Nov 10 20:58	3° ∡ 19'24	-4°36'24
Ü	13967 Dec 31 03:14	ರ°0		minimum elong	13968 Nov 10 10:51	3° ∡ ³34'19	4°32'42
asc. node	13968 Jan 03 11:50	4° る 35'24		min. Earth dist.	13968 Nov 12 10:43	2° х ⁷ 23'38	0.54789 AU
morning set	13968 Jan 17 00:56	29° る 34'38		min. Darwi dige.	13968 Nov 16 23:57	30°RM.	0.5 1,705 110
morning sec	13968 Jan 17 05:44	0° ≈		morning rise	13968 Nov 18 22:13	29°M15'43	
	13700 Jan 17 03.44	0 ∼		direct	13968 Nov 23 14:01	28°M28'46	
	120(0 1 24 02.42	1.49 - 20102	192700	direct		0° 1	
superior conj	13968 Jan 24 02:43	14°≈39'02	1°26'00		13968 Nov 29 22:57		22057154
minimum elong	13968 Jan 24 04:46	14°≈49'47	1°26'39	morning max el	13968 Dec 07 02:31	5° ₹ 07'04	23°57'54
max. Earth dist.	13968 Jan 28 00:46	22°≈47'30	1.34241 AU	asc. node	13968 Dec 20 08:58	22° ∡ ¹41'13	
	13968 Jan 31 15:34	0° ∀			13968 Dec 24 11:14	0°ಕ	
evening rise	13968 Feb 01 09:25	1° ¥ 26′30		morning set	13968 Dec 31 12:48	14° る 19'30	
desc. node	13968 Feb 05 04:40	8°) 34′58					
	13968 Feb 18 00:51	0 ° Υ		superior conj	13969 Jan 07 08:46	29° る 12'04	1°35'09
evening max el	13968 Mar 07 08:30	23° Y 14'36	26°57'22	minimum elong	13969 Jan 07 09:49	29° る 17'49	1°36'05
	13968 Mar 17 00:01	0° 8			13969 Jan 07 17:35	0° ≈	
retrograde	13968 Mar 20 16:25	0° 8 41'44		max. Earth dist.	13969 Jan 09 22:06	4° ≈ 42'58	1.32746 AU
	13968 Mar 24 03:31	30° ŖƳ		evening rise	13969 Jan 14 22:51	15° ≈ 10′16	
evening set	13968 Mar 27 05:08	28° Y ′09'36		desc. node	13969 Jan 22 01:17	28° ≈ 43'33	
min. Earth dist.	13968 Mar 31 04:18	24° Ƴ 16'52	0.65796 AU		13969 Jan 22 18:20	0° \	
asc. node	13968 Mar 31 08:35	24° Ƴ 04'47			13969 Feb 11 19:10	0° Υ	
inferior conj	13968 Apr 02 08:04	21° Y ′47'40	0°37'19	evening max el	13969 Feb 17 21:27	6° Υ 36'13	27°29'05
minimum elong	13968 Apr 02 07:05	21° Y ′50'30	0°36'38	retrograde	13969 Mar 03 14:44	14° Υ '03'47	2, 2, 00
morning rise	13968 Apr 08 10:28	16° Υ 13'03	0 3030	evening set	13969 Mar 10 10:02	11° Y 36'28	
direct	-	15° Υ 28'55		min. Earth dist.	13969 Mar 14 05:30	8° Υ 14'22	0.64007 AU
	13968 Apr 11 06:47	13 γ 28 33 18° γ 48'41	1000/150			5° Υ 29'29	
morning max el	13968 Apr 17 15:18		18°06'50	inferior conj	13969 Mar 16 20:43		
	13968 Apr 26 04:22	0° 8		minimum elong	13969 Mar 16 21:33	5° Y 27'18	0°26'34
desc. node	13968 May 03 07:02	11° 8 15'50		asc. node	13969 Mar 18 06:04	4° Υ ′03'49	
morning set	13968 May 06 09:28	16° 8 16'49		morning rise	13969 Mar 23 11:16	0° Y ′09'06	
	13968 May 14 22:25	Π \circ 0			13969 Mar 23 20:51	30° ₹ ₩	
				direct	13969 Mar 25 23:01	29°) ₹37'58	
superior conj	13968 May 21 08:01	10° Ⅱ 06'47	-1°53'04		13969 Mar 28 01:05	0 ° Υ	
minimum elong	13968 May 20 23:17	9° Ⅱ 32'30	1°53'20	morning max el	13969 Apr 01 08:38	2° Y 55'26	17°48'42
max. Earth dist.	13968 May 23 17:29	13° Ⅲ 51'47	1.45798 AU	morning set	13969 Apr 18 03:54	28° Y 12'57	
	13968 Jun 03 02:39	0ಂತಾ		-	13969 Apr 19 05:12	0°8	
evening rise	13968 Jun 06 10:29	5°908'54		desc. node	13969 Apr 20 03:38	1° 8 34'46	
greatest brilliancy	13968 Jun 18 16:50	23°955'50	-0.7m		r		
3y	13968 Jun 22 20:37	0° Ω	* · · · · · · ·	superior conj	13969 May 01 06:56	20° 8 00'19	-1°19'39
asc. node	13968 Jun 27 06:25	5° Ω 54'04		minimum elong	13969 Apr 30 23:05	19° 8 28'35	
	13968 Jun 30 14:35	9° Ω 40'11	19°18'28	max. Earth dist.	13969 Apr 30 23:03 13969 May 06 12:57	28° 8 23'44	1.45092 AU
evening max el			17 10 40	max. Earth dist.	•		1.45092 AU
retrograde	13968 Jul 07 15:15	13° Ω 35′01			13969 May 07 13:21	Π °0	

evening rise	13969 May 16 22:15	14° Ⅲ 32'29		evening max el	13970 May 27 15:17	7°গু19'48	21°26'47
	13969 May 27 04:04	0ಂಣ		asc. node	13970 Jun 01 00:26	10° © 59'18	
evening max el	13969 Jun 13 17:53	23° © 29'59	20°16'21	retrograde	13970 Jun 05 12:39	12° © 31'12	
asc. node	13969 Jun 14 03:22	23° © 53'23		evening set	13970 Jun 09 23:31	10° © 42'19	
retrograde	13969 Jun 21 14:02	27° © 59'06		inferior conj	13970 Jun 15 05:26	4° © 27'53	3°07'59
evening set	13969 Jun 25 14:16	26°526'54		minimum elong	13970 Jun 15 04:40	4°930'34	3°06'52
inferior conj	13969 Jun 30 20:51	20°523'37		min. Earth dist.	13970 Jun 15 11:22	4°907'13	0.68813 AU
minimum elong	13969 Jun 30 21:03	20°S22'57	3°10'30		13970 Jun 18 15:02	30°RⅡ	
min. Earth dist.	13969 Jul 01 16:18	19°517'15	0.68184 AU	morning rise	13970 Jun 20 09:37	28° I I1'13	
morning rise	13969 Jul 06 03:31	14°901'46		direct	13970 Jun 25 10:52	26°Ⅱ00'05	
direct	13969 Jul 11 17:17	11°934'34		4 4-	13970 Jul 03 10:50 13970 Jul 04 00:44	0° © 0° ©	
desc. node	13969 Jul 17 03:30 13969 Jul 23 01:51	13° © 24'30 18° © 22'35	24921150	desc. node morning max el	13970 Jul 04 00:44 13970 Jul 05 13:02	1°958'37	22052117
morning max el	13969 Aug 01 20:38	18 3 22 33	24 21 30	morning max ei	13970 Jul 03 13:02 13970 Jul 26 19:28	1 \$38.37 0°Ω	22 32 17
	13969 Aug 01 20:58 13969 Aug 21 23:52	0° m)		morning set	13970 Jul 26 19.28 13970 Aug 08 16:40	20°Ω13'01	
morning set	13969 Aug 27 15:12	9° m) 31'09		max. Earth dist.	13970 Aug 08 10.40 13970 Aug 13 05:07	20° Ω 47'35	1.40249 AU
max. Earth dist.	13969 Aug 31 06:08	15° m) 54'57	1.37883 AU	max. Lartii dist.	13970 Aug 14 11:58	0°m)	1.4024) AU
max. Lattii dist.	15707 Aug 31 00.00	13 111/3437	1.57005 AC		13770 Aug 14 11.30	עווי ∨	
superior conj	13969 Sep 07 10:11	29° m 15'33	-0°25'17	superior conj	13970 Aug 21 00:43	11° m)34'59	-1°00'36
minimum elong	13969 Sep 07 11:55	29° m 23'51		minimum elong	13970 Aug 21 05:17	11° m 55'46	1°00'19
minimum crong	13969 Sep 07 19:25	0° ⊽	0 23 00	asc. node	13970 Aug 28 01:06	24° Mp 39'56	1 00 1)
asc. node	13969 Sep 10 04:34	ა — 4° ჲ 38'06		evening rise	13970 Aug 30 19:44	29° m 57'03	
evening rise	13969 Sep 16 01:55	16° £ 19'10		evening rise	13970 Aug 30 20:22	0° 0	
	13969 Sep 23 05:36	0° M		evening max el	13970 Sep 15 18:56	25° £ 42'22	18°28'30
evening max el	13969 Oct 02 16:12	13°MJ31'05	19°11'19	retrograde	13970 Sep 23 14:10	29° ₽ 39'10	
retrograde	13969 Oct 11 19:33	18°ML06'03		evening set	13970 Sep 25 14:04	29° £ 24'25	
desc. node	13969 Oct 12 23:41	18° M .01'48		desc. node	13970 Sep 29 21:11	27° £ 25'28	
evening set	13969 Oct 13 16:15	17°ML55'26		inferior conj	13970 Oct 03 08:51	24° £ 52'13	-1°06'26
inferior conj	13969 Oct 22 04:21	13°ML43'41	-2°53'15	minimum elong	13970 Oct 03 06:15	24° ≙ 57'20	1°05'02
minimum elong	13969 Oct 21 21:01	13°M56'01	2°49'51	min. Earth dist.	13970 Oct 06 14:36	22° ≙ 20'12	0.57829 AU
min. Earth dist.	13969 Oct 24 21:24	11°M54'45	0.55974 AU	morning rise	13970 Oct 10 18:57	19° ≏ 38'23	
morning rise	13969 Oct 29 23:14	9° M .07'41		direct	13970 Oct 16 22:11	18° ≏ 02'17	
direct	13969 Nov 04 11:03	7°M58'19		morning max el	13970 Oct 31 05:31	25° ≙ 35'51	27°03'36
morning max el	13969 Nov 18 12:51	15°ML07'09	25°42'09		13970 Nov 04 08:29	0°M₊	
	13969 Nov 30 10:18	0° ∡ ¹			13970 Nov 23 18:05	0° ∡ 7	
asc. node	13969 Dec 07 05:59	11° ∡ ¹27′10		asc. node	13970 Nov 24 02:53	0° ∡ ¹42'16	
morning set	13969 Dec 16 00:14	28° ₹ ¹59'23		morning set	13970 Nov 30 09:29	13° ∡ ¹28'58	
	13969 Dec 16 11:29	0°ಕ					
				superior conj	13970 Dec 07 05:58	28° х 34′30	
superior conj	13969 Dec 22 18:31	13° る 52'40	1°38'04	minimum elong	13970 Dec 07 04:55	28° ∡ ¹28'38	1°35'59
minimum elong	13969 Dec 22 18:29	13° る 52'29	1°39'07	max. Earth dist.	13970 Dec 07 09:56	28° ∡ ¹56'42	1.31212 AU
max. Earth dist.	13969 Dec 24 02:11	16° ප් 47'51	1.31728 AU		13970 Dec 07 21:15	0°ਰ	
evening rise	13969 Dec 29 21:02	29° る 14'46		evening rise	13970 Dec 14 01:26	13°る33'08	
	13969 Dec 30 05:45	0° ≈			13970 Dec 22 07:18	0° ≈	
desc. node	13970 Jan 08 22:00	18°≈32'35		desc. node	13970 Dec 26 18:51	7°≈53'53	
	13970 Jan 15 21:25	0° \	27020150		13971 Jan 12 00:22	0° ∀	26050150
evening max el	13970 Jan 31 07:23	19° ¥ 24'24 26° ¥ 46'01	27°30′39	evening max el	13971 Jan 13 11:35	1° ∺ 26'38 8° ∺ 39'37	26°58'50
retrograde	13970 Feb 14 05:13 13970 Feb 21 02:42	24°\(\dagger)30'50		retrograde evening set	13971 Jan 27 10:57	6° ∺ 44′23	
evening set min. Earth dist.	13970 Feb 21 02.42 13970 Feb 24 20:55		0.61951 AU	min. Earth dist.	13971 Feb 03 03:52 13971 Feb 07 01:45	4°) (04'21	0.59753 AU
inferior conj	13970 Feb 24 20:33 13970 Feb 27 21:23	18°) 46'31		inferior conj	13971 Feb 07 01:43 13971 Feb 10 06:29	1° H 29'10	
minimum elong	13970 Feb 28 00:57	18°) 38'14		minimum elong	13971 Feb 10 00:29 13971 Feb 10 13:15	1° X 15'26	
asc. node	13970 Mar 05 03:34	14° X 35'51	1 40 40	minimum clong	13971 Feb 12 03:33	30°R≈	3 02 30
morning rise	13970 Mar 07 02:05	13°) √43'33		morning rise	13971 Feb 18 01:52	26°≈46'39	
direct	13970 Mar 09 07:06	13° ¥ 21'51		direct	13971 Feb 20 02:48	26°≈30'53	
morning max el	13970 Mar 16 01:53	16°) 47'38	17°48'18	asc. node	13971 Feb 20 01:01	26°≈30'54	
	13970 Mar 25 11:08	0°Υ			13971 Feb 27 09:04	0° ₩	
morning set	13970 Mar 31 20:45	11° Υ 12'15		morning max el	13971 Feb 27 15:37	0°) 15'45	18°06'48
desc. node	13970 Apr 07 00:09	22° Υ '03'06		morning set	13971 Mar 15 06:02	24°) 56'43	
	13970 Apr 11 15:00	0°8		<i>5</i>	13971 Mar 17 23:04	0°Υ	
	r	-		desc. node	13971 Mar 24 20:40	12° Υ 37'06	
superior conj	13970 Apr 12 04:52	0° 8 58'46	-0°40'14				
minimum elong	13970 Apr 12 01:02	0° 8 42'34	0°40'05	superior conj	13971 Mar 25 02:24	13° Y 02'44	-0°01'56
max. Earth dist.	13970 Apr 19 05:29	12° 8 35'46	1.43721 AU	minimum elong	13971 Mar 25 02:14	13° Ƴ 01'57	0°02'02
evening rise	13970 Apr 26 13:09	24° 8 11'48		behind sun begin	13971 Mar 24 18:35	12° Ƴ 27'47	
	13970 Apr 30 07:39	$\Pi^{\circ}0$		behind sun end	13971 Mar 25 09:53	13° Y 36'03	
	13970 May 21 07:16	0ಂಣ		max. Earth dist.	13971 Apr 01 17:18	26° Ƴ 13'15	1.41831 AU

	13971 Apr 03 23:55	0°8		evening rise	13972 Mar 18 00:00	15° Ƴ 58'07	
evening rise	13971 Apr 06 20:04	4° 8 37'15			13972 Mar 26 15:50	0° ႘	
	13971 Apr 23 13:58	Π °0			13972 Apr 17 06:40	$\Pi^{\circ}0$	
evening max el	13971 May 10 08:00	21° Ⅱ 10′32	22°45'24	evening max el	13972 Apr 21 22:09	5° Ⅱ 03'03	24°06'32
asc. node	13971 May 18 21:38	26° ∏ 56'06		retrograde	13972 May 03 03:22	11° Ⅲ 38′00	
retrograde	13971 May 20 09:33	27° Ⅱ 06'15		asc. node	13972 May 04 18:55	11° Ⅲ 25'56	
evening set	13971 May 25 07:38	25° Ⅱ 02'11	2052151	evening set	13972 May 08 12:59	9° Ⅱ 21'06	0.60646.411
inferior conj minimum elong	13971 May 30 15:09 13971 May 30 13:36	18° Ⅱ 38'47 18° Ⅱ 44'12	2°53'51 2°52'36	min. Earth dist. inferior conj	13972 May 13 04:28 13972 May 14 00:04	3° П 58'25 2° П 51'56	0.68646 AU 2°29'29
min. Earth dist.	13971 May 30 13:30 13971 May 30 08:09	18 Ⅱ 44 12 19° Ⅱ 03'09	0.68964 AU	minimum elong	13972 May 14 00:04 13972 May 13 22:01	2° I I58'54	2°28'07
morning rise	13971 Jun 04 19:28	12° Ⅱ 28'47	0.00704 AC	minimum clong	13972 May 16 04:29	30°R 8	2 2007
direct	13971 Jun 09 07:57	10° I 37'00		morning rise	13972 May 19 07:07	26° 8 49'52	
morning max el	13971 Jun 18 03:55	15° Ⅱ 44'03	21°26'32	direct	13972 May 23 07:16	25° 8 18'34	
desc. node	13971 Jun 20 21:51	18° Ⅱ 41'21		morning max el	13972 May 31 01:08	29° 8 40'01	20°11'06
	13971 Jun 29 17:00	0ංම			13972 May 31 09:08	$\Pi^{\circ}0$	
morning set	13971 Jul 19 17:24	29° © 50'53		desc. node	13972 Jun 06 18:52	7° Ⅱ 37'26	
	13971 Jul 19 19:42	0 $^{\circ}$ Ω			13972 Jun 22 06:32	0 \circ	
max. Earth dist.	13971 Jul 26 08:48	10° Ω 31'40	1.42450 AU	morning set	13972 Jun 27 22:51	8° 5 40'11	
				max. Earth dist.	13972 Jul 07 18:56	24°504'30	1.44234 AU
superior conj	13971 Aug 02 19:20	23° Ω 01'34			13972 Jul 11 11:24	0 $^{\circ}\Omega$	
minimum elong	13971 Aug 03 02:19	23° Ω 31'39	1°34'22		12072 1 1 12 14 26	20 (2012.1	2001110
evening rise	13971 Aug 06 19:18 13971 Aug 14 01:16	0° Mp 13° Mp 01'06		superior conj minimum elong	13972 Jul 13 14:36	3°Ω28'31 3°Ω55'36	
asc. node	13971 Aug 14 01:16 13971 Aug 14 21:41	13° my 33'41		evening rise	13972 Jul 13 21:13 13972 Jul 26 13:31	25°Ω18'32	2-01-39
asc. Houc	13971 Aug 14 21:41 13971 Aug 23 18:42	0∘ ⊽		evening rise	13972 Jul 29 06:51	0°m)	
evening max el	13971 Aug 30 05:23	ა _ 8° ჲ 31'16	18°06'25	asc. node	13972 Jul 31 18:20	راب 4° الراب 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4° 4°	
retrograde	13971 Sep 06 02:54	12° £ 02'56		evening max el	13972 Aug 12 19:28	21° mp 47'21	18°03'40
evening set	13971 Sep 08 09:55	11° ≏ 39'53		retrograde	13972 Aug 19 05:52	25° m 08'01	
inferior conj	13971 Sep 15 10:40	6° £ 47'16	0°24'39	evening set	13972 Aug 21 21:11	24° m 33'08	
minimum elong	13971 Sep 15 11:27	6° ≙ 45'27	0°24'22	inferior conj	13972 Aug 28 06:25	19° m 21'48	1°33'57
desc. node	13971 Sep 16 18:43	5° ₾ 33'29		minimum elong	13972 Aug 28 08:41	19° m 15'50	1°32'54
min. Earth dist.	13971 Sep 18 16:22	3° ჲ 50'43	0.60050 AU	min. Earth dist.	13972 Aug 31 03:32	16°M 22'38	0.62333 AU
morning rise	13971 Sep 22 09:45	1° ≏ 01'25		desc. node	13972 Sep 02 16:15	14° m)03'31	
	13971 Sep 24 07:48	30°R, M)		morning rise	13972 Sep 03 17:51	13° Mp 14'16	
direct	13971 Sep 28 22:46	28° m 58'31		direct	13972 Sep 10 10:15	10° M 50'05	27057147
marning may al	13971 Oct 03 18:31 13971 Oct 13 06:00	0° 죠 6° 요 50'01	27°49'41	morning max el	13972 Sep 24 12:33 13972 Oct 03 23:19	18° Mp 50′24 0° <u>₽</u>	27°56'46
morning max el	13971 Oct 13 06:00 13971 Oct 30 17:43	0°M	2/ 4941		13972 Oct 03 25:19 13972 Oct 22 15:03	0°M	
asc. node	13971 Nov 10 23:41	20°M18'49		asc. node	13972 Oct 22 13:03 13972 Oct 27 20:26	10°ML10'31	
morning set	13971 Nov 14 14:44	27°ML43'59		morning set	13972 Oct 27 20:20 13972 Oct 28 13:54	11°M39'22	
	13971 Nov 15 16:28	0° ∡ ¹		max. Earth dist.	13972 Nov 02 21:56	22°M54'46	1.31780 AU
max. Earth dist.	13971 Nov 20 17:46	11° ∡ *01'55	1.31225 AU				
				superior conj	13972 Nov 05 02:30	27° M 41'53	1°11'22
superior conj	13971 Nov 21 17:15	13° ∡ 12'37	1°26'04	minimum elong	13972 Nov 05 00:14	27° M 29'27	1°11'53
minimum elong	13971 Nov 21 15:24	13° ∡ 02'21	1°26'51		13972 Nov 06 03:35	0° ∡ ¹	
evening rise	13971 Nov 28 09:57	28° ∡ 00'35		evening rise	13972 Nov 11 20:41	12° ∡ ³32′26	
	13971 Nov 29 08:14	0°₹			13972 Nov 20 12:52	0° る	
desc. node	13971 Dec 13 15:49	26° る 36'44		desc. node	13972 Nov 29 12:54	14°る26'57	24020120
	13971 Dec 15 21:50 13971 Dec 26 07:52	0° ≈ 12° ≈ 36'17	25°52'46	evening max el	13972 Dec 06 20:31 13972 Dec 20 12:33	22°る59'40 29°る48'10	24°20'39
evening max el retrograde	13971 Dec 26 07.32 13972 Jan 09 06:08	12 ≈36 17 19°≈38'49	23 32 40	retrograde evening set	13972 Dec 20 12.33 13972 Dec 25 15:48	29 848 10 28° る 50'24	
evening set	13972 Jan 15 09:26	19 ≈3849 18°≈10'42		min. Earth dist.	13972 Dec 23 13.48 13972 Dec 31 08:10	28 3 50 24 25° る 58'11	0.55876 AU
min. Earth dist.	13972 Jan 19 20:47	15°≈33'16	0.57634 AU	inferior conj	13973 Jan 02 13:41	24° ට 35'48	
inferior conj	13972 Jan 22 20:29	13°≈27'27		minimum elong	13973 Jan 02 20:33	24° る 25'12	
minimum elong	13972 Jan 23 05:22	13° ≈ 11'48	4°25'50	morning rise	13973 Jan 11 03:15	20° පි 35'11	
morning rise	13972 Jan 31 04:11	9° ≈ 06'46		direct	13973 Jan 13 13:28	20° る 19'40	
direct	13972 Feb 02 05:43	8° ≈ 53'19		morning max el	13973 Jan 23 16:18	25° る 12'20	19°47'20
asc. node	13972 Feb 06 22:27	10° ≈ 07′29		asc. node	13973 Jan 23 19:49	25° ප් 20'51	
morning max el	13972 Feb 10 21:48	13° ≈ 07'44	18°45'51		13973 Jan 27 20:03	0° ≈	
	13972 Feb 22 07:22	0° ∺		morning set	13973 Feb 10 06:51	23° ≈ 43'14	
morning set	13972 Feb 27 02:39	9° ∺ 10′39			13973 Feb 13 09:02	0°) €	
	1207237	2501/5005	0021122		12072 5 1 12 22 15	001/2 ===	0050104
superior conj	13972 Mar 06 19:33	25° ¥ 59'37		superior conj	13973 Feb 18 03:45	9° ¥ 36'57	
minimum elong	13972 Mar 06 21:32 13972 Mar 08 23:06	26° ¥ 08'57 0° Ƴ	0°31'15	minimum elong max. Earth dist.	13973 Feb 18 06:27 13973 Feb 24 06:57	9°) 50'20 21°) 24'14	0°58'08 1.37384 AU
desc. node	13972 Mar 10 17:10	0° γ 3° Υ 12'37		desc. node	13973 Feb 24 06:57 13973 Feb 25 13:42	23° H 46'07	1.37304 AU
max. Earth dist.	13972 Mar 10 17.10 13972 Mar 14 00:37		1.39636 AU	evening rise	13973 Feb 28 00:17	28° H 10'39	
man. Durin uist.	157,2 17101 1T 00.3/	> 1 U/ 24	1.57050 110	0 (0 min 1 m)	157,5100 20 00.17	20 /(1039	

	12072 M 01 00 50	0°Υ		1 1	12074 F 1 12 10 14	1.40 V 1.212.6	
	13973 Mar 01 00:59			desc. node	13974 Feb 12 10:14	14°) € 13'26	
	13973 Mar 20 01:00	0° 8			13974 Feb 21 13:30	0° Υ	
evening max el	13973 Apr 04 11:46	18° 8 56'28	25°23'15		13974 Mar 15 09:22	0°8	
retrograde	13973 Apr 16 16:50	26° 8 00'21		evening max el	13974 Mar 18 01:32	2° 8 44'56	26°28'16
asc. node	13973 Apr 21 16:17	24° 8 16'11		retrograde	13974 Mar 31 01:04	10° 8 06'18	
evening set	13973 Apr 22 13:57	23° 8 33'52		evening set	13974 Apr 06 08:46	7° 8 34'31	
min. Earth dist.	13973 Apr 26 22:06	18° 8 47'13	0.67874 AU	asc. node	13974 Apr 08 13:43	5° 8 30'10	
inferior conj	13973 Apr 28 06:14	17° 8 03'14	1°54'42	min. Earth dist.	13974 Apr 10 10:51	3° 8 22'53	0.66669 AU
minimum elong	13973 Apr 28 04:07	17° 8 10'08	1°53'21	inferior conj	13974 Apr 12 07:33	1° と 07'49	1°08'56
morning rise	13973 May 03 18:41	11° 8 10'29		minimum elong	13974 Apr 12 05:56	1° 8 12'43	1°07'53
direct	13973 May 07 07:16	9° 8 59'07		minimum ciong	13974 Apr 13 06:11	30°RY	1 07 55
morning max el	13973 May 14 05:51	13° 8 46'12	19°09'59	morning rise	13974 Apr 18 04:05	25° Υ 26'08	
•	•		19 09 39	•	-		
desc. node	13973 May 24 15:46	27° 8 07'08		direct	13974 Apr 21 06:05	24° Y 32'48	
	13973 May 26 14:43	Π °0		morning max el	13974 Apr 27 17:19	27° Y ′58'41	18°25'07
greatest brilliancy	13973 May 27 04:09	0° Ⅱ 50'00	-0.7m		13974 Apr 29 14:52	0°8	
morning set	13973 Jun 07 02:49	17° Ⅲ 31'24		desc. node	13974 May 11 12:33	17° 8 01'20	
	13973 Jun 15 04:08	0 \circ ∞		morning set	13974 May 18 01:47	27° 8 21'37	
max. Earth dist.	13973 Jun 20 11:10	8° © 16'08	1.45414 AU		13974 May 19 17:51	$\Pi^{\circ}0$	
superior conj	13973 Jun 23 11:36	13° © 01'12	-2°13'28	superior conj	13974 Jun 02 20:10	22° Ⅲ 07'32	-2°06'06
minimum elong	13973 Jun 23 12:46	13° © 05'52	2°14'31	minimum elong	13974 Jun 02 13:48	21° Ⅱ 42'42	2°06'50
Č	13973 Jul 04 01:59	$0^{\circ}\Omega$		max. Earth dist.	13974 Jun 03 07:03	22° I I50'01	1.45871 AU
evening rise	13973 Jul 08 03:30	6°Ω38'01		max. Earth dist.	13974 Jun 07 21:14	0°95	1.13071710
asc. node	13973 Jul 08 05:30 13973 Jul 18 15:03	23° Ω 37'18		ovenina riae	13974 Jun 18 16:54	16° © 57'01	
asc. node				evening rise			
	13973 Jul 22 22:44	0° m)			13974 Jun 27 00:37	0° N	
evening max el	13973 Jul 27 09:41	5° Mp 21'07	18°19'06	greatest brilliancy	13974 Jun 28 01:51	1° Ω 37'41	-0.8m
retrograde	13973 Aug 02 18:41	8° m 44'42		asc. node	13974 Jul 05 11:51	12° Ω 35′16	
evening set	13973 Aug 05 18:39	7° m 55'18		evening max el	13974 Jul 10 21:07	19° Ω 05'24	18°51'59
inferior conj	13973 Aug 11 15:58	2° m 27'13	2°22'21	retrograde	13974 Jul 17 13:42	22° Ω 45'19	
minimum elong	13973 Aug 11 18:22	2° m 20'15	2°21'10	evening set	13974 Jul 20 22:35	21° Ω 39'50	
	13973 Aug 13 18:46	30° R Ω		inferior conj	13974 Jul 26 11:39	15° Ω 56'46	2°52'48
min. Earth dist.	13973 Aug 14 00:09	29° Ω 44'48	0.64448 AU	minimum elong	13974 Jul 26 13:24	15° Ω 51'15	2°51'42
morning rise	13973 Aug 17 16:39	26° Ω 07'31		min. Earth dist.	13974 Jul 28 05:26	13° Ω 45'17	0.66232 AU
desc. node	13973 Aug 20 13:47	24°Ω19'20		morning rise	13974 Aug 01 03:26	9° £ 32′16	
direct	13973 Aug 24 06:22	23° Ω 30'57		direct	13974 Aug 07 09:58	6° Ω 52'49	
direct	13973 Sep 05 09:57	0°m)		desc. node	-	6° Ω 52'50	
	•		27027140		13974 Aug 07 11:15		26020140
morning max el	13973 Sep 06 22:38	1° Tp 29'08	2/2/48	morning max el	13974 Aug 20 09:59	14° Ω 35'58	26°29'48
	13973 Sep 28 03:29	0∘ ⊽			13974 Sep 02 00:00	0° m)	
morning set	13973 Oct 12 04:24	25° ≏ 07'59			13974 Sep 20 21:42	0∘ ⊽	
asc. node	13973 Oct 14 17:03	0° M 11′27		morning set	13974 Sep 25 07:10	8° చ 03'05	
	13973 Oct 14 14:48	0° M ₊		max. Earth dist.	13974 Sep 29 06:08	15° ≏ 40'37	1.34502 AU
max. Earth dist.	13973 Oct 16 18:51	4° ጤ 27'31	1.32880 AU	asc. node	13974 Oct 01 13:38	20° ₽ 17'40	
superior conj	13973 Oct 20 07:35	11°M55'28	0°50'57	superior conj	13974 Oct 04 06:07	25° ≏ 47'34	0°25'02
minimum elong	13973 Oct 20 05:26	11°M43'56	0°51'12	minimum elong	13974 Oct 04 04:48	25° ≏ 40'42	0°25'08
evening rise	13973 Oct 27 07:40	27° M 02'44			13974 Oct 06 06:34	0° M	
Č	13973 Oct 28 17:06	0° ∡ ¹		evening rise	13974 Oct 11 17:03	11° M 26'49	
	13973 Nov 15 11:23	0°ెవ		8	13974 Oct 21 06:40	0° ⊼ ¹	
desc. node	13973 Nov 16 10:06	1° る 04'15		evening max el	13974 Oct 30 23:41	13° х 13'49	21°02'42
evening max el	13973 Nov 18 06:36	2°る59'34	22°38'06	desc. node	13974 Nov 03 07:23	16° ₹ 13 49	21 02 42
-		2 03934 9° る 25'32	22 38 00			10 × 03 52 19° × 02'54	
retrograde	13973 Dec 01 05:55			retrograde	13974 Nov 11 16:42		
evening set	13973 Dec 05 01:01	8°る54'06	0.54560.444	evening set	13974 Nov 14 06:07	18° √ 47'24	5001150
min. Earth dist.	13973 Dec 12 14:44		0.54762 AU	inferior conj	13974 Nov 23 04:01	14° ₹ 754'04	
inferior conj	13973 Dec 13 12:48	4° ප 57'13		minimum elong	13974 Nov 22 19:17		5°19'13
minimum elong	13973 Dec 13 11:53	4° る 58'32	5°56'52	min. Earth dist.	13974 Nov 23 20:32	14° ∡ ′30′39	0.54510 AU
morning rise	13973 Dec 22 00:01	1° る 09'25		morning rise	13974 Dec 01 08:52	11° ∡ *02'14	
direct	13973 Dec 25 04:12	0° る 46'24		direct	13974 Dec 05 11:32	10° ∡ ¹25'59	
morning max el	13974 Jan 05 20:16	6° る 21'32	21°11'52	morning max el	13974 Dec 18 11:24	16° ∡ ¹42'35	22°54'58
asc. node	13974 Jan 10 17:06	11° る 54'28		asc. node	13974 Dec 28 14:16	29° ∡ ³31'07	
	13974 Jan 21 12:17	0° ≈			13974 Dec 28 21:35	8°0	
morning set	13974 Jan 25 15:43	8° ≈ 25'35		morning set	13975 Jan 10 03:02	23° ප 11'18	
<i>3</i>				<i>3 ,</i>	13975 Jan 13 07:08	0° ≈	
superior conj	13974 Feb 01 22:55	23° ≈ 42'58	1°17'47		25.25411 15 07.00	÷ · • ·	
minimum elong	13974 Feb 02 01:22	23°≈55'39	1°18'12	superior conj	13975 Jan 17 01:46	8° ≈ 08'39	1°30'41
mmmum ciong	13974 Feb 02 01:22 13974 Feb 05 00:49	23 ≈ 33 39	1 1012		13975 Jan 17 01:46 13975 Jan 17 03:25		1°31'27
F (1 F)			1 25205 411	minimum elong		8°≈17'28	
max. Earth dist.	13974 Feb 06 16:56	3°) € 19'45	1.35295 AU	max. Earth dist.	13975 Jan 20 09:45	15°≈11'21	1.33548 AU
evening rise	13974 Feb 10 17:42	11°) €05'22		evening rise	13975 Jan 25 00:45	24° ≈ 33'30	

	13975 Jan 27 20:31	0°) {		superior conj	13976 Jan 01 09:41	22° る 46'26	1°37'09
desc. node	13975 Jan 30 06:49	4°) 30′22		minimum elong	13976 Jan 01 10:17	22° ろ 49'43	1°38'08
	13975 Feb 15 02:12	0°Υ		max. Earth dist.	13976 Jan 03 10:02	27° る 10'27	1.32246 AU
evening max el	13975 Feb 28 14:56	16° Ƴ 18'49	27°14'07		13976 Jan 04 17:28	0° ≈	
retrograde	13975 Mar 14 03:15	23° Y 47'15		evening rise	13976 Jan 08 18:15	8° ≈ 27'23	
evening set	13975 Mar 20 19:24	21° Y 16'00		desc. node	13976 Jan 17 03:29	24° ≈ 31'50	
min. Earth dist.	13975 Mar 24 16:40	17° Y '37'08	0.65071 AU		13976 Jan 20 06:56	0° ∀	
asc. node	13975 Mar 26 11:11	15° Ƴ 39'49		evening max el	13976 Feb 11 02:42	29°) 27'37	27°33'52
inferior conj	13975 Mar 27 01:35	14° Y 59'41	0°11'28		13976 Feb 11 16:27	0° Y	
minimum elong	13975 Mar 27 01:16	15° Y ′00'35	0°11'11	retrograde	13976 Feb 24 22:41	6° Ƴ 54'15	
transit middle	13975 Mar 27 01:16	15° Y ′00'35	0°11'11	evening set	13976 Mar 02 19:31	4° Y 30'53	
transit begin	13975 Mar 26 23:06	15° Y 06'36		min. Earth dist.	13976 Mar 06 13:53	1° Y 20'36	0.63151 AU
transit end	13975 Mar 27 03:26	14° Y 54'34			13976 Mar 07 22:39	30°₽ 升	
morning rise	13975 Apr 02 08:53	9° Ƴ 31'06		inferior conj	13976 Mar 09 09:34	28°) 32′23	-0°57'43
direct	13975 Apr 05 01:24	8° Y 52'57		minimum elong	13976 Mar 09 11:27		0°56'47
morning max el	13975 Apr 11 09:22	12° Y °10′08	17°57'06	asc. node	13976 Mar 12 08:40	25° ¥ 45'37	
	13975 Apr 23 23:52	0°8		morning rise	13976 Mar 16 05:58	23° ¥ 19'19	
desc. node	13975 Apr 28 09:12	7° 8 12'44		direct	13976 Mar 18 14:30	22°) 52'46	
morning set	13975 Apr 29 04:39	8° 8 32'55		morning max el	13976 Mar 25 03:09	26°) 12'41	17°46'21
	13975 May 12 10:02	Π $^{\circ}0$			13976 Mar 28 09:45	0°Υ	
				morning set	13976 Apr 10 09:23	20° Y 58′23	
superior conj	13975 May 13 09:22	1° ∏ 32'32		desc. node	13976 Apr 14 05:46	27° Y ′36′26	
minimum elong	13975 May 13 00:20	0° П 56'45			13976 Apr 15 15:22	0°8	
max. Earth dist.	13975 May 17 03:08	7° Ⅱ 26′20	1.45576 AU		12076 1 22 17 27	110 4 52100	1002111
evening rise	13975 May 29 10:17	26° ∏ 30′10		superior conj	13976 Apr 22 17:37	11° 8 53'09	
	13975 May 31 17:02	0°95	0.6	minimum elong	13976 Apr 22 11:20	11° 8 27'20	1°02'57
greatest brilliancy	13975 Jun 12 10:56	17° © 41'56 0° Ω	-0.6m	max. Earth dist.	13976 Apr 28 21:05	21° 8 49′58 0° Ⅱ	1.44574 AU
asc. node	13975 Jun 21 12:23 13975 Jun 22 08:46	0° Ω 59'08		avanina rias	13976 May 04 01:29	0°Щ 5°Щ55'22	
evening max el	13975 Jun 24 03:36	0 δ2 3908 2° Ω 53'42	19°41'17	evening rise	13976 May 07 21:22 13976 May 24 01:34	о° ©	
retrograde	13975 Jul 24 03.36 13975 Jul 01 11:51	$7^{\circ}\Omega_{02'20}$	19 41 17	evening max el	13976 May 24 01.34 13976 Jun 06 04:18	16°\$543'28	20°45'00
evening set	13975 Jul 05 06:13	5° Ω 39'59		asc. node	13976 Jun 08 05:47	18°937'40	20 43 00
evening set	13975 Jul 10 09:24	30°Rூ		retrograde	13976 Jun 14 10:50	21°930'19	
inferior conj	13975 Jul 10 14:19	29°543'35	3°08'22	evening set	13976 Jun 18 15:24	19° © 51'08	
minimum elong	13975 Jul 10 15:06	29°540'57	3°07'21	inferior conj	13976 Jun 23 21:24	13° © 42'52	3°11'22
min. Earth dist.	13975 Jul 11 17:46	28°9511'54	0.67599 AU	minimum elong	13976 Jun 23 21:10	13°9543'39	3°10'19
morning rise	13975 Jul 15 23:33	23° © 19'31		min. Earth dist.	13976 Jun 24 11:05	12°955'35	0.68506 AU
direct	13975 Jul 21 19:53	20°945'44		morning rise	13976 Jun 29 02:40	7° © 22'43	
desc. node	13975 Jul 25 08:39	21° © 32'28		direct	13976 Jul 04 11:11	5°901'37	
morning max el	13975 Aug 02 20:48	27° © 58'43	25°11'51	desc. node	13976 Jul 11 05:58	7° © 52'52	
	13975 Aug 04 18:49	$0^{\circ}\Omega$		morning max el	13976 Jul 15 07:12	11° © 30'07	23°43'43
	13975 Aug 26 16:42	0° m		-	13976 Jul 30 01:57	$0^{\circ}\Omega$	
morning set	13975 Sep 07 18:20	20° m 15'06			13976 Aug 18 11:18	0° m)	
max. Earth dist.	13975 Sep 11 08:11	26° Mp 46'21	1.36562 AU	morning set	13976 Aug 19 09:21	1° m 33'07	
	13975 Sep 13 01:29	0∘ ⊽		max. Earth dist.	13976 Aug 23 05:52	8° Mp 12'16	1.38889 AU
superior conj	13975 Sep 17 19:12	9° ≙ 10'40	-0°05'49	superior conj	13976 Aug 30 19:13	21°M 56'32	-0°40'10
minimum elong	13975 Sep 17 19:34	9° ≙ 12'27	0°05'42	minimum elong	13976 Aug 30 22:06	22° Mp 10'07	0°39'55
behind sun begin	13975 Sep 17 13:30	8° ≏ 42'31		asc. node	13976 Sep 04 06:43	0° ჲ 30'05	
behind sun end	13975 Sep 18 01:37	9° ≏ 42'27			13976 Sep 04 00:30	0∘ ত	
asc. node	13975 Sep 18 10:11	10° Ω 25'02		evening rise	13976 Sep 08 21:39	9° ≙ 31'15	
evening rise	13975 Sep 25 22:36	25° △ 38'33			13976 Sep 20 08:13	0° M	
	13975 Sep 28 02:29	0°M		evening max el	13976 Sep 25 03:02	5°M57'36	18°50'30
evening max el	13975 Oct 13 06:28	24°M10'55	19°45'41	retrograde	13976 Oct 03 15:31	10°M 14'33	
desc. node	13975 Oct 21 04:45	28°M59'22		evening set	13976 Oct 05 12:48	10°M02'45	
retrograde	13975 Oct 23 08:24	29°M12'42		desc. node	13976 Oct 07 02:14	9°M36'15	2006152
evening set	13975 Oct 25 06:42	29°M02'28	2054156	inferior conj	13976 Oct 13 18:03	5°M43'01	-2°06'53 2°04'16
inferior conj minimum elong	13975 Nov 03 02:02 13975 Nov 02 16:31	25°M00'32 25°M15'19		minimum elong min. Earth dist.	13976 Oct 13 12:44 13976 Oct 16 18:31	5°M52'31 3°M33'37	0.56700 AU
min. Earth dist.	13975 Nov 02 16:31 13975 Nov 05 05:04	23°M41'20		min. Earth dist.	13976 Oct 16 18:31 13976 Oct 21 09:30	0°M50'42	0.50700 AU
min. Earth dist.	13975 Nov 05 05:04 13975 Nov 11 00:40	23°11.41°20 20°11.44'11	0.55175 AU	morning rise	13976 Oct 21 09:30 13976 Oct 23 16:18	0°IIL30'42 30°Ŗ Ω	
direct	13975 Nov 16 01:11	19°M48'29		direct	13976 Oct 27 04:41	29° £ 29'55	
morning max el	13975 Nov 10 01:11 13975 Nov 29 21:04	26°M41'15	24°43'57	uncor	13976 Oct 27 04:41 13976 Oct 30 17:40	0° ™	
	13975 Dec 03 01:38	20 IIC+1 13 0° ₹	2557	morning max el	13976 Nov 10 09:32	6°M50'39	26°20'25
asc. node	13975 Dec 15 11:21	17° ∡ 755'40			13976 Nov 27 11:52	0° ⊼ ¹	
	13975 Dec 21 20:08	0°る		asc. node	13976 Dec 01 08:18	6° ₹ '55'22	
morning set	13975 Dec 25 14:56	7° る 55'10		morning set	13976 Dec 09 01:39	22° ₹ 31'26	
2				2			

	13976 Dec 12 11:47	0°8		superior conj minimum elong	13977 Nov 30 08:04 13977 Nov 30 06:38	22° ⊀ 10'17 22° ⊀ 02'21	1°31'55 1°32'50
superior conj	13976 Dec 15 20:25	7° る 28'46	1°37'29	max. Earth dist.	13977 Nov 30 00:20	21° × ⁷ 27'03	1.31161 AU
minimum elong	13976 Dec 15 19:56	7° る 26'05	1°38'32		13977 Dec 03 20:20	0°ප	
max. Earth dist.	13976 Dec 16 15:57	9° ට 17'31	1.31443 AU	evening rise	13977 Dec 07 01:51	7° る 02'49	
evening rise	13976 Dec 22 19:22	22° る 39'03		<i>Q</i> 11	13977 Dec 18 21:58	0° ≈	
C	13976 Dec 26 09:26	0° ≈		desc. node	13977 Dec 20 21:10	3° ≈ 17'12	
desc. node	13977 Jan 03 00:15	14° ≈ 10′23		evening max el	13978 Jan 05 11:55	23° ≈ 39'27	26°34'35
	13977 Jan 13 05:12	0°)		-	13978 Jan 15 00:42	0°) €	
evening max el	13977 Jan 23 10:36	11° ¥ 58′08	27°21'40	retrograde	13978 Jan 19 11:00	0°) 47′12	
retrograde	13977 Feb 06 09:48	19°) (16′37			13978 Jan 23 19:41	30° R ≈	
evening set	13977 Feb 13 06:02	17° ∺ 09'14		evening set	13978 Jan 25 23:20	29° ≈ 03'08	
min. Earth dist.	13977 Feb 17 01:05	14° ¥ 20'43	0.61017 AU	min. Earth dist.	13978 Jan 30 01:40	26° ≈ 25'58	0.58836 AU
inferior conj	13977 Feb 20 04:05	11° ¥ 36′21	-2°17'16	inferior conj	13978 Feb 02 05:28	24° ≈ 01'40	-3°42'08
minimum elong	13977 Feb 20 09:00	11° ¥ 25'31	2°14'54	minimum elong	13978 Feb 02 13:25	23° ≈ 46′28	3°38'45
asc. node	13977 Feb 27 06:09	6°) 48′33		morning rise	13978 Feb 10 06:34	19° ≈ 27'59	
morning rise	13977 Feb 27 15:04	6°) 41'34		direct	13978 Feb 12 07:08	19° ≈ 13'34	
direct	13977 Mar 01 17:48	6° ¥ 22'55		asc. node	13978 Feb 14 03:36	19° ≈ 26′11	
morning max el	13977 Mar 08 19:20	9° ¥ 55'57	17°53'44	morning max el	13978 Feb 20 06:17	23° ≈ 09'47	18°20'41
	13977 Mar 22 00:42	0° Υ			13978 Feb 25 16:30	0°) €	
morning set	13977 Mar 24 09:56	4° Υ 19'00		morning set	13978 Mar 08 00:35	18° ∺ 17'43	
desc. node	13977 Apr 01 02:17	18° Y ′07'32			13978 Mar 14 04:57	0° Y	
superior conj	13977 Apr 04 01:50	23° Y 19'59		superior conj	13978 Mar 17 08:13	5° Ƴ 47'38	0°12'59
minimum elong	13977 Apr 03 23:43	23° Y 10'48	0°23'31	minimum elong	13978 Mar 17 09:09	5° Y 51'56	0°12'50
	13977 Apr 07 23:41	0°8		behind sun begin	13978 Mar 17 04:47	5° Ƴ 31'57	
max. Earth dist.	13977 Apr 11 11:23	5° 8 47'25	1.42969 AU	behind sun end	13978 Mar 17 13:32	6° Y 11'53	
evening rise	13977 Apr 17 17:56	15° 8 51'53		desc. node	13978 Mar 18 22:47	8° Y '42'28	
	13977 Apr 26 23:28	Π °0		max. Earth dist.	13978 Mar 24 21:28	19° Y ′08′07	1.40928 AU
	13977 May 19 10:16	0ა ௐ		evening rise	13978 Mar 29 09:36	26° Y ′40'41	
evening max el	13977 May 19 23:35	0° © 33'53	21°59'39		13978 Mar 31 10:36	0° 8	
asc. node	13977 May 26 02:55	5°516'20			13978 Apr 20 15:40	0°П	
retrograde	13977 May 29 08:49	6°504'03		evening max el	13978 May 02 15:03	14° Ⅱ 25'29	23°20'05
evening set	13977 Jun 03 00:22	4°908'41		retrograde	13978 May 13 04:23	20° Ⅲ 38'10	
	13977 Jun 06 17:04	30°RⅡ	2002116	asc. node	13978 May 13 00:09	20° Ⅲ 38'01	
inferior conj	13977 Jun 08 06:43	27° I I50'22	3°03'16	evening set	13978 May 18 07:28	18° Ⅱ 28'14	0.60000 441
minimum elong	13977 Jun 08 05:35	27° ∏ 54'19	3°02'05	min. Earth dist.	13978 May 23 03:55	12° Ⅱ 44'54	0.68888 AU
min. Earth dist.	13977 Jun 08 07:11	27° ∏ 48'45	0.68935 AU	inferior conj	13978 May 23 16:18	12° Ⅱ 02'11	2°44'47
morning rise	13977 Jun 13 10:37	21° ∏ 36'19		minimum elong	13978 May 23 14:30	12° Ⅱ 08'26	2°43'27
direct morning max el	13977 Jun 18 06:31 13977 Jun 27 19:23	19° Ⅱ 32'52 25° Ⅱ 09'06	22°14'53	morning rise direct	13978 May 28 21:28 13978 Jun 02 04:43	5° Ⅱ 55'38 4° Ⅱ 12'27	
desc. node	13977 Jun 28 03:09	25° I 128'46	22 14 33	morning max el	13978 Jun 10 12:39	8° 耳 58'24	20052156
desc. Hode	13977 Jul 28 03:09 13977 Jul 02 04:13	0°95		desc. node	13978 Jun 15 00:14	13° I I59'54	20 32 30
	13977 Jul 02 04:13	0°Ω		desc. Hode	13978 Jun 26 17:12	0°95	
morning set	13977 Jul 31 00:16	11° Ω 47'36		morning set	13978 Jul 10 15:22	21° © 00'22	
max. Earth dist.	13977 Aug 05 06:16	20° Ω 25'41	1.41219 AU	morning sec	13978 Jul 16 08:09	0° Ω	
max. Dartii dist.	13977 Aug 10 20:28	0° my	1.11217110	max. Earth dist.	13978 Jul 18 13:14		1.43272 AU
	10,771148 10 20:20	v y		man. Barur dist.	15570 001 10 15.11	2 0 6 22 22	1.132/2110
superior conj	13977 Aug 13 01:54	3° m 55'29	-1°15'26	superior conj	13978 Jul 25 10:49	14° Ω 56'49	-1°47'05
minimum elong	13977 Aug 13 07:39	4° m) 21'02		minimum elong	13978 Jul 25 18:10	15° Ω 27'46	
asc. node	13977 Aug 22 03:17	20° m) 29'26			13978 Aug 03 04:16	0° m)	- ,,
evening rise	13977 Aug 23 10:48	22° m 56'27		evening rise	13978 Aug 06 09:36	5° m/42'10	
<i>8</i> 11	13977 Aug 27 06:13	0∘ <u>⊽</u>		asc. node	13978 Aug 08 23:55	10° m) 18'20	
evening max el	13977 Sep 08 09:43	18° ≏ 27'18	18°16'44		13978 Aug 21 13:05	0∘ <mark>ಹ</mark>	
retrograde	13977 Sep 15 18:09	22° ≏ 11'18		evening max el	13978 Aug 22 22:09	1° ≏ 28'37	18°02'57
evening set	13977 Sep 17 21:00	21° ≏ 53'22		retrograde	13978 Aug 29 13:39	4° ≙ 54'02	
desc. node	13977 Sep 23 23:46	18° ≏ 18'39		evening set	13978 Sep 01 00:10	4° ≏ 26'14	
inferior conj	13977 Sep 25 07:56	17° ≏ 12'19	-0°25'18	-	13978 Sep 07 03:21	30°R,™)	
minimum elong	13977 Sep 25 07:00	17° Ω 14'15	0°24'44	inferior conj	13978 Sep 07 17:51	29° m 25'02	0°56'45
min. Earth dist.	13977 Sep 28 15:00	14° ≏ 27'29	0.58751 AU	minimum elong	13978 Sep 07 19:29	29° m 21'04	0°56'01
morning rise	13977 Oct 02 13:35	11° ≏ 44'12		desc. node	13978 Sep 10 21:20	26° m 23'12	
direct	13977 Oct 08 21:59	9° ჲ 56′20		min. Earth dist.	13978 Sep 10 20:30	26° Mp 25'07	0.61026 AU
morning max el	13977 Oct 23 05:24	17° ≏ 37'38	27°27'52	morning rise	13978 Sep 14 11:58	23° m 28'46	
	13977 Nov 02 12:52	0° M		direct	13978 Sep 21 03:04	21°M)16'17	
asc. node	13977 Nov 18 05:10	26° ™ 20'58		morning max el	13978 Oct 05 08:49	29° m 12'01	27°57'31
	13977 Nov 20 01:13	0° ∡ ¹			13978 Oct 06 03:52	0∘ ⊽	
morning set	13977 Nov 23 09:28	6° ∡ °55'54			13978 Oct 27 11:57	0° M	

asc. node	13978 Nov 05 01:56	16°M04'38			13979 Oct 19 22:03	0°M,	
morning set	13978 Nov 07 12:25	21°M03'13		morning set	13979 Oct 22 08:14	4°M48'03	
P 4 P	13978 Nov 11 17:08	0° ∡¹	1 21 102 177	asc. node	13979 Oct 22 22:38	6°M00'46	1 22150 111
max. Earth dist.	13978 Nov 13 07:18	3° ∡ ′29′12	1.31402 AU	max. Earth dist.	13979 Oct 27 08:50	15°M14'08	1.32179 AU
superior conj	13978 Nov 14 18:42	6° ∡ ¹45'03	1°20'32	superior conj	13979 Oct 30 02:25	21°M.08'01	1°03'25
minimum elong	13978 Nov 14 16:38	6° ₹ ¹33'32	1°21'13	minimum elong	13979 Oct 30 02:23 13979 Oct 30 00:08	20°M55'32	1°03'48
evening rise	13978 Nov 21 11:32	21° x ³³³³²	1 21 13	minimum clong	13979 Nov 03 03:35	20 11d33332 0° ⊀7	1 03 40
evening rise	13978 Nov 25 12:07	0°중		evening rise	13979 Nov 05 03:35	6° ∡ ¹04'09	
desc. node	13978 Dec 07 18:12	21° る 39'52		evening rise	13979 Nov 18 09:30	0°る	
	13978 Dec 14 00:15	0° ≈		desc. node	13979 Nov 24 15:20	9° ට 01'52	
evening max el	13978 Dec 18 04:39	4° ≈ 27'31	25°15'50	evening max el	13979 Nov 29 14:56	14° る 35'55	23°37'07
retrograde	13979 Jan 01 00:40	11° ≈ 24'21		retrograde	13979 Dec 13 01:41	21° る 17'13	
evening set	13979 Jan 06 19:19	10° ≈ 08'49		evening set	13979 Dec 17 15:48	20° る 31'25	
min. Earth dist.	13979 Jan 11 16:44	7° ≈ 27'41	0.56833 AU	min. Earth dist.	13979 Dec 24 01:35	17° る 27'07	0.55304 AU
inferior conj	13979 Jan 14 10:36	5° ≈ 38'55	-5°00'25	inferior conj	13979 Dec 25 19:20	16° る 25'36	-5°51'05
minimum elong	13979 Jan 14 19:21	5° ≈ 24'27	4°57'27	minimum elong	13979 Dec 25 23:28	16° る 19'30	5°49'42
morning rise	13979 Jan 22 21:51	1° ≈ 27'28		morning rise	13980 Jan 03 08:51	12° る 32'07	
direct	13979 Jan 25 02:07	1° ≈ 13'38		direct	13980 Jan 06 01:27	12° る 14'19	
asc. node	13979 Feb 01 00:58	3° ≈ 45'31		morning max el	13980 Jan 16 20:33		20°20'39
morning max el	13979 Feb 03 07:57	5° ≈ 42'53	19°09'11	asc. node	13980 Jan 18 22:18	19° る 35'12	
	13979 Feb 18 16:11	0° ∀			13980 Jan 26 05:43	0° ≈	
morning set	13979 Feb 20 00:50	2°) 41′09		morning set	13980 Feb 04 07:18	17°≈18'44	
					13980 Feb 10 11:12	0° ₩	
superior conj	13979 Feb 28 08:22	19° 米 03′50	0°43'33		12000 7 1 11 21 11	201/5450	1005116
minimum elong	13979 Feb 28 10:48	19°) 15'33	0°43'29	superior conj	13980 Feb 11 21:41	2°) 54'59	1°07'16
desc. node	13979 Mar 05 19:18	29°) 17'47 0° °		minimum elong	13980 Feb 12 00:23	3°) €08'34 13°) €51'04	1°07'29
max. Earth dist.	13979 Mar 06 04:34 13979 Mar 07 04:14	0° γ 1° Υ 46'56	1.38671 AU	max. Earth dist. desc. node	13980 Feb 17 11:13	13° X 51′04 19° X 49'14	1.36457 AU
evening rise	13979 Mar 10 22:29	8° Y 24'32	1.380/1 AU	evening rise	13980 Feb 20 15:48 13980 Feb 21 06:27	19 X 49 14 20° X 56'12	
evening rise	13979 Mar 10 22.29 13979 Mar 24 07:57	0° 8		evening rise	13980 Feb 26 09:44	20 γ (3012	
evening max el	13979 Apr 15 04:41	28° 8 18'38	24°40'05		13980 Mar 17 06:26	0°8	
evening max er	13979 Apr 16 23:33	0°II	21 10 03	evening max el	13980 Mar 27 18:06	12° 8 10'11	25°52'44
retrograde	13979 Apr 26 20:27	5° Ⅱ 07'19		retrograde	13980 Apr 09 07:58	19° 8 23'49	
asc. node	13979 Apr 29 21:28	4° Ⅱ 26'57		evening set	13980 Apr 15 09:44	16° 8 54'16	
evening set	13979 May 02 11:09	2° II 45'33		asc. node	13980 Apr 15 18:51	16° 8 34'39	
C	13979 May 05 02:46	30°R₩		min. Earth dist.	13980 Apr 19 15:03	12° 8 22'43	0.67409 AU
min. Earth dist.	13979 May 06 23:14	27° 8 38'35	0.68373 AU	inferior conj	13980 Apr 21 04:37	10° 8 24'18	1°36'39
inferior conj	13979 May 08 00:16	26° 8 15'12	2°16'02	minimum elong	13980 Apr 21 02:38	10° 8 30'36	1°35'24
minimum elong	13979 May 07 22:07	26° 8 22'21	2°14'39	morning rise	13980 Apr 26 20:12	4° 8 36'06	
morning rise	13979 May 13 09:18	20° 8 17'11		direct	13980 Apr 30 04:02	3° 8 32'55	
direct	13979 May 17 04:24	18° 8 54'41		morning max el	13980 May 06 21:00	7° 8 09'44	18°48'50
morning max el	13979 May 24 13:11	22° 8 59'51	19°43'16	desc. node	13980 May 18 18:00	22° 8 52'42	
	13979 May 30 12:27	0°II		greatest brilliancy	13980 May 20 18:33	25° 8 56'53	-0.8m
desc. node	13979 Jun 01 21:11	3° Ⅱ 11'43			13980 May 23 09:50	0°Щ	
greatest brilliancy	13979 Jun 06 08:30	9° Ⅱ 34'18	-0.6m	morning set	13980 May 29 03:25	8° Ⅱ 53'38	
morning set	13979 Jun 19 17:32	29° Ⅱ 43'26		D d F	13980 Jun 11 16:39	0°©	1 45600 444
Fauth diet	13979 Jun 19 21:51	0°95	1 44015 ATT	max. Earth dist.	13980 Jun 12 19:55	1°9946'32	1.45698 AU
max. Earth dist.	13979 Jul 01 02:27	1/ 50/25/21	1.44815 AU	superior con:	13980 Jun 14 09:52	4° © 14'59	2012152
superior conj	13979 Jul 05 19:59	24° © 58'29	2000122	superior conj minimum elong	13980 Jun 14 09:32 13980 Jun 14 07:40	4 9014 39 4°906'20	
minimum elong	13979 Jul 06 00:55	25°9518'22		evening rise	13980 Jun 29 16:25	28°\$29'09	2 13 34
minimum ciong	13979 Jul 08 22:30	0°Ω	2 0) 21	evening rise	13980 Jun 30 15:01	0°Ω	
evening rise	13979 Jul 19 12:59	17° Ω 36′26		asc. node	13980 Jul 12 17:21	19° Ω 05'24	
asc. node	13979 Jul 26 20:36	29° Ω 52′24		evening max el	13980 Jul 20 01:51	28° Ω 31'11	18°31'02
	13979 Jul 26 22:27	0° m)			13980 Jul 21 17:39	0° m)	
evening max el	13979 Aug 06 12:36	14° m 52'39	18°08'00	retrograde	13980 Jul 26 13:13	2° m/00'21	
retrograde	13979 Aug 12 21:25	18° m) 13'17		evening set	13980 Jul 29 16:49	1° Mp 04'26	
evening set	13979 Aug 15 16:16	17° m 32'35		-	13980 Jul 31 04:59	30°R Ω	
inferior conj	13979 Aug 21 19:58	12° m 13'45	1°56'51	inferior conj	13980 Aug 04 10:14	25° Ω 29'59	2°37'13
minimum elong	13979 Aug 21 22:25	12° m)07'01	1°55'42	minimum elong	13980 Aug 04 12:25	25° Ω 23'24	2°36'05
min. Earth dist.	13979 Aug 24 11:51	9° m 19'33	0.63259 AU	min. Earth dist.	13980 Aug 06 12:27	22° Ω 58'57	0.65251 AU
morning rise	13979 Aug 28 02:37	5° m 59'39		morning rise	13980 Aug 10 06:50	19° Ω 07'18	
desc. node	13979 Aug 28 18:52	5° m/30'24		desc. node	13980 Aug 14 16:21	16° Ω 43'36	
direct	13979 Sep 03 18:19	3° m 29'08		direct	13980 Aug 16 17:59	16° Ω 28'01	
morning max el	13979 Sep 17 17:27	11° Tp 30'39	27°48'35	morning max el	13980 Aug 30 04:18	24° Ω 22'28	27°06'09
	13979 Oct 02 09:04	0∘ ⊽			13980 Sep 04 06:06	0° m)	

	13980 Sep 24 19:04	0∘ ⊽		desc. node	13981 Aug 01 13:47	0° Ω 13'01	
morning set	13980 Sep 24 19:04 13980 Oct 04 18:12	0 = 18° £ 03'36		morning max el	13981 Aug 01 13.47 13981 Aug 12 15:15	$7^{\circ}\Omega 35'58$	25050125
asc. node	13980 Oct 04 18.12 13980 Oct 08 19:15	18 ≥ 03 36 26° ♀ 04'34		morning max er	-	0°m)	23 38 23
			1 22400 ATT		13981 Aug 30 02:33		
max. Earth dist.	13980 Oct 09 01:33	26° Ω 36'31	1.33498 AU		13981 Sep 17 05:52	0° 亞	
	13980 Oct 10 17:11	0°M₊		morning set	13981 Sep 17 14:46	0° Ω 40'54	1 25220 444
	12000 0 4 12 05 02	50 m 12122	0040127	max. Earth dist.	13981 Sep 21 08:16	7° £ 42'12	1.35329 AU
superior conj	13980 Oct 13 05:03	5°M13'23	0°40'37	asc. node	13981 Sep 25 15:49	16° ≏ 11'29	
minimum elong	13980 Oct 13 03:09	5°M03'21	0°40'47		12001 0 24 22 55	100 0 50154	0010101
evening rise	13980 Oct 20 09:07	20°M32'17		superior conj	13981 Sep 26 23:57	18° ≏ 53'54	
	13980 Oct 24 23:10	0° ∡ ¹		minimum elong	13981 Sep 26 23:14	18° ≏ 50'14	0°12'36
evening max el	13980 Nov 10 02:57	24° ∡ ³38′12	21°55'57	behind sun begin	13981 Sep 26 19:24	18° ≏ 30'49	
desc. node	13980 Nov 10 12:34	25° ∡ '01'25		behind sun end	13981 Sep 27 03:03	19° ≙ 09'41	
	13980 Nov 18 00:47	0°る			13981 Oct 02 09:00	0° M	
retrograde	13980 Nov 22 15:24	0° る 50'22		evening rise	13981 Oct 04 17:07	4° ጤ 51'22	
evening set	13980 Nov 25 20:22	0° る 27'25			13981 Oct 18 17:03	0° ∡ ¹	
	13980 Nov 27 10:51	30°Ŗ ⋌ ¹		evening max el	13981 Oct 23 01:35	5° ∡ ′08'38	20°27'27
inferior conj	13980 Dec 04 13:35	26° ∡ '33'51	-5°50'10	desc. node	13981 Oct 28 09:55	9° √ 11'11	
minimum elong	13980 Dec 04 08:46	26° х 40′36	5°48'41	retrograde	13981 Nov 03 02:07	10° ∡ ³37'30	
min. Earth dist.	13980 Dec 04 07:51	26° ⊀ ¹41'54	0.54533 AU	evening set	13981 Nov 05 07:15	10° ∡ ¹25'14	
morning rise	13980 Dec 12 22:07	22° ⊀ ¹46′26		inferior conj	13981 Nov 14 05:51	6° ₮ 30'02	-4°49'43
direct	13980 Dec 16 11:33	22° ∡ 18'30		minimum elong	13981 Nov 13 19:51	6° ≯ 44'36	4°46'13
morning max el	13980 Dec 28 18:38	28° ҂ 12'33	21°53'54	min. Earth dist.	13981 Nov 15 14:22	5° ∡ ¹42'41	0.54689 AU
	13980 Dec 30 13:04	0°₹		morning rise	13981 Nov 22 08:01	2° ∡ ³30′11	
asc. node	13981 Jan 04 19:32	6° る 38'04		direct	13981 Nov 26 20:36	1° ∡ ¹46′09	
	13981 Jan 17 17:53	0° ≈		morning max el	13981 Dec 10 06:04	8° ∡ 18'52	23°41'35
morning set	13981 Jan 18 17:28	2° ≈ 03'30		asc. node	13981 Dec 22 16:40	24° ∡ ³36'30	
					13981 Dec 25 19:09	0°ರ	
superior conj	13981 Jan 25 20:31	17° ≈ 10'52	1°24'03	morning set	13982 Jan 03 05:16	16° る 48'47	
minimum elong	13981 Jan 25 22:40	17° ≈ 22'13	1°24'37	S	13982 Jan 09 07:00	0° ≈	
max. Earth dist.	13981 Jan 29 23:38	25° ≈ 42'21	1.34504 AU				
	13981 Feb 01 03:18	0°) €		superior conj	13982 Jan 10 01:48	1° ≈ 42'07	1°34'11
evening rise	13981 Feb 03 06:10	4°) €06'59		minimum elong	13982 Jan 10 03:02	1° ≈ 48'44	1°35'03
desc. node	13981 Feb 06 12:22	10°) 13′08		max. Earth dist.	13982 Jan 12 19:55	7° ≈ 37'04	1.32942 AU
***************************************	13981 Feb 18 05:56	0°Υ		evening rise	13982 Jan 17 18:03	17° ≈ 46'58	
evening max el	13981 Mar 10 07:55	25° Υ ′54'10	26°50'31	desc. node	13982 Jan 24 09:01	0° ¥ 24'13	
evening max er	13981 Mar 15 03:29	0°8	20 30 31	desc. Hode	13982 Jan 24 03:40	0° X	
retrograde	13981 Mar 23 13:53	3° 8 19'59			13982 Feb 12 13:50	0°Υ	
evening set	13981 Mar 30 01:20	0° 8 47'52		evening max el	13982 Feb 20 21:06	9° Υ 19'38	27°26'06
evening set	13981 Mar 30 23:58	30°RY		retrograde	13982 Mar 06 13:10	16° Υ 47'21	27 20 00
asc. node	13981 Apr 02 16:17	27° Υ 15'37		evening set	13982 Mar 13 07:48	14° Υ 18'51	
min. Earth dist.	13981 Apr 03 01:15	26° Υ '50'12	0.66035 AU	min. Earth dist.	13982 Mar 17 03:43	10° Υ 52'32	0.64295 AU
inferior conj	13981 Apr 05 03:10	24° Υ 24'27	0°46'00	inferior conj	13982 Mar 19 17:20	8° Υ 09'17	
minimum elong	13981 Apr 05 03:10 13981 Apr 05 02:00	24° Y 27'53	0°45'14	minimum elong	13982 Mar 19 17:50	8° Υ 07'57	0°16'16
morning rise	13981 Apr 03 02:00 13981 Apr 11 03:57	18° Y 47'48	0 43 14	asc. node	13982 Mar 20 13:45	7° Υ 15'31	0 10 10
direct	13981 Apr 14 01:42	18° Υ 01'21		morning rise	13982 Mar 26 05:55	2° Υ 46'39	
morning max el	-	21° Υ 22'22	18°10'59	direct		2° Υ 13'45	
morning max er	13981 Apr 20 10:39	0° 8	18 10 39		13982 Mar 28 18:55	5° Υ 30'39	17°50'18
daga mada	13981 Apr 27 07:14	12° 8 54'50		morning max el	13982 Apr 04 03:45 13982 Apr 20 13:36	0° 8	17 30 18
desc. node	13981 May 05 14:42 13981 May 09 13:56	12 8 34 30		morning sat	•	1° 8 02'42	
morning set	•			morning set	13982 Apr 21 04:31		
	13981 May 16 06:31	$\Pi^{\circ}0$		desc. node	13982 Apr 22 11:20	3° 8 12'06	
	12001 M 24 10-12	120П22127	1957103		12002 M 04 14.14	220 00144	1025117
superior conj	13981 May 24 18:12	13° Ⅱ 23'27		superior conj	13982 May 04 14:14	23° 8 08'44	
minimum elong	13981 May 24 09:52	12° ∏ 50'49		minimum elong	13982 May 04 05:57	22° 8 35'24	1-25 06
max. Earth dist.	13981 May 26 15:51		1.45842 AU	The state of	13982 May 08 21:29	0°II	1 45000 477
	13981 Jun 04 10:05	0°©		max. Earth dist.	13982 May 09 11:46	0° Ⅱ 56'24	1.45239 AU
evening rise	13981 Jun 09 20:02	8°524'28	0.5	evening rise	13982 May 20 08:48	17° Ⅱ 49'30	
greatest brilliancy	13981 Jun 21 09:31	26°5512'31	-0.7m		13982 May 28 09:32	0°©	
_	13981 Jun 23 22:40	0°Ω		greatest brilliancy	13982 Jun 04 06:14	10°508'21	-0.6m
asc. node	13981 Jun 29 14:11	7° Ω 49'53		asc. node	13982 Jun 16 11:08	25° © 56'16	
evening max el	13981 Jul 03 11:26	12° Ω 17'46	19°11'08	evening max el	13982 Jun 16 15:37	26° © 07'32	20°06'51
retrograde	13981 Jul 10 09:42	16° Ω 08'11			13982 Jun 21 21:47	0 \circ Ω	
evening set	13981 Jul 13 22:35	14° Ω 55'37		retrograde	13982 Jun 24 08:25	0° Ω 31′00	
inferior conj	13981 Jul 19 09:11	9° Ω 06'58	3°01'02		13982 Jun 26 16:23	30° ષ્ટ્	
minimum elong	13981 Jul 19 10:33	9° Ω 02'34	3°00'00	evening set	13982 Jun 28 07:09	29° © 01'15	
min. Earth dist.	13981 Jul 20 20:54	7° Ω 11'27	0.66873 AU	inferior conj	13982 Jul 03 14:01	22° © 59'40	3°11'04
morning rise	13981 Jul 24 21:53	2° Ω 42'17		minimum elong	13982 Jul 03 14:23	22° © 58'27	3°10'02
direct	13981 Jul 31 00:31	0° Ω 04'01		min. Earth dist.	13982 Jul 04 11:29	21° 5 46'45	0.68047 AU

morning rise	13982 Jul 08 21:17	16° © 37'13		direct	13983 Jun 28 05:47	28° Ⅲ 31'18	
direct	13982 Jul 14 12:47	10 \$37 13 14°\$08'13		direct	13983 Jul 28 03:47 13983 Jul 02 21:27	20 п 31 10	
desc. node	13982 Jul 14 12:47 13982 Jul 19 11:07	15°939'05		desc. node	13983 Jul 06 08:23	2° 9 34'14	
morning max el	13982 Jul 19 11:07 13982 Jul 26 01:42	21° © 02'54	24025102	morning max el	13983 Jul 08 12:42	4°937'52	22005122
morning max er		21 3 02 34 0° Ω	24 33 03	morning max er	13983 Jul 08 12:42 13983 Jul 28 00:38	4 3 3/32	23 03 33
	13982 Aug 02 19:16	0°m)		morning set		23° Ω 22'35	
marning sat	13982 Aug 23 07:37	-		morning set	13983 Aug 11 23:01		
morning set max. Earth dist.	13982 Aug 30 17:53	12° Mp 31'03	1 27540 ATT	max. Earth dist.	13983 Aug 15 21:18	0° Mp 0° Mp 39'33	1.39900 AU
max. Earth dist.	13982 Sep 03 08:02 13982 Sep 09 06:36	18° Mp 54'32 0° <u> </u>	1.37540 AU	max. Earm dist.	13983 Aug 16 06:31	0 1143933	1.39900 AU
	13982 Sep 09 00.30	0 ==		aumariar aani	12002 Aug 24 01:07	1.40 m, 20150	0055115
superior conj	12092 Cap 10 07:50	2° ഫ 02'25	0920104	superior conj minimum elong	13983 Aug 24 01:07	14° M) 28'50	
1 3	13982 Sep 10 07:59			Č	13983 Aug 24 05:14	14° Mp 47'47	0 3437
minimum elong	13982 Sep 10 09:19	2° ♀ 08'55	0-1955	asc. node	13983 Aug 30 08:56	26° Th 21'16	
asc. node	13982 Sep 12 12:22	6° £ 18'26			13983 Sep 01 06:38	0ಂ ⊽	
evening rise	13982 Sep 18 20:18	18° £ 56′10		evening rise	13983 Sep 02 15:37	2° ₽ 38'09	10022122
	13982 Sep 24 12:46	0°M	1001010	evening max el	13983 Sep 18 15:44	28° ₽ 31'38	18°33'32
evening max el	13982 Oct 05 14:28	16°M26'25	19°19'26		13983 Sep 20 06:55	0°M	
retrograde	13982 Oct 14 23:29	21°M08'13		retrograde	13983 Sep 26 15:12	2°M33'21	
desc. node	13982 Oct 15 07:19	21°M07'53		evening set	13983 Sep 28 14:13	2°M19'33	
evening set	13982 Oct 16 20:15	20°M57'51		desc. node	13983 Oct 02 04:49	0° ጤ 49'43	
inferior conj	13982 Oct 25 10:29	16°M48'41			13983 Oct 03 12:45	30° ₽ Ω	
minimum elong	13982 Oct 25 02:29	17°M01'52	3°06'06	inferior conj	13983 Oct 06 11:46	27° ≏ 50'39	
min. Earth dist.	13982 Oct 28 00:19	15°M07'15	0.55752 AU	minimum elong	13983 Oct 06 08:30	27° ≏ 56'56	1°20'10
morning rise	13982 Nov 02 06:24	12°MJ18'02		min. Earth dist.	13983 Oct 09 16:36	25° ≏ 23'51	0.57521 AU
direct	13982 Nov 07 15:21	11°M12'26		morning rise	13983 Oct 13 23:18	22° ≏ 42'07	
morning max el	13982 Nov 21 15:58	18° M ₊17'07	25°27'44	direct	13983 Oct 20 00:36	21° ≏ 10′00	
	13982 Dec 01 09:41	0° ⊼		morning max el	13983 Nov 03 07:36	28° ≏ 40'46	26°53'31
asc. node	13982 Dec 09 13:42	13° ∡ 16'51			13983 Nov 04 15:19	0° M ₊	
	13982 Dec 18 00:09	0°る			13983 Nov 25 03:15	0° ∡ ¹	
morning set	13982 Dec 18 16:54	1° る 29'36		asc. node	13983 Nov 26 10:39	2° ∡ °28′23	
				morning set	13983 Dec 03 02:38	16° ∡ '01'27	
superior conj	13982 Dec 25 11:10	16° පි 21'52	1°38'01		13983 Dec 09 11:00	0°ರ	
minimum elong	13982 Dec 25 11:18	16° පි 22'36	1°39'03				
max. Earth dist.	13982 Dec 26 23:07	19° ප් 40'11	1.31845 AU	superior conj	13983 Dec 09 22:32	1° る 04'25	1°35'50
	13982 Dec 31 18:17	0° ≈		minimum elong	13983 Dec 09 21:37	0° る 59'22	1°36'51
evening rise	13983 Jan 01 15:06	1° ≈ 48'30		max. Earth dist.	13983 Dec 10 06:32	1° る 49'06	1.31251 AU
desc. node	13983 Jan 11 05:45	20° ≈ 16'36		evening rise	13983 Dec 16 18:46	16° ප 05'37	
	13983 Jan 17 01:17	0°) €			13983 Dec 23 16:32	0° ≈	
evening max el	13983 Feb 03 07:33	22° 升 13′15	27°32'48	desc. node	13983 Dec 29 02:35	9° ≈ 42'55	
retrograde	13983 Feb 17 04:57	29°) 36'21			13984 Jan 12 08:16	0°) €	
evening set	13983 Feb 24 02:31	27°) (18′43		evening max el	13984 Jan 16 12:47	4°) €23'15	27°05'52
min. Earth dist.	13983 Feb 27 20:35	24°) 18′59	0.62265 AU	retrograde	13984 Jan 30 12:18	11°) 38′03	
inferior conj	13983 Mar 02 20:01	21°) € 30'33	-1°30'20	evening set	13984 Feb 06 06:17	9° ∺ 39'22	
minimum elong	13983 Mar 02 23:07	21°) 23'13		min. Earth dist.	13984 Feb 10 03:08	6° ¥ 57'33	0.60077 AU
asc. node	13983 Mar 07 11:14	17°) 38′42		inferior conj	13984 Feb 13 07:43	4° ¥ 19′20	-2°53'07
morning rise	13983 Mar 09 22:32	16° ℋ 25'00		minimum elong	13984 Feb 13 14:01	4° ₩ 06'16	2°50'12
direct	13983 Mar 12 04:25	16°) 02'09		-	13984 Feb 19 17:48	30°R≈	
morning max el	13983 Mar 18 21:18	19° ¥ 25'59	17°47'15	morning rise	13984 Feb 21 00:59	29° ≈ 33'40	
	13983 Mar 26 16:49	0° Υ		asc. node	13984 Feb 22 08:42	29° ≈ 19'25	
morning set	13983 Apr 03 18:29	13° Y 53'56		direct	13984 Feb 23 02:12	29° ≈ 17'19	
desc. node	13983 Apr 09 07:54	23° Y 39'24			13984 Feb 26 07:58	0°)	
	13983 Apr 13 00:25	0°8		morning max el	13984 Mar 01 11:52	2° ¥ 58'51	18°02'48
	1	_		morning set	13984 Mar 17 01:43	27°) € 32'55	
superior conj	13983 Apr 15 08:39	3° 8 57'33	-0°46'16	<i>5 2 1 1 1 1 1 1 1 1 1 1</i>	13984 Mar 18 09:27	0° Υ	
minimum elong	13983 Apr 15 04:10	3° 8 38'46		desc. node	13984 Mar 26 04:26	14° Y °12'54	
max. Earth dist.	13983 Apr 22 04:50	15° 8 12'16	1.43958 AU	desc. node	15,011,141 20 01.20		
evening rise	13983 Apr 29 22:16	27° 8 24'01	1.15700110	superior conj	13984 Mar 27 02:54	15° Y ′52'35	-0°07'31
e vennig rise	13983 May 01 14:44	0°II		minimum elong	13984 Mar 27 02:16	15° Y 49'47	
	13983 May 22 06:03	0 . ಪ		behind sun begin	13984 Mar 26 19:18	15°Υ18'55	0 07 33
evening max el	13983 May 30 13:49	9°957'05	21°15'38	behind sun end	13984 Mar 27 09:14	16° Υ 20'34	
asc. node	13983 Jun 03 08:13	13°911'11	21 13 30	max. Earth dist.	13984 Apr 03 17:10	28° Y 54'50	1.42138 AU
	13983 Jun 08 07:15	15° © 02'09		max. Earth dist.	•	0° 8	1.42136 AU
retrograde	13983 Jun 08 07:15 13983 Jun 12 16:28			evening rise	13984 Apr 04 08:52	7° 8 41'47	
evening set	13983 Jun 12 16:28 13983 Jun 17 22:19	13°S15'42 7°S02'43	3°09'14	evening 1186	13984 Apr 09 02:21	7° О 41'47 0° Ц	
inferior conj				avaning may al	13984 Apr 23 18:14	23° Ⅱ 47'34	22022122
minimum elong	13983 Jun 17 21:41	7°904'54	3°08'08	evening max el	13984 May 12 07:07		22 33 23
min. Earth dist.	13983 Jun 18 06:13		0.68747 AU	asc. node	13984 May 20 05:23	29° Ⅱ 19'25	
morning rise	13983 Jun 23 02:42	0°945'02		retrograde	13984 May 22 04:32	29° Ⅱ 36'55	
	13983 Jun 24 01:08	30° Ŗ Ⅱ		evening set	13984 May 27 00:52	27° Ⅱ 35′05	

::	13984 Jun 01 08:01	210T12E1	2057141		12005 M 11 06.42	110 1 5 411 5	
inferior conj		21° Ⅱ 12'51 21° Ⅱ 17'54		evening set	13985 May 11 06:43	11° Ⅱ 54'15 6° Ⅱ 26'09	0.69 735 ATT
minimum elong	13984 Jun 01 06:34		2°55'26	min. Earth dist.	13985 May 15 23:28		0.68725 AU
min. Earth dist.	13984 Jun 01 02:57	21° I I30'30	0.68974 AU	inferior conj	13985 May 16 17:10	5° Ⅱ 25'50	2°33'52
morning rise	13984 Jun 06 12:08	15° Ⅱ 01'39		minimum elong	13985 May 16 15:10	5° Ⅱ 32'39	2°32'30
direct	13984 Jun 11 02:31	13° Ⅱ 06'45			13985 May 21 05:49	30° ₹ 8	
morning max el	13984 Jun 20 02:48	18° Ⅱ 21'24	21°38'42	morning rise	13985 May 21 23:38	29° 8 22'29	
desc. node	13984 Jun 22 05:32	20° Ⅱ 35'47		direct	13985 May 26 01:38	27° 8 48'01	
	13984 Jun 29 18:22	0°€			13985 May 31 09:22	Π °0	
	13984 Jul 20 03:17	0 $^{\circ}$ Ω		morning max el	13985 Jun 02 22:53		20°21'28
morning set	13984 Jul 22 03:17	3° Ω 09'15		desc. node	13985 Jun 09 02:33	9° Ⅱ 25'39	
max. Earth dist.	13984 Jul 28 08:59	13° Ω 14'14	1.42142 AU		13985 Jun 23 12:39	0ං ම	
				morning set	13985 Jul 01 10:48	12° © 03'25	
superior conj	13984 Aug 04 22:57	26° Ω 03'38	-1°29'40	max. Earth dist.	13985 Jul 10 18:21	26° 5 341'10	1.44005 AU
minimum elong	13984 Aug 05 05:41	26° Ω 32'51	1°29'30		13985 Jul 12 19:49	$0^{\circ}\Omega$	
	13984 Aug 07 05:01	0° m)					
evening rise	13984 Aug 15 23:14	15°Mp47'36		superior conj	13985 Jul 16 21:50	6° Ω 39'51	-1°57'52
asc. node	13984 Aug 16 05:31	16° Mp 16'21		minimum elong	13985 Jul 17 04:48	7° Ω 08'35	1°58'16
	13984 Aug 23 22:36	0∘ 亚		evening rise	13985 Jul 29 14:24	28° Ω 12'51	
evening max el	13984 Sep 01 01:22	11° ≏ 15'46	18°08'32		13985 Jul 30 15:04	0° m y	
retrograde	13984 Sep 08 01:23	14° ♀ 50'07		asc. node	13985 Aug 03 02:10	5° m 59'35	
evening set	13984 Sep 10 07:16	14° ≏ 28'31		evening max el	13985 Aug 15 15:10	24° m 28'29	18°02'54
inferior conj	13984 Sep 17 10:35	9° ഫ 38'59	0°12'12	retrograde	13985 Aug 22 02:30	27° m 49'48	
minimum elong	13984 Sep 17 11:00	9° ≙ 38'04	0°12'07	evening set	13985 Aug 24 16:36	27° m 16'47	
transit middle	13984 Sep 17 11:00	9° ₽ 38'04	0°12'07	inferior conj	13985 Aug 31 03:54	22° m/08'00	1°24'49
transit begin	13984 Sep 17 08:45	9° £ 43'04		minimum elong	13985 Aug 31 06:04	22° m) 02'28	1°23'50
transit end	13984 Sep 17 13:14	9° ഫ 33'03		min. Earth dist.	13985 Sep 03 02:38	19° m) 08'04	0.61999 AU
desc. node	13984 Sep 18 02:21	9° ₾ 03'32		desc. node	13985 Sep 03 02:53	17° m) 23'47	0.01////110
min. Earth dist.	13984 Sep 20 17:00	6° ₽ 44'43	0.59706 AU	morning rise	13985 Sep 04 25:55 13985 Sep 06 17:04	16° Mp 03'12	
morning rise	13984 Sep 24 11:24	3° ≏ 57'28	0.37700 AC	direct	13985 Sep 13 09:22	13° Mp 41'47	
direct	13984 Sep 30 23:30	1° ≏ 58'10		morning max el	13985 Sep 27 12:35	21° m/ 40'55	27050110
morning max el	13984 Oct 15 06:52	9° £ 47'28	27°45'18	morning max er	13985 Oct 04 19:16	ე∘ ഹ	27 38 10
morning max er		9 ==4728 0°M	27 43 16			0 == 0° M	
1-	13984 Oct 30 21:33			1-	13985 Oct 24 00:35	11°ML51'51	
asc. node	13984 Nov 12 07:28	22°M02'14		asc. node	13985 Oct 30 04:12		
morning set	13984 Nov 16 08:35	0° ₹ 18'57		morning set	13985 Oct 31 08:46	14°M17'15	1 21/667 444
n d r	13984 Nov 16 04:59	0° √ ¹	1 21100 411	max. Earth dist.	13985 Nov 05 19:32	25°M50'40	1.31665 AU
max. Earth dist.	13984 Nov 22 14:32	13° ∡ 55′20	1.31188 AU		1200531 05 10 26	00 31 410	1012150
				superior conj	13985 Nov 07 19:36		1°13'59
superior conj	13984 Nov 23 09:57	15° ∡ ¹43'35	1°27'48	minimum elong	13985 Nov 07 17:22	0° ∡ '01'53	1°14'32
minimum elong	13984 Nov 23 08:13		1°28'38		13985 Nov 07 17:01	0° ∡ ¹	
	13984 Nov 29 20:49	0°ಕ		evening rise	13985 Nov 14 13:17	15° ∡ '03'29	
evening rise	13984 Nov 30 02:48	0° る 32'12			13985 Nov 21 20:59	0°ಕ	
desc. node	13984 Dec 14 23:33	28° る 32'26		desc. node	13985 Dec 01 20:36	16° る 31'25	
	13984 Dec 15 22:02	0° ≈		evening max el	13985 Dec 10 00:03	26° පි 10'08	24°35'27
evening max el	13984 Dec 28 10:26	15° ≈ 41'10	26°04'36		13985 Dec 14 17:49	0° ≈	
retrograde	13985 Jan 11 09:10	22° ≈ 45′09		retrograde	13985 Dec 23 17:17	3° ≈ 00'41	
evening set	13985 Jan 17 15:03	21° ≈ 12'52		evening set	13985 Dec 29 00:53	1° ≈ 58′23	
min. Earth dist.	13985 Jan 21 23:41	18° ≈ 35'56	0.57936 AU		13986 Jan 02 02:04	30°Ŗる	
inferior conj	13985 Jan 25 00:45	16° ≈ 24'52	-4°17'15	min. Earth dist.	13986 Jan 03 11:49	29° る 09'40	0.56109 AU
minimum elong	13985 Jan 25 09:31	16° ≈ 09'08	4°13'49	inferior conj	13986 Jan 05 20:58	27° る 40'14	-5°26'48
morning rise	13985 Feb 02 06:56	12° ≈ 00'45		minimum elong	13986 Jan 06 04:32	27° る 28'22	5°24'29
direct	13985 Feb 04 07:56	11° ≈ 47'11		morning rise	13986 Jan 14 10:12	23° る 36'53	
asc. node	13985 Feb 08 06:08	12° ≈ 40′15		direct	13986 Jan 16 18:39	23° る 21'55	
morning max el	13985 Feb 12 19:25	15° ≈ 56'45	18°38'35	asc. node	13986 Jan 26 03:29	27° る 39'16	
		001/		morning max el		28° පි 08'18	19°36'40
morning set	13985 Feb 22 15:16	0° ∀		morning max ci	13986 Jan 26 15:47	28 008 18	19 30 40
	13985 Feb 22 15:16 13985 Feb 28 20:54	0° X 11° X 43'05		morning max er	13986 Jan 26 15:47 13986 Jan 28 10:18	28°€0818 0°≈	19 30 40
C				morning set			19 30 40
superior conj			0°26'44	_	13986 Jan 28 10:18	0° ≈	19 30 40
-	13985 Feb 28 20:54	11°) 43′05	0°26'44 0°26'35	_	13986 Jan 28 10:18 13986 Feb 13 00:07	0°≈ 26°≈13'05	19 30 40
superior conj	13985 Feb 28 20:54 13985 Mar 09 17:23	11°) 43′05 28°) 42′01		_	13986 Jan 28 10:18 13986 Feb 13 00:07	0°≈ 26°≈13'05	0°54'29
superior conj	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07	11°\(\dagger43'05\) 28°\(\dagger42'01\) 28°\(\dagger50'13\) 0°\(\gamma\)		morning set	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04	0°≈ 26°≈13'05 0°¥	0°54'29
superior conj minimum elong	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57	11°\dagger43'05 28°\dagger42'01 28°\dagger50'13		morning set	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13	0°≈ 26°≈13'05 0°¥ 12°¥13'35	0°54'29
superior conj minimum elong desc. node max. Earth dist.	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00	11°\(\dagger*\)43'05 28°\(\dagger*\)42'01 28°\(\dagger*\)50'13 0°\(\gamma\) 4°\(\gamma\)48'10 11°\(\gamma\)55'11	0°26'35	morning set superior conj minimum elong	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24	0°≈ 26°≈13'05 0° X 12° X 13'35 12° X 26'42	0°54'29 0°54'29
superior conj minimum elong desc. node	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00 13985 Mar 21 03:07	11° \(\) 43'05 28° \(\) 42'01 28° \(\) 50'13 0° \(\) 4° \(\) 48'10 11° \(\) 55'11 18° \(\) 54'24	0°26'35	morning set superior conj minimum elong max. Earth dist.	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24 13986 Feb 27 21:27	0°≈ 26°≈13'05 0°¥ 12°¥13'35 12°¥26'42 24°¥17'20 25°¥21'50	0°54'29 0°54'29
superior conj minimum elong desc. node max. Earth dist.	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00 13985 Mar 21 03:07 13985 Mar 27 23:07	11° \(\) 43'05 28° \(\) 42'01 28° \(\) 50'13 0° \(\) 4° \(\) 48'10 11° \(\) 55'11 18° \(\) 54'24 0° \(\)	0°26'35	superior conj minimum elong max. Earth dist. desc. node	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24 13986 Feb 27 21:27 13986 Mar 02 11:07	0°≈ 26°≈13'05 0°₩ 12°₩13'35 12°₩26'42 24°₩17'20 25°₩21'50 0°Υ	0°54'29 0°54'29
superior conj minimum elong desc. node max. Earth dist. evening rise	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00 13985 Mar 21 03:07 13985 Mar 27 23:07 13985 Apr 18 02:08	11°\(\dagger*\)43'05 28°\(\dagger*\)42'01 28°\(\dagger*\)50'13 0°\(\gamma\) 4°\(\gamma\)48'10 11°\(\gamma\)55'11 18°\(\gamma\)54'24 0°\(\dagger*\)	0°26'35 1.39977 AU	morning set superior conj minimum elong max. Earth dist.	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24 13986 Feb 27 21:27 13986 Mar 02 11:07 13986 Mar 03 00:28	0°≈ 26°≈13'05 0° ₩ 12° ₩13'35 12° ₩26'42 24° ₩17'20 25° ₩21'50 0° Ψ' 0° Ψ'59'11	0°54'29 0°54'29
superior conj minimum elong desc. node max. Earth dist. evening rise	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00 13985 Mar 21 03:07 13985 Mar 27 23:07 13985 Apr 18 02:08 13985 Apr 24 21:36	11°¥43'05 28°¥42'01 28°¥50'13 0°°Y 4°°Y48'10 11°°Y55'11 18°°Y54'24 0°℧ 0°Ⅱ 7°Ⅱ40'00	0°26'35	superior conj minimum elong max. Earth dist. desc. node evening rise	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24 13986 Feb 27 21:27 13986 Mar 02 11:07 13986 Mar 03 00:28 13986 Mar 21 04:28	0°≈ 26°≈13'05 0° ₩ 12° ₩13'35 12° ₩26'42 24° ₩17'20 25° ₩21'50 0° Ψ 0° Ψ'59'11 0° ₩	0°54'29 0°54'29 1.37716 AU
superior conj minimum elong desc. node max. Earth dist. evening rise	13985 Feb 28 20:54 13985 Mar 09 17:23 13985 Mar 09 19:08 13985 Mar 10 10:07 13985 Mar 13 00:57 13985 Mar 17 01:00 13985 Mar 21 03:07 13985 Mar 27 23:07 13985 Apr 18 02:08	11°\(\dagger*\)43'05 28°\(\dagger*\)42'01 28°\(\dagger*\)50'13 0°\(\gamma\) 4°\(\gamma\)48'10 11°\(\gamma\)55'11 18°\(\gamma\)54'24 0°\(\dagger*\)	0°26'35 1.39977 AU	superior conj minimum elong max. Earth dist. desc. node	13986 Jan 28 10:18 13986 Feb 13 00:07 13986 Feb 14 21:04 13986 Feb 20 23:33 13986 Feb 21 02:13 13986 Feb 27 07:24 13986 Feb 27 21:27 13986 Mar 02 11:07 13986 Mar 03 00:28	0°≈ 26°≈13'05 0° ₩ 12° ₩13'35 12° ₩26'42 24° ₩17'20 25° ₩21'50 0° Ψ' 0° Ψ'59'11	0°54'29 0°54'29 1.37716 AU

aga mada	13986 Apr 23 23:59	27° 8 08'46		ratra arada	12007 Apr. 02 21:50	12° 8 42'30	
asc. node				retrograde	13987 Apr 02 21:59	_	
evening set	13986 Apr 25 08:24	26° 8 07'58	0.60010.411	evening set	13987 Apr 09 04:15	10°811'01	
min. Earth dist.	13986 Apr 29 17:32	21° 8 16'09	0.68019 AU	asc. node	13987 Apr 10 21:23	8° 8 36'15	0.66074.433
inferior conj	13986 Apr 30 23:50	19° 8 37'22	2°00'40	min. Earth dist.	13987 Apr 13 07:06	5° 8 54'24	0.66874 AU
minimum elong	13986 Apr 30 21:41	19° 8 44'23	1°59'18	inferior conj	13987 Apr 15 02:00	3° 8 43'18	1°16'36
morning rise	13986 May 06 11:18	13° 8 43'15		minimum elong	13987 Apr 15 00:16	3° 8 48'38	1°15'30
direct	13986 May 10 01:36	12° 8 28'59			13987 Apr 18 08:47	30° Ŗ ♈	
morning max el	13986 May 17 02:30	16° 8 20'12	19°18'07	morning rise	13987 Apr 20 21:10	27° Ƴ 59'59	
desc. node	13986 May 26 23:27	28° 8 50'38		direct	13987 Apr 24 00:39	27° Ƴ 04'12	
	13986 May 27 18:37	$\Pi^{\circ}0$			13987 Apr 29 23:21	0° 8	
greatest brilliancy	13986 May 29 20:32	3° Ⅲ 03'17	-0.7m	morning max el	13987 Apr 30 13:07	0° 8 32'26	18°30'46
morning set	13986 Jun 10 13:36	20° Ⅱ 50′34		desc. node	13987 May 13 20:13	18° 8 41'29	
-	13986 Jun 16 11:49	0°ಅ		morning set	13987 May 21 08:49	0°Ⅱ29'28	
max. Earth dist.	13986 Jun 23 10:08	10° © 49'11	1.45283 AU	C	13987 May 21 01:19	$\Pi^{\circ}0$	
					•		
superior conj	13986 Jun 26 21:45	16° © 19'15	-2°12'48	superior conj	13987 Jun 06 07:11	25° Ⅲ 26'48	-2°08'32
minimum elong	13986 Jun 27 00:03	16° 5 28'22	2°13'48	minimum elong	13987 Jun 06 01:47	25° Ⅱ 05'45	2°09'21
	13986 Jul 05 10:09	$0^{\circ}\Omega$		max. Earth dist.	13987 Jun 06 05:32	25° Ⅲ 20′22	1.45851 AU
evening rise	13986 Jul 11 07:59	9° Ω 41'38			13987 Jun 09 05:10	0°ಅ	
asc. node	13986 Jul 20 22:51	25° Ω 25'19		evening rise	13987 Jun 22 01:00	20° © 09'13	
	13986 Jul 23 22:30	0° m)			13987 Jun 28 06:35	0°N	
evening max el	13986 Jul 30 05:31	7° m) 59'47	18°15'37	greatest brilliancy	13987 Jun 30 14:02	3°Ω37'10	-0.8m
retrograde	13986 Aug 05 14:09	11° mg 22'09	10 1337	asc. node	13987 Jul 07 19:39	$14^{\circ}\Omega 27'27$	-0.0111
•	Č						10045157
evening set	13986 Aug 08 12:47	10° m/35'02	2017111	evening max el	13987 Jul 13 17:28		18°45'57
inferior conj	13986 Aug 14 11:38	5° m 09'10	2°16'11	retrograde	13987 Jul 20 08:28	25° Ω 19'23	
minimum elong	13986 Aug 14 14:04	5° Mp 02'10	2°15'01	evening set	13987 Jul 23 15:57	24° Ω 16′27	
min. Earth dist.	13986 Aug 16 21:49	2°m/23'19	0.64150 AU	inferior conj	13987 Jul 29 06:02	18° Ω 35'29	2°49'10
	13986 Aug 19 05:37	30° ŖΩ		minimum elong	13987 Jul 29 07:55	18° Ω 29'37	2°48'03
morning rise	13986 Aug 20 13:49	28° Ω 50'40		min. Earth dist.	13987 Jul 31 02:00	16° Ω 18'36	0.65992 AU
desc. node	13986 Aug 22 21:24	27° Ω 19'59		morning rise	13987 Aug 03 22:59	12° Ω 11′09	
direct	13986 Aug 27 04:11	26° Ω 15′29		desc. node	13987 Aug 09 18:51	9° Ω 32'25	
	13986 Sep 05 03:38	0° m)		direct	13987 Aug 10 06:46	9° £ 31′30	
morning max el	13986 Sep 09 22:25	4° m 14'43	27°34'12	morning max el	13987 Aug 23 09:47	17° Ω 18'12	26°39'54
	13986 Sep 29 09:07	0∘ ত			13987 Sep 03 00:26	o∘ mp	
morning set	13986 Oct 15 00:43	27° ₽ 49'56			13987 Sep 22 07:03	0∘ ⊽	
S	13986 Oct 16 02:47	0° M .		morning set	13987 Sep 28 05:27	10° ♀ 50'21	
asc. node	13986 Oct 17 00:51	1°M51'26		max. Earth dist.	13987 Oct 02 06:30	18° ≏ 41'34	1.34228 AU
max. Earth dist.	13986 Oct 19 17:47	7°M26'39	1.32683 AU	asc. node	13987 Oct 02 00:30	21° ≏ 56'55	1.5 1220 110
mun. Durun uist.	13,00 000 17 17.17	, 110.2035	1.52005110	use. noue	13707 000 03 21:27	21	
superior conj	13986 Oct 23 01:24	14°MJ30'00	0°54'26	superior conj	13987 Oct 07 01:05	28° ≏ 25'21	0°29'18
minimum elong	13986 Oct 22 23:12	14° M .18'06	0°54'42	minimum elong	13987 Oct 06 23:35	28° ≏ 17'32	0°29'25
evening rise	13986 Oct 30 00:19	29°M33'57			13987 Oct 07 19:13	0°M	
evening rise	13986 Oct 30 05:12	0° ⊼		evening rise	13987 Oct 14 10:04	13°M58'55	
	13986 Nov 16 00:40	0°ਤੇ		evening rise	13987 Oct 14 10:04 13987 Oct 22 12:15	0° ∡ 7	
desc. node	13986 Nov 18 17:46	3° ට 20'51		evening max el	13987 Nov 03 01:14	16° ×7'20'03	21°15'56
			22052115	desc. node			21 13 30
evening max el	13986 Nov 21 09:49		22°53'15		13987 Nov 05 15:02	18° ₹ 36'46	
retrograde	13986 Dec 04 12:28	12° ろ 40'58		retrograde	13987 Nov 14 23:46	22° 🗷 15'47	
evening set	13986 Dec 08 12:37	12° ろ 06'02		evening set	13987 Nov 17 16:43	21° × 758'45	
min. Earth dist.	13986 Dec 15 18:43	8° る 46'30	0.54875 AU	inferior conj	13987 Nov 26 13:46	18° ∡ 05'42	
inferior conj	13986 Dec 16 22:15	8° る 07'16		minimum elong	13987 Nov 26 05:50	18° ∡ 16'53	
minimum elong	13986 Dec 16 22:44	8° ろ 06'35	5°56'59	min. Earth dist.	13987 Nov 27 00:34	17° ∡ ′50′29	0.54481 AU
morning rise	13986 Dec 25 10:16	4° る 18'35		morning rise	13987 Dec 04 19:33	14° ∡ 15'40	
direct	13986 Dec 28 11:16	3° る 57'07		direct	13987 Dec 08 18:39	13° ∡ ¹41'50	
morning max el	13987 Jan 08 21:58	9° る 25'39	20°57'59	morning max el	13987 Dec 21 14:45	19° ∡ ′52'56	22°38'54
asc. node	13987 Jan 13 00:45	14° පි 01'37			13987 Dec 29 22:12	0°ರ	
	13987 Jan 22 21:54	0° ≈		asc. node	13987 Dec 30 21:57	1° る 29'42	
morning set	13987 Jan 28 08:26	10° ≈ 54'29		morning set	13988 Jan 12 19:31	25° る 39'59	
					13988 Jan 14 20:12	0° ≈ ≈	
superior conj	13987 Feb 04 17:19	26° ≈ 16′08	1°15'14				
minimum elong	13987 Feb 04 19:51	26° ≈ 29'10	1°15'35	superior conj	13988 Jan 19 19:13	10° ≈ 39'28	1°29'08
	13987 Feb 06 13:13	0° ∀		minimum elong	13988 Jan 19 21:00	10° ≈ 49'02	1°29'51
max. Earth dist.	13987 Feb 09 16:34	6° ∺ 14'55	1.35585 AU	max. Earth dist.	13988 Jan 23 08:06	18°≈05'26	1.33777 AU
evening rise	13987 Feb 13 15:32	13°) 48'10	1.55505 AU	evening rise	13988 Jan 27 20:46	27°≈11'52	1.55111 AU
desc. node		15°\(\frac{1}{15}\)°\(\		evening 1150		27 ≈ 11 32 0° ∺	
uesc. noue	13987 Feb 14 17:59	15° π 50°25 0° Υ		daga rada	13988 Jan 29 07:33	0° X 6° ¥ 09'12	
	13987 Feb 22 21:10			desc. node	13988 Feb 01 14:34		
	13987 Mar 16 00:29	0°8	26010125		13988 Feb 16 04:23	0°Υ 100 0 650117	27000115
evening max el	13987 Mar 21 00:50	5° 8 22'44	26~19'35	evening max el	13988 Mar 02 14:18	18° Ƴ 59'17	2/~08'47

ratra ara da	12000 Mar 16 01:16	26° Ƴ 27'42		avanina risa	12000 Ion 10 12:50	1100002122	
retrograde	13988 Mar 16 01:16 13988 Mar 22 16:17	23° Y 55'54		evening rise desc. node	13989 Jan 10 12:58 13989 Jan 18 11:16	11°≈02'33 26°≈13'25	
evening set min. Earth dist.	13988 Mar 26 14:08	23 γ 33 34 20° γ 12'19	0.65331 AU	desc. node	13989 Jan 20 14:42	20 ≈ 13 23 0° ∺	
asc. node	13988 Mar 27 18:50	18° Υ 52'17	0.03331 AU		13989 Feb 10 21:43	0 K 0°Υ	
	13988 Mar 28 21:18	18 γ 32 17 17° γ 37'24	0°20'59	arranina marral	13989 Feb 10 21:43 13989 Feb 13 02:33	0 1 2°Υ12'43	27°32'51
inferior conj minimum elong	13988 Mar 28 20:44	17 Y 37 24	0°20'33	evening max el	13989 Feb 13 02.33	2 1 12 43 9° Υ 39'55	27 32 31
· ·		17 1 39 02 12° Y 06'44	0 20 33	retrograde evening set		9 1 39 33 7° Υ 15'03	
morning rise direct	13988 Apr 04 02:50	12 γ 06 44 11° γ 26'34		min. Earth dist.	13989 Mar 05 18:07 13989 Mar 09 12:50	4° Υ 00'41	0.63455 AU
	13988 Apr 06 20:38 13988 Apr 13 04:40	11 γ 26 34 14° Υ 44'29	18°00'09	inferior conj	13989 Mar 12 07:00	4 1 00 41 1° Υ 13'18	
morning max el	*	0° 8	18 00 09	3		1° Υ 09'31	
desc. node	13988 Apr 24 06:19	8° 8 50'27		minimum elong	13989 Mar 12 08:30	1° 1 09′31 30°R ∺	0°45'45
	13988 Apr 29 16:54			1-	13989 Mar 13 12:20	30°₹ ⊼ 28° 升 54'02	
morning set	13988 May 01 07:26	11° 8 28'16		asc. node	13989 Mar 14 16:18		
	13988 May 12 18:23	Π $^{\circ}$ 0		morning rise	13989 Mar 19 01:19	25°) € 57'35	
	12000 16 15 10 25	40T 46105	1045102	direct	13989 Mar 21 10:55	25°) € 29'32	17046146
superior conj	13988 May 15 18:35	4° Ⅱ 46'05		morning max el	13989 Mar 27 22:21	28°) (48′26	17°46'46
minimum elong	13988 May 15 09:32	4° Ⅱ 10′21	1°45'07		13989 Mar 29 01:48	0°Υ	
max. Earth dist.	13988 May 19 01:28	9° Ⅱ 56'06	1.45668 AU	morning set	13989 Apr 13 08:40	23° Y 43'29	
evening rise	13988 May 31 20:37	29° Ⅱ 46'40		desc. node	13989 Apr 16 13:31	29° Y 12'23	
	13988 Jun 01 00:05	0ංම			13989 Apr 17 00:41	0°8	
greatest brilliancy	13988 Jun 14 07:40	20°912'20	-0.7m				
	13988 Jun 21 07:22	0 $^{\circ}\Omega$		superior conj	13989 Apr 25 23:24	14° 8 56'29	-1°09'08
asc. node	13988 Jun 23 16:33	2° Ω 57'02		minimum elong	13989 Apr 25 16:32	14° 8 28'23	1°08'53
evening max el	13988 Jun 26 00:49	5° Ω 30′26	19°32'59	max. Earth dist.	13989 May 01 19:50	24° 8 22'05	1.44768 AU
retrograde	13988 Jul 03 06:19	9° Ω 34'05			13989 May 05 09:31	Π °0	
evening set	13988 Jul 06 23:12	8° Ω 14'21		evening rise	13989 May 11 07:32	9° Ⅱ 09'54	
inferior conj	13988 Jul 12 07:52	2° Ω 19'57	3°06'51		13989 May 25 05:34	0°€	
minimum elong	13988 Jul 12 08:48	2° Ω 16'49	3°05'49	evening max el	13989 Jun 09 02:26	19° 5 20'04	20°34'48
min. Earth dist.	13988 Jul 13 13:28	0° Ω 41'46	0.67424 AU	asc. node	13989 Jun 10 13:33	20°9543'06	
	13988 Jul 14 02:18	30° ₹🥯		retrograde	13989 Jun 17 05:15	24° © 00'33	
morning rise	13988 Jul 17 17:54	25° © 55'30		evening set	13989 Jun 21 08:17	22° © 23'50	
direct	13988 Jul 23 15:56	23° © 20'15		inferior conj	13989 Jun 26 14:26	16° © 17'22	3°11'39
desc. node	13988 Jul 26 16:15	23° © 54'17		minimum elong	13989 Jun 26 14:22	16° © 17'37	3°10'36
	13988 Aug 04 05:07	$0^{\circ}\Omega$		min. Earth dist.	13989 Jun 27 06:09	15° 5 23'16	0.68402 AU
morning max el	13988 Aug 04 20:41	0° Ω 38'54	25°24'17	morning rise	13989 Jul 01 20:08	9° 9 56'33	
-	13988 Aug 26 23:02	0° m)		direct	13989 Jul 07 06:32	7° 5 33'09	
morning set	13988 Sep 09 19:16	23° m) 09'42		desc. node	13989 Jul 13 13:34	10°900'54	
max. Earth dist.	13988 Sep 13 09:36	29° m 46'27	1.36230 AU	morning max el	13989 Jul 18 06:58	14°908'42	23°57'06
	13988 Sep 13 12:29	0∘ ⊽		C	13989 Jul 31 04:31	$0^{\circ}\Omega$	
	1				13989 Aug 19 20:06	0° m⊅	
superior conj	13988 Sep 19 15:51	11° ≙ 53'37	-0°00'51	morning set	13989 Aug 22 13:34	4° m) 36'11	
minimum elong	13988 Sep 19 15:53	11° ≏ 53'50	0°00'44	max. Earth dist.	13989 Aug 26 07:32	11° m 07'26	1.38536 AU
behind sun begin	13988 Sep 19 09:34	11° ≏ 22'21			Č	•	
behind sun end	13988 Sep 19 22:12	12° ≏ 25'22		superior conj	13989 Sep 02 18:05	24° m) 45'42	-0°34'49
asc. node	13988 Sep 19 18:03	12° £ 04'36		minimum elong	13989 Sep 02 20:33	24° m) 57'22	
evening rise	13988 Sep 27 16:23	28° ♀ 13'02			13989 Sep 05 11:45	0∘ ⊽	
0.108	13988 Sep 28 13:24	0°M		asc. node	13989 Sep 06 14:36	2° ₽ 10'14	
evening max el	13988 Oct 15 06:00	27°ML10'33	19°55'51	evening rise	13989 Sep 11 16:38	12° ♀ 09'04	
v , v 8 v .	13988 Oct 18 14:55	0° ∡ ¹			13989 Sep 21 09:00	0°M	
desc. node	13988 Oct 22 12:25	1° ∡ 52'50		evening max el	13989 Sep 28 00:44	8°M50'04	18°57'20
retrograde	13988 Oct 25 13:48	2° × 19'15		retrograde	13989 Oct 06 18:11	13°ML12'57	
evening set	13988 Oct 27 13:22	2° × 1913		evening set	13989 Oct 08 15:08	13°ML01'39	
evening set	13988 Nov 02 05:56	30°RM		desc. node	13989 Oct 09 09:52	12°M50'33	
inferior conj	13988 Nov 05 09:59	28°M09'02	-4°10'16	inferior conj	13989 Oct 16 22:53	8°M44'48	-2°23'18
minimum elong	13988 Nov 05 00:08	28°M24'03	4°06'21	minimum elong	13989 Oct 16 16:51	8°M55'22	
min. Earth dist.	13988 Nov 07 08:41	26°M57'54	0.55034 AU	min. Earth dist.	13989 Oct 19 21:06	6°M42'19	0.56437 AU
morning rise	13988 Nov 13 09:31	23°M57'21	0.55054 AU	morning rise	13989 Oct 19 21:00 13989 Oct 24 15:35	3°M58'19	0.30437 AU
direct	13988 Nov 18 07:05	23°M04'46		direct	13989 Oct 30 08:24	2°M41'30	
morning max el	13988 Dec 02 00:39	29°M52'50	24°28'01	morning max el	13989 Nov 13 12:11	9°M58'03	26°07'33
morning max er		29°11632′30 0° ∡ 7	24 20 UI	morning max er		9°11L38'03 0° ∡ 7	40 0/33
aga nada	13988 Dec 02 03:39			ana nada	13989 Nov 28 16:58		
asc. node	13988 Dec 16 19:03	19° ∡ 747′54		asc. node	13989 Dec 03 16:04	8° х 42'49	
	13988 Dec 22 06:51	0°る		morning set	13989 Dec 11 18:31	25° 尽 01'50	
morning set	13988 Dec 27 07:29	10° る 24'23			13989 Dec 14 01:21	0°⋜	
superior conj	13989 Jan 03 02:34	25° ප 15'53	1°36'33	superior conj	13989 Dec 18 13:02	9° ප 57'36	1°37'48
minimum elong	13989 Jan 03 03:20	25° ට 20'04	1°37'31	minimum elong	13989 Dec 18 12:43	9° る 55'49	1°38'52
-	13989 Jan 05 06:48	0° ≈		max. Earth dist.	13989 Dec 19 12:43	12° る 09'14	1.31535 AU
max. Earth dist.	13989 Jan 05 07:22	0° ≈ 03'04	1.32410 AU	evening rise	13989 Dec 25 13:09	25° ප 11'46	
				-			

	13989 Dec 27 21:04	0° ≈			13990 Dec 20 04:51	0° ≈	
desc. node	13990 Jan 05 08:03	15° ≈ 55'45		desc. node	13990 Dec 23 04:55	5° ≈ 07'47	
	13990 Jan 14 04:36	0° ∀		evening max el	13991 Jan 08 13:42	26° ≈ 38′25	26°43'43
evening max el	13990 Jan 26 11:19	14°) (49′45	27°25'39		13991 Jan 12 13:58	0° ∀	
retrograde	13990 Feb 09 10:07	22°) €09'14		retrograde	13991 Jan 22 12:48	3°) 47′50	
evening set	13990 Feb 16 06:52	19°) € 59'06	0.61044.477	evening set	13991 Jan 29 02:59	1°) € 59'44	
min. Earth dist.	13990 Feb 20 01:34	17°) (07'54	0.61344 AU	· F d F d	13991 Feb 01 06:46	30°R≈	0.50152.411
inferior conj minimum elong	13990 Feb 23 03:46 13990 Feb 23 08:11	14°) 22'05 14°) 12'08	-2°04'40 2°02'31	min. Earth dist.	13991 Feb 02 03:33 13991 Feb 05 07:54	29°≈21'55 26°≈53'31	0.59153 AU
asc. node	13990 Feb 23 08:11 13990 Mar 01 13:46	9°) 44'54	2-02-31	inferior conj minimum elong	13991 Feb 05 07:34 13991 Feb 05 15:28	26°≈38'46	-3°29'22 3°26'04
morning rise	13990 Mar 01 13.40	9° ∺ 24'17		morning rise	13991 Feb 03 13.28 13991 Feb 13 07:04	20 ≈36 40 22°≈16'44	3 20 04
direct	13990 Mar 04 16:02	9° H 04'37		direct	13991 Feb 15 07:41	22°≈01'54	
morning max el	13990 Mar 11 15:00	12°) 34'57	17°51'27	asc. node	13991 Feb 16 11:14	22°≈06'51	
morning man er	13990 Mar 23 09:29	0° Υ	1, 012,	morning max el	13991 Feb 23 02:59	25°≈53'51	18°15'26
morning set	13990 Mar 27 06:43	6° Ƴ 57'17			13991 Feb 26 15:09	0°) €	
desc. node	13990 Apr 03 10:05	19° Ƴ 42'47		morning set	13991 Mar 10 19:34	20° ¥ 51'15	
	-			-	13991 Mar 15 16:01	0 ° Υ	
superior conj	13990 Apr 07 04:07	26° Y 13'40	-0°29'28				
minimum elong	13990 Apr 07 01:24	26° Y ′02'02	0°29'23	superior conj	13991 Mar 20 07:29	8° Y 33'14	0°07'47
	13990 Apr 09 09:18	9° 8		minimum elong	13991 Mar 20 08:04	8° Y 35'52	0°07'38
max. Earth dist.	13990 Apr 14 11:04	8° 8 25'24	1.43242 AU	behind sun begin	13991 Mar 20 01:28	8° Y 05'59	
evening rise	13990 Apr 21 01:58	19° 8 00'15		behind sun end	13991 Mar 20 14:39	9° Y 05'40	
	13990 Apr 28 05:54	Π °0		desc. node	13991 Mar 21 06:36	10° Y 17'27	
	13990 May 19 23:57	0° ©		max. Earth dist.	13991 Mar 27 21:54	21° Y ′52'43	1.41248 AU
evening max el	13990 May 22 22:30	3°510'32	21°48'01	evening rise	13991 Apr 01 14:30	29° Y 40'41	
asc. node	13990 May 28 10:38	7°931'58			13991 Apr 01 19:14	0°B 8°0	
retrograde	13990 Jun 01 03:27	8°933'57		avanina may al	13991 Apr 21 17:48	0°Д 17°Д01'40	23°07'54
evening set inferior conj	13990 Jun 05 17:24 13990 Jun 10 23:33	6°\$40'47 0°\$23'52	3°05'10	evening max el asc. node	13991 May 05 14:19 13991 May 15 07:50	17°Щ01′40 23°Щ06′33	23-07-54
minimum elong	13990 Jun 10 22:33	0°\$23'32	3°04'01	retrograde	13991 May 15 07:30 13991 May 15 23:30	23° I I08'29	
min. Earth dist.	13990 Jun 11 01:55	0°9515'35	0.68903 AU	evening set	13991 May 13 23:30 13991 May 21 00:51	23 H0829 21°H00'28	
iiiii. Eartii dist.	13990 Jun 11 06:23	30°RⅡ	0.00703710	inferior conj	13991 May 26 09:11	14° II 35'15	2°48'14
morning rise	13990 Jun 16 03:30	24° I 108'55		minimum elong	13991 May 26 07:28		2°46'57
direct	13990 Jun 21 01:18	22° I I02'41		min. Earth dist.	13991 May 25 22:40	15° Ⅱ 11'42	0.68926 AU
desc. node	13990 Jun 30 10:48	27° Ⅱ 26'49		morning rise	13991 May 31 14:00	8° Ⅱ 27'33	
morning max el	13990 Jun 30 18:44	27° Ⅱ 46'34	22°27'52	direct	13991 Jun 04 23:05	6° Ⅱ 41'23	
	13990 Jul 02 21:08	0 \circ \odot		morning max el	13991 Jun 13 11:08	11° Ⅱ 34′29	21°04'27
	13990 Jul 24 19:12	$0^{\circ}\Omega$		desc. node	13991 Jun 17 07:53	15° Ⅱ 50'40	
morning set	13990 Aug 03 08:13	15° Ω 00'14			13991 Jun 27 21:30	0 \circ 60	
max. Earth dist.	13990 Aug 08 07:28	23° Ω 13′50	1.40886 AU	morning set	13991 Jul 14 02:28	24° © 21'05	
	13990 Aug 12 06:19	0° ™			13991 Jul 17 16:25	0 \circ Ω	
	12000 1 16 02 20	60 m 50100	1010111	max. Earth dist.	13991 Jul 21 13:18	6° Ω 13'30	1.42995 AU
superior conj	13990 Aug 16 03:38	6° Mp 52'00			12001 1 1 20 15 56	100 001151	1040146
minimum elong asc. node	13990 Aug 16 08:58 13990 Aug 24 11:11	7° TD 15'58	1°09'54	superior conj	13991 Jul 28 15:56 13991 Jul 28 23:14	18° Ω 01'51 18° Ω 32'49	
evening rise	13990 Aug 24 11:11 13990 Aug 26 07:31	22° m 10'38 25° m 38'52		minimum elong	13991 Jul 28 23:14 13991 Aug 04 13:50	0°M)	1 42 40
evening rise	13990 Aug 28 15:16	0° ⊽		evening rise	13991 Aug 04 13:30 13991 Aug 09 08:43	8° Mp 30'59	
evening max el	13990 Sep 11 06:07	21° ₽ 13'23	18°20'25	asc. node	13991 Aug 11 07:45	12° mg 01'10	
retrograde	13990 Sep 18 18:04	25° ♀ 01'37			13991 Aug 22 05:36	0∘ ⊽	
evening set	13990 Sep 20 19:51	24° Ω 44'51		evening max el	13991 Aug 25 17:52	4° ≙ 10'09	18°03'47
desc. node	13990 Sep 26 07:22	21° ≏ 46'24		retrograde	13991 Sep 01 11:19	7° ≏ 37'34	
inferior conj	13990 Sep 28 09:31	20° ≏ 06'46	-0°39'37	evening set	13991 Sep 03 20:33	7° £ 11'32	
minimum elong	13990 Sep 28 08:02	20° ჲ 09'49	0°38'46	inferior conj	13991 Sep 10 16:39	2° ₽ 13'15	0°45'41
min. Earth dist.	13990 Oct 01 16:20	17° ≙ 26'07	0.58424 AU	minimum elong	13991 Sep 10 18:01	2° ഫ 09'59	0°45'07
morning rise	13990 Oct 05 16:46	14° ≏ 43'33		desc. node	13991 Sep 13 04:53	29° m 49'53	
direct	13990 Oct 11 23:28	12° ≏ 59'50			13991 Sep 13 00:33	30°R, Mp	
morning max el	13990 Oct 26 06:56	20° △ 38'19	27°20'08	min. Earth dist.	13991 Sep 13 20:29	29° m 14'05	0.60681 AU
	13990 Nov 03 09:22	0°M		morning rise	13991 Sep 17 12:30	26° Th 20'22	
asc. node	13990 Nov 20 12:59	28°M04'58		direct	13991 Sep 24 02:57	24° m) 11'09	
	13990 Nov 21 12:24	0°×7 0°×720'07			13991 Oct 06 03:32	0∘ ত	27055140
morning set	13990 Nov 26 02:52	9° ∡ ¹28'07		morning max el	13991 Oct 08 09:25 13991 Oct 28 19:03	2° ₽ 05'44 0° I L	21 33 40
superior conj	13990 Dec 03 00:38	24° ₹ '39'09	1°33'08	asc. node	13991 Oct 28 19:03 13991 Nov 07 09:47	บาแน 17° M 46'31	
minimum elong	13990 Dec 03 00:38 13990 Dec 02 23:20	24° x '39'09' 24° x '31'56	1°34'05	morning set	13991 Nov 07 09:47 13991 Nov 10 06:39	23°M38'29	
max. Earth dist.	13990 Dec 02 21:01	24°× 18'58	1.31170 AU	ong set	13991 Nov 13 06:27	0° √	
	13990 Dec 05 10:05	0°る		max. Earth dist.	13991 Nov 16 04:24	6° ₹ 22'46	1.31325 AU
evening rise	13990 Dec 09 18:56	9° ප 33'41				0	
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superior conj	13993 Oct 15 23:19	7° ጤ 48'45	0°44'26	asc. node	13994 Sep 27 23:40	17° ≏ 50'40	
minimum elong	13993 Oct 15 21:19	7°M38'06	0°44'38		-		
evening rise	13993 Oct 23 01:52	23°M03'09		superior conj	13994 Sep 29 19:35	21° ≏ 33'35	0°17'05
	13993 Oct 26 09:44	0° ∡ ¹		minimum elong	13994 Sep 29 18:37	21° ≏ 28'41	0°17'11
desc. node	13993 Nov 12 20:11	27° ∡ °23′54			13994 Oct 03 21:21	0° M	
evening max el	13993 Nov 13 05:41	27° х 47′26	22°10'29	evening rise	13994 Oct 07 10:26	7° M 24'13	
•	13993 Nov 15 17:28	ರ°0		•	13994 Oct 19 14:15	0° ∡ ″	
retrograde	13993 Nov 25 22:12	4° る 04'35		evening max el	13994 Oct 26 02:15	8° ҂ 11'33	20°39'18
evening set	13993 Nov 29 07:59	3° ප 38'56		desc. node	13994 Oct 30 17:31	11° √ 51'54	
inferior conj	13993 Dec 07 23:26	29° х¹ 44'37	-5°54'17	retrograde	13994 Nov 06 08:35	13° ҂ 47'32	
minimum elong	13993 Dec 07 19:56	29° х ⁴49'30	5°52'59	evening set	13994 Nov 08 16:20	13° ∡ ³34'18	
min. Earth dist.	13993 Dec 07 11:56	0° る 00'43	0.54593 AU	inferior conj	13994 Nov 17 14:58	9° х 40′00 -	-5°02'05
	13993 Dec 07 12:27	30°₽ ⋌		minimum elong	13994 Nov 17 05:14	9° ₰ 754'00	4°58'51
morning rise	13993 Dec 16 08:56	25° ₹ '57'24		min. Earth dist.	13994 Nov 18 18:04	9° ⊀ 01'00	0.54608 AU
direct	13993 Dec 19 19:06	25° ∡ ³31'16		morning rise	13994 Nov 25 18:03	5° ∡ ¹43'27	
	13993 Dec 30 09:50	ರ°0		direct	13994 Nov 30 03:16	5° ₹ 02'15	
morning max el	13993 Dec 31 21:05	1° る 18'53	21°38'52	morning max el	13994 Dec 13 09:36	11° ₹ 29'21	23°25'21
asc. node	13994 Jan 07 03:15	8° ප 41'00		asc. node	13994 Dec 25 00:25	26° ₹ 31'52	
	13994 Jan 19 05:42	0° ≈			13994 Dec 27 01:52	8°0	
morning set	13994 Jan 21 10:04	4° ≈ 31'30		morning set	13995 Jan 05 21:47	19° る 17'12	
C				C	13995 Jan 10 20:34	0° ≈	
superior conj	13994 Jan 28 14:28	19° ≈ 42'07	1°21'55				
minimum elong	13994 Jan 28 16:44	19° ≈ 54'00	1°22'27	superior conj	13995 Jan 12 18:59	4° ≈ 11'36	1°33'02
max. Earth dist.	13994 Feb 01 22:46	28° ≈ 36'44	1.34775 AU	minimum elong	13995 Jan 12 20:22	4°≈19'02	1°33'54
	13994 Feb 02 15:28	0° ∀		max. Earth dist.	13995 Jan 15 17:55	10° ≈ 30'30	1.33140 AU
evening rise	13994 Feb 06 03:12	6°){ 47'14		evening rise	13995 Jan 20 13:29	20° ≈ 23'19	
desc. node	13994 Feb 08 20:09	11°) € 50′23		C	13995 Jan 25 13:44	0° ∀	
	13994 Feb 19 12:04	0° Υ		desc. node	13995 Jan 26 16:48	2° ₩ 03'50	
evening max el	13994 Mar 13 07:22	28° Y ′32'42	26°43'10		13995 Feb 13 11:26	0° Υ °	
C	13994 Mar 14 20:43	0° ႘		evening max el	13995 Feb 23 20:44	12° Y ′01'54	27°22'32
retrograde	13994 Mar 26 11:11	5° 8 57'02		retrograde	13995 Mar 09 11:32	19° Ƴ 29'56	
evening set	13994 Apr 01 21:22	3° 8 24'58		evening set	13995 Mar 16 05:24	17° Y ′00'19	
asc. node	13994 Apr 04 23:56	0° 8 25'05		min. Earth dist.	13995 Mar 20 01:44	13° Y ′29'48	0.64573 AU
	13994 Apr 05 08:55	30° ₹ Υ		inferior conj	13995 Mar 22 13:46	10° Ƴ 48'17 -	-0°06'08
min. Earth dist.	13994 Apr 05 22:03	29° Y ′22'26	0.66266 AU	minimum elong	13995 Mar 22 13:57		0°06'09
inferior conj	13994 Apr 07 22:08	27° Y ′00'18	0°54'29	transit middle	13995 Mar 22 13:57		0°06'09
minimum elong	13994 Apr 07 20:47	27° Y ′04'18	0°53'36	transit begin	13995 Mar 22 11:07	10° Ƴ 55'28	
morning rise	13994 Apr 13 21:22	21° Y ′21'46		transit end	13995 Mar 22 16:47	10° Ƴ 40'08	
direct	13994 Apr 16 20:35	20° Ƴ '32'57		asc. node	13995 Mar 22 21:25	10° Ƴ 27'42	
morning max el	13994 Apr 23 06:09	23° Y ′55'22	18°15'33	morning rise	13995 Mar 29 00:27	5° Y 23'35	
	13994 Apr 28 08:01	0°8		direct	13995 Mar 31 14:42	4° Y '48'51	
desc. node	13994 May 07 22:27	14° 8 33'45		morning max el	13995 Apr 06 23:00		17°52'20
morning set	13994 May 12 19:08	22° 8 19'24		5 5	13995 Apr 21 21:46	0°8	
5 - 5	13994 May 17 14:41	0°II		morning set	13995 Apr 24 05:47	3° 8 53'45	
	,			desc. node	13995 Apr 24 19:08	4° 8 49'26	
superior conj	13994 May 28 04:43	16° Ⅱ 40'27	-2°00'37		r		
minimum elong	13994 May 27 20:57	16° Ⅱ 10′04		superior conj	13995 May 07 22:11	26° 8 18'31 -	-1°30'48
max. Earth dist.	13994 May 29 14:22		1.45869 AU	minimum elong	13995 May 07 13:32	25° 8 43'56	1°30'38
	13994 Jun 05 17:51	0° ©		C	13995 May 10 05:51	$\Pi^{\circ}0$	
evening rise	13994 Jun 13 05:21	11° © 38'57		max. Earth dist.	13995 May 12 10:36		1.45375 AU
greatest brilliancy	13994 Jun 24 01:07	28° 5 24'28	-0.8m	evening rise	13995 May 23 19:28	21° II 06'26	
· ·	13994 Jun 25 02:23	$0^{\circ}\Omega$		C	13995 May 29 15:40	0ം ഉ	
asc. node	13994 Jul 01 21:57	9° Ω 43'59		greatest brilliancy	13995 Jun 07 15:23	13° © 22'13	-0.6m
evening max el	13994 Jul 06 08:12	14° Ω 54'48	19°04'06	asc. node	13995 Jun 18 18:54	27° © 57'02	
retrograde	13994 Jul 13 04:16	18° Ω 41'13		evening max el	13995 Jun 19 13:14		19°57'35
evening set	13994 Jul 16 15:47	17° Ω 31'05		C	13995 Jun 20 21:21	$0^{\circ}\Omega$	
inferior conj	13994 Jul 22 03:10	11° Ω 44'22	2°58'22	retrograde	13995 Jun 27 02:53	3° Ω 02'21	
minimum elong	13994 Jul 22 04:41	11° Ω 39'32	2°57'17	evening set	13995 Jul 01 00:06	1° Ω 35'08	
min. Earth dist.	13994 Jul 23 16:59	9° Ω 43'11	0.66659 AU	<i>3</i>	13995 Jul 02 18:08	30°Rூ	
morning rise	13994 Jul 27 16:55	5° Ω 19'44		inferior conj	13995 Jul 06 07:20		3°10'19
direct	13994 Aug 02 20:58	2°Ω40'55		minimum elong	13995 Jul 06 07:51		3°09'18
desc. node	13994 Aug 03 21:22	2° Ω 44'46		min. Earth dist.	13995 Jul 07 06:52		0.67902 AU
morning max el	13994 Aug 15 15:01	10° Ω 16'51	26°09'44	morning rise	13995 Jul 11 15:15	19° © 12'10	2.0,702710
	13994 Aug 31 06:11	0°m)	20 07 11	direct	13995 Jul 17 08:26	16°5941'30	
	13994 Sep 18 16:09	0∘ ত المارة		desc. node	13995 Jul 17 08:20 13995 Jul 21 18:45	17°954'55	
morning set	13994 Sep 20 14:04	ა <u>~</u> 3° _ 30'44		morning max el	13995 Jul 29 01:40		24°48'02
max. Earth dist.	13994 Sep 20 14:04 13994 Sep 24 09:17	10° £ 43'38	1.35035 AU	morning max er	13995 Jul 29 01:40 13995 Aug 03 16:02	23°94243 0°Ω	24 40 UZ
max. Earm uist.	13774 SCP 24 UY.1/	10 ==43 38	1.55055 AU		13773 Aug 03 10.02	0 06	

	12005 4 24 15 12	00.00			12006 1 1 10 12 27	70616140	22010140
	13995 Aug 24 15:12	0° mp		morning max el	13996 Jul 10 12:27	7° © 16'48	23°18'49
morning set	13995 Sep 02 20:06	15° m 28'47	1.27106.477		13996 Jul 28 05:21	0°N	
max. Earth dist.	13995 Sep 06 09:53	21° m 53'43	1.37196 AU	morning set	13996 Aug 14 04:48	26° Ω 30′09	
	13995 Sep 10 17:56	0∘ ⊽			13996 Aug 16 06:35	0° m	
		_		max. Earth dist.	13996 Aug 18 07:53	3°m/31'32	1.39546 AU
superior conj	13995 Sep 13 05:27	4° ≏ 47'24					
minimum elong	13995 Sep 13 06:26	4° ≏ 52'09	0°14'45	superior conj	13996 Aug 26 01:06	17° m 21'06	
behind sun begin	13995 Sep 13 03:43	4° ≏ 38'54		minimum elong	13996 Aug 26 04:47	17° m 38'09	0°49'35
behind sun end	13995 Sep 13 09:09	5° ഫ 05'26		asc. node	13996 Aug 31 16:47	28° Mp 01'55	
asc. node	13995 Sep 14 20:14	7° ≙ 57'54			13996 Sep 01 17:21	0∘ ত	
evening rise	13995 Sep 21 14:31	21° ≏ 31'45		evening rise	13996 Sep 04 11:14	5° ≏ 18′02	
	13995 Sep 25 21:29	0° M			13996 Sep 19 06:17	0° M ₊	
evening max el	13995 Oct 08 13:02	19° M 22'04	19°28'07	evening max el	13996 Sep 20 12:47	1°ML21'33	18°39'03
desc. node	13995 Oct 17 14:56	24° ™ 09'59		retrograde	13996 Sep 28 16:38	5°M28'24	
retrograde	13995 Oct 18 03:52	24°M10'51		evening set	13996 Sep 30 14:54	5°M15'24	
evening set	13995 Oct 20 00:55	24° ™ 00′39		desc. node	13996 Oct 03 12:23	4°ML11'31	
inferior conj	13995 Oct 28 17:08	19° ™ 54'04	-3°26'00	inferior conj	13996 Oct 08 15:12	0° M 49'49	-1°37'42
minimum elong	13995 Oct 28 08:31	20°ML07'57	3°22'14	minimum elong	13996 Oct 08 11:14	0° II L57'17	1°35'39
min. Earth dist.	13995 Oct 31 03:28	18°M20'15	0.55541 AU		13996 Oct 09 17:36	30° ₽ Ω	
morning rise	13995 Nov 05 14:00	15°M28'34		min. Earth dist.	13996 Oct 11 18:48	28° ≏ 28'43	0.57223 AU
direct	13995 Nov 10 20:02	14°M26'34		morning rise	13996 Oct 16 04:08	25° ≏ 46'51	
morning max el	13995 Nov 24 19:18	21°M27'16	25°12'52	direct	13996 Oct 22 03:25	24° ₽ 18'39	
5 5	13995 Dec 02 05:53	0° ∡ 7			13996 Nov 03 11:18	0° M	
asc. node	13995 Dec 11 21:29	15° х 06'53		morning max el	13996 Nov 05 09:49	1°ML46'14	26°42'36
	13995 Dec 19 12:30	0°る		8	13996 Nov 25 11:34	0° ∡ 7	
morning set	13995 Dec 21 09:32	3° る 59'09		asc. node	13996 Nov 27 18:26	4° ∡ 14'46	
morning sec	13773 Bee 21 07.52	3 337 07		morning set	13996 Dec 04 19:38	18° × 733'01	
superior conj	13995 Dec 28 03:52	18° ට 50'45	1°37'50	morning set	13996 Dec 10 00:46	0°중	
minimum elong	13995 Dec 28 04:10	18°る52'24			13770 DCC 10 00.40	٠ ن	
max. Earth dist.	13995 Dec 29 20:09	22°る32'11	1.31970 AU	superior conj	13996 Dec 11 15:03	3° ⋜ 33'43	1°36'33
max. Earth dist.	13996 Jan 02 07:12	0° ≈	1.31970 AO	minimum elong	13996 Dec 11 14:18	3°る3343	1°37'35
evening rise	13996 Jan 04 09:20	0 ∞ 4°≈22'09		max. Earth dist.	13996 Dec 11 14:18 13996 Dec 12 03:03	4°る40'41	1.31308 AU
desc. node	13996 Jan 13 13:31	4 ≈22 09 21°≈59'33		evening rise	13996 Dec 12 03:03 13996 Dec 18 12:09	18°る37'46	1.51506 AU
desc. node		21 ≈3933 0°) (evening rise		0°≈	
avanina may al	13996 Jan 18 06:32	0 X 25° ¥ 00'49	27022154	daga mada	13996 Dec 24 02:38		
evening max el	13996 Feb 06 07:38	25° π 0049 0° Υ	21-33-34	desc. node	13996 Dec 30 10:19	11° ≈ 30'30 0° ¥	
	13996 Feb 12 15:21	0° γ 2° Υ 25'26			13997 Jan 11 22:33	0° X 7° X 17'56	27912107
retrograde	13996 Feb 20 04:36			evening max el	13997 Jan 18 13:47		2/*12.06
evening set	13996 Feb 27 02:04	0° Υ 05'32		retrograde	13997 Feb 01 13:20	14°) (34'17	
	13996 Feb 27 05:20	30° ₹ ₩	0.60556.433	evening set	13997 Feb 08 08:13	12°) 32′26	0.60404.477
min. Earth dist.	13996 Mar 01 20:07		0.62576 AU	min. Earth dist.	13997 Feb 12 04:17	9°) 48′27	0.60404 AU
inferior conj	13996 Mar 04 18:22	24°) 13'38		inferior conj	13997 Feb 15 08:27	7° ∺ 07'40	
minimum elong	13996 Mar 04 21:01	24°) €07'14	1°17'09	minimum elong	13997 Feb 15 14:16	6° ¥ 55′21	2°37'33
asc. node	13996 Mar 08 18:55	20°) (43′08		morning rise	13997 Feb 22 23:33	2°) 18'49	
morning rise	13996 Mar 11 18:43	19°) €05'30		asc. node	13997 Feb 23 16:21	2° ∺ 09'18	
direct	13996 Mar 14 01:28	18°) 41′27		direct	13997 Feb 25 01:12	2° ∺ 01'46	
morning max el	13996 Mar 20 16:43	22° ∺ 03'39	17°46'36	morning max el	13997 Mar 04 07:53	5° ¥ 40′11	17°59'14
	13996 Mar 26 20:37	0° Υ		morning set	13997 Mar 19 21:36	0° Υ 08'56	
morning set	13996 Apr 05 16:38	16° Ƴ 36′21			13997 Mar 19 19:39	0° Υ	
desc. node	13996 Apr 10 15:43	25° Y 15'37		desc. node	13997 Mar 28 12:15	15° Ƴ 48'18	
	13996 Apr 13 09:55	0° 8					
				superior conj	13997 Mar 30 03:46	18° Ƴ 42'42	
superior conj	13996 Apr 17 13:00	6° 8 57'35		minimum elong	13997 Mar 30 02:38	18° Ƴ 37'43	0°13'12
minimum elong	13996 Apr 17 07:53	6° 8 36'15	0°52'08	behind sun begin	13997 Mar 29 22:05	18° Ƴ 17'45	
max. Earth dist.	13996 Apr 24 04:02	17° 8 47'26	1.44186 AU	behind sun end	13997 Mar 30 07:11	18° Ƴ 57'40	
	13996 May 01 22:12	Π $^{\circ}0$			13997 Apr 05 18:06	9° 8	
evening rise	13996 May 02 07:47	0° Ⅱ 37′00		max. Earth dist.	13997 Apr 06 16:49	1° 8 34'22	1.42435 AU
	13996 May 22 06:49	0 \circ \odot		evening rise	13997 Apr 12 09:02	10° 8 46'47	
evening max el	13996 Jun 01 12:16	12° © 33'56	21°04'40		13997 Apr 24 23:19	$\Pi^{\circ}0$	
asc. node	13996 Jun 04 15:57	15° © 20'51		evening max el	13997 May 15 06:12	26° Ⅲ 24'19	22°21'29
retrograde	13996 Jun 10 01:51	17° © 32'39			13997 May 19 10:14	0ಂತಾ	
evening set	13996 Jun 14 09:25	15° © 48'43		asc. node	13997 May 22 13:05	1° 5 40'20	
inferior conj	13996 Jun 19 15:16	9° © 37'17	3°10'11	retrograde	13997 May 24 23:23	2°507'04	
minimum elong	13996 Jun 19 14:46	9° © 38'58	3°09'07	evening set	13997 May 29 18:00	0°907'31	
min. Earth dist.	13996 Jun 20 01:10	9° © 02'51	0.68675 AU	-	13997 May 29 21:30	30°RⅡ	
morning rise	13996 Jun 24 19:54	3° © 18'37		inferior conj	13997 Jun 04 00:50	23° Ⅱ 46'37	2°59'14
direct	13996 Jun 30 00:51	1° © 02'16		minimum elong	13997 Jun 03 23:30	23° Ⅲ 51'17	2°58'01
desc. node	13996 Jul 07 16:02	4° © 38'13		min. Earth dist.	13997 Jun 03 21:44	23° Ⅱ 57'28	0.68971 AU

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morning rise	13997 Jun 09 04:49	17° Ⅱ 34'19		min. Earth dist.	13998 May 18 18:20	8° Ⅱ 53'43	0.68791 AU
direct	13997 Jun 13 21:08	15° Ⅲ 36′21		morning rise	13998 May 24 16:06	1° Ⅱ 55'02	
morning max el	13997 Jun 23 01:45	20° ∏ 58'33	21°51'08	direct	13998 May 28 19:57	0° Ⅱ 17'27	
desc. node	13997 Jun 24 13:12	22° Ⅱ 30′59		morning max el	13998 Jun 05 20:47		20°32'14
	13997 Jun 30 18:15	0		desc. node	13998 Jun 11 10:16	11° Ⅱ 14'44	
	13997 Jul 21 10:40	$0^{\circ}\Omega$			13998 Jun 24 18:18	0 \circ \odot	
morning set	13997 Jul 25 12:44	6° Ω 26′24		morning set	13998 Jul 04 22:40	15° 5 26'44	
max. Earth dist.	13997 Jul 31 09:24	15° Ω 58′09	1.41827 AU	max. Earth dist.	13998 Jul 13 18:06	29° © 19'35	1.43763 AU
					13998 Jul 14 04:09	$0^{\circ}\Omega$	
superior conj	13997 Aug 08 02:06	29° Ω 04'31	-1°24'42				
minimum elong	13997 Aug 08 08:31	29° £ 32'36	1°24'29	superior conj	13998 Jul 20 04:33	9° Ω 50′00	-1°54'17
	13997 Aug 08 14:45	0° m ∕		minimum elong	13998 Jul 20 11:45	10° Ω 19'56	1°54'33
evening rise	13997 Aug 18 20:51	18° m 33'07			13998 Jul 31 23:42	o° m y	
asc. node	13997 Aug 18 13:21	17° m 58'33		evening rise	13998 Aug 01 14:49	1° m 06'05	
	13997 Aug 25 04:32	0∘ ত		asc. node	13998 Aug 05 09:57	7° m 44'03	
evening max el	13997 Sep 03 21:26	14° ≏ 00'46	18°11'00	evening max el	13998 Aug 18 10:50	27° m 09'54	18°02'30
retrograde	13997 Sep 11 00:09	17° ≏ 38'08			13998 Aug 22 09:59	0∘ ত	
evening set	13997 Sep 13 04:56	17° ≏ 17'54		retrograde	13998 Aug 24 23:21	0° ჲ 32'17	
inferior conj	13997 Sep 20 10:54	12° ≏ 31'21	-0°00'47	evening set	13998 Aug 27 12:13	0° ഫ 01'06	
minimum elong	13997 Sep 20 10:52	12° ≏ 31'24	0°00'38		13998 Aug 27 13:19	30°R, Mp	
transit middle	13997 Sep 20 10:52	12° ≏ 31'24	0°00'38	inferior conj	13998 Sep 03 01:42	24° m 54'54	1°15'12
transit begin	13997 Sep 20 07:28	12° ≏ 38'51		minimum elong	13998 Sep 03 03:42	24° m 49'51	1°14'19
transit end	13997 Sep 20 14:17	12° ≏ 23'56		min. Earth dist.	13998 Sep 06 01:53	21° m 54'37	0.61664 AU
desc. node	13997 Sep 20 09:54	12° ჲ 33'32		desc. node	13998 Sep 07 07:26	20° m 46'18	
min. Earth dist.	13997 Sep 23 17:47	9° ≙ 39'56	0.59369 AU	morning rise	13998 Sep 09 16:36	18° m 52'55	
morning rise	13997 Sep 27 13:25	6° ♀ 54'25		direct	13998 Sep 16 08:37	16° m 34'32	
direct	13997 Oct 04 00:26	4° ≙ 58'57		morning max el	13998 Sep 30 12:46	24° m 32'25	27°58'43
morning max el	13997 Oct 18 07:49	12° ≏ 45'35	27°40'00		13998 Oct 05 12:03	0∘ ⊽	
	13997 Oct 31 23:51	0° M ₊			13998 Oct 25 09:31	0° M .	
asc. node	13997 Nov 14 15:16	23°M45'52		asc. node	13998 Nov 01 12:01	13°MJ33'34	
	13997 Nov 17 17:12	0° ∡ ″		morning set	13998 Nov 03 03:25	16°M54'23	
morning set	13997 Nov 19 02:15	2° ∡ ¹52'57		max. Earth dist.	13998 Nov 08 16:59	28°M46'02	1.31563 AU
max. Earth dist.	13997 Nov 25 11:13	16° ₰ ¹48'07	1.31168 AU		13998 Nov 09 06:28	0° ∡ ¹	
superior conj	13997 Nov 26 02:34	18° ҂ 13'48	1°29'24	superior conj	13998 Nov 10 12:35	2° х 45′53	1°16'27
minimum elong	13997 Nov 26 00:56	18° ₰ 04'41	1°30'16	minimum elong	13998 Nov 10 10:24	2° ∡ ³33′50	1°17'03
	13997 Dec 01 09:48	0°ಕ		evening rise	13998 Nov 17 05:52	17° ∡ ³34′22	
evening rise	13997 Dec 02 19:39	3° る 03'28			13998 Nov 23 06:13	0°₹	
desc. node	13997 Dec 17 07:12	0° ≈ 26′17		desc. node	13998 Dec 04 04:13	18° る 33'57	
	13997 Dec 17 00:39	0° ≈		evening max el	13998 Dec 13 03:26	29° る 19'42	24°49'56
evening max el	13997 Dec 31 12:46	18° ≈ 44'11	26°15'42		13998 Dec 13 20:44	0° ≈	
retrograde	13998 Jan 14 11:45	25° ≈ 49′23		retrograde	13998 Dec 26 21:41	6° ≈ 12'21	
evening set	13998 Jan 20 20:00	24° ≈ 12'59		evening set	13999 Jan 01 09:26	5° ≈ 05′26	
min. Earth dist.	13998 Jan 25 02:13	21° ≈ 36′13	0.58245 AU	min. Earth dist.	13999 Jan 06 15:18	2° ≈ 19'49	0.56351 AU
inferior conj	13998 Jan 28 04:26	19° ≈ 20'17	-4°04'59	inferior conj	13999 Jan 09 03:46	0° ≈ 43'29	-5°18'08
minimum elong	13998 Jan 28 12:58	19° ≈ 04'37	4°01'33	minimum elong	13999 Jan 09 11:53	0° ≈ 30'31	5°15'35
morning rise	13998 Feb 05 08:56	14° ≈ 52'41			13999 Jan 10 07:13	30°Ŗる	
direct	13998 Feb 07 09:38	14° ≈ 38'55		morning rise	13999 Jan 17 16:31	26° る 37'22	
asc. node	13998 Feb 10 13:47	15° ≈ 14'25		direct	13999 Jan 19 23:19	26° る 22'54	
morning max el	13998 Feb 15 16:39	18° ≈ 43'45	18°31'53	asc. node	13999 Jan 28 11:11	29° る 59'43	
	13998 Feb 23 21:40	0° ℋ			13999 Jan 28 11:19	0° ≈	
morning set	13998 Mar 03 15:14	14° ∺ 15'19		morning max el	13999 Jan 29 14:56	1° ≈ 03'03	19°26'34
	13998 Mar 11 21:15	0° Y		morning set	13999 Feb 15 17:28	28° ≈ 43′20	
					13999 Feb 16 08:46	0° ∀	
superior conj	12000 M 12 15 20	1° Y 24'39	0°21'58				
minimum elong	13998 Mar 12 15:28						
	13998 Mar 12 16:57	1° Y 31'34	0°21'47	superior conj	13999 Feb 23 19:35	14° ¥ 51′04	0°50'42
desc. node	13998 Mar 12 16:57 13998 Mar 15 08:45	1° Υ 31'34 6° Υ 23'33	0°21'47	minimum elong	13999 Feb 23 22:12	15° ∺ 03'47	
max. Earth dist.	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22	1° Υ 31'34 6° Υ 23'33 14° Υ 41'53		minimum elong desc. node	13999 Feb 23 22:12 13999 Mar 02 05:13	15° 米 03'47 26° 米 57'48	0°50'41
	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34	1°Y31'34 6°Y23'33 14°Y41'53 21°Y51'09	0°21'47	minimum elong	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55	15°¥03'47 26°¥57'48 27°¥10'12	
max. Earth dist.	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49	1°Y31'34 6°Y23'33 14°Y41'53 21°Y51'09 0°8	0°21'47	minimum elong desc. node max. Earth dist.	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25	15°¥03'47 26°¥57'48 27°¥10'12 0° °	0°50'41
max. Earth dist. evening rise	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°႘ 0°Ⅱ	0°21'47 1.40311 AU	minimum elong desc. node	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00	15° χ 03'47 26° χ 57'48 27° χ 10'12 0° Υ 3° Υ 48'44	0°50'41
max. Earth dist. evening rise	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°႘ 0°Ⅱ 10°Ⅱ16'52	0°21'47	minimum elong desc. node max. Earth dist. evening rise	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43	15°\03'47 26°\03'48 27°\01'12 0°\03'\48'44 0°\08	0°50'41 1.38047 AU
max. Earth dist. evening rise evening max el retrograde	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01 13998 May 08 18:05	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°Β 0°Π 10°Π16'52 16°Π40'26	0°21'47 1.40311 AU	minimum elong desc. node max. Earth dist.	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43 13999 Apr 10 10:35	15° χ 03'47 26° χ 57'48 27° χ 10'12 0° γ 3° γ 48'44 0° 8 24° 8 10'12	0°50'41 1.38047 AU
max. Earth dist. evening rise evening max el retrograde asc. node	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01 13998 May 08 18:05 13998 May 09 10:17	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°Β 0°Π 10°Π16'52 16°Π40'26 16°Π38'23	0°21'47 1.40311 AU	minimum elong desc. node max. Earth dist. evening rise evening max el	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43 13999 Apr 10 10:35 13999 Apr 18 01:24	15° X 03'47 26° X 57'48 27° X 10'12 0° Υ 3° Υ 48'44 0° ႘ 24° ႘ 10'12 0° Π	0°50'41 1.38047 AU
evening rise evening max el retrograde asc. node evening set	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01 13998 May 08 18:05 13998 May 09 10:17 13998 May 14 00:18	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°႘ 0°Π 10°Π16'52 16°Π40'26 16°Π38'23 14°Π27'07	0°21'47 1.40311 AU 23°42'35	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43 13999 Apr 10 10:35 13999 Apr 18 01:24 13999 Apr 22 08:51	15° ₭03'47 26° ₭57'48 27° ₭10'12 0° ℉ 3° ℉48'44 0° ₭ 24° ₭10'12 0° Ⅲ 1° Ⅲ06'25	0°50'41 1.38047 AU
evening rise evening max el retrograde asc. node evening set inferior conj	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01 13998 May 08 18:05 13998 May 09 10:17 13998 May 14 00:18 13998 May 19 10:09	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°Β 0°Π 10°Π16'52 16°Π40'26 16°Π38'23 14°Π27'07 7°П59'33	0°21'47 1.40311 AU 23°42'35 2°38'00	minimum elong desc. node max. Earth dist. evening rise evening max el	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43 13999 Apr 10 10:35 13999 Apr 18 01:24 13999 Apr 22 08:51 13999 Apr 26 07:38	15° χ03'47 26° χ57'48 27° χ10'12 0° Υ 3° Υ48'44 0° ႘ 24° ႘10'12 0° Π 1° Π06'25 29° ႘59'30	0°50'41 1.38047 AU
evening rise evening max el retrograde asc. node evening set	13998 Mar 12 16:57 13998 Mar 15 08:45 13998 Mar 20 01:22 13998 Mar 24 06:34 13998 Mar 29 06:49 13998 Apr 19 00:06 13998 Apr 27 21:01 13998 May 08 18:05 13998 May 09 10:17 13998 May 14 00:18	1°Υ31'34 6°Υ23'33 14°Υ41'53 21°Υ51'09 0°႘ 0°Π 10°Π16'52 16°Π40'26 16°Π38'23 14°Π27'07	0°21'47 1.40311 AU 23°42'35	minimum elong desc. node max. Earth dist. evening rise evening max el retrograde	13999 Feb 23 22:12 13999 Mar 02 05:13 13999 Mar 02 07:55 13999 Mar 03 21:25 13999 Mar 06 01:00 13999 Mar 22 08:43 13999 Apr 10 10:35 13999 Apr 18 01:24 13999 Apr 22 08:51	15° ₭03'47 26° ₭57'48 27° ₭10'12 0° ℉ 3° ℉48'44 0° ₭ 24° ₭10'12 0° Ⅲ 1° Ⅲ06'25	0°50'41 1.38047 AU

	12000 4 20 02.42	200 42100			14000 4 10 22:25	120 47120	
evening set	13999 Apr 28 02:43	28° 8 42'09		evening set	14000 Apr 10 23:35	12° 8 47'29	
min. Earth dist.	13999 May 02 12:51	23° 8 45'08	0.68151 AU	asc. node	14000 Apr 12 05:03	11° 8 41'04	
inferior conj	13999 May 03 17:19	22° 8 11'36	2°06'26	min. Earth dist.	14000 Apr 15 03:14	8° 8 25'44	0.67073 AU
minimum elong	13999 May 03 15:09	22° 8 18'43	2°05'03	inferior conj	14000 Apr 16 20:19	6° 8 18'48	1°24'04
morning rise	13999 May 09 03:52	16° 8 16'10		minimum elong	14000 Apr 16 18:28	6° 8 24'31	1°22'53
direct	13999 May 12 19:51	14° 8 59'02		morning rise	14000 Apr 22 14:10	0° 8 33'49	
morning max el	13999 May 19 23:19	18° 8 54'46	19°26'38		14000 Apr 23 17:17	30° ŖƳ	
	13999 May 28 21:14	Π°		direct	14000 Apr 25 19:09	29° Ƴ 35'31	
desc. node	13999 May 29 07:11	0° Ⅱ 35'14			14000 Apr 27 22:12	$B_{\circ O}$	
greatest brilliancy	13999 Jun 01 14:51	5° Ⅱ 23'52	-0.7m	morning max el	14000 May 02 09:02	3° 8 06'27	18°36'44
morning set	13999 Jun 14 00:47	24° I 11'19	-0.7111	desc. node	14000 May 02 09:02 14000 May 15 04:00	20° 8 22'43	10 30 44
morning set		0°95		desc. Hode	•	20 3 22 43 0° Ⅱ	
m at the	13999 Jun 17 19:14		1 45105 477		14000 May 21 08:27		
max. Earth dist.	13999 Jun 26 09:09	13° © 22'59	1.45135 AU	morning set	14000 May 23 16:24	3° Ⅱ 39'09	
				max. Earth dist.	14000 Jun 08 03:51	27° Ⅱ 50′27	1.45812 AU
superior conj	13999 Jun 30 07:33	19° © 36'51	-2°11'41				
minimum elong	13999 Jun 30 10:54	19° © 50'10	2°12'37	superior conj	14000 Jun 08 18:11	28° Ⅱ 46′23	-2°10'29
	13999 Jul 06 18:21	$0^{\circ}\Omega$		minimum elong	14000 Jun 08 13:51	28° Ⅱ 29'29	2°11'25
evening rise	13999 Jul 14 11:55	12° Ω 44'12			14000 Jun 09 13:02	0ം ഇ	
asc. node	13999 Jul 23 06:37	27° Ω 12'58		evening rise	14000 Jun 24 08:32	23° © 20'16	
	13999 Jul 25 00:55	0° m)		8	14000 Jun 28 13:04	$0^{\circ}\Omega$	
evening max el	13999 Aug 02 01:17	10° m ₂ 38'58	18°12'33	greatest brilliancy	14000 Jul 02 00:20	5° Ω 29'28	-0.9m
•	13999 Aug 08 09:48	14° Mp 00'30	10 12 33	asc. node	14000 Jul 09 03:24	16° Ω 19'06	0.7111
retrograde	•						10040122
evening set	13999 Aug 11 07:06	13° m 15'40		evening max el	14000 Jul 15 13:45	24° Ω 20'15	18°40'23
inferior conj	13999 Aug 17 07:34	7° Mp 52'06	2°09'38	retrograde	14000 Jul 22 03:21	27° Ω 54'15	
minimum elong	13999 Aug 17 10:02	7° M 45'09	2°08'27	evening set	14000 Jul 25 09:26	26° Ω 53'50	
min. Earth dist.	13999 Aug 19 19:46	5° m 03'05	0.63846 AU	inferior conj	14000 Jul 31 00:37	21° Ω 15′06	2°45'11
morning rise	13999 Aug 23 11:17	1° ™ 34'57		minimum elong	14000 Jul 31 02:37	21° Ω 08′57	2°44'03
desc. node	13999 Aug 25 04:58	0° m 24′15		min. Earth dist.	14000 Aug 01 22:46	18° Ω 53′00	0.65740 AU
	13999 Aug 25 23:17	30° ₽ Ω		morning rise	14000 Aug 05 18:47	14° Ω 51′07	
direct	13999 Aug 30 02:11	29° Ω 01'18		desc. node	14000 Aug 11 02:29	12° Ω 15'30	
	13999 Sep 03 11:58	0° m)		direct	14000 Aug 12 03:46	12°Ω11'25	
morning max el	13999 Sep 12 22:17	7° m) 01'29	27°39'53	morning max el	14000 Aug 25 09:34	20°Ω01'21	26°49'33
morning max er	13999 Sep 30 13:46	0∘ ⊽	21 37 33	morning max cr	14000 Nug 23 07:54 14000 Sep 02 22:56	0° m)	20 47 33
	•				=	-	
morning set	13999 Oct 17 20:49	0°MJ31'44			14000 Sep 22 15:50	0° ⊽	
_	13999 Oct 17 14:26	0° M ₅		morning set	14000 Sep 30 03:29	13° ≙ 37'43	
asc. node	13999 Oct 19 08:42	3°MJ32'11		max. Earth dist.	14000 Oct 04 06:41	21° ≏ 43'08	1.33962 AU
max. Earth dist.	13999 Oct 22 16:31	10°M25'40	1.32494 AU	asc. node	14000 Oct 05 05:18	23° ≏ 37'04	
					14000 Oct 08 07:46	0° M	
superior conj	13999 Oct 25 19:08	17°ML04'33	0°57'45				
minimum elong	13999 Oct 25 16:53	16°M52'22	0°58'05	superior conj	14000 Oct 08 19:56	1° ML 03'34	0°33'28
	13999 Oct 31 17:40	0° ⊼		minimum elong	14000 Oct 08 18:16	0°M54'52	0°33'36
evening rise	13999 Nov 01 16:59	2° ҂ 05'34		evening rise	14000 Oct 16 03:05	16°ML31'43	
8 21	13999 Nov 16 19:48	ರ°0		8	14000 Oct 22 19:31	0° ∡ ¹	
desc. node	13999 Nov 21 01:22	5° る 35'48		evening max el	14000 Nov 05 03:14	19° ∡ ¹28'30	21°29'36
evening max el	13999 Nov 24 13:13	9° る 22'28	23°08'37	desc. node	14000 Nov 06 22:39	21° ×7 07'48	21 27 30
=		9 3 22 28	23 08 37			25° × 30'22	
retrograde	13999 Dec 07 18:59			retrograde	14000 Nov 17 07:00		
evening set	13999 Dec 12 00:08	15°る18'34	0.55006.433	evening set	14000 Nov 20 03:49	25° 🖈 11'33	502011.4
min. Earth dist.	13999 Dec 18 22:48	12° る 04'46	0.55006 AU	inferior conj	14000 Nov 28 23:44	21° х 18'36	
inferior conj	13999 Dec 20 07:35	11° る 17'35		minimum elong	14000 Nov 28 16:46	21° ∡ ¹28'22	
minimum elong	13999 Dec 20 09:27	11° る 14'55	5°55'41	min. Earth dist.	14000 Nov 29 04:46	21° х 11'32	0.54477 AU
morning rise	13999 Dec 28 20:18	7° る 27'37		morning rise	14000 Dec 07 06:27	17° ∡ ¹29'52	
direct	13999 Dec 31 18:10	7° る 07'36		direct	14000 Dec 11 02:07	16° ≯ 758'15	
morning max el	14000 Jan 11 23:27	12° る 29'43	20°44'28	morning max el	14000 Dec 23 18:01	23° ∡ 03'43	22°22'57
asc. node	14000 Jan 15 08:30	16° ප 11'20			14000 Dec 29 18:44	0°ರ	
				asc. node		20-720120	
morning set	14000 Jan 24 06:14	0°≈		asc. node	14001 Jan 01 05:44	3° D 30'38	
morning sec	14000 Jan 24 06:14	0°≈ 13°≈24'08			14001 Jan 01 05:44	3°る30'38 28°る09'28	
	14000 Jan 24 06:14 14000 Jan 31 01:14	0°≈ 13°≈24'08		morning set	14001 Jan 14 12:05	28° ろ 09'28	
superior coni	14000 Jan 31 01:14	13° ≈ 24′08	1012/20				
superior conj	14000 Jan 31 01:14 14000 Feb 07 11:56	13°≈24'08 28°≈50'30	1°12'30	morning set	14001 Jan 14 12:05 14001 Jan 15 08:55	28° ප් 09'28 0°≈	1027124
superior conj minimum elong	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33	13°≈24'08 28°≈50'30 29°≈03'48	1°12'30 1°12'49	morning set superior conj	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52	28°る09'28 0°≈ 13°≈11'28	1°27'26
minimum elong	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35	13°≈24'08 28°≈50'30 29°≈03'48 0°¥	1°12'49	morning set superior conj minimum elong	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48	28°♂09'28 0°≈ 13°≈11'28 13°≈21'43	1°28'06
minimum elong max. Earth dist.	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18		superior conj minimum elong max. Earth dist.	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40	28°₹09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27	
minimum elong max. Earth dist. evening rise	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19 14000 Feb 16 13:44	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24	1°12'49	morning set superior conj minimum elong	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40 14001 Jan 29 17:08	28°₹09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49	1°28'06
minimum elong max. Earth dist.	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24 17° ₩ 27'41	1°12'49	superior conj minimum elong max. Earth dist.	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40	28°♂09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49 0°¥	1°28'06
minimum elong max. Earth dist. evening rise	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19 14000 Feb 16 13:44	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24	1°12'49	superior conj minimum elong max. Earth dist.	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40 14001 Jan 29 17:08	28°₹09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49	1°28'06
minimum elong max. Earth dist. evening rise	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19 14000 Feb 16 13:44 14000 Feb 17 01:44	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24 17° ₩ 27'41	1°12'49	superior conj minimum elong max. Earth dist. evening rise	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40 14001 Jan 29 17:08 14001 Jan 29 18:49	28°♂09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49 0°¥	1°28'06
minimum elong max. Earth dist. evening rise	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19 14000 Feb 16 13:44 14000 Feb 17 01:44 14000 Feb 24 05:16	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24 17° ₩ 27'41 0° Υ	1°12'49	superior conj minimum elong max. Earth dist. evening rise	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40 14001 Jan 29 17:08 14001 Jan 29 18:49 14001 Feb 02 22:19	28°⋜09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49 0° ₩ 7° ₩48'17	1°28'06 1.34021 AU
minimum elong max. Earth dist. evening rise desc. node	14000 Jan 31 01:14 14000 Feb 07 11:56 14000 Feb 07 14:33 14000 Feb 08 01:35 14000 Feb 12 16:19 14000 Feb 16 13:44 14000 Feb 17 01:44 14000 Feb 24 05:16 14000 Mar 15 19:00	13°≈24'08 28°≈50'30 29°≈03'48 0° ₩ 9° ₩ 10'18 16° ₩ 32'24 17° ₩ 27'41 0° Ψ' 0° ₩	1°12'49 1.35885 AU	superior conj minimum elong max. Earth dist. evening rise desc. node	14001 Jan 14 12:05 14001 Jan 15 08:55 14001 Jan 21 12:52 14001 Jan 21 14:48 14001 Jan 25 06:40 14001 Jan 29 17:08 14001 Jan 29 18:49 14001 Feb 02 22:19 14001 Feb 16 07:44	28°♂09'28 0°≈ 13°≈11'28 13°≈21'43 21°≈00'27 29°≈51'49 0°₩ 7°₩48'17 0°Υ	1°28'06 1.34021 AU

evening set	14001 Mar 25 12:56	26° Ƴ 35'43		desc. node	14002 Jan 20 18:58	27° ≈ 54'46	
min. Earth dist.	14001 Mar 29 11:28	22° Y ′47'14	0.65586 AU		14002 Jan 21 23:04	0° ∀	
asc. node	14001 Mar 30 02:31	22° Y ′04'57			14002 Feb 11 09:37	0° Υ	
inferior conj	14001 Mar 31 16:50	20° Y 15′15	0°30'14	evening max el	14002 Feb 16 02:23	4° Y ′57'48	27°31'08
minimum elong	14001 Mar 31 16:01	20° ℃ 17'34	0°29'39	retrograde	14002 Mar 01 20:39	12° Y 25'19	
morning rise direct	14001 Apr 06 20:39	14° Y 42'25 14° Y 00'10		evening set min. Earth dist.	14002 Mar 08 16:27	9° Y 59'09 6° Y 40'38	0.63753 AU
morning max el	14001 Apr 09 15:47 14001 Apr 16 00:00	14 γ 00 10 17° γ 18'59	18°03'33	inferior conj	14002 Mar 12 11:34 14002 Mar 15 04:10	3° Υ 54'26	
morning max ci	14001 Apr 25 11:37	0°8	10 03 33	minimum elong	14002 Mar 15 05:17	3° Υ 51'33	0°34'58
desc. node	14001 May 02 00:42	10° 8 29'22		asc. node	14002 Mar 17 00:01	2° Υ '04'26	0 3 1 3 0
morning set	14001 May 04 10:48	14° 8 25'41			14002 Mar 19 10:02	30° ₹	
	14001 May 14 02:37	Π $^{\circ}$ 0		morning rise	14002 Mar 21 20:25	28°) 36′11	
				direct	14002 Mar 24 07:10	28° ∺ 06'30	
superior conj	14001 May 19 04:11	8° Ⅱ 01'06	-1°49'36		14002 Mar 29 02:45	0° Y	
minimum elong	14001 May 18 19:15	7° Ⅱ 25'56		morning max el	14002 Mar 30 17:33	1° Y 24'31	17°47'37
max. Earth dist.	14001 May 21 23:42		1.45742 AU	morning set	14002 Apr 16 08:27	26° Y 30′51	
	14001 Jun 02 07:15	0.22 0.22		1 1	14002 Apr 18 09:37	0°8	
evening rise	14001 Jun 04 06:43	3°503'12	0.7	desc. node	14002 Apr 18 21:18	0° 8 49'37	
greatest brilliancy	14001 Jun 17 02:55 14001 Jun 22 05:49	22° © 38'04 0° Ω	-0.7m	superior conj	14002 Apr 29 05:46	18° 8 02'13	1014'50
asc. node	14001 Jun 26 00:17	4°Ω54'24		minimum elong	14002 Apr 29 03:40 14002 Apr 28 22:20	17° 8 32'01	
evening max el	14001 Jun 28 21:56	8° Ω 07'58	19°25'04	max. Earth dist.	14002 May 04 18:38	_	1.44948 AU
retrograde	14001 Jul 06 00:48	12° Ω 06'47	1, 200.	man. Darm dige.	14002 May 06 17:30	0°II	1.1.5.10110
evening set	14001 Jul 09 16:14	10° Ω 49'38		evening rise	14002 May 14 17:54	12° Ⅲ 26′04	
inferior conj	14001 Jul 15 01:31	4° Ω 57'17	3°05'00		14002 May 26 10:07	0 \circ \odot	
minimum elong	14001 Jul 15 02:37	4° Ω 53'40	3°03'58	evening max el	14002 Jun 12 00:27	21°957'34	20°24'47
min. Earth dist.	14001 Jul 16 09:16	3° Ω 12'49	0.67237 AU	asc. node	14002 Jun 12 21:15	22° © 47'56	
	14001 Jul 19 01:02	30°ષ્દ્		retrograde	14002 Jun 19 23:37	26° © 31'48	
morning rise	14001 Jul 20 12:26	28°532'39		evening set	14002 Jun 24 01:09	24°957'30	
direct	14001 Jul 26 12:09	25°956'06		inferior conj	14002 Jun 29 07:30	18°952'48	3°11'38
desc. node	14001 Jul 28 23:55 14001 Aug 04 06:00	26° © 19'21 0° Ω		minimum elong min. Earth dist.	14002 Jun 29 07:35 14002 Jun 30 01:14	18° © 52'32 17° © 52'01	3°10'36 0.68288 AU
morning max el	14001 Aug 04 00:00 14001 Aug 07 20:31	3° Ω 19'54	25°36'31	morning rise	14002 Jul	17 \$32 01 12°\$31'24	0.06266 AU
morning max ci	14001 Aug 28 04:34	0° m)	25 5051	direct	14002 Jul 10 01:56	10°905'54	
morning set	14001 Sep 12 19:48	26° m 03'59		desc. node	14002 Jul 15 21:16	12°5611'48	
S	14001 Sep 14 23:09	0∘ <u>⊽</u>		morning max el	14002 Jul 21 06:44	16°9548'11	24°10'27
max. Earth dist.	14001 Sep 16 10:55	2° ≏ 47'45	1.35907 AU	_	14002 Aug 01 05:41	$0^{\circ}\Omega$	
asc. node	14001 Sep 22 01:52	13° ≏ 44'38			14002 Aug 21 04:27	0° m	
				morning set	14002 Aug 25 17:12	7° m 38'29	
superior conj	14001 Sep 22 12:15	14° ≏ 36'41	0°04'03	max. Earth dist.	14002 Aug 29 09:18	14° Mp 04'42	1.38185 AU
minimum elong	14001 Sep 22 12:00	14° £ 35'25	0°04'09		140000 05 16 00	0.50 m 0.410.5	0000100
behind sun begin behind sun end	14001 Sep 22 05:56	14° Ω 05'03		superior conj	14002 Sep 05 16:33 14002 Sep 05 18:36	27° Mp 34'25	
evening rise	14001 Sep 22 18:03 14001 Sep 30 10:04	15° £ 05'52 0° ™ 48'00		minimum elong	14002 Sep 05 18:36 14002 Sep 06 22:53	27° ™ 44'12 0° ≏	0-2917
evening rise	14001 Sep 30 10:04	0°M		asc. node	14002 Sep 08 22:23	ა 3° ჲ 50'38	
evening max el	14001 Oct 18 05:52	0° ∡ 12'03	20°06'27	evening rise	14002 Sep 14 11:21	14° ≏ 46'54	
	14001 Oct 18 01:04	0° ∡ 7		0.118	14002 Sep 22 12:52	0° M	
desc. node	14001 Oct 24 20:01	4° ∡ °43'46		evening max el	14002 Sep 30 22:36	11°ML43'55	19°04'38
retrograde	14001 Oct 28 19:31	5° ∡ "27'40		retrograde	14002 Oct 09 21:15	16°ML13'09	
evening set	14001 Oct 30 20:43	5° ∡ 16'42		evening set	14002 Oct 11 18:02	16°ML02'15	
inferior conj	14001 Nov 08 18:18	1° ∡ 18'52		desc. node	14002 Oct 11 17:28	16°ML02'31	
minimum elong	14001 Nov 08 08:15	1° ∡ ′33'56	4°21'08	inferior conj	14002 Oct 20 04:11	11°ML48'08	
min. Earth dist.	14001 Nov 10 12:20	0° ₹ 15'56	0.54898 AU	minimum elong	14002 Oct 19 21:25	11°M59'44	2°36'39
marning rica	14001 Nov 10 23:09	30° ዪጤ 27° ጤ 11'37		min. Earth dist.	14002 Oct 22 23:46	9°ጤ52'51 7°ጤ07'22	0.56186 AU
morning rise direct	14001 Nov 16 18:45 14001 Nov 21 13:18	26°M22'04		morning rise direct	14002 Oct 27 22:03 14002 Nov 02 12:17	5°M54'33	
direct	14001 Nov 21 13:10	0° √		morning max el	14002 Nov 16 15:00	13°ML06'51	25°54'07
morning max el	14001 Dec 05 04:13	3° ∡ ¹04'58	24°11'52		14002 Nov 29 20:06	0° ⊼	
asc. node	14001 Dec 19 02:52	21° х 41'59	-	asc. node	14002 Dec 05 23:51	10° ∡ ³31'51	
	14001 Dec 23 16:36	ರ∘ರ		morning set	14002 Dec 14 11:16	27° ∡ ³32'37	
morning set	14001 Dec 30 00:01	12° る 54'01			14002 Dec 15 14:31	ე∘ჳ	
superior conj	14002 Jan 05 19:32	27° る 45'58	1°35'49	superior conj	14002 Dec 21 05:37	12° ろ 26'58	1°38'01
minimum elong	14002 Jan 05 20:28	27°る51'02	1°36'45	minimum elong	14002 Dec 21 05:28	12°る26'05	1°39'03
n a v	14002 Jan 06 20:10	0°≈ 2°5(!2(1 22505 433	max. Earth dist.	14002 Dec 22 09:34	15°る01'52	1.31633 AU
max. Earth dist. evening rise	14002 Jan 08 04:52 14002 Jan 13 07:52	2°≈56'26 13°≈38'44	1.32587 AU	evening rise	14002 Dec 28 06:59	27°る45'21 0°≈	
		11 223744			14002 Dec 29 08:59	∪ ≈	

desc. node	14003 Jan 07 15:44	17° ≈ 40'53		desc. node	14003 Dec 25 12:34	6° ≈ 58'11	
	14003 Jan 15 05:51	0°) €		evening max el	14004 Jan 11 15:14	29° ≈ 37'08	26°52'11
evening max el	14003 Jan 29 11:52	17°) (41'13	27°28'55	C	14004 Jan 12 01:00	0° ∀	
retrograde	14003 Feb 12 10:12	25°) €01'51		retrograde	14004 Jan 25 14:26	6°) 48′28	
evening set	14003 Feb 19 07:22	22°) 49′00		evening set	14004 Feb 01 06:12	4° ¥ 56'28	
min. Earth dist.	14003 Feb 23 01:45	19°) 55'01	0.61667 AU	min. Earth dist.	14004 Feb 05 05:15	2°) 17′36	0.59474 AU
inferior conj	14003 Feb 26 03:05	17° ₩ 08'01	-1°52'14	inferior conj	14004 Feb 08 09:54	29° ≈ 45'24	-3°16'28
minimum elong	14003 Feb 26 07:02	16° ¥ 58'59	1°50'18	minimum elong	14004 Feb 08 17:02	29° ≈ 31'10	3°13'17
asc. node	14003 Mar 03 21:29	12°) 44'32		-	14004 Feb 08 02:36	30° Ŗ ≈	
morning rise	14003 Mar 05 09:38	12°) €07'24		morning rise	14004 Feb 16 07:04	25°≈05'32	
direct	14003 Mar 07 13:57	11° ¥ 46'40		direct	14004 Feb 18 07:48	24° ≈ 50'14	
morning max el	14003 Mar 14 10:34	15° ¥ 14'28	17°49'36	asc. node	14004 Feb 18 18:57	24° ≈ 51'04	
C	14003 Mar 24 17:10	0° Υ		morning max el	14004 Feb 25 23:30	28° ≈ 38'12	18°10'36
morning set	14003 Mar 30 03:49	9° Ƴ 37'31		Č	14004 Feb 27 06:34	0°)	
desc. node	14003 Apr 05 17:51	21° Y ′19'05		morning set	14004 Mar 12 14:45	23°) 26'11	
	r			. 8	14004 Mar 16 02:45	0° Υ	
superior conj	14003 Apr 10 06:55	29° Y '09'56	-0°35'26				
minimum elong	14003 Apr 10 03:35	28° Y 55'46		superior conj	14004 Mar 22 07:09	11° Y 20'56	0°02'26
	14003 Apr 10 18:42	0°8		minimum elong	14004 Mar 22 07:20	11° Y 21'44	0°02'18
max. Earth dist.	14003 Apr 17 10:47	11° 8 04'10	1.43505 AU	behind sun begin	14004 Mar 21 23:49	10° Y 47'55	
evening rise	14003 Apr 24 10:26	22° 8 10'51	1.15000110	behind sun end	14004 Mar 22 14:51	11° Y ′55'28	
o ronning rise	14003 Apr 29 12:25	0°II		desc. node	14004 Mar 22 14:20	11° Y ′53'09	
	14003 May 20 18:12	0ಂ ತಾ		max. Earth dist.	14004 Mar 29 22:06	24° Y 36'43	1.41565 AU
evening max el	14003 May 25 21:15	5° 9 47'53	21°36'27	max. Lartii dist.	14004 Apr 02 03:54	0° 8	1.41303 AC
asc. node	14003 May 20 18:20	9° 9 46'39	21 3027	evening rise	14004 Apr 03 19:53	2° 8 42'52	
retrograde	14003 Jun 03 22:02	11° © 04'40		evening rise	14004 Apr 03 17:33	2°П	
evening set	14003 Jun 08 10:21	9°9513'46		evening max el	14004 Apr 21 20:43 14004 May 07 13:29	19° ∏ 38'30	22°55'42
•		2°958'09	3°06'48	asc. node		19 П 3830 25° П 33'40	22 33 42
inferior conj	14003 Jun 13 16:21 14003 Jun 13 15:29	2 \$38.09 3°\$01'12	3°05'41		14004 May 16 15:32	25° I 39'24	
minimum elong				retrograde	14004 May 17 18:33	23° II 39'24	
min. Earth dist.	14003 Jun 13 20:38	2° © 43'13 30°R Ⅱ	0.68865 AU	evening set	14004 May 22 18:10	23°Щ33°23 17°Щ39'08	0.68956 AU
	14003 Jun 15 20:42	•		min. Earth dist.	14004 May 27 17:24		
morning rise	14003 Jun 18 20:25	26° ∏ 42'16		inferior conj	14004 May 28 02:02	17° Ⅱ 09'09	2°51'28
direct	14003 Jun 23 20:05	24° ∏ 33'24		minimum elong	14004 May 28 00:24	17° Ⅱ 14'49	2°50'12
desc. node	14003 Jul 02 18:29	29° Ⅱ 27'11		morning rise	14004 Jun 02 06:34	11° I I00'10	
	14003 Jul 03 08:05	0.22 0.22	220 4015 4	direct	14004 Jun 06 17:27	9° Ⅱ 11'00	21017111
morning max el	14003 Jul 03 18:10	0° © 25'03	22°40'54	morning max el	14004 Jun 15 09:44	14° Ⅱ 11'32	21°16'11
	14003 Jul 26 01:13	0°N		desc. node	14004 Jun 18 15:35	17° ∏ 43'21	
morning set	14003 Aug 06 15:29	18°Ω11'43	1 40540 477		14004 Jun 28 00:45	0°©	
max. Earth dist.	14003 Aug 11 08:41	26° Ω 03'25	1.40548 AU	morning set	14004 Jul 16 13:10	27°5541'28	
	14003 Aug 13 15:54	0° m		To all the	14004 Jul 18 00:19	0°N	1 42700 ATT
	14002 4 10 04 46	00 7 47 07	1004154	max. Earth dist.	14004 Jul 23 13:18	8° Ω 54'21	1.42708 AU
superior conj	14003 Aug 19 04:46	9° Mp 47'27			14004 1 1 20 20 20	210 00000	1020117
minimum elong	14003 Aug 19 09:41	10° Mp 09'42	1°04'36	superior conj	14004 Jul 30 20:29	21°Ω06'09	
asc. node	14003 Aug 26 18:55	23° Tp 51'41		minimum elong	14004 Jul 31 03:39	21° Ω 36'46	1°38'13
evening rise	14003 Aug 29 03:48	28° Tp 20'46			14004 Aug 04 23:24	0° m	
	14003 Aug 30 00:48	0∘ ⊽		evening rise	14004 Aug 11 07:23	11° m)19'19	
evening max el	14003 Sep 14 02:33	24° Ω 00'31	18°24'36	asc. node	14004 Aug 12 15:31	13° m 44'00	
retrograde	14003 Sep 21 18:19	27° Ω 53'17			14004 Aug 22 04:14	0∘ ⊽	
evening set	14003 Sep 23 19:05	27° Ω 37'38		evening max el	14004 Aug 27 13:37	6° £ 52'54	18°05'02
desc. node	14003 Sep 28 14:58	25° Ω 13'11	005450	retrograde	14004 Sep 03 09:12	10° £ 22'34	
inferior conj	14003 Oct 01 11:29	23° Ω 02'40		evening set	14004 Sep 05 17:12	9° Ω 58'12	000
minimum elong	14003 Oct 01 09:24	23° Ω 06'51		inferior conj	14004 Sep 12 15:46	5° Ω 02'57	
min. Earth dist.	14003 Oct 04 17:48	20° ≏ 26'31	0.58099 AU	minimum elong	14004 Sep 12 16:50	5° ≏ 00'27	0°33'46
morning rise	14003 Oct 08 20:16	17° ≏ 44'27		desc. node	14004 Sep 14 12:28	3° ≙ 18'15	
direct	14003 Oct 15 01:10	16° ≏ 04'51		min. Earth dist.	14004 Sep 15 20:41	2° ≏ 04'58	0.60336 AU
morning max el	14003 Oct 29 08:37	23° ≏ 40'42	27°11'39		14004 Sep 18 10:09	30°₽, ኪ	
	14003 Nov 04 01:59	0° M		morning rise	14004 Sep 19 13:20	29° m 13'45	
asc. node	14003 Nov 22 20:44	29°M50'11		direct	14004 Sep 26 03:04	27° mg 07'51	
	14003 Nov 22 22:46	0° ∡ ″			14004 Oct 04 08:44	0∘ ত	
morning set	14003 Nov 28 20:07	12° 尽 00'51		morning max el	14004 Oct 10 10:03	5° ഫ 00'59	27°52'56
					14004 Oct 29 00:58	0° M	
superior conj	14003 Dec 05 17:08	27° ∡ °08'47		asc. node	14004 Nov 08 17:31	19°M29'04	
minimum elong	14003 Dec 05 15:59	27° ∡ °02′18	1°35'12	morning set	14004 Nov 12 00:43	26°M13′54	
max. Earth dist.	14003 Dec 05 17:39	27° ∡ 11'38	1.31186 AU		14004 Nov 13 19:25	0° ∡	
	14003 Dec 06 23:46	0°ප		max. Earth dist.	14004 Nov 18 01:18	9° ∡ 16'24	1.31262 AU
evening rise	14003 Dec 12 12:02	12° る 05'29					
	14003 Dec 21 12:35	0° ≈		superior conj	14004 Nov 19 04:15	11° ∡ ⁴46′12	1°24'37

minimum elong	14004 Nov 19 02:20	11° ∡ ³35'33	1°25'23		14005 Nov 05 06:20	0° ∡ ¹	
evening rise	14004 Nov 25 20:55	26° 🗷 33'53	1 23 23	evening rise	14005 Nov 10 07:43	11° х 04'49	
evening rise	14004 Nov 27 11:31	0°중		evening rise	14005 Nov 19 19:22	0°ਰ	
desc. node	14004 Dec 11 09:32	25° ට 35'46		desc. node	14005 Nov 28 06:38	13° る 17'44	
	14004 Dec 14 09:30	0° ≈		evening max el	14005 Dec 04 22:09	20°る58'01	24°07'49
evening max el	14004 Dec 23 10:23	10° ≈ 40'19	25°42'12	retrograde	14005 Dec 18 12:58	27° る 44'38	
retrograde	14005 Jan 06 08:06	17° ≈ 41'22		evening set	14005 Dec 23 12:20	26° る 50'35	
evening set	14005 Jan 12 09:02	16° ≈ 16'55		min. Earth dist.	14005 Dec 29 09:36	23° る 55'05	0.55688 AU
min. Earth dist.	14005 Jan 16 23:03	13° ≈ 38'43	0.57388 AU	inferior conj	14005 Dec 31 11:49	22° る 38'50	-5°40'20
inferior conj	14005 Jan 19 21:18	11° ≈ 37'40	-4°38'35	minimum elong	14005 Dec 31 18:01	22° る 29'25	5°38'29
minimum elong	14005 Jan 20 06:14	11° ≈ 22′13	4°35'19	morning rise	14006 Jan 09 01:34	18° る 40'28	
morning rise	14005 Jan 28 06:15	7° ≈ 19'52		direct	14006 Jan 11 13:26	18° る 24'25	
direct	14005 Jan 30 08:24	7° ≈ 06'24		morning max el	14006 Jan 21 21:13	23° る 22'32	19°56'52
asc. node	14005 Feb 04 16:21	8° ≈ 40′03		asc. node	14006 Jan 22 13:43	24° る 03'33	
morning max el	14005 Feb 08 04:27	11° ≈ 25′02	18°52'21		14006 Jan 27 09:08	0° ≈	
	14005 Feb 20 12:29	0° ∀		morning set	14006 Feb 08 17:25	22°≈16'53	
morning set	14005 Feb 24 12:29	7°) 42′56			14006 Feb 12 12:10	0° ∀	
						001/07/06	
superior conj	14005 Mar 05 02:28	24° H 23'42	0°34'57	superior conj	14006 Feb 16 12:16	8°¥05'06	1°00'47
minimum elong	14005 Mar 05 04:36	24°) 33′48	0°34'49	minimum elong	14006 Feb 16 14:59	8°) €18'37	1°00'53
1 1	14005 Mar 08 02:25	0° Υ 2° Υ 28'27		max. Earth dist.	14006 Feb 22 11:25	19°) ₹37'35	1.37102 AU
desc. node	14005 Mar 09 10:50	2° γ 28'27 7° γ 25'11	1 20250 AII	desc. node	14006 Feb 24 07:21	23°) €01'12 26°) €28'46	
max. Earth dist.	14005 Mar 12 05:00	14° Υ 10'25	1.39350 AU	evening rise	14006 Feb 26 05:08 14006 Feb 28 04:50	26° π 28'46 0° Υ	
evening rise	14005 Mar 16 02:30 14005 Mar 25 20:52	0°8			14006 Feb 28 04.30 14006 Mar 19 08:36	0°8	
	14005 Mai 25 20:52 14005 Apr 16 19:57	0°II		evening max el	14006 Apr 02 16:58	17° 8 23'50	25°32'23
evening max el	14005 Apr 10 19:37 14005 Apr 20 03:23	3° Ⅱ 30'46	24°16'40	retrograde	14006 Apr 02 10:58 14006 Apr 15 00:51	24° 8 30'57	23 32 23
retrograde	14005 Apr 20 03:23	10° Ⅱ 10'11	24 10 40	asc. node	14006 Apr 13 00:31	22° 8 29'56	
asc. node	14005 May 03 12:50	9° Ⅱ 51'49		evening set	14006 Apr 20 23:21	22° 8 03'29	
evening set	14005 May 06 23:03	7° Ⅱ 51'44		min. Earth dist.	14006 Apr 25 06:38	17° 8 21'20	0.67742 AU
min. Earth dist.	14005 May 11 13:27	2° I 33'45	0.68575 AU	inferior conj	14006 Apr 26 16:24	15° 8 32'55	1°49'51
inferior conj	14005 May 12 10:42	1° I I22'03	2°25'54	minimum elong	14006 Apr 26 14:18	15° 8 39'41	1°48'30
minimum elong	14005 May 12 08:36	1° Ⅱ 29'06	2°24'31	morning rise	14006 May 02 05:42	9° 8 41'27	1 .030
	14005 May 13 11:13	30°R ∀		direct	14006 May 05 16:51	8° 8 32'33	
morning rise	14005 May 17 18:17	25° 8 21'09		morning max el	14006 May 12 13:37	12° 8 16'23	19°03'18
direct	14005 May 21 16:53	23° 8 52'33		desc. node	14006 May 23 09:27	26° 8 17'00	
morning max el	14005 May 29 07:55	28° 8 08'58	20°02'25	greatest brilliancy	14006 May 25 16:27	29° 8 41'35	-0.7m
-	14005 May 31 02:14	$\Pi^{\circ}0$			14006 May 25 21:21	Π°	
desc. node	14005 Jun 05 12:35	6° Ⅱ 43'55		morning set	14006 Jun 04 22:42	15° Ⅲ 24′01	
	14005 Jun 21 11:48	0ංම			14006 Jun 14 08:33	0 \circ \odot	
morning set	14005 Jun 25 17:16	6° 5 27'49		max. Earth dist.	14006 Jun 18 17:03	6°5548'06	1.45514 AU
max. Earth dist.	14005 Jul 06 00:20	22°533'04	1.44423 AU				
	14005 Jul 10 15:41	$0^{\circ}\Omega$		superior conj	14006 Jun 21 07:24	10° © 53'01	-2°13'41
				minimum elong	14006 Jun 21 07:38	10° © 53'54	2°14'45
superior conj	14005 Jul 11 12:41	1° Ω 25'17	-2°03'36		14006 Jul 03 06:39	0 $^{\circ}$ Ω	
minimum elong	14005 Jul 11 18:56	1° Ω 50'42	2°04'11	evening rise	14006 Jul 06 04:02	4° Ω 41'54	
evening rise	14005 Jul 24 17:06	23° Ω 29'58		asc. node	14006 Jul 17 08:54	22° Ω 43′18	
	14005 Jul 28 12:17	0° m)			14006 Jul 22 11:00	0° m)	10000110
asc. node	14005 Jul 30 12:10	3° m/22'55	1000 40 5	evening max el	14006 Jul 25 17:56	3° m 47'09	18°22'19
evening max el	14005 Aug 11 03:52	20° m 11'14	18°04'35	retrograde	14006 Aug 01 03:26	7° Mp 12'02	
retrograde	14005 Aug 17 13:38	23° Th 31'39		evening set	14006 Aug 04 04:29	6° M) 20'43	2026146
evening set	14005 Aug 20 05:58	22° Mp 55'06	1940149	inferior conj	14006 Aug 10 00:35	0° Mp 50'44	2°26'46
inferior conj	14005 Aug 26 13:29	17° Mp 41'31 17° Mp 35'17	1°40'48 1°39'43	minimum elong	14006 Aug 10 02:56	0° ™ 43'50 30°R Ω	2-25-36
minimum elong min. Earth dist.	14005 Aug 26 15:50 14005 Aug 29 09:08	17 my 33 17 14° my 43'24	0.62616 AU	min. Earth dist.	14006 Aug 10 17:47 14006 Aug 12 07:00	30 κδι 28° Ω 11'30	0.64701 AU
desc. node	14005 Aug 29 09:08 14005 Sep 01 10:02	14 my 43 24 11° my 57'15	0.02010 AU	morning rise	14006 Aug 12 07:00 14006 Aug 16 00:01	24°Ω30'01	0.04701 AU
morning rise	14005 Sep 01 10.02 14005 Sep 01 23:27	11° Mp 31'48		desc. node	14006 Aug 10 00:01 14006 Aug 19 07:33	$24^{\circ} \Omega 29'50$	
direct	14005 Sep 01 25:27 14005 Sep 08 15:45	9° Mp 05'27		direct	14006 Aug 19 07:33	21° Ω 52'26	
morning max el	14005 Sep 08 13.45	17° Mp 06'30	27°55'00	morning max el	14006 Aug 22 13:00 14006 Sep 05 03:36	29° Ω 49'36	27°21'44
morning max or	14005 Oct 03 10:36	0ം ⊽	2, 22 00	og max or	14006 Sep 05 07:43	0°m)	-, -1 If
	14005 Oct 05 10:30	0° ™			14006 Sep 03 07:43	0∘ ত الم	
morning set		10°ML05'27		morning set	14006 Oct 10 12:04	ა _ 23° ჲ 29'59	
asc. node	14000 OCL Zn 7/207	110-00 -/			500 10 12.07		
	14005 Oct 26 22:52 14005 Oct 26 14:14	9°ML21'36		asc. node	14006 Oct 13 10:53	29° ≏ 23'18	
max. Earth dist.	14005 Oct 26 22:32 14005 Oct 26 14:14 14005 Nov 01 04:37	9°ጤ21'36 21°ጤ05'46	1.31883 AU	asc. node	14006 Oct 13 10:53 14006 Oct 13 18:06	29° £ 23'18 0° ™	
	14005 Oct 26 14:14		1.31883 AU	asc. node max. Earth dist.			1.33058 AU
	14005 Oct 26 14:14		1.31883 AU 1°09'13		14006 Oct 13 18:06	0° M ₊	1.33058 AU
max. Earth dist.	14005 Oct 26 14:14 14005 Nov 01 04:37	21°ML05'46			14006 Oct 13 18:06	0° M ₊	1.33058 AU 0°48'08

13°**-**45′25

19°**£**29'43

14007 Sep 27 10:12

14007 Sep 30 07:29

max. Earth dist.

asc. node

1.34746 AU

morning set

14008 Aug 24 22:25

14008 Sep 04 21:52

18° **m** 25'15

max. Earth dist.	14008 Sep 08 11:33	24° m 52'58	1.36853 AU	morning set	14009 Aug 17 10:01	29° Ω 35'53	
	14008 Sep 11 05:12	0∘ ত			14009 Aug 17 15:44	0° m)	
				max. Earth dist.	14009 Aug 21 09:17	6° Mg 24′06	1.39193 AU
superior conj	14008 Sep 15 02:37	7° ء 31'27	-0°09'49		-		
minimum elong	14008 Sep 15 03:15	7° ≏ 34'31	0°09'41	superior conj	14009 Aug 29 00:39	20° m 11'53	-0°44'29
behind sun begin	14008 Sep 14 21:59	7° Ω 08'41	0 0 0 11	minimum elong	14009 Aug 29 03:54	20° m) 27'01	0°44'12
behind sun end	14008 Sep 14 21:39	8° ೨ 00'25		asc. node	14009 Sep 03 00:34	29° Mp 41'41	0 44 12
	-			asc. node	•		
asc. node	14008 Sep 16 04:02	9° Ω 36'58			14009 Sep 03 04:22	0° ™	
evening rise	14008 Sep 23 08:35	24° ≙ 06'48		evening rise	14009 Sep 07 06:35	7° ≙ 56'43	
	14008 Sep 26 07:13	0° M			14009 Sep 19 21:08	0° M	
evening max el	14008 Oct 10 11:55	22° ™ 19'05	19°37'21	evening max el	14009 Sep 23 10:00	4° ጤ 11'51	18°45'01
desc. node	14008 Oct 18 22:33	27° M 08'54		retrograde	14009 Oct 01 18:25	8°M24'02	
retrograde	14008 Oct 20 08:42	27°M14'50		evening set	14009 Oct 03 16:05	8° M 11'44	
evening set	14008 Oct 22 06:18	27°M04'41		desc. node	14009 Oct 05 20:01	7°M30'02	
inferior conj	14008 Oct 31 00:16	23°ML00'40	-3°42'08	inferior conj	14009 Oct 11 19:05	3°M49'20	-1°53'46
minimum elong	14008 Oct 30 15:07	23°M15'07	3°38'15	minimum elong	14009 Oct 11 14:23	3°M57'56	1°51'24
min. Earth dist.	14008 Nov 02 06:47	21°M34'39	0.55346 AU	min. Earth dist.	14009 Oct 14 21:09	1°MJ34'23	0.56938 AU
	14008 Nov 07 22:04	18° M .40'11	0.55540710	iiiii. Lartii dist.	14009 Oct 17 06:40	30°R <u>Ω</u>	0.50750710
morning rise						•	
direct	14008 Nov 13 01:11	17°M41'36		morning rise	14009 Oct 19 09:22	28° ♀ 52'05	
morning max el	14008 Nov 26 22:46	24°M38'11	24°57'31	direct	14009 Oct 25 06:31	27° ≏ 27'49	
	14008 Dec 01 21:24	0° ∡			14009 Nov 02 08:25	0° M	
asc. node	14008 Dec 13 05:13	16° ∡ 757'34		morning max el	14009 Nov 08 12:08	4° M 51'47	26°30'55
	14008 Dec 20 00:18	0°る			14009 Nov 26 18:55	0° ∡ 7	
morning set	14008 Dec 23 02:06	6° る 28'32		asc. node	14009 Nov 30 02:10	6° ₮ 00'54	
				morning set	14009 Dec 07 12:32	21° ∡ °03′28	
superior conj	14008 Dec 29 20:37	21° る 19'46	1°37'29		14009 Dec 11 14:34	0°ರ	
minimum elong	14008 Dec 29 21:05	21° පි 22'21	1°38'30				
max. Earth dist.	14008 Dec 31 17:14	25° る 24'14	1.32112 AU	superior conj	14009 Dec 14 07:34	6° ප 02'14	1°37'07
max. Earth dist.	14009 Jan 02 20:19	0°≈	1.32112710	minimum elong	14009 Dec 14 06:57		1°38'10
		0 ~ 6° ≈ 56'11		Č		7°る31'29	1.31377 AU
evening rise	14009 Jan 06 03:42			max. Earth dist.	14009 Dec 14 23:34		1.313// AU
desc. node	14009 Jan 14 21:11	23°≈41'26		evening rise	14009 Dec 21 05:37	21°る09'29	
	14009 Jan 18 12:54	0° ∀			14009 Dec 25 13:27	0° ≈	
evening max el	14009 Feb 08 07:32	27°) 46′56	27°34'12	desc. node	14010 Jan 01 17:58	13° ≈ 16′24	
	14009 Feb 10 19:01	0° Y			14010 Jan 12 17:17	0° ∀	
retrograde	14009 Feb 22 04:02	5° Y 12'50		evening max el	14010 Jan 21 14:38	10° ∺ 10'59	27°17'35
evening set	14009 Mar 01 01:12	2° Y 50'58		retrograde	14010 Feb 04 14:06	17° ∺ 28'35	
	14009 Mar 04 12:35	30°₽ 升		evening set	14010 Feb 11 09:43	15° ¥ 23'45	
min. Earth dist.	14009 Mar 04 19:23	29°) 44′03	0.62886 AU	min. Earth dist.	14010 Feb 15 05:11	12° ¥ 37′24	0.60731 AU
inferior conj	14009 Mar 07 16:18	26° ¥ 55′23	-1°06'48	inferior conj	14010 Feb 18 08:47	9° ∺ 54'30	-2°27'30
minimum elong	14009 Mar 07 18:32	26°) (49'56		minimum elong	14010 Feb 18 14:06	9°) 42′59	
asc. node	14009 Mar 11 02:34	23°) 48'28	1 03 13	morning rise	14010 Feb 25 21:41	5° ¥ 02'26	2 2130
morning rise	14009 Mar 14 14:31	21°) 44'37		asc. node	14010 Feb 26 00:03	5° ∺ 00'49	
-						4° ¥ 44'34	
direct	14009 Mar 16 22:12	21°) (19'17	17046110	direct	14010 Feb 27 23:51		17056106
morning max el	14009 Mar 23 11:59	24°) (40′07	17°46'18	morning max el	14010 Mar 07 03:43	8°) € 20'04	17°56'06
	14009 Mar 27 21:37	0° Υ			14010 Mar 21 05:30	0° Υ	
morning set	14009 Apr 08 15:07	19° Y 19′03		morning set	14010 Mar 22 17:43	2° Y 45'05	
desc. node	14009 Apr 12 23:27	26° Y 51′10		desc. node	14010 Mar 30 19:57	17° Ƴ 22'44	
	14009 Apr 14 19:30	$0^{\circ}S$					
				superior conj	14010 Apr 02 05:03	21° Y 33'21	-0°18'54
superior conj	14009 Apr 20 17:49	9° 8 58'14	-0°58'21	minimum elong	14010 Apr 02 03:22	21° Y ′26'05	0°18'54
minimum elong	14009 Apr 20 12:03	9° 8 34'23	0°58'08		14010 Apr 07 03:36	9° 8	
max. Earth dist.	14009 Apr 27 02:52	20° 8 20'19	1.44400 AU	max. Earth dist.	14010 Apr 09 16:24	4° 8 12'44	1.42724 AU
	14009 May 03 06:00	$\Pi^{\circ}0$		evening rise	14010 Apr 15 16:08	13° 8 52'23	
evening rise	14009 May 05 17:30	3° II 50'03		S	14010 Apr 26 05:04	0°II	
evening rise	14009 May 23 09:06	0.2 2		evening max el	14010 May 18 05:12	29° Ⅱ 00'43	22°00'42
avanina may al			20054100	evening max ci		0°95	22 09 42
evening max el	14009 Jun 04 10:33	15°5010'17	20 34 00	1	14010 May 19 05:37		
asc. node	14009 Jun 06 23:40	17°528'34		asc. node	14010 May 24 20:48	3°558'55	
retrograde	14009 Jun 12 20:20	20° © 02'39		retrograde	14010 May 27 18:06	4° © 36'40	
evening set	14009 Jun 17 02:17	18°521'15		evening set	14010 Jun 01 11:04	2°539'23	
inferior conj	14009 Jun 22 08:11	12° © 11'30	3°10'56		14010 Jun 03 23:53	30°Ŗ Ⅱ	
minimum elong	14009 Jun 22 07:51	12° © 12'41	3°09'52	inferior conj	14010 Jun 06 17:37	26° Ⅱ 19'53	3°01'36
min. Earth dist.	14009 Jun 22 20:08	11° 5 30'06	0.68588 AU	minimum elong	14010 Jun 06 16:24	26° Ⅱ 24'09	3°00'24
morning rise	14009 Jun 27 13:08	5° © 51'59		min. Earth dist.	14010 Jun 06 16:27	26° Ⅲ 23'59	0.68956 AU
direct	14009 Jul 02 20:00	3°533'02		morning rise	14010 Jun 11 21:32	20° Ⅱ 06'35	
desc. node	14009 Jul 09 23:43	6°5543'24		direct	14010 Jun 16 15:47	18° Ⅱ 05'37	
morning max el	14009 Jul 13 12:10	9° © 55'15	23°32'13	morning max el	14010 Jun 26 00:49	23° Ⅱ 35'20	22°03'49
	14009 Jul 29 09:25	0°Ω	-	desc. node	14010 Jun 26 20:53	24° Ⅱ 26'51	22
		- 00					

	14010 1 1 01 16 14	000		1 1	14011 1 12 17 55	120 T 02147	
	14010 Jul 01 16:14	0°©		desc. node	14011 Jun 13 17:55	13° Ⅱ 03'47	
	14010 Jul 22 17:52	0°Ω			14011 Jun 25 23:38	0°©	
morning set	14010 Jul 28 21:40	9° Ω 41'40		morning set	14011 Jul 08 10:18	18°9548'43	
max. Earth dist.	14010 Aug 03 10:09	18° Ω 43'28	1.41506 AU		14011 Jul 15 12:37	0 $^{\circ}$ Ω	
	14010 Aug 10 00:36	0° m)		max. Earth dist.	14011 Jul 16 18:00	1° Ω 58'11	1.43509 AU
superior conj	14010 Aug 11 04:43	2° m/03'31	-1°19'37	superior conj	14011 Jul 23 10:42	12° Ω 57'49	-1°50'24
minimum elong	14010 Aug 11 10:47	2° m/30'16		minimum elong	14011 Jul 23 18:02	13° Ω 28'30	
asc. node	14010 Aug 20 21:07	19° m) 39'42	1 1) 22	minimum ciong	14011 Aug 02 08:50	0° m)	1 30 33
	_	21° m) 17'02		evening rise	_	3° m 57'13	
evening rise	14010 Aug 21 18:07			Č	14011 Aug 04 14:45	~	
	14010 Aug 26 12:00	0∘ ʊ	10010150	asc. node	14011 Aug 07 17:45	9° Mp 27'20	
evening max el	14010 Sep 06 17:36	16° ≏ 45'41	18°13'53		14011 Aug 21 10:18	0∘ 亚	
retrograde	14010 Sep 13 23:15	20° ≏ 26′27		evening max el	14011 Aug 21 06:32	29° m 50'47	18°02'31
evening set	14010 Sep 16 03:00	20° ≏ 07'28		retrograde	14011 Aug 27 20:32	3° ≏ 14'37	
desc. node	14010 Sep 22 17:33	16° ≙ 02'15		evening set	14011 Aug 30 08:08	2° ≙ 45'17	
inferior conj	14010 Sep 23 11:38	15° ≏ 23'53	-0°14'10		14011 Sep 03 13:05	30°R, Mp	
minimum elong	14010 Sep 23 11:08	15° ≏ 24'57	0°13'49	inferior conj	14011 Sep 05 23:51	27° Mp 41'41	1°05'06
transit middle	14010 Sep 23 11:08	15° ≏ 24'57	0°13'49	minimum elong	14011 Sep 06 01:40	27° mp 37'12	1°04'18
transit begin	14010 Sep 23 09:20	15° ≏ 28'47		min. Earth dist.	14011 Sep 09 01:23	24° mp 41'27	0.61325 AU
transit end	14010 Sep 23 12:55	15° ≏ 21'07		desc. node	14011 Sep 09 15:05	24° m) 09'45	
min. Earth dist.	14010 Sep 26 18:43	12° £ 35'49	0.59038 AU	morning rise	14011 Sep 12 16:28	21° mp 42'42	
morning rise	14010 Sep 30 15:51	9° ₽ 51'39	0.57050710	direct	14011 Sep 12 16:26	19° m) 27'26	
direct	14010 Sep 30 13:31 14010 Oct 07 01:33	8° ⊆ 00'12			=	27° m) 24'06	27050127
			25022150	morning max el	14011 Oct 03 13:06		21 3821
morning max el	14010 Oct 21 08:56	15° ≏ 43'56	27°33'50		14011 Oct 06 00:42	0° ™	
	14010 Nov 02 00:28	0° M ₊			14011 Oct 26 17:56	0° M	
asc. node	14010 Nov 16 23:01	25°M28'46		asc. node	14011 Nov 03 19:47	15°M14'19	
	14010 Nov 19 05:11	0° ∡ ¹		morning set	14011 Nov 05 21:58	19° M 30'19	
morning set	14010 Nov 21 19:48	5° ∡ ¹25'38			14011 Nov 10 20:03	0° ∡ ¹	
				max. Earth dist.	14011 Nov 11 14:21	1° ≯ ′40′17	1.31469 AU
superior conj	14010 Nov 28 19:09	20° ∡ ¹42'55	1°30'51				
minimum elong	14010 Nov 28 17:38	20° ∡ ³34′26	1°31'46	superior conj	14011 Nov 13 05:32	5° ∡ 16'34	1°18'47
max. Earth dist.	14010 Nov 28 07:53	19° ∡ ³39'58	1.31158 AU	minimum elong	14011 Nov 13 03:24	5° ∡ °04'47	1°19'26
	14010 Dec 02 23:13	ი∘ჳ		evening rise	14011 Nov 19 22:32	20° ҂ ′04'32	
evening rise	14010 Dec 05 12:34	5° ට 34'00		Ü	14011 Nov 24 16:33	ರ°0	
e vennig rise	14010 Dec 18 05:17	0° ≈		desc. node	14011 Dec 06 11:56	20° ට 34'38	
desc. node	14010 Dec 19 14:54	2°≈18'25		dese. Hode	14011 Dec 13 20:46	0°≈	
evening max el	14010 Dec 17 14:54	21° ≈ 45'37	26°26'13	evening max el	14011 Dec 16 06:43	0 ~ 2° ≈ 27'49	25°04'06
C			20 20 13	•			23 04 00
retrograde	14011 Jan 17 14:02	28°≈52'09		retrograde	14011 Dec 30 01:56	9°≈22'46	
evening set	14011 Jan 24 00:32	27°≈11'38		evening set	14012 Jan 04 17:33	8°≈11'12	
min. Earth dist.	14011 Jan 28 04:35		0.58556 AU	min. Earth dist.	14012 Jan 09 18:42	5° ≈ 28'13	
inferior conj	14011 Jan 31 07:44	22° ≈ 14'15	-3°52'29	inferior conj	14012 Jan 12 10:13	3° ≈ 45′07	
minimum elong	14011 Jan 31 15:59	21° ≈ 58'48	3°49'03	minimum elong	14012 Jan 12 18:44	3° ≈ 31'15	5°05'56
morning rise	14011 Feb 08 10:27	17° ≈ 43′21			14012 Jan 19 11:00	30°Ŗる	
direct	14011 Feb 10 11:00	17° ≈ 29'16		morning rise	14012 Jan 20 22:16	29° る 36'13	
asc. node	14011 Feb 12 21:29	17° ≈ 50'42		direct	14012 Jan 23 03:36	29° る 22'08	
morning max el	14011 Feb 18 13:42	21° ≈ 29′26	18°25'40		14012 Jan 26 16:27	0° ≈	
	14011 Feb 25 02:03	0° ₩		asc. node	14012 Jan 30 18:53	2° ≈ 21'41	
morning set	14011 Mar 06 09:49	16° ¥ 47'46		morning max el	14012 Feb 01 13:52	3° ≈ 56'19	19°17'00
S	14011 Mar 13 08:28	$0^{\circ}\Upsilon$, and the second	14012 Feb 17 20:15	0° ₩	
		•		morning set	14012 Feb 18 11:02	1° ¥ 13'26	
superior conj	14011 Mar 15 13:58	4° Υ ′08'01	0°17'00	morning set	11012100 10 11.02	1 /(1320	
minimum elong	14011 Mar 15 15:10	4° Υ 13'32	0°16'50	superior coni	14012 Feb 26 15:59	17° ¥ 29'00	0°46'46
			0 10 30	superior conj			
desc. node	14011 Mar 17 16:27	7° Y 57'59		minimum elong	14012 Feb 26 18:31	17°) 41′12	0°46'43
max. Earth dist.	14011 Mar 23 01:54	17° Y ′28′02	1.40643 AU	desc. node	14012 Mar 03 12:57	28°) 32'45	
evening rise	14011 Mar 27 10:34	24° Y ′48'48			14012 Mar 04 08:08	0° Υ	
	14011 Mar 30 15:00	0° 8		max. Earth dist.	14012 Mar 04 08:31	0° Ƴ 01'47	1.38383 AU
	14011 Apr 20 00:08	Π °0		evening rise	14012 Mar 08 02:02	6° Ƴ 38'56	
evening max el	14011 Apr 30 20:24	12° Ⅱ 53′08	23°30'27		14012 Mar 22 13:56	9° 8	
retrograde	14011 May 11 13:17	19° Ⅱ 10'49		evening max el	14012 Apr 12 09:58	26° 8 46'09	24°49'57
asc. node	14011 May 11 18:02	19° Ⅱ 10'39			14012 Apr 16 00:32	Π°	
evening set	14011 May 16 17:50	16° Ⅱ 59'17		retrograde	14012 Apr 24 04:46	3° Ⅲ 38′25	
min. Earth dist.	14011 May 21 13:09	11° Ⅱ 20'33	0.68850 AU	asc. node	14012 Apr 27 15:23	2° Ⅱ 47'08	
inferior conj	14011 May 22 03:07	10° Ⅲ 32'33	2°41'54	evening set	14012 Apr 29 20:58	1° Ⅱ 15'26	
minimum elong	14011 May 22 03:07	10° Ⅱ 32'59	2°40'34	C. Ching Set	14012 May 01 04:41	30°R 8	
morning rise	14011 May 27 08:37	4° Ⅱ 26'56	2 1037	min. Earth dist.	14012 May 04 08:07	26° 8 13'06	0.68277 AU
•	-				-		
direct	14011 May 31 14:18	2° Ⅱ 46'17	20042115	inferior conj	14012 May 05 10:44	24° 8 44'56	
morning max el	14011 Jun 08 18:53	7° Ⅱ 26'25	20-45-15	minimum elong	14012 May 05 08:35	24° 8 52'05	Z-10'31

morning rise	14012 May 10 20:27	18° 8 48'09		direct	14013 Apr 28 13:36	2° 8 05'26	
direct	14012 May 14 14:06	17° 8 28'08	10005105	morning max el	14013 May 05 05:04	5° 8 39'26	18°43'02
morning max el	14012 May 21 20:21	21° 8 28'46	19°35'25	desc. node	14013 May 17 11:41	22° 8 03'04	
	14012 May 28 22:28	0°II			14013 May 22 15:29	0°П	
desc. node	14012 May 30 14:51	2° Ⅱ 19'18 7° Ⅱ 52'48	0.6	morning set	14013 May 27 00:35	6° Ⅱ 49'31	
greatest brilliancy	14012 Jun 03 11:46		-0.6m	Earth diet	14013 Jun 10 21:07	0.20 0.20	1 45755 ATT
morning set	14012 Jun 16 12:15	27° Ⅱ 31'53 0° ©		max. Earth dist.	14013 Jun 11 02:07	0°919'32	1.45755 AU
max. Earth dist.	14012 Jun 18 02:45 14012 Jun 28 08:05	15° © 55'38	1.44970 AU	aumariar aani	14012 Jun 12 05:00	2° © 05'06	2012/01
max. Earm dist.	14012 Juli 28 08.03	15 955 56	1.449/0 AU	superior conj minimum elong	14013 Jun 12 05:09 14013 Jun 12 01:58	1°952'40	
superior coni	14012 Jul 02 16:57	22° © 52'26	2010/00	evening rise	14013 Jun 27 15:33	26°\$29'07	2 12 39
superior conj minimum elong	14012 Jul 02 10.37	22 3 52 20 23° 5 09'33		evening rise	14013 Jun 29 20:15	20 3 2907	
minimum ciong	14012 Jul 07 02:55	23 3 09 33	2 11 00	greatest brilliancy	14013 Jul 04 05:58	7° Ω 02'09	-0.9m
evening rise	14012 Jul 16 15:18	15° Ω 44'16		asc. node	14013 Jul 11 11:13	18° Ω 09'34	-0.7111
asc. node	14012 Jul 24 14:27	28° Ω 59'25		evening max el	14013 Jul 18 09:57	26° Ω 57'24	18°35'13
use. Houe	14012 Jul 25 05:26	0° m)		evening max er	14013 Jul 22 15:14	0° m)	10 33 13
evening max el	14012 Aug 03 21:01	13° Mp 17'26	18°09'55	retrograde	14013 Jul 24 22:17	0° m/28'44	
retrograde	14012 Aug 10 05:38	16° m/38'25	10 0,00	renograde	14013 Jul 27 04:14	30°R Ω	
evening set	14012 Aug 13 01:35	15° m) 55'51		evening set	14013 Jul 28 03:01	29° Ω 30'47	
inferior conj	14012 Aug 19 03:46	10° m) 34'47	2°02'36	inferior conj	14013 Aug 02 19:22	23°Ω54'21	2°40'48
minimum elong	14012 Aug 19 06:14	10° m) 27'56	2°01'27	minimum elong	14013 Aug 02 21:28	23° Ω 47'57	
min. Earth dist.	14012 Aug 21 17:58	7° mp 42'49	0.63531 AU	min. Earth dist.	14013 Aug 04 19:43	21° Ω 27'19	0.65477 AU
morning rise	14012 Aug 25 09:02	4° m) 19'09		morning rise	14013 Aug 08 14:49	17° Ω 30'58	
desc. node	14012 Aug 26 12:36	3° m/30'43		desc. node	14013 Aug 13 10:06	15° Ω 01'02	
direct	14012 Sep 01 00:23	1° m) 47'08		direct	14013 Aug 15 00:59	14° Ω 51'25	
morning max el	14012 Sep 14 22:13	9° m)48'11	27°44'55	morning max el	14013 Aug 28 09:19	22° Ω 44'04	26°58'43
5 5	14012 Sep 30 17:35	0∘ <u>⊽</u>			14013 Sep 03 19:23	0° m)	
	14012 Oct 18 01:57	0° M			14013 Sep 24 00:20	0∘ <u>v</u>	
morning set	14012 Oct 19 16:44	3°M12'14		morning set	14013 Oct 03 01:11	16° ≏ 23'31	
asc. node	14012 Oct 20 16:29	5° M .11'59		max. Earth dist.	14013 Oct 07 06:35	24° ≏ 43'30	1.33708 AU
max. Earth dist.	14012 Oct 24 15:05	13°M23'31	1.32318 AU	asc. node	14013 Oct 07 13:06	25° ≏ 16'26	
					14013 Oct 09 20:22	0° M	
superior conj	14012 Oct 27 12:47	19°M38'00	1°00'59				
minimum elong	14012 Oct 27 10:30	19°M25'38	1°01'20	superior conj	14013 Oct 11 14:34	3° M ₊40'34	0°37'32
_	14012 Nov 01 06:40	0° ∡ ¹		minimum elong	14013 Oct 11 12:46	3°M31'05	0°37'40
evening rise	14012 Nov 03 09:40	4° ∡ °36′18		evening rise	14013 Oct 18 20:00	19°M03'33	
	14012 Nov 16 19:19	ರ°0			14013 Oct 24 04:21	0° ∡ ¹	
desc. node	14012 Nov 22 09:05	7° る 48'08		evening max el	14013 Nov 08 05:31	22° ∡ ³37′03	21°43'36
evening max el	14012 Nov 26 16:42	12° る 33'29	23°23'58	desc. node	14013 Nov 09 06:21	23° ∡ ³35'37	
retrograde	14012 Dec 10 01:17	19° る 11'57		retrograde	14013 Nov 20 14:07	28° ҂ ⁴44'32	
evening set	14012 Dec 14 11:20	18° る 29'32		evening set	14013 Nov 23 15:11	28° ₹ 23'37	
min. Earth dist.	14012 Dec 21 02:53	15° る 21'02	0.55158 AU	inferior conj	14013 Dec 02 09:43	24° ₹ ³30′28	-5°45'50
inferior conj	14012 Dec 22 16:37	14° පි 26'04	-5°54'13	minimum elong	14013 Dec 02 03:53	24° ∡ °38'38	5°44'08
minimum elong	14012 Dec 22 19:46	14° る 21'28	5°52'58	min. Earth dist.	14013 Dec 02 09:00	24° ∡ ³31′29	0.54500 AU
morning rise	14012 Dec 31 05:52	10° る 34'23		morning rise	14013 Dec 10 17:25	20° ∡ ⁴42'35	
direct	14013 Jan 03 00:47	10° る 15'38		direct	14013 Dec 14 09:42	20° ∡ 12'59	
morning max el	14013 Jan 14 00:39	15° る 31'29	20°31'26	morning max el	14013 Dec 26 21:01	26° ∡ 12'29	22°07'13
asc. node	14013 Jan 16 16:12	18° る 21'21			14013 Dec 30 09:56	0° ろ	
	14013 Jan 24 13:18	0° ≈		asc. node	14014 Jan 03 13:25	5° る 31'27	
morning set	14013 Feb 01 18:08	15°≈52'42			14014 Jan 16 21:29	0° ≈	
	14013 Feb 08 14:13	0° ℋ		morning set	14014 Jan 17 04:38	0° ≈ 37'40	
	14012 77 1 00 00 00	101/2	1000120		14014 7 2: 2: 2:	1.50 45:5	1005105
superior conj	14013 Feb 09 06:46		1°09'38	superior conj	14014 Jan 24 06:35	15° ≈ 42'26	1°25'35
minimum elong	14013 Feb 09 09:26	1°) € 37'42	1°09'52	minimum elong	14014 Jan 24 08:39	15°≈53'19	1°26'11
max. Earth dist.	14013 Feb 14 16:07	12° 米 03'54	1.36192 AU	max. Earth dist.	14014 Jan 28 05:21	23°≈54'10	1.34276 AU
desc. node	14013 Feb 18 09:30	19°) €03'40			14014 Jan 31 06:35	0°) {	
evening rise	14013 Feb 18 12:15	19° ¥ 16'18		evening rise	14014 Feb 01 13:41	2° ₩31'08	
	14013 Feb 24 14:08	0° Υ		desc. node	14014 Feb 05 06:05	9° ¥ 26'11 0° Υ	
avanina ma1	14013 Mar 16 16:27	0°8	26901104	ovonina ma1	14014 Feb 17 12:27		26056120
evening max el	14013 Mar 25 23:26	10° 8 37'02	26°01'04	evening max el	14014 Mar 08 13:09	24° Y 19'11 0° と	26°56'29
retrograde	14013 Apr 07 15:36	17° 8 52'49		rotro a J-	14014 Mar 15 20:28	_	
evening set	14013 Apr 14 12:46	15° 8 22'29 14° 8 42'54		retrograde	14014 Mar 21 20:50	1° 8 46′13 30° RY	
asc. node min. Earth dist.	14013 Apr 14 12:46		0.67260 AU	avaning sat	14014 Mar 27 07:59	30° γ γ 29° Υ 14'05	
inferior conj	14013 Apr 17 23:17 14013 Apr 19 14:30	10° 8 55'31 8° 8 53'02	1°31'12	evening set asc. node	14014 Mar 28 09:22 14014 Apr 01 10:12	29°Υ14'05 25° Υ 16'15	
minimum elong	14013 Apr 19 14:30 14013 Apr 19 12:34	8° 8 59'06	1°31°12 1°29'59	min. Earth dist.	14014 Apr 01 10:12 14014 Apr 01 08:38	25° Y 16° 15 25° Y $20'$ 41	0.65829 AU
morning rise	14013 Apr 19 12.34 14013 Apr 25 07:06	3° 8 06'19	1 47 37	inferior conj	14014 Apr 01 08.38 14014 Apr 03 12:09	23 γ 2041 22° γ 51'55	0.03829 AU 0°39'11
morning 1150	17013 Apr 23 07.00	5 000 19		microi conj	17017 Apr 03 12.09	44 13133	0 3/11

	14014 4 02 11 00	2200054152	0020120	. 1	14015 M 04 10 10	1.500000117	
minimum elong	14014 Apr 03 11:08	22° Y 54'52	0°38'29	retrograde	14015 Mar 04 19:18	15° Y 09'17 12° Y 41'51	
morning rise	14014 Apr 09 14:18	17° Y 17′01		evening set	14015 Mar 11 14:28	9° Υ 19'13	0.64045.411
direct	14014 Apr 12 10:49	16° Y 32'33 19° Y 52'26	10007122	min. Earth dist.	14015 Mar 15 10:00	6° Υ 34'27	0.64045 AU
morning max el	14014 Apr 18 19:22		18°07'22	inferior conj	14015 Mar 18 01:01		
1 1	14014 Apr 26 15:42	0°8		minimum elong	14015 Mar 18 01:47	6° Y 32'27 5° Y 15'25	0°24'25
desc. node	14014 May 04 08:24	12° 8 07'36		asc. node	14015 Mar 19 07:39	3° γ 13′23 1° γ 13′47	
morning set	14014 May 07 14:47	17° 8 24'17 0° I I		morning rise	14015 Mar 24 15:16	0° Υ 42'23	
	14014 May 15 10:56	υц		direct	14015 Mar 27 03:13	3° Υ 59'43	17°48'54
	14014 M 22 14-09	110π1/22	1952150	morning max el	14015 Apr 02 12:41	3 1 39 43 29° Υ 19'14	1 / 46 34
superior conj	14014 May 22 14:08 14014 May 22 05:28	11° Ⅱ 16'32 10° Ⅱ 42'32		morning set	14015 Apr 19 08:42	0° 8	
minimum elong max. Earth dist.	14014 May 24 21:59		1.45802 AU	daga mada	14015 Apr 19 18:21	2° 8 26'26	
max. Earth dist.	•	0°95	1.45802 AU	desc. node	14015 Apr 21 05:02	2 0 2 0 2 0	
	14014 Jun 03 14:45	0°95 6°9518'45			14015 M 02 12-40	210 400111	1920144
evening rise	14014 Jun 07 16:34		-0.7m	superior conj	14015 May 02 12:40	21° 8 09'11	
greatest brilliancy	14014 Jun 19 20:43	24°≌58'06 0°Ω	-0./m	minimum elong	14015 May 02 04:44	20° 8 37'08	1°20'32
1-	14014 Jun 23 06:55	6° Ω 50'22		max. Earth dist.	14015 May 07 17:33	29° 8 27'48 0° I I	1.45113 AU
asc. node	14014 Jun 28 08:04		10017126		14015 May 08 01:42		
evening max el	14014 Jul 01 18:54	10° Ω 44'51	19°17'26	evening rise	14015 May 18 04:27	15° Ⅱ 42'32	
retrograde	14014 Jul 08 19:14	14° Ω 39'02			14015 May 27 15:24	0°छ	2001 4150
evening set	14014 Jul 12 09:17	13° Ω 24'21	2002151	evening max el	14015 Jun 14 22:18	24°934'29	20°14'58
inferior conj	14014 Jul 17 19:15	7° Ω 34'02 7° Ω 29'58		asc. node	14015 Jun 15 05:01	24°951'07	
minimum elong	14014 Jul 17 20:30		3°01'49	retrograde	14015 Jun 22 17:57	29°502'44	
min. Earth dist.	14014 Jul 19 05:08	5° Ω 43'31	0.67045 AU	evening set	14015 Jun 26 18:00	27°930'51	2011122
morning rise	14014 Jul 23 07:07	1° Ω 09'19		inferior conj	14015 Jul 02 00:36	21°927'51	3°11'23
1.	14014 Jul 24 18:59	30°R≌		minimum elong	14015 Jul 02 00:50	21°527'02	3°10'21
direct	14014 Jul 29 08:25	28°931'46		min. Earth dist.	14015 Jul 02 20:21	20°520'29	0.68167 AU
desc. node	14014 Jul 31 07:31	28°546'12		morning rise	14015 Jul 07 07:22	15°905'50	
	14014 Aug 03 09:28	0°N	25040127	direct	14015 Jul 12 21:22	12°938'27	
morning max el	14014 Aug 10 20:14		25°48'26	desc. node	14015 Jul 18 04:51	14°923'58	24022120
. ,	14014 Aug 29 09:33	0° m/)		morning max el	14015 Jul 24 06:32	19° © 27'23	24°23'39
morning set	14014 Sep 15 19:48	28° m 55'56			14015 Aug 02 05:36	0° N	
n d r	14014 Sep 16 09:45	0° ⊽	1 25504 411	. ,	14015 Aug 22 12:37	0° Mp	
max. Earth dist.	14014 Sep 19 12:04	5° £ 48′26	1.35594 AU	morning set	14015 Aug 28 20:16	10° Mp 38'32	1 27027 411
asc. node	14014 Sep 24 09:40	15° ≏ 24'01		max. Earth dist.	14015 Sep 01 11:05	17° Mp 02'14	1.37837 AU
	14014 0 25 00 10	150 0 1515 4	0000140		14015 Sep 08 10:11	0∘ ⊽	
superior conj	14014 Sep 25 08:18	17° £ 17'54	0°08'49		14015 0 00 14 26	00.00111.5	000 411 5
minimum elong	14014 Sep 25 07:46	17° ≏ 15'16	0°08'55	superior conj	14015 Sep 08 14:36	0° ჲ 21'15	-0°24'15
behind sun begin	140146 25 02 26	1 60 0 10110			•	00 0 00110	
	14014 Sep 25 02:36	16° Ω 49'10		minimum elong	14015 Sep 08 16:15	0° £ 29'12	0°24'02
behind sun end	14014 Sep 25 12:56	17° ≏ 41'24		asc. node	14015 Sep 08 16:15 14015 Sep 11 06:13	5° £ 30'34	
	14014 Sep 25 12:56 14014 Oct 01 12:33	17° £ 41′24 0° ™		C	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50	5° £ 30'34 17° £ 23'25	
behind sun end evening rise	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33	17° Ω 41'24 0° M 3° M 21'32		asc. node evening rise	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07	5° Ω 30'34 17° Ω 23'25 0° M	0°24'02
evening rise	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59	17° £ 41'24 0° M 3° M 21'32 0° ⊀	20045121	asc. node evening rise evening max el	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39	5° Ω 30'34 17° Ω 23'25 0° M 14° M 37'55	
evening rise evening max el	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58	17° £ 41'24 0° M 3° M 21'32 0° ⊀ 3° ⊀ 13'36	20°17'31	asc. node evening rise evening max el retrograde	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47	5° £ 30'34 17° £ 23'25 0° M 14° M 37'55 19° M 13'54	0°24'02
evening rise evening max el desc. node	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40	17° △ 41'24 0° M . 3° M .21'32 0° √ 3° √ 13'36 7° √ 30'41	20°17'31	asc. node evening rise evening max el retrograde desc. node	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04	5° № 30'34 17° № 23'25 0° M 14° M 37'55 19° M 13'54 19° M 10'44	0°24'02
evening rise evening max el desc. node retrograde	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27	17° △ 41'24 0° M . 3° M .21'32 0° ♂ 3° √ 13'36 7° √ 30'41 8° √ 36'15	20°17'31	asc. node evening rise evening max el retrograde desc. node evening set	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30	5° № 30'34 17° № 23'25 0° M 14° M 37'55 19° M 13'54 19° M 10'44 19° M 03'19	0°24'02 19°12'26
evening rise evening max el desc. node retrograde evening set	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40	17° △ 41'24 0° M . 3° M .21'32 0° ♂ 3° ♂ 13'36 7° ♂ 30'41 8° ♂ 36'15 8° ♂ 24'39		asc. node evening rise evening max el retrograde desc. node evening set inferior conj	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54	5° \(\Omega 30'34 \) 17° \(\Omega 23'25 \) 0° \(\Omega \) 14° \(\Omega 37'55 \) 19° \(\Omega 10'44 \) 19° \(\Omega 03'19 \) 14° \(\Omega 51'56 \)	0°24'02 19°12'26 -2°56'24
evening rise evening max el desc. node retrograde evening set inferior conj	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55	17° ♣41'24 0° M. 3° M.21'32 0° ♂ 3° ♂ 13'36 7° ♂ 30'41 8° ♂ 36'15 8° ♂ 24'39 4° ♂ 28'22	-4°38'57	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26	5° \(\Omega 30'34 \) 17° \(\Omega 23'25 \) 0° \(\Omega \) 14° \(\Omega 37'55 \) 19° \(\Omega 10'44 \) 19° \(\Omega 03'19 \) 14° \(\Omega 51'56 \) 15° \(\Omega 04'26 \)	0°24'02 19°12'26 -2°56'24 2°52'56
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55 14014 Nov 11 16:48	17° ₾41'24 0° M. 3° M.21'32 0° ズ 3° ズ 13'36 7° ズ 30'41 8° ズ 36'15 8° ズ 24'39 4° ズ 28'22 4° ズ 43'15	-4°38'57 4°35'16	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist.	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\)	0°24'02 19°12'26 -2°56'24
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55 14014 Nov 11 16:48 14014 Nov 13 15:58	17° ♣41'24 0° M. 3° M.21'32 0° ♂ 3° ♂ 13'36 7° ♂ 30'41 8° ♂ 36'15 8° ♂ 24'39 4° ♂ 28'22 4° ♂ 43'15 3° ♂ 33'44	-4°38'57	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\) 10° \(\Omega 16'44\)	0°24'02 19°12'26 -2°56'24 2°52'56
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15	17° ₾41'24 0° M. 3° M.21'32 0° ♂ 3° ♂ 13'36 7° ♂ 30'41 8° ♂ 36'15 8° ♂ 24'39 4° ♂ 22'39 4° ♂ 24'39 4° ♂ 33'44 0° ♂ 25'14	-4°38'57 4°35'16	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\) 10° \(\Omega 16'44\) 9° \(\Omega 07'51\)	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55 14014 Nov 13 15:58 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50	17° ₾41'24 0° M. 3° M.21'32 0° \$\mathrightarrow{7}\$ 3° \$\mathrightarrow{7}\$13'36 7° \$\mathrightarrow{7}\$30'41 8° \$\mathrightarrow{7}\$24'39 4° \$\mathrightarrow{7}\$28'22 4° \$\mathrightarrow{7}\$43'15 3° \$\mathrightarrow{7}\$25'14 30° \$\mathrightarrow{7}\$114	-4°38'57 4°35'16	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'02\) 10° \(\Omega 16'44\) 9° \(\Omega 07'51\) 16° \(\Omega 16'06\)	0°24'02 19°12'26 -2°56'24 2°52'56
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 24 19:40	17° \$\sim 41'24\\ 0° \$\mathbb{M}\$.\ 3° \$\mathbb{M}.21'32\\ 0° \$\mathbb{A}\$'\ 3° \$\mathbb{A}' 13'36\\ 7° \$\mathbb{A}' 30'41\\ 8° \$\mathbb{A}' 36'15\\ 8° \$\mathbb{A}' 24'39\\ 4° \$\mathbb{A}' 28'22\\ 4° \$\mathbb{A}' 43'15\\ 3° \$\mathbb{A}' 33'44\\ 0° \$\mathbb{A}' 25'14\\ 30° \$\mathbb{M}\$.\ 29° \$\mathbb{M}.38'38\\	-4°38'57 4°35'16	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\) 10° \(\Omega 16'44\) 9° \(\Omega 07'51\) 16° \(\Omega 16'06\) 0° \(\neq \omega 16'06\)	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 12 02:55 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 24 19:40 14014 Nov 27 21:32	17° \$\Omega 41'24\\ 0° \$\mathbb{M}\$.\ 3° \$\mathbb{M}\$.21'32\\ 0° \$\napprox' \\ 3° \$\napprox' 13'36\\ 7° \$\napprox' 30'41\\ 8° \$\napprox' 32'4'39\\ 4° \$\napprox' 28'22\\ 4° \$\napprox' 43'15\\ 3° \$\napprox' 33'44\\ 0° \$\napprox' 25'14\\ 30° \$\mathbb{M}\$.\ 29° \$\mathbb{M}\$.38'38\\ 0° \$\napprox' \\	-4°38'57 4°35'16 0.54780 AU	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\) 10° \(\Omega 16'44\) 9° \(\Omega 00'51\) 16° \(\Omega 16'06\) 0° \(\sigma 16'04\) 12° \(\sigma 21'04\)	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 24 19:40 14014 Nov 27 21:32 14014 Dec 08 07:44	17° \(\Omega\)41'24 0° \(\mathbb{M}\). 3° \(\mathbb{M}\).21'32 0° \(\mathscr{A}\) 3° \(\mathscr{A}\)13'36 7° \(\mathscr{A}\)30'41 8° \(\mathscr{A}\)36'15 8° \(\mathscr{A}\)24'39 4° \(\mathscr{A}\)28'22 4° \(\mathscr{A}\)43'15 3° \(\mathscr{A}\)33'44 0° \(\mathscr{A}\)25'14 30° \(\mathscr{R}\) 29° \(\mathscr{M}\).38'38 0° \(\mathscr{A}\) 6° \(\mathscr{A}\)16'06	-4°38'57 4°35'16	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33 14015 Dec 17 03:58	5° № 30'34 17° № 23'25 0° M. 14° M.37'55 19° M.10'44 19° M.03'19 14° M.51'56 15° M.04'26 13° M.04'02 10° M.16'44 9° M.07'51 16° M.16'06 0° 12° 12° 12° 10' 10' 10' 10' 10' 10' 10' 10	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 24 19:40 14014 Nov 27 21:32 14014 Dec 08 07:44 14014 Dec 21 10:32	17° \(\Omega\)41'24 0° \(\mathbb{\text{N.}}\) 3° \(\mathbb{\text{N.}}\)21'32 0° \(\mathscr{ \mathscr{ \text{N.}}}\)30'41 8° \(\mathscr{ \mathscr{ \text{N.}}}\)30'41 8° \(\mathscr{ \mathscr{ \text{N.}}}\)30'41 8° \(\mathscr{ \mathscr{ \text{N.}}}\)32'22 4° \(\mathscr{ \mathscr{ \text{N.}}}\)43'15 3° \(\mathscr{ \mathscr{ \text{N.}}}\)33'44 0° \(\mathscr{ \mathscr{ \text{N.}}}\)38'38 0° \(\mathscr{ \mathscr{ \text{N.}}}\)16'06 23° \(\mathscr{ \mathscr{ \text{N.}}}\)35'49	-4°38'57 4°35'16 0.54780 AU	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33	5° \(\Omega 30'34\) 17° \(\Omega 23'25\) 0° \(\Omega \) 14° \(\Omega 37'55\) 19° \(\Omega 10'44\) 19° \(\Omega 03'19\) 14° \(\Omega 51'56\) 15° \(\Omega 04'26\) 13° \(\Omega 04'02\) 10° \(\Omega 16'44\) 9° \(\Omega 00'51\) 16° \(\Omega 16'06\) 0° \(\sigma 16'04\) 12° \(\sigma 21'04\)	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 24 19:40 14014 Nov 27 21:32 14014 Dec 08 07:44 14014 Dec 21 10:32 14014 Dec 25 01:24	17° \$\Omega 41'24\\ 0° \$\mathbb{\text{\ti}\text{\text	-4°38'57 4°35'16 0.54780 AU	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33 14015 Dec 17 03:58 14015 Dec 17 03:23	5° \$\Omega 30'34 17° \$\Omega 23'25 0° \$\mathbb{M}\$. 14° \$\mathbb{M} .37'55 19° \$\mathbb{M} .10'44 19° \$\mathbb{M} .03'19 14° \$\mathbb{M} .51'56 15° \$\mathbb{M} .04'26 13° \$\mathbb{M} .04'02 10° \$\mathbb{M} .16'06 0° \$\mathscr{A}\$ 12° \$\mathscr{A} 21'04 0° \$\mathscr{B} .03'10 0° \$\mathscr{B}\$	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU 25°40'13
evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 12 02:55 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 27 21:32 14014 Dec 08 07:44 14014 Dec 21 10:32 14014 Dec 25 01:24 14015 Jan 01 16:29	17° ₾41'24 0° M. 3° M.21'32 0° ¾ 3° ¾13'36 7° ¾30'41 8° ¾24'39 4° ¾28'22 4° ¾43'15 3° ¾33'44 0° ¾25'14 30° № M. 29° M.38'38 0° ¾ 6° ¾16'06 23° ¾35'49 0° ♂ 15° ♂22'40	-4°38'57 4°35'16 0.54780 AU	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 13 00:47 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 02:26 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 05 16:20 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33 14015 Dec 17 03:58 14015 Dec 17 03:23	5° № 30'34 17° № 23'25 0° № 14° № 37'55 19° № 13'54 19° № 10'44 19° № 03'19 14° № 51'56 15° № 04'26 13° № 04'02 10° № 16'44 9° № 07'51 16° № 16'06 0° ※ 12° ※ 221'04 0° ♂ 03'10 0° ♂	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU 25°40'13
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evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise	14014 Sep 25 12:56 14014 Oct 01 12:33 14014 Oct 03 03:33 14014 Oct 18 08:59 14014 Oct 21 05:58 14014 Oct 27 03:40 14014 Nov 01 01:27 14014 Nov 03 04:40 14014 Nov 11 16:48 14014 Nov 13 15:58 14014 Nov 20 04:15 14014 Nov 21 16:50 14014 Nov 22 19:40 14014 Nov 27 21:32 14014 Dec 08 07:44 14014 Dec 21 10:32 14014 Dec 25 01:24 14015 Jan 01 16:29 14015 Jan 08 12:31 14015 Jan 08 13:36 14015 Jan 11 02:29 14015 Jan 16 02:55 14015 Jan 16 02:55 14015 Jan 23 02:44	17° \$\Delta 41'24\\ 0° \$\text{\tex{\tex	-4°38'57 4°35'16 0.54780 AU 23°55'37 1°34'57 1°35'51 1.32772 AU	asc. node evening rise evening max el retrograde desc. node evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node morning set superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14015 Sep 08 16:15 14015 Sep 11 06:13 14015 Sep 17 05:50 14015 Sep 23 19:07 14015 Oct 03 20:39 14015 Oct 14 01:04 14015 Oct 14 21:30 14015 Oct 23 09:54 14015 Oct 23 09:54 14015 Oct 26 02:30 14015 Oct 31 04:51 14015 Nov 19 17:59 14015 Nov 19 17:59 14015 Nov 30 21:06 14015 Dec 08 07:33 14015 Dec 17 03:58 14015 Dec 17 03:23 14015 Dec 23 22:14 14015 Dec 23 22:14 14015 Dec 30 21:17 14015 Dec 31 00:57 14016 Jan 09 23:27 14016 Jan 16 08:49 14016 Feb 01 12:12	5° \$\Omega 30'34 17° \$\Omega 23'25 0° \$\mathbb{M}\$. 14° \$\mathbb{M}.37'55 19° \$\mathbb{M}.10'44 19° \$\mathbb{M}.03'19 14° \$\mathbb{M}.51'56 15° \$\mathbb{M}.04'02 10° \$\mathbb{M}.16'06 0° \$\mathbb{M}\$. 12° \$\mathbb{M}.21'04 0° \$\mathred{G}03'10 0° \$\mathred{G}\$. 14° \$\mathred{G}56'15 14° \$\mathred{G}56'15 14° \$\mathred{G}56'15 19° \$\mathred{G}56'15 19° \$\mathred{G}55'30 0° \$\mathred{M}\$. 20° \$\mathred{H}\$31'10	0°24'02 19°12'26 -2°56'24 2°52'56 0.55942 AU 25°40'13 1°38'03 1°39'07 1.31741 AU

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inferior conj	14016 Feb 29 02:01	19° ¥ 52'42		evening set	14017 Feb 03 08:59	7° ¥ 52'12	0.50000 411
minimum elong	14016 Feb 29 05:29	19°) (44'36	1°38'15	min. Earth dist.	14017 Feb 07 06:44		0.59800 AU
asc. node	14016 Mar 05 05:07	15°) 45′54		inferior conj	14017 Feb 10 11:28	2° ₩ 36'13	
morning rise	14016 Mar 07 06:22	14°) (49'23		minimum elong	14017 Feb 10 18:10	2° ∺ 22'36	3°00'29
direct	14016 Mar 09 11:32	14°) €27'32			14017 Feb 13 21:35	30°R ≈	
morning max el	14016 Mar 16 06:01	17° ¥ 53′01	17°48'10	morning rise	14017 Feb 18 06:35	27°≈53′15	
	14016 Mar 24 23:47	0° Υ		direct	14017 Feb 20 07:31	27° ≈ 37'25	
morning set	14016 Apr 01 01:13	12° Y 18′06		asc. node	14017 Feb 20 02:36	27° ≈ 37'35	
desc. node	14016 Apr 07 01:36	22° Y 55'03			14017 Feb 26 06:58	0° ∀	
	14016 Apr 11 04:14	9° 8		morning max el	14017 Feb 27 19:52	1° ∺ 21'46	18°06'11
				morning set	14017 Mar 15 10:10	26° ∺ 01′27	
superior conj	14016 Apr 12 10:14	2° 8 07'07	-0°41'27		14017 Mar 17 13:21	0° Y	
minimum elong	14016 Apr 12 06:16	1° 8 50'25	0°41'18	desc. node	14017 Mar 24 22:06	13° Y 28'43	
max. Earth dist.	14016 Apr 19 10:17	13° 8 41'13	1.43758 AU				
evening rise	14016 Apr 26 19:15	25° 8 21'55		superior conj	14017 Mar 25 07:14	14° Ƴ 09'25	-0°03'05
	14016 Apr 29 19:25	$\Pi^{\circ}0$		minimum elong	14017 Mar 25 06:59	14° Ƴ 08'16	0°03'10
	14016 May 20 15:43	0 \circ \odot		behind sun begin	14017 Mar 24 23:23	13° Y 34'23	
evening max el	14016 May 27 19:51	8° 5 24'37	21°25'05	behind sun end	14017 Mar 25 14:35	14° Ƴ 42'05	
asc. node	14016 Jun 01 02:05	11° © 59'13		max. Earth dist.	14017 Apr 01 22:00	27° Ƴ 18'37	1.41878 AU
retrograde	14016 Jun 05 16:37	13° © 34'59			14017 Apr 03 12:49	8° 0	
evening set	14016 Jun 10 03:16	11°5946'26		evening rise	14017 Apr 07 01:42	5° 8 45'52	
inferior conj	14016 Jun 15 09:10	5°532'11	3°08'15		14017 Apr 23 00:35	$\Pi^{\circ}0$	
minimum elong	14016 Jun 15 08:26	5° © 34'45	3°07'07	evening max el	14017 May 10 12:37	22° Ⅱ 15'13	22°43'40
min. Earth dist.	14016 Jun 15 15:23	5° © 10'30	0.68812 AU	asc. node	14017 May 18 23:16	27° II 58'30	
	14016 Jun 19 18:30	30°R Ⅱ		retrograde	14017 May 20 13:35	28° Ⅱ 10′03	
morning rise	14016 Jun 20 13:24	29° Ⅱ 15'20		evening set	14017 May 25 11:27	26° Ⅱ 06'16	
direct	14016 Jun 25 14:54	27° I I03'51		inferior conj	14017 May 30 18:54	19° Ⅱ 43'03	2°54'29
	14016 Jul 02 08:24	0.ಪ		minimum elong	14017 May 30 17:22	19° ∏ 48'23	2°53'13
desc. node	14016 Jul 04 02:07	1°528'30		min. Earth dist.	14017 May 30 12:11	20° I 106'25	0.68969 AU
morning max el	14016 Jul 05 17:43	3°503'29	22°54'03	morning rise	14017 Jun 04 23:11	13° Ⅲ 32'51	0.00707110
morning max cr	14016 Jul 26 06:51	0°Ω	22 34 03	direct	14017 Jun 09 11:55	11° II 40'37	
morning set	14016 Aug 08 22:14	21° Ω 21'41		morning max el	14017 Jun 18 08:31		21°28'12
max. Earth dist.	14016 Aug 13 09:56	28° Ω 53'34	1.40202 AU	desc. node	14017 Jun 20 23:15	19° II 36'55	21 20 12
max. Lattii dist.	14016 Aug 14 01:27	0° mp	1.40202 AO	desc. node	14017 Jun 29 02:54	0°9	
	14010 Aug 14 01.27	עוויי			14017 Jul 19 07:59	0° U	
superior conj	14016 Aug 21 05:29	12° m 41'34	0°50'35	morning set	14017 Jul 19 07:39	1° Ω 01'11	
minimum elong	14016 Aug 21 09:58	13° My 02'02		max. Earth dist.	14017 Jul 19 23:31 14017 Jul 26 13:30	11° Ω 36'39	1.42408 AU
asc. node	14016 Aug 21 09:38	25° m 32'43	0 39 10	max. Earth dist.	1401/Jul 20 13.30	11 863039	1.42406 AU
asc. node	Č	0° ⊡		aumorior aoni	14017 Aug 02 00:26	24° Ω 09'38	1922124
evening rise	14016 Aug 30 10:53	0 호 1° 요 01'50		superior conj	14017 Aug 03 00:36	24 δ 1 09 38 24° Ω 39'36	
Č	14016 Aug 30 23:52	26° £ 48'23	18°29'14	minimum elong	14017 Aug 03 07:33	0°m)	1 33 27
evening max el	14016 Sep 15 23:10		16 29 14		14017 Aug 06 09:01	-•	
. 1	14016 Sep 20 08:25	0°M		evening rise	14017 Aug 14 05:44	14° Mp 07'00	
retrograde	14016 Sep 23 19:01	0°M45'56		asc. node	14017 Aug 14 23:22	15° m 27'01	
evening set	14016 Sep 25 18:46	0°M31'20			14017 Aug 23 06:32	0° ⊽	10006142
	14016 Sep 27 08:54	30° ₹ Ω		evening max el	14017 Aug 30 09:31	9° ₽ 36'46	18°06'42
desc. node	14016 Sep 29 22:34	28° Ω 38'20	1000105	retrograde	14017 Sep 06 07:25	13° 2 08'52	
inferior conj	14016 Oct 03 13:57	25° £ 59'37		evening set	14017 Sep 08 14:14	12° 2 46'03	0000100
minimum elong	14016 Oct 03 11:14	26° £ 04'58		inferior conj	14017 Sep 15 15:21	7° £ 53'52	
min. Earth dist.	14016 Oct 06 19:34	23° Ω 28'21	0.57780 AU	minimum elong	14017 Sep 15 16:05	7° ≙ 52'14	0°21'54
morning rise	14016 Oct 11 00:12	20° Ω 46'36		desc. node	14017 Sep 16 20:06	6° Ω 47'54	
direct	14016 Oct 17 03:13	19° Ω 11'00		min. Earth dist.	14017 Sep 18 21:10	4° ≙ 57'39	0.59998 AU
morning max el	14016 Oct 31 10:31	26° Ω 44'16	27°02'20	morning rise	14017 Sep 22 14:40	2° ≏ 08'42	
	14016 Nov 03 13:29	0° M -		direct	14017 Sep 29 03:34	0° ≏ 06'15	
	14016 Nov 23 08:24	0° ∡		morning max el	14017 Oct 13 10:50	7° ≙ 57'28	27°49'13
asc. node	14016 Nov 24 04:29	1° ∡ ³35'51			14017 Oct 30 05:43	0° M ₊	
morning set	14016 Nov 30 13:17	14° ₹ 33'24		asc. node	14017 Nov 11 01:19	21°M12'01	
				morning set	14017 Nov 14 18:39	28° M .48'48	
superior conj	14016 Dec 07 09:39	29° ₹ 38'30	1°35'10		14017 Nov 15 08:09	0° ∡ ¹	
minimum elong	14016 Dec 07 08:38	29° ∡ 32'49		max. Earth dist.	14017 Nov 20 22:06	12° ∡ ¹09'25	1.31215 AU
max. Earth dist.	14016 Dec 07 14:14	0° る 04'08	1.31213 AU				
	14016 Dec 07 13:30	0°ಕ		superior conj	14017 Nov 21 20:58	14° ∡ 16'48	1°26'27
evening rise	14016 Dec 14 05:14	14° る 37'33		minimum elong	14017 Nov 21 19:09	14° ∡ °06'39	1°27'15
	14016 Dec 21 21:18	0° ≈		evening rise	14017 Nov 28 13:41	29° ∡ 04'51	
desc. node	14016 Dec 26 20:17	8° ≈ 47'57			14017 Nov 28 23:57	0°ಕ	
	14017 Jan 11 03:19	0°) €		desc. node	14017 Dec 13 17:15	27° る 32'07	
evening max el	14017 Jan 13 16:32		26°59'53		14017 Dec 15 08:03	0° ≈	
retrograde	14017 Jan 27 15:56	9°) 47′53		evening max el	14017 Dec 26 13:02	13° ≈ 45′29	25°54'32

retrograde	14018 Jan 09 11:24	20° ≈ 48′13		retrograde	14018 Dec 21 17:59	0° ≈ 57'45	
evening set	14018 Jan 15 15:02	19° ≈ 19'32		evening set	14018 Dec 26 21:51	29° る 59'21	
min. Earth dist.	14018 Jan 20 02:00	16° ≈ 42′10	0.57678 AU		14018 Dec 26 21:08	30°Ŗる	
inferior conj	14018 Jan 23 01:55	14° ≈ 35'34	-4°27'02	min. Earth dist.	14019 Jan 01 13:26	27° る 07'40	0.55902 AU
minimum elong	14018 Jan 23 10:48	14°≈19'53	4°23'38	inferior conj	14019 Jan 03 19:27	25° る 44'22	-5°33'20
morning rise	14018 Jan 31 09:27	10° ≈ 14'22		minimum elong	14019 Jan 04 02:28	25°₹33'32	
direct	14018 Feb 02 10:51	10°≈00'55		morning rise	14019 Jan 12 09:02	23° ろ 43'22	5 51 15
				=		21° る 27'59	
asc. node	14018 Feb 07 00:02	11°≈10'44	10044142	direct	14019 Jan 14 18:55		
morning max el	14018 Feb 11 02:16	14°≈14'39	18°44'43	asc. node	14019 Jan 24 21:23	26° る 20'47	
	14018 Feb 21 21:11	0° ∀		morning max el	14019 Jan 24 21:00	26° る 19'53	19°45'50
morning set	14018 Feb 27 06:34	10° ∺ 14'47			14019 Jan 28 03:53	0° ≈	
				morning set	14019 Feb 11 10:39	24° ≈ 47′08	
superior conj	14018 Mar 07 23:59	27° ₩ 05'12	0°30'26		14019 Feb 14 00:18	0° ∀	
minimum elong	14018 Mar 08 01:55	27°){ 14′17	0°30'16				
	14018 Mar 09 13:25	$0^{\circ}\mathbf{\Upsilon}$		superior conj	14019 Feb 19 07:54	10°) 41′51	0°57'19
desc. node	14018 Mar 11 18:37	4° Υ ′04'06		minimum elong	14019 Feb 19 10:36	10° ¥ 55'10	0°57'21
max. Earth dist.	14018 Mar 15 05:23	10° Y 13'34	1.39688 AU	max. Earth dist.	14019 Feb 25 11:49	22°) 31'45	1.37428 AU
evening rise	14018 Mar 19 05:10	17° Υ '05'32	1.57000110	desc. node	14019 Feb 26 15:08	24° H 37'45	1.07.20110
evening rise	14018 Mar 27 03:55	0° と			14019 Mar 01 05:03	29° X 17'16	
				evening rise		29 χ 1/16	
	14018 Apr 17 13:30	0°П			14019 Mar 01 14:41		
evening max el	14018 Apr 23 02:50	6° ∏ 07'44	24°04'51		14019 Mar 20 11:18	0°8	
retrograde	14018 May 04 07:29	12° Ⅱ 41'53		evening max el	14019 Apr 05 16:27	20° 8 01'36	25°21'44
asc. node	14018 May 05 20:33	12° Ⅱ 31'17		retrograde	14019 Apr 17 21:03	27° 8 04'58	
evening set	14018 May 09 16:53	10° Ⅱ 25'12		asc. node	14019 Apr 22 17:53	25° 8 25'11	
min. Earth dist.	14018 May 14 08:32	5° Ⅱ 01'45	0.68660 AU	evening set	14019 Apr 23 17:58	24° 8 38'35	
inferior conj	14018 May 15 03:52	3° Ⅱ 56′08	2°30'27	min. Earth dist.	14019 Apr 28 02:14	19° 8 51'14	0.67898 AU
minimum elong	14018 May 15 01:49	4° Ⅱ 03'05	2°29'05	inferior conj	14019 Apr 29 10:07	18° 8 07'58	1°56'02
Č	14018 May 18 05:58	30°R₩		minimum elong	14019 Apr 29 07:59	18° 8 14'53	1°54'41
morning rise	14018 May 20 10:49	27° 8 53'54		morning rise	14019 May 04 22:25	12° 8 15'01	
direct	14018 May 24 11:14	26° 8 22'07		direct	14019 May 08 11:16	11° 8 03'13	
direct	•	20 Ο 22 07			•	14° 8 50'51	19°11'06
	14018 May 31 10:59		20012120	morning max el	14019 May 15 10:09	_	19 11 00
morning max el	14018 Jun 01 05:34	0° ∏ 44'25	20°12'30	desc. node	14019 May 25 17:09	28° 8 00'36	
desc. node	14018 Jun 07 20:16	8° Ⅲ 31'40			14019 May 27 01:44	0°Щ	
	14018 Jun 22 18:08	0 \circ \odot		greatest brilliancy	14019 May 28 07:44	1° Ⅱ 51'15	-0.7m
morning set	14018 Jun 29 05:16	9° © 51'16		morning set	14019 Jun 08 09:07	18° Ⅱ 42'22	
max. Earth dist.	14018 Jul 08 23:38	25° 5 09'12	1.44205 AU		14019 Jun 15 16:13	0 \circ \odot	
	14018 Jul 12 00:04	0 $^{\circ}\Omega$		max. Earth dist.	14019 Jun 21 15:50	9° 5 20'38	1.45402 AU
superior conj	14018 Jul 14 20:23	4° Ω 37'58	-2°00'34	superior conj	14019 Jun 24 17:49	14°9511'55	-2°13'24
minimum elong	14018 Jul 15 03:05	5°Ω05'25		minimum elong	14019 Jun 24 19:12	14° © 17'26	
evening rise	14018 Jul 27 18:27	26° Ω 25'42		8	14019 Jul 04 14:37	0°N	
e vennig rise	14018 Jul 29 20:07	0° m)		evening rise	14019 Jul 09 08:59	7° Ω 46'50	
asc. node	14018 Aug 01 20:01	5°Mp08'30		asc. node	14019 Jul 19 16:44	24°Ω32'01	
	_		18°03'29	asc. Houe	14019 Jul 23 08:23	0°m)	
evening max el	14018 Aug 13 23:36	22° m 52'18	16 03 29				10010121
retrograde	14018 Aug 20 10:06	26° To 13'01		evening max el	14019 Jul 28 13:51	6° m 25'54	18°18'31
evening set	14018 Aug 23 01:13	25° TD 38'24		retrograde	14019 Aug 03 22:47	9° m 49'16	
inferior conj	14018 Aug 29 10:45	20° Mp 27'24	1°32'01	evening set	14019 Aug 06 22:32	9° m)00'12	
minimum elong	14018 Aug 29 13:00	20°m/21'32	1°31'00	inferior conj	14019 Aug 12 20:05	3°m/32'22	
min. Earth dist.	14018 Sep 01 08:06	17° m 28'08	0.62290 AU	minimum elong	14019 Aug 12 22:29	3° Mp 25'25	2°19'48
desc. node	14018 Sep 03 17:39	15° Mp 15'54		min. Earth dist.	14019 Aug 15 04:32	0° m ,49'31	0.64412 AU
morning rise	14018 Sep 04 22:26	14° m) 20'15			14019 Aug 15 22:32	30° ₽ Ω	
direct	14018 Sep 11 14:50	11° m 56'26		morning rise	14019 Aug 18 20:59	27° Ω 12'49	
morning max el	14018 Sep 25 17:15	19° m 56'31	27°57'00	desc. node	14019 Aug 21 15:09	25° Ω 28′13	
Ü	14018 Oct 04 08:08	0∘ ⊽		direct	14019 Aug 25 10:48	24° Ω 36′28	
	14018 Oct 23 05:20	0° ™		uncor	14019 Sep 05 09:38	0°m)	
asc. node	14018 Oct 28 22:04	11°M02'54		morning max el	14019 Sep 08 03:19	2° m/34'40	27°28'40
morning set	14018 Oct 28 22:04 14018 Oct 29 17:55	12°M43'50		morning max ci	14019 Sep 08 03.19 14019 Sep 28 15:48	2 1 1/ 3440	21 20 70
•			1 21760 411		•		
max. Earth dist.	14018 Nov 04 02:17	24°M01'31	1.31760 AU	morning set	14019 Oct 13 08:37	26° £ 12'51	
				_	14019 Oct 15 06:10	0°M	
superior conj	14018 Nov 06 06:15	28°M45'32	1°11'57	asc. node	14019 Oct 15 18:43	1°ML03'37	
minimum elong	14018 Nov 06 04:00	28°M33'07	1°12'27	max. Earth dist.	14019 Oct 17 23:22	5°M34'23	1.32851 AU
	14018 Nov 06 19:47	0° ∡ ¹					
evening rise	14018 Nov 13 00:20	13° ∡ ³35'51		superior conj	14019 Oct 21 11:27	12°M59'18	0°51'42
	14018 Nov 21 02:45	ರ°0		minimum elong	14019 Oct 21 09:17	12° M 47'42	0°51'57
desc. node	14018 Nov 30 14:20	15° る 23'30		evening rise	14019 Oct 28 11:21	28°ML06'02	
evening max el			24°22'49	-		0° ∡ ¹	
	14018 Dec 08 01:46	24.008.38	Z4 ZZ 49		14019 Oct 29 08:46	U 🗡	
	14018 Dec 08 01:46 14018 Dec 16 17:01	24° 0 0838 0° ≈	24 22 49		14019 Oct 29 08:46 14019 Nov 15 17:24	0° ਠ	

desc. node	14019 Nov 17 11:31	2° ප 02'54		evening max el	14020 Oct 31 04:37	14° ∡ ¹22'19	21°04'34
evening max el	14019 Nov 19 11:45	4°る08'30	22°40'13	desc. node	14020 Nov 03 08:47	17° × 06'02	21 0434
retrograde	14019 Dec 02 11:32	10° ට 35'06		retrograde	14020 Nov 11 22:26	20° ∡ 12'22	
evening set	14019 Dec 06 07:23	10° ට 03'08		evening set	14020 Nov 14 12:23	19° ∡ 756'38	
min. Earth dist.	14019 Dec 13 20:02	6° る 38'20	0.54769 AU	inferior conj	14020 Nov 23 10:06	16° ∡ 03'24	-5°23'48
inferior conj	14019 Dec 14 18:48	6° ප 06'07	-5°58'11	minimum elong	14020 Nov 23 01:30	16° ∡ 15'35	5°21'10
minimum elong	14019 Dec 14 18:07	6° る 07'05	5°57'07	min. Earth dist.	14020 Nov 24 01:51	15° ∡ ¹41'06	0.54500 AU
morning rise	14019 Dec 23 06:09	2° ට 18'15		morning rise	14020 Dec 01 15:03	12° ∡ 11'53	
direct	14019 Dec 26 09:51	1° る 55'29		direct	14020 Dec 05 17:14	11° ∡ ³35'58	
morning max el	14020 Jan 07 01:15	7° る 29'52	21°10'00	morning max el	14020 Dec 18 16:38	17° ∡ 751'57	22°52'46
asc. node	14020 Jan 11 18:40	12° る 51'54		1	14020 Dec 28 08:57	0°る	
	14020 Jan 22 02:57	0°≈ 0°≈ •20110		asc. node	14020 Dec 28 15:51	0°る26'55 24°る15'05	
morning set	14020 Jan 26 19:27	9° ≈ 29'19		morning set	14021 Jan 10 06:45 14021 Jan 12 23:04	24° ⊘ 15'05 0°≈	
superior conj	14020 Feb 03 02:52	24° ≈ 47'17	1°17'13		14021 Juli 12 23.04	0 ~	
minimum elong	14020 Feb 03 05:20	25°≈00'03	1°17'38	superior conj	14021 Jan 17 05:36	9° ≈ 12'41	1°30'20
Z .	14020 Feb 05 16:03	0° ∀		minimum elong	14021 Jan 17 07:17	9° ≈ 21'41	1°31'06
max. Earth dist.	14020 Feb 07 21:40	4°) €27'28	1.35331 AU	max. Earth dist.	14021 Jan 20 14:19	16° ≈ 18'58	1.33576 AU
evening rise	14020 Feb 11 22:08	12°) 11′06		evening rise	14021 Jan 25 04:57	25° ≈ 38'41	
desc. node	14020 Feb 13 11:40	15°) €05'12		-	14021 Jan 27 11:01	0°) €	
	14020 Feb 22 02:01	0° Υ		desc. node	14021 Jan 30 08:17	5° ¥ 22'31	
	14020 Mar 14 14:17	0° 8			14021 Feb 14 12:22	0° Υ	
evening max el	14020 Mar 18 06:11	3° 8 50'07	26°27'03	evening max el	14021 Feb 28 19:36	17° Ƴ 24'19	27°13'23
retrograde	14020 Mar 31 05:24	11° 8 11'19		retrograde	14021 Mar 14 07:45	24° Ƴ 52'49	
evening set	14020 Apr 06 12:54	8° 8 39'33		evening set	14021 Mar 20 23:44	22° Y 21′29	
asc. node	14020 Apr 08 15:17	6° 8 41'45		min. Earth dist.	14021 Mar 24 21:04	18° Ƴ 41'58	0.65112 AU
min. Earth dist.	14020 Apr 10 15:04	4° 8 27'16	0.66703 AU	asc. node	14021 Mar 26 12:43	16° Y 52'25	
inferior conj	14020 Apr 12 11:33	2° 8 12'40	1°10'37	inferior conj	14021 Mar 27 05:46	16° Y 04'46	0°13'34
minimum elong	14020 Apr 12 09:54	2° 8 17'39	1°09'34	minimum elong	14021 Mar 27 05:24	16° Y 05'50	0°13'13
	14020 Apr 14 08:38	30° ₹ Υ		transit middle	14021 Mar 27 05:24	16° ℃ 05'50	0°13'13
morning rise	14020 Apr 18 07:53	26° Y 30'46		transit begin	14021 Mar 27 03:41	16° Y 10'35	
direct	14020 Apr 21 10:07	25° Y 37'04	10025151	transit end	14021 Mar 27 07:06	16° ℃ 01'05	
morning max el	14020 Apr 27 21:29 14020 Apr 28 19:47	29° Y 03'11 0° ႘	18°25'51	morning rise direct	14021 Apr 02 12:48	10° Y 35'54 9° Y 57'27	
desc. node	14020 Apr 28 19.47 14020 May 11 13:55	17° 8 53'52		morning max el	14021 Apr 05 05:31 14021 Apr 11 13:27	9 γ 3/2/ 13° Υ 14'40	17°57'27
morning set	14020 May 11 13.33	28° 8 30'36		morning max er	14021 Apr 11 13.27 14021 Apr 23 12:20	0° 8	1/3/2/
morning set	14020 May 19 06:07	0° I		desc. node	14021 Apr 28 10:36	8° 8 04'43	
	11020 May 17 00.07	· -		morning set	14021 Apr 29 09:45	9° 8 40'04	
superior conj	14020 Jun 03 02:24	23° Ⅱ 17'54	-2°06'36	morning sec	14021 May 11 22:31	0°II	
minimum elong	14020 Jun 02 20:13	22° Ⅱ 53'45	2°07'20		,		
max. Earth dist.	14020 Jun 03 11:34	23° Ⅱ 53'39	1.45876 AU	superior conj	14021 May 13 15:22	2° Ⅱ 42'07	-1°41'08
	14020 Jun 07 09:28	0ಂತ		minimum elong	14021 May 13 06:20	2° I 106'20	1°41'08
evening rise	14020 Jun 18 22:47	18° 5 06'27		max. Earth dist.	14021 May 17 07:39	8° Ⅱ 29'52	1.45596 AU
	14020 Jun 26 12:33	$0^{\circ}\Omega$		evening rise	14021 May 29 16:28	27° Ⅱ 40′04	
greatest brilliancy	14020 Jun 28 04:58	2° Ω 36'57	-0.8m		14021 May 31 04:57	0 \circ \odot	
asc. node	14020 Jul 05 13:31	13° Ω 30'32		greatest brilliancy	14021 Jun 12 15:07	18° 9 544'58	-0.6m
evening max el	14020 Jul 11 01:20	20° Ω 09'34	18°51'05		14021 Jun 20 19:33	$0 ^{\circ} \Omega$	
retrograde	14020 Jul 17 17:41	23° Ω 49'01		asc. node	14021 Jun 22 10:23	1° Ω 55'29	
evening set	14020 Jul 21 02:22	22° Ω 43'54		evening max el	14021 Jun 24 07:56	3° Ω 57'44	19°40'05
inferior conj	14020 Jul 26 15:35	17° Ω 01'07	2°51'58	retrograde	14021 Jul 01 15:47	8° Ω 05'36	
minimum elong	14020 Jul 26 17:21	16° £ 55'31	2°50'52	evening set	14021 Jul 05 09:57	6° Ω 43'37	2000100
min. Earth dist.	14020 Jul 28 09:40	14° Ω 48'50	0.66201 AU	inferior conj	14021 Jul 10 18:07	0° Ω 47'29	3°08'00
morning rise direct	14020 Aug 01 07:32	10° Ω 36'35 7° Ω 57'10		minimum elong	14021 Jul 10 18:56 14021 Jul 11 08:19	0° № 44'45 30°R©	3°06'59
desc. node	14020 Aug 07 14:12 14020 Aug 07 12:36	$7^{\circ}\Omega_{57'11}$		min. Earth dist.	14021 Jul 11 08.19	୬୦ ୯ଛ 29°©14'51	0.67577 AU
morning max el	14020 Aug 07 12:30	15° Ω 40'50	26°31'13	morning rise	14021 Jul 16 03:29	24°923'19	0.07377 AU
morning max ci	14020 Aug 20 14.40 14020 Sep 01 09:56	0°M)	20 3113	direct	14021 Jul 22 00:03	24 3 23 19 21° 9 49'22	
	14020 Sep 20 11:31	0∘ ⊽		desc. node	14021 Jul 25 10:00	22°933'06	
morning set	14020 Sep 25 11:31 14020 Sep 25 11:40	ი – 9° ჲ 08'44		morning max el	14021 Aug 03 01:30	29° 9 03'11	25°13'32
max. Earth dist.	14020 Sep 29 10:54	16° ≏ 48'01	1.34460 AU		14021 Aug 03 23:30	0° Ω	
asc. node	14020 Oct 01 15:19	21° Ω 09'50			14021 Aug 26 04:53	0° m)	
				morning set	14021 Sep 07 23:09	21° mp 21'29	
superior conj	14020 Oct 04 10:10	26° £ 51′58	0°25'56	max. Earth dist.	14021 Sep 11 13:03	27° m/53'20	1.36515 AU
minimum elong	14020 Oct 04 08:48	26° ≏ 44'54	0°26'03		14021 Sep 12 16:07	0∘ ⊽	
-	14020 Oct 05 22:17	0°M					
evening rise	14020 Oct 11 20:48	12°M30'22		superior conj	14021 Sep 17 23:27	10° ≏ 15'33	-0°04'49
	14020 Oct 20 19:33	0° ∡ ¹		minimum elong	14021 Sep 17 23:45	10° ≙ 17'01	0°04'40

behind sun begin	14021 Sep 17 17:35	9° ≏ 46'28		superior conj	14022 Aug 31 23:48	23° m 02'21	
behind sun end	14021 Sep 18 05:56	10° ≏ 47'39		minimum elong	14022 Sep 01 02:37	23° m 15'33	0°38'51
asc. node	14021 Sep 18 11:52	11° ≏ 17'08			14022 Sep 04 15:23	0∘ ⊽	
evening rise	14021 Sep 26 02:27	26° ≏ 42'14		asc. node	14022 Sep 05 08:25	1° ≏ 22'26	
	14021 Sep 27 17:35	o° m ₊		evening rise	14022 Sep 10 01:41	10° ≏ 35'24	
evening max el	14021 Oct 13 11:08	25° ™ 18'14	19°47'07		14022 Sep 20 18:58	0° M	
	14021 Oct 20 21:09	0° ∡ ¹		evening max el	14022 Sep 26 07:26	7° IL 03'43	18°51'25
desc. node	14021 Oct 21 06:10	0° ∡ ¹05'29		retrograde	14022 Oct 04 20:36	11°M21'29	
retrograde	14021 Oct 23 13:52	0° ∡ ¹20'57		evening set	14022 Oct 06 17:50	11° M .09'46	
evening set	14021 Oct 25 12:22	0° ∡ 10'41		desc. node	14022 Oct 08 03:36	10°M46'34	
S	14021 Oct 26 08:44	30°RML		inferior conj	14022 Oct 14 23:26	6°M50'24	-2°10'00
inferior conj	14021 Nov 03 07:51	26°M09'04	-3°57'50	minimum elong	14022 Oct 14 18:00	7° ጤ 00'07	
minimum elong	14021 Nov 02 22:16	26°M23'54		min. Earth dist.	14022 Oct 17 23:36	4°M41'58	0.56666 AU
min. Earth dist.	14021 Nov 05 10:18	24°M50'59		morning rise	14022 Oct 22 15:00	1°M58'57	0.50000110
morning rise	14021 Nov 11 06:33	21°M53'24	0.55171710	direct	14022 Oct 28 09:56	0°M38'38	
direct	14021 Nov 16 06:44	20°M58'03		morning max el	14022 Nov 11 14:36	7°M58'40	26°18'40
morning max el	14021 Nov 30 02:17	27°M50'10	24°41'46	morning max cr	14022 Nov 28 00:50	0° ∡ 7	20 10 40
morning max cr	14021 Nov 30 02:17	27 IIC30 10 0° √ 7	24 41 40	asc. node	14022 Nov 28 00:50	0 ≯ 7° ₹ ¹48'26	
						23°×734'28	
asc. node	14021 Dec 15 12:57	18° ₹ 49'46		morning set	14022 Dec 10 05:24		
	14021 Dec 21 11:19	0°る。			14022 Dec 13 04:07	0°₹	
morning set	14021 Dec 25 18:38	8° る 58'20			14000 0 15 00 05	00-70-110-1	1005100
				superior conj	14022 Dec 17 00:07		1°37'33
superior conj	14022 Jan 01 13:25	23° ⋜ 49'34		minimum elong	14022 Dec 16 23:40	8° ろ 29'02	
minimum elong	14022 Jan 01 14:03	23° る 53'02		max. Earth dist.	14022 Dec 17 20:14	10° පි 23'26	1.31454 AU
max. Earth dist.	14022 Jan 03 14:23	28° る 16'50	1.32267 AU	evening rise	14022 Dec 23 23:14	23° る 42'23	
	14022 Jan 04 09:29	0° ≈			14022 Dec 27 00:40	0° ≈	
evening rise	14022 Jan 08 22:14	9° ≈ 31'21		desc. node	14023 Jan 04 01:44	15° ≈ 02'50	
desc. node	14022 Jan 17 04:58	25° ≈ 23'55			14023 Jan 13 14:55	0° ∀	
	14022 Jan 19 20:04	0° ∀		evening max el	14023 Jan 24 15:28	13°) €04'16	27°22'20
	14022 Feb 10 17:45	0° Y		retrograde	14023 Feb 07 14:39	20° ∺ 22'55	
evening max el	14022 Feb 11 07:24	0° Ƴ 33'03	27°33'48	evening set	14023 Feb 14 10:54	18° 升 15′13	
retrograde	14022 Feb 25 03:20	7° Ƴ 59'53		min. Earth dist.	14023 Feb 18 05:55	15° ∺ 26′20	0.61057 AU
evening set	14022 Mar 04 00:03	5° Y 36'22		inferior conj	14023 Feb 21 08:48	12°) 41′43	-2°14'48
min. Earth dist.	14022 Mar 07 18:28	2° Y 25'30	0.63191 AU	minimum elong	14023 Feb 21 13:38	12°) €31'03	2°12'29
	14022 Mar 10 04:56	30°₽ ℋ		asc. node	14023 Feb 28 07:42	7° ¥ 56′00	
inferior conj	14022 Mar 10 13:58	29°) 37′20	-0°55'21	morning rise	14023 Feb 28 19:28	7°) 46′30	
minimum elong	14022 Mar 10 15:47	29°) 32′48	0°54'30	direct	14023 Mar 02 22:18	7°) €27'43	
asc. node	14022 Mar 13 10:12	26°) 56′16		morning max el	14023 Mar 09 23:28	11° ¥ 00′23	17°53'26
morning rise	14022 Mar 17 10:03	24°) €23'55		Ü	14023 Mar 22 14:35	0° Υ	
direct	14022 Mar 19 18:45	23°) 57′09		morning set	14023 Mar 25 14:14	5° Y ′23'23	
morning max el	14022 Mar 26 07:13	27°) € 16'53	17°46'25	desc. node	14023 Apr 02 03:46	18° Y ′58'40	
	14022 Mar 28 17:45	0°Υ					
morning set	14022 Apr 11 14:01	22°Υ03'53		superior conj	14023 Apr 05 06:55	24° Y 26'38	-0°24'44
desc. node	14022 Apr 15 07:13	28° Y 27'54		minimum elong	14023 Apr 05 04:41	24°Υ16'59	
desc. node	14022 Apr 16 04:45	0°8		minimum crong	14023 Apr 08 13:01	0°8	0 21 12
	14022 11p1 10 04.43	٠ ٠		max. Earth dist.	14023 Apr 12 16:10	6° 8 52'09	1.43005 AU
superior conj	14022 Apr 23 23:10	13° 8 01'17	1004'22	evening rise	14023 Apr 18 23:48	17° 8 00'35	1.43003 AC
minimum elong	14022 Apr 23 16:47	12° 8 35'02		evening rise	14023 Apr 27 11:03	0°II	
max. Earth dist.	14022 Apr 30 01:39		1.44602 AU		14023 May 19 14:37	0°©	
max. Lartii dist.	14022 Apr 30 01:35	0°Ⅱ	1.44002 AO	evening max el	14023 May 21 04:13	1°538'13	21057156
avanina riaa	14022 May 04 13:43	7° Ⅱ 05'02		asc. node		6°9516'42	21 3/30
evening rise	•	7 11 03 02			14023 May 27 04:31	7°907'20	
	14022 May 24 12:15		20942120	retrograde	14023 May 30 12:48		
evening max el	14022 Jun 07 08:47	17°5947'47	20-43-30	evening set	14023 Jun 04 04:08	5°512'15	
asc. node	14022 Jun 09 07:23	19° © 35'53			14023 Jun 08 15:31	30°RⅡ	2002120
retrograde	14022 Jun 15 14:46	22°533'40		inferior conj	14023 Jun 09 10:27	28° I I54'09	
evening set	14022 Jun 19 19:08	20°554'49		minimum elong	14023 Jun 09 09:21	28° Ⅱ 57'59	
inferior conj	14022 Jun 25 01:09	14° © 46'51	3°11'24	min. Earth dist.	14023 Jun 09 11:11	28° ∏ 51'34	0.68936 AU
minimum elong	14022 Jun 25 00:57	14°5547'30		morning rise	14023 Jun 14 14:22	22° Ⅲ 39'56	
min. Earth dist.	14022 Jun 25 15:08	13° © 58'31	0.68495 AU	direct	14023 Jun 19 10:33	20° Ⅱ 36'06	
morning rise	14022 Jun 30 06:29	8°526'32		morning max el	14023 Jun 29 00:03	26° Ⅱ 13'23	22°16'39
direct	14022 Jul 05 15:15	6° © 05'09		desc. node	14023 Jun 29 04:31	26° ∏ 24'40	
desc. node	14022 Jul 12 07:18	8° © 50'56			14023 Jul 02 11:10	0	
morning max el	14022 Jul 16 11:54	12° © 34'37	23°45'35		14023 Jul 24 00:34	0 $^{\circ}$ Ω	
	14022 Jul 30 12:21	0 ° Ω		morning set	14023 Aug 01 06:05	12° Ω 56′16	
	14022 Aug 19 00:30	0° ™		max. Earth dist.	14023 Aug 06 11:09	21° Q 31'00	1.41181 AU
morning set	14022 Aug 20 14:39	2° m 40'47			14023 Aug 11 10:17	0° m	
max. Earth dist.	14022 Aug 24 10:48	9° ™ 18'42	1.38843 AU				

superior conj	14023 Aug 14 06:52	5° Mp 01'54	-1°14'25	superior conj	14024 Jul 25 16:18	16° Ω 04'34	-1°46'17
minimum elong	14023 Aug 14 12:33	5°Mp27'11	1°14'09	minimum elong	14024 Jul 25 23:39	16°Ω35'34	
asc. node	14023 Aug 23 04:59	21° m) 21'39	1 140)	minimum clong	14024 Aug 02 18:08	0° m)	1 40 22
evening rise	14023 Aug 24 15:04	24° m/00'48		evening rise	14024 Aug 06 14:15	6° Mp 47'37	
evening rise	14023 Aug 27 20:23	ე° Ω		asc. node	14024 Aug 09 01:35	11° Mp 10'52	
evening max el	14023 Sep 09 13:53	19° ₽ 31'52	18°17'10	use. Houe	14024 Aug 20 19:50	0° ⊽	
retrograde	14023 Sep 16 22:47	23° Ω 16'28	10 1, 10	evening max el	14024 Aug 23 02:14	2° م 32'34	18°02'59
evening set	14023 Sep 19 01:29	22° Ω 58'42		retrograde	14024 Aug 29 18:00	5° Ω 58'14	10 020)
desc. node	14023 Sep 25 01:06	19° Ω 31'15		evening set	14024 Sep 01 04:18	5° Ω 30'44	
inferior conj	14023 Sep 26 12:48	18° ≏ 18'02	-0°28'07	inferior conj	14024 Sep 07 22:21	0° £ 29'53	0°54'28
minimum elong	14023 Sep 26 11:47	18° Ω 20'11	0°27'28	minimum elong	14024 Sep 07 23:56	0° £ 26'03	0°53'48
min. Earth dist.	14023 Sep 29 19:51	15° Ω 33'46	0.58706 AU		14024 Sep 08 10:39	30°R, M)	
morning rise	14023 Oct 03 18:39	12° ≏ 50'38		desc. node	14024 Sep 10 22:39	27° m) 35'52	
direct	14023 Oct 10 02:52	11° Ω 03'17		min. Earth dist.	14024 Sep 11 01:10	27° m) 30'04	0.60980 AU
morning max el	14023 Oct 24 10:17	18° ≏ 44'12	27°26'56	morning rise	14024 Sep 14 16:42	24° m) 34'05	
Ü	14023 Nov 02 22:34	0°M₊		direct	14024 Sep 21 07:44	22° m) 22'01	
asc. node	14023 Nov 19 06:52	27°M13'20			14024 Oct 05 06:26	0∘ <u>v</u>	
	14023 Nov 20 16:33	0° ⊼		morning max el	14024 Oct 05 13:35	0° £ 17'33	27°57'21
morning set	14023 Nov 24 13:19	7° ∡ 59'04			14024 Oct 27 01:25	0°M₊	
3				asc. node	14024 Nov 05 03:38	16°M56'30	
superior conj	14023 Dec 01 11:46	23° х 12′56	1°32'11	morning set	14024 Nov 07 16:21	22°M06'35	
minimum elong	14023 Dec 01 10:22	23° х 05′09	1°33'07	. 8	14024 Nov 11 09:22	0° ∡ 7	
max. Earth dist.	14023 Dec 01 04:37	22° ₹ 32'59	1.31154 AU	max. Earth dist.	14024 Nov 13 11:37	4° ∡ °35'00	1.31384 AU
	14023 Dec 04 12:43	0°る					
evening rise	14023 Dec 08 05:36	8° る 05'48		superior conj	14024 Nov 14 22:25	7° ∡ ¹47'41	1°21'01
S	14023 Dec 19 11:09	0° ≈		minimum elong	14024 Nov 14 20:22	7° ∡ ³36'15	1°21'41
desc. node	14023 Dec 21 22:37	4° ≈ 10'36		evening rise	14024 Nov 21 15:14	22° ₹ 35'23	
evening max el	14024 Jan 06 16:59	24°≈46'56	26°36'03	* · · · · · · · · · · · · · · · · · · ·	14024 Nov 25 03:32	0°る	
8	14024 Jan 13 16:26	0° ∀		desc. node	14024 Dec 07 19:37	22° る 34'29	
retrograde	14024 Jan 20 16:04	1°) 54'59			14024 Dec 13 06:42	0° ≈	
evening set	14024 Jan 27 04:40	0°) 10′23		evening max el	14024 Dec 18 09:51	5° ≈ 35'44	25°17'53
8	14024 Jan 27 12:28	30°R≈		retrograde	14025 Jan 01 06:02	12° ≈ 32'58	
min. Earth dist.	14024 Jan 31 06:45	27° ≈ 33'09	0.58874 AU	evening set	14025 Jan 07 01:10	11° ≈ 16'49	
inferior conj	14024 Feb 03 10:39	25°≈08'14		min. Earth dist.	14025 Jan 11 21:59	8° ≈ 35'58	0.56866 AU
minimum elong	14024 Feb 03 18:32	24°≈53'07	3°36'22	inferior conj	14025 Jan 14 16:13	6° ≈ 46'16	
morning rise	14024 Feb 11 11:30	20° ≈ 34'08		minimum elong	14025 Jan 15 01:01	6° ≈ 31'41	4°55'34
direct	14024 Feb 13 12:02	20°≈19'41		morning rise	14025 Jan 23 03:23	2° ≈ 34'25	
asc. node	14024 Feb 15 05:11	20° ≈ 30'30		direct	14025 Jan 25 07:25	2°≈20'40	
morning max el	14024 Feb 21 10:37	24°≈15'16	18°19'56	asc. node	14025 Feb 01 02:35	4°≈46'24	
	14024 Feb 26 03:06	0° ∀		morning max el	14025 Feb 03 12:33	6°≈49'10	19°07'54
morning set	14024 Mar 08 04:39	19° ¥ 21'39		<i>S</i>	14025 Feb 18 07:09	0° ∀	
3	14024 Mar 13 19:29	0°Υ		morning set	14025 Feb 20 04:42	3°) 44'12	
						,,,,,,,	
superior conj	14024 Mar 17 12:54	6° Y 53′21	0°11'55	superior conj	14025 Feb 28 12:40	20°) €08'08	0°42'40
minimum elong	14024 Mar 17 13:46	6° Y 57'18	0°11'44	minimum elong	14025 Feb 28 15:05	20° ¥ 19'41	0°42'34
behind sun begin	14024 Mar 17 08:46	6° Ƴ 34'28		desc. node	14025 Mar 05 20:46	0° Υ '08'29	
behind sun end	14024 Mar 17 18:47	7° Υ 20'06		dese. node	14025 Mar 05 18:55	0°Υ	
desc. node	14024 Mar 19 00:17	9° Y 33'36		max. Earth dist.	14025 Mar 07 09:04	2° Y ′52'41	1.38721 AU
max. Earth dist.	14024 Mar 25 02:24	20° Y 14′00	1.40973 AU	evening rise	14025 Mar 11 03:28	9° Υ '30'31	
evening rise	14024 Mar 29 15:05	27° Y '48'24		<i>3</i> -	14025 Mar 23 19:44	0°8	
	14024 Mar 30 23:22	0°8		evening max el	14025 Apr 15 09:20	29° 8 22'16	24°38'26
	14024 Apr 20 01:27	0°II		<i>3</i>	14025 Apr 16 00:50	0°П	
evening max el	14024 May 02 19:44	15° Ⅱ 29'47	23°18'17	retrograde	14025 Apr 27 00:37	6° Ⅱ 10′22	
retrograde	14024 May 13 08:27	21° I I41'36		asc. node	14025 Apr 29 23:02	5° ∏ 32'48	
asc. node	14024 May 13 01:44	21° I [41'14		evening set	14025 May 02 15:05	3° ∏ 48'47	
evening set	14024 May 18 11:19	19° Ⅲ 31'53		evening sec	14025 May 06 03:04	30°R₩	
inferior conj	14024 May 23 20:04	13° Д 05'58	2°45'32	min. Earth dist.	14025 May 07 03:19	28° 8 41'03	0.68391 AU
minimum elong	14024 May 23 18:17	13° Ⅱ 12'09	2°44'13	inferior conj	14025 May 08 04:05	27° 8 18'26	
min. Earth dist.	14024 May 23 07:57	13° I I47'46	0.68900 AU	minimum elong	14025 May 08 04:05	27° 8 25'35	
morning rise	14024 May 29 01:10	6° П 59'13	3.00700 AU	morning rise	14025 May 13 13:00	21° 8 20'14	2 13 70
direct	14024 Jun 02 08:41	5° П 15'36		direct	14025 May 17 08:20	19° 8 57'17	
morning max el	14024 Jun 10 17:13	10° П 02'32	20°54'30	morning max el	14025 May 24 17:32	24° 8 03'13	19°44'32
desc. node	14024 Jun 15 01:37	10 П 02 32 14° П 54'14	20 J T JU	morning max ci	14025 May 29 21:21	0°Ⅱ	17 77 34
desc. Houc	14024 Jun 26 04:16	14 п 34 14		desc. node	14025 Jun 01 22:35	0 П 4°П04'33	
morning set	14024 Jul 10 21:40	22°9510'26		greatest brilliancy	14025 Jun 06 13:36	10° ∏ 39'46	-0.6m
morning set	14024 Jul 15 20:51	0°Ω		greatest brilliancy	14025 Jun 19 09:59	10 Д3946 0°©	-0.0111
max. Earth dist.	14024 Jul 15 20:51 14024 Jul 18 17:59	0°37 4° Ω 37'46	1.43241 AU	morning set	14025 Jun 19 09:59 14025 Jun 19 23:55	0°953'28	
max. Darm uist.	17027 Jul 10 17.39	7 063/40	1.73271 AU	morning set	17023 Juli 17 23.33	U -33348	

max. Earth dist.	14025 Jul 01 07:02	18° © 29'01	1.44790 AU	superior conj	14026 Jun 15 16:06	5°524'18	
	14025 Il 06 01.56	26° © 07'24	2000110	minimum elong	14026 Jun 15 14:07	5°516'32 29°537'02	2 14 04
superior conj	14025 Jul 06 01:56			evening rise	14026 Jun 30 22:03		
minimum elong	14025 Jul 06 07:02		2°08'56		14026 Jul 01 03:46	0°N	
	14025 Jul 08 11:28	0° N		asc. node	14026 Jul 13 18:58	19° Ω 59'08	10020122
evening rise	14025 Jul 19 18:07	18° Ω 43'13		evening max el	14026 Jul 21 06:03	29° Ω 34'51	18°30'22
	14025 Jul 26 11:12	0° m			14026 Jul 21 16:28	0° m	
asc. node	14025 Jul 26 22:14	0° Mp 45'30		retrograde	14026 Jul 27 17:15	3° m 03'38	
evening max el	14025 Aug 06 16:43	15° m 56'33	18°07'41	evening set	14026 Jul 30 20:39	2°m/08'05	
retrograde	14025 Aug 13 01:34	19° m 17'08			14026 Aug 02 12:50	30°R Ω	
evening set	14025 Aug 15 20:13	18° m 36'46		inferior conj	14026 Aug 05 14:15	26° Ω 33'57	2°36'07
inferior conj	14025 Aug 22 00:12	13° m) 18'19	1°55'10	minimum elong	14026 Aug 05 16:27	26° Ω 27'19	2°34'57
minimum elong	14025 Aug 22 02:39	13° m)11'37	1°54'01	min. Earth dist.	14026 Aug 07 16:46	24° Ω 02'19	0.65213 AU
min. Earth dist.	14025 Aug 24 16:22	10° m 23'47	0.63214 AU	morning rise	14026 Aug 11 11:03	20° Ω 11′22	
morning rise	14025 Aug 28 07:05	7° m 04′28		desc. node	14026 Aug 15 17:41	17° Ω 49'45	
desc. node	14025 Aug 28 20:10	6° Mp 40′44		direct	14026 Aug 17 22:21	17° Ω 32'13	
direct	14025 Sep 03 22:50	4° Mg 34'14		morning max el	14026 Aug 31 08:57	25° Ω 26′52	27°07'17
morning max el	14025 Sep 17 22:09	12° m 35'45	27°49'08		14026 Sep 04 12:59	0° m)	
	14025 Oct 01 20:03	0∘ 亚			14026 Sep 25 08:20	0∘ ত	
	14025 Oct 19 13:01	0° M ₊		morning set	14026 Oct 05 22:30	19° ≙ 07'54	
morning set	14025 Oct 22 12:21	5°M52'01		asc. node	14026 Oct 09 20:55	26° ♀ 55'52	
asc. node	14025 Oct 23 00:18	6°M52′27		max. Earth dist.	14026 Oct 10 06:09	27° ₽ 42'49	1.33470 AU
max. Earth dist.	14025 Oct 27 13:18	16°M20'27	1.32156 AU		14026 Oct 11 08:55	0° M .	
superior conj	14025 Oct 30 06:14	22°M11'03	1°04'04	superior conj	14026 Oct 14 08:58	6°M16'33	0°41'26
minimum elong	14025 Oct 30 03:56	21°M58'33	1°04'28	minimum elong	14026 Oct 14 07:03	6°M₀06′23	0°41'37
	14025 Nov 02 19:51	0° ∡ ¹		evening rise	14026 Oct 21 12:48	21°M34'43	
evening rise	14025 Nov 06 02:16	7° ∡ ¹06'48		C	14026 Oct 25 14:20	0° ∡ ¹	
C	14025 Nov 17 21:48	0°రె		evening max el	14026 Nov 11 08:01	25° ∡ ¹45'48	21°57'54
desc. node	14025 Nov 24 16:43	9° ප 58'18		desc. node	14026 Nov 11 13:55	26° ₹ '00'09	
evening max el	14025 Nov 29 20:12	15° ⋜ 44'26	23°39'19		14026 Nov 16 19:32	0°ਤ	
retrograde	14025 Dec 13 07:17	22° පි 26'06		retrograde	14026 Nov 23 20:59	1° る 58'32	
evening set	14025 Dec 17 22:05	21° る 39'43		evening set	14026 Nov 27 02:40	1° る 35'10	
min. Earth dist.	14025 Dec 24 06:56	18° පි 36'05	0.55328 AU	C	14026 Dec 01 11:19	30°R. ✓	
inferior conj	14025 Dec 26 01:16	17° る 33'34		inferior conj	14026 Dec 05 19:36	27° х 41'35	-5°51'07
minimum elong	14025 Dec 26 05:37	17° る 27'08		minimum elong	14026 Dec 05 15:00	27° × ⁷ 48'01	5°49'39
morning rise	14026 Jan 03 14:53	13° る 39'44	2 .020	min. Earth dist.	14026 Dec 05 13:08	27°×7'50'37	0.54542 AU
direct	14026 Jan 06 07:03	13° る 22'07		morning rise	14026 Dec 14 04:16	23° x 54'11	0.0 .0 .2 .10
morning max el	14026 Jan 17 01:25	18° る 31'47	20°18'54	direct	14026 Dec 17 17:15	23°×7'26'30	
asc. node	14026 Jan 18 23:54	20° පි 33'06	20 1001	morning max el	14026 Dec 29 23:40	29° × 19'46	21°51'52
use. Hous	14026 Jan 25 18:20	0° ≈		morning man er	14026 Dec 30 16:11	0°ਰ	21 0102
morning set	14026 Feb 04 11:03	18° ≈ 21'18		asc. node	14027 Jan 05 21:08	~ ろ 33'28	
morning sec	14026 Feb 10 02:49	0° \ €		use. Houe	14027 Jan 18 09:36	0°≈	
	1.020100 10 02.19	٠,٨		morning set	14027 Jan 19 21:10	3° ≈ 05'41	
superior conj	14026 Feb 12 01:45	3° ¥ 58'23	1°06'35	morning sec	11027 0411 19 21:10	3 1000 11	
minimum elong	14026 Feb 12 04:27	4°) 11′58	1°06'47	superior conj	14027 Jan 27 00:24	18° ≈ 13'31	1°23'35
max. Earth dist.	14026 Feb 17 15:58	14° ¥ 57'06	1.36503 AU	minimum elong	14027 Jan 27 02:35	18° ≈ 24'59	1°24'09
desc. node	14026 Feb 20 17:17	20°) 39′50		max. Earth dist.	14027 Jan 31 04:13	26° ≈ 48'12	1.34537 AU
evening rise	14026 Feb 21 11:05	22° H 01'08			14027 Feb 01 18:35	0° ₩	
	14026 Feb 25 23:21	0° Υ		evening rise	14027 Feb 04 10:29	5° ¥ 10'59	
	14026 Mar 17 15:48	0°8		desc. node	14027 Feb 07 13:51	11°) €03'48	
evening max el	14026 Mar 28 22:45	13° 8 13'44	25°51'21	desc. node	14027 Feb 18 18:04	0°Υ	
retrograde	14026 Apr 10 12:14	20° 8 26'58	23 3121	evening max el	14027 Mar 11 12:36	26° Y ′58′20	26°49'35
evening set	14026 Apr 16 13:46	17° 8 57'31		evening max or	14027 Mar 14 22:23	0°8	20 1933
asc. node	14026 Apr 16 20:25	17° 8 43'21		retrograde	14027 Mar 24 18:18	4° 8 24'05	
min. Earth dist.	14026 Apr 20 19:13	13° 8 25'14	0.67436 AU	evening set	14027 Mar 31 05:34	1° 8 51'59	
inferior conj	14026 Apr 22 08:32	11° 8 27'28	1°38'09	evening set	14027 Apr 02 06:59	30°RY	
minimum elong	14026 Apr 22 06:31	11° 8 33'49	1°36'52	asc. node	14027 Apr 02 06.39 14027 Apr 03 17:50	28° Y 26'56	
morning rise	14026 Apr 27 23:55	5° 8 39'01	1 30 34	min. Earth dist.	14027 Apr 03 17:30 14027 Apr 04 05:34	28° γ 20'30 27° γ 53'41	0.66066 AU
•		4° 8 35'24				25° Y 28'21	0.00000 AU 0°47'54
direct	14026 May 01 08:00		19940146	inferior conj	14027 Apr 06 07:15	25° Y '28'21' 25° Y '31'55	
morning max el desc. node	14026 May 08 01:12	8° 8 12'40	18°49'46	minimum elong	14027 Apr 06 06:03	25° γ 31 35 19° γ 51'27	0°47'05
	14026 May 19 19:26	23° 8 44'35	0.0-	morning rise	14027 Apr 12 07:48	19°° Y '51'27 19° Y '04'39	
greatest brilliancy	14026 May 21 20:31	26° 8 50'31	-0.8m	direct	14027 Apr 15 05:47		10011127
morning set	14026 May 23 21:58	0°Ⅱ 10°Ⅲ02'13		morning max el	14027 Apr 21 14:48	22° Y 25'48	18°11'37
morning set	14026 May 30 09:26	10° Ⅱ 02'13		daga == -1-	14027 Apr 27 17:53	0°8	
may E-d- 1'	14026 Jun 12 05:08	0°©	1 45605 411	desc. node	14027 May 06 16:11	13° 8 46'30	
max. Earth dist.	14026 Jun 14 00:26	2° 5 49'08	1.45685 AU	morning set	14027 May 10 19:28	20° 8 24'59	

	14027 May 16 19:11	0°Щ		morning max el	14028 Apr 04 07:51 14028 Apr 20 02:51	6° Ƴ 34'19 0° ႘	17°50'35
superior conj	14027 May 26 00:28	14° ∏ 33'02	1057144	morning set	14028 Apr 20 02:31 14028 Apr 21 09:29	2° 8 08'38	
minimum elong	14027 May 25 00:28	14° I 100'48		desc. node	14028 Apr 22 12:49	4° 8 03'20	
max. Earth dist.	14027 May 27 20:26	17° Ⅲ 24'58		desc. Hode	14028 Apr 22 12.49	4 003 20	
max. Earth dist.	,	1/°Щ2438 0° ©	1.43849 AU		14020 M 04 20-00	24° 8 17'15	1826122
	14027 Jun 04 22:26			superior conj	14028 May 04 20:08		
evening rise	14027 Jun 11 02:11	9° © 33'47	0.7	minimum elong	14028 May 04 11:46	23° 8 43'41	1°26'11
greatest brilliancy	14027 Jun 22 13:07	27° © 12'49	-0.7m		14028 May 08 10:07	0°II	
	14027 Jun 24 09:50	0 \circ Ω		max. Earth dist.	14028 May 09 16:27	1° ∏ 59'51	1.45263 AU
asc. node	14027 Jun 30 15:47	8° Ω 44'48		evening rise	14028 May 20 15:05	18° ∏ 58'55	
evening max el	14027 Jul 04 15:45	13° Ω 21′27	19°10'05		14028 May 27 21:18	0 \circ \odot	
retrograde	14027 Jul 11 13:40	17° Ω 11'14		greatest brilliancy	14028 Jun 04 12:49	11° © 19'02	-0.6m
evening set	14027 Jul 15 02:22	15° Ω 58'59		asc. node	14028 Jun 16 12:44	26° © 52'29	
inferior conj	14027 Jul 20 13:05	10° Ω 10′38		evening max el	14028 Jun 16 20:02	27° © 10'57	20°05'28
minimum elong	14027 Jul 20 14:28	10° Ω 06′08	2°59'21		14028 Jun 20 03:50	$0^{\circ}\Omega$	
min. Earth dist.	14027 Jul 22 01:06	8° Ω 14'16	0.66846 AU	retrograde	14028 Jun 24 12:22	1° Ω 33'32	
morning rise	14027 Jul 26 01:57	3° Ω 45'54		evening set	14028 Jun 28 10:54	0° Ω 04'08	
direct	14027 Aug 01 04:45	1° Ω 07'37			14028 Jun 28 13:03	30° Ŗ ூ	
desc. node	14027 Aug 02 15:08	1° Ω 15'17		inferior conj	14028 Jul 03 17:49	24° © 02'46	3°10'50
morning max el	14027 Aug 13 19:56	8° Ω 40′03	25°59'59	minimum elong	14028 Jul 03 18:12	24° © 01'27	3°09'49
	14027 Aug 30 13:51	0° m y		min. Earth dist.	14028 Jul 04 15:35	22°5548'53	0.68032 AU
	14027 Sep 17 20:15	0∘ ত		morning rise	14028 Jul 09 01:11	17°5540'11	
morning set	14027 Sep 18 19:23	1° ≏ 46'04		direct	14028 Jul 14 16:55	15°511'00	
max. Earth dist.	14027 Sep 22 13:07	8° ≏ 48'52	1.35289 AU	desc. node	14028 Jul 19 12:30	16° © 37'50	
asc. node	14027 Sep 26 17:29	17° ≏ 02'48		morning max el	14028 Jul 26 06:26	22° © 06'37	24°36'49
				<i>y</i>	14028 Aug 02 03:51	$0^{\circ}\Omega$	
superior conj	14027 Sep 28 04:05	19° Ω 57'43	0°13'27		14028 Aug 22 20:30	o°my	
minimum elong	14027 Sep 28 03:18	19° ⊆ 53'46		morning set	14028 Aug 30 22:55	13° m) 37'06	
behind sun begin	14027 Sep 27 24:00	19° Ω 36'59	0 1331	max. Earth dist.	14028 Sep 03 12:58	20° m 00'35	1.37489 AU
behind sun end	14027 Sep 28 06:36	20° £ 10'35		max. Earth dist.	14028 Sep 08 21:34	0° ⴀ	1.57407 110
bennia sun ena	14027 Oct 03 00:46	0°M			14028 Sep 08 21.54	0 ==	
evening rise	14027 Oct 05 00:40	5°M54'07		superior conj	14028 Sep 10 12:22	3° ჲ 06'52	0°10'02
evening rise	14027 Oct 03 20.33	0° √ 1		minimum elong	14028 Sep 10 12:22 14028 Sep 10 13:38	3° £ 13'01	0°18'50
avanina may al	14027 Oct 19 02:32 14027 Oct 24 06:22	6° ₹ 15'34	20°29'04	asc. node	-	7° £ 09'49	0 18 30
evening max el	14027 Oct 24 06.22	10° × 13'50	20 29 04		14028 Sep 12 14:03	19° £ 59'15	
desc. node				evening rise	14028 Sep 19 00:12		
retrograde	14027 Nov 04 07:41	11° 🖈 45'23			14028 Sep 24 03:05	0°M 17°M 22127	10920142
evening set	14027 Nov 06 13:15	11° ∡ 32'59	4050105	evening max el	14028 Oct 05 19:00	17°M32'37	19°20'43
inferior conj	14027 Nov 15 11:48	7° ∡ ³37'55		retrograde	14028 Oct 15 04:52	22°M15'30	
minimum elong	14027 Nov 15 01:50	7° ₹ 52'25		desc. node	14028 Oct 15 08:40	22°M15'25	
min. Earth dist.	14027 Nov 16 19:35	6° ₹ 51'41	0.54677 AU	evening set	14028 Oct 17 01:40	22°M05'10	2012151
morning rise	14027 Nov 23 14:03	3° ₹ 38'34		inferior conj	14028 Oct 25 16:10	17° M 56'24	
direct	14027 Nov 28 02:14	2° ₹ 54'54		minimum elong	14028 Oct 25 08:03	18° ™ 09'44	3°09'12
morning max el	14027 Dec 11 11:16	9° ∡ ¹26'51	23°39'20	min. Earth dist.	14028 Oct 28 05:30	16°M16'05	0.55716 AU
asc. node	14027 Dec 23 18:18	25° ∡ 30'40		morning rise	14028 Nov 02 12:08	13°M26'34	
	14027 Dec 26 08:58	0°る		direct	14028 Nov 07 20:45	12°M21'27	
morning set	14028 Jan 04 08:57	17° る 51'06		morning max el	14028 Nov 21 21:11	19°M25'38	25°25'43
	14028 Jan 09 23:16	0° ≈			14028 Nov 30 19:33	0° ∡	
				asc. node	14028 Dec 09 15:21	14° ≯ 10'30	
superior conj	14028 Jan 11 05:34	2° ≈ 44'33			14028 Dec 17 16:01	0°る	
minimum elong	14028 Jan 11 06:49	2°≈51'20	1°34'48	morning set	14028 Dec 18 20:38	2° る 32'43	
max. Earth dist.	14028 Jan 14 00:22	8° ≈ 42'56	1.32966 AU				
evening rise	14028 Jan 18 22:08	18° ≈ 50′27		superior conj	14028 Dec 25 14:53		1°37'59
	14028 Jan 24 17:56	0°) €		minimum elong	14028 Dec 25 15:03	17° る 25'45	1°39'01
desc. node	14028 Jan 25 10:27	1° 升 15′11		max. Earth dist.	14028 Dec 27 03:31	20° る 46'45	1.31861 AU
	14028 Feb 12 22:23	$0^{\circ}\mathbf{\Upsilon}$			14028 Dec 31 10:06	0° ≈	
evening max el	14028 Feb 22 01:49	10° Y 24'17	27°25'41	evening rise	14029 Jan 01 19:03	2° ≈ 52'13	
retrograde	14028 Mar 06 17:44	17° Ƴ 52'08		desc. node	14029 Jan 11 07:11	21° ≈ 08'30	
evening set	14028 Mar 13 12:14	15° Y 23'30			14029 Jan 16 13:25	0°) €	
min. Earth dist.	14028 Mar 17 08:11	11° Y 56'39	0.64332 AU	evening max el	14029 Feb 03 12:21	23°) 18′52	27°32'58
inferior conj	14028 Mar 19 21:37	9° Υ 13'33	-0°14'14	-	14029 Feb 13 10:07	0° Y	
minimum elong	14028 Mar 19 22:03	9° Υ 12'24	0°14'07	retrograde	14029 Feb 17 09:40	0° Υ 42'15	
transit middle	14028 Mar 19 22:03	9° Ƴ 12'24	0°14'07	=	14029 Feb 21 05:29	30°₽)	
transit begin	14028 Mar 19 20:36	9° Ƴ 16'17		evening set	14029 Feb 24 07:13	28°) 24'19	
transit end	14028 Mar 19 23:30	9° Υ ′08'32		min. Earth dist.	14029 Feb 28 01:18		0.62312 AU
asc. node	14028 Mar 20 15:19	8° Y 26'45		inferior conj	14029 Mar 03 00:35	22°) (35'33	
morning rise	14028 Mar 26 09:55	3° Y 50'39		minimum elong	14029 Mar 03 03:36	22°) 28'24	
direct	14028 Mar 28 23:06	3° Υ 17'29		asc. node	14029 Mar 07 12:49	18°) (48'02	

	14020 M 10 02 47	170 1/20120			14020 F 1 12 10 40	50 V 1 115 1	2047146
morning rise	14029 Mar 10 02:47	17° ¥ 29'38		minimum elong	14030 Feb 13 18:48	5° X 11'51	2°4/'46
direct	14029 Mar 12 08:48	17° ★ 06'37 20° ★ 30'08	17947107	morning rise	14030 Feb 21 05:34	0°) 38'40 0°) 25'08	
morning max el	14029 Mar 19 01:25	20°π30'08 0°Υ	17°47'07	asc. node direct	14030 Feb 22 10:17	0° X 25'08 0° X 22'14	
	14029 Mar 26 05:01	14° Υ 58'30			14030 Feb 23 06:49		10002114
morning set desc. node	14029 Apr 03 22:58 14029 Apr 09 09:24	24° Υ 30'24		morning max el	14030 Mar 02 16:03 14030 Mar 18 05:50	4 ★05 18 28°¥36'22	18°02'14
desc. node	14029 Apr 09 09:24 14029 Apr 12 13:58	0° 8		morning set		28°π36'22 0°Υ	
	14029 Apr 12 15.56	0.0		desc. node	14030 Mar 18 23:54 14030 Mar 27 05:55	15° Υ 03'36	
superior conj	14029 Apr 15 14:01	5° 8 04'40	0047120	desc. node	14030 Mai 27 03.33	13 1 03 30	
minimum elong	14029 Apr 15 14:01 14029 Apr 15 09:25	4° 8 45'24		superior conj	14030 Mar 28 07:44	16° Ƴ 58'04	0000127
max. Earth dist.	14029 Apr 22 09:29	16° 8 15'51	1.43994 AU	minimum elong	14030 Mar 28 07:00	16° Y 54'50	
evening rise	14029 Apr 30 04:21	28° 8 32'49	1.43994 AU	behind sun begin	14030 Mar 28 00:21	16° Υ 25'24	0 0843
evening rise	14029 May 01 02:56	0°Ⅱ		behind sun end	14030 Mar 28 13:39	17° Υ 24'13	
	14029 May 21 15:39	0°9e		bennia san ena	14030 Apr 04 22:07	0°8	
evening max el	14029 May 30 18:22	11°900'43	21°14'02	max. Earth dist.	14030 Apr 04 21:49	29°Υ58'45	1.42180 AU
asc. node	14029 Jun 03 09:49	14°909'33	21 1102	evening rise	14030 Apr 10 07:58	8° 8 49'16	1.12100710
retrograde	14029 Jun 08 11:14	16°904'51		evening rise	14030 Apr 24 05:24	0°II	
evening set	14029 Jun 12 20:14	14°5018'44		evening max el	14030 May 13 11:45	24° I 51'23	22°31'42
inferior conj	14029 Jun 18 02:04	8°905'58	3°09'23	evening man er	14030 May 20 08:26	0°9	
minimum elong	14029 Jun 18 01:29	8°508'03	3°08'18	asc. node	14030 May 21 06:58	0°\$20'29	
min. Earth dist.	14029 Jun 18 10:16	7° © 37'26	0.68742 AU	retrograde	14030 May 23 08:34	0°939'49	
morning rise	14029 Jun 23 06:30	1°9348'05		8	14030 May 26 03:49	30°R Ⅱ	
morning 1150	14029 Jun 26 02:32	30°RⅡ		evening set	14030 May 28 04:40	28° I I38'17	
direct	14029 Jun 28 09:50	29° ∏ 34'01		inferior conj	14030 Jun 02 11:45	22° I 16'16	2°57'14
	14029 Jun 30 20:24	0.ಪ		minimum elong	14030 Jun 02 10:20	22° I I21'14	
desc. node	14029 Jul 06 09:47	3°530'50		min. Earth dist.	14030 Jun 02 06:59	22° I I32'55	0.68974 AU
morning max el	14029 Jul 08 17:24	5°5641'43	23°07'21	morning rise	14030 Jun 07 15:51	16° Ⅱ 04'53	
	14029 Jul 27 12:04	$0^{\circ}\Omega$		direct	14030 Jun 12 06:30	14° Ⅱ 09'34	
morning set	14029 Aug 12 04:32	24° Ω 30'11		morning max el	14030 Jun 21 07:24	19° Ⅱ 25'20	21°40'27
Ü	14029 Aug 15 10:56	0° m		desc. node	14030 Jun 23 06:57	21° Ⅲ 30′52	
max. Earth dist.	14029 Aug 16 11:22	1° m) 44'40	1.39852 AU		14030 Jun 30 03:56	0ಂತಾ	
	Ü	•			14030 Jul 20 15:38	$0^{\circ}\Omega$	
superior conj	14029 Aug 24 05:52	15° Mp 34'25	-0°54'11	morning set	14030 Jul 23 09:24	4° Ω 18'54	
minimum elong	14029 Aug 24 09:55	15° m 53'01	0°53'54	max. Earth dist.	14030 Jul 29 13:50	14° Ω 19'12	1.42101 AU
asc. node	14029 Aug 30 10:36	27° m 12'56					
	14029 Aug 31 21:30	0∘ ⊽		superior conj	14030 Aug 06 04:12	27° Ω 11'03	-1°28'43
evening rise	14029 Sep 02 19:45	3° ≏ 41'59		minimum elong	14030 Aug 06 10:53	27° Ω 40′05	1°28'32
evening max el	14029 Sep 18 20:02	29° ჲ 36'50	18°34'17		14030 Aug 07 18:53	0° m)	
_	14029 Sep 19 05:32	0° M		evening rise	14030 Aug 17 03:42	16° m 52'49	
retrograde	14029 Sep 26 20:07	3°M39'19		asc. node	14030 Aug 17 07:12	17° m 08'46	
evening set	14029 Sep 28 19:00	3°M25'39			14030 Aug 24 11:30	0∘ ত	
desc. node	14029 Oct 02 06:10	2°M01'10		evening max el	14030 Sep 02 05:32	12° ≏ 20'32	18°08'47
	14029 Oct 05 07:37	30° ₹ Ω		retrograde	14030 Sep 09 05:54	15° ≏ 55'17	
inferior conj	14029 Oct 06 16:57	28° ჲ 57'13	-1°24'57	evening set	14030 Sep 11 11:37	15° ≏ 33'54	
minimum elong	14029 Oct 06 13:33	29° ჲ 03'44	1°23'10	inferior conj	14030 Sep 18 15:20	10° ≏ 44'45	0°09'35
min. Earth dist.	14029 Oct 09 21:37	26° ჲ 31'12	0.57477 AU	minimum elong	14030 Sep 18 15:39	10° ≙ 44'02	0°09'33
morning rise	14029 Oct 14 04:38	23° ≏ 49'32		transit middle	14030 Sep 18 15:39	10° ≏ 44'02	0°09'33
direct	14029 Oct 20 05:41	22° ≏ 17'53		transit begin	14030 Sep 18 12:56	10° ≏ 50'07	
morning max el	14029 Nov 03 12:37	29° ≏ 48'13	26°52'06	transit end	14030 Sep 18 18:23	10° ≏ 37'56	
	14029 Nov 03 17:28	0° M.		desc. node	14030 Sep 19 03:41	10° ≏ 17'05	
	14029 Nov 24 17:28	0° ⊼		min. Earth dist.	14030 Sep 21 21:49	7° ჲ 50'53	0.59662 AU
asc. node	14029 Nov 26 12:18	3° ∡ °21′08		morning rise	14030 Sep 25 16:21	5° ഫ 03'54	
morning set	14029 Dec 03 06:24	17° ∡ °04'34		direct	14030 Oct 02 04:21	3° ჲ 05'04	
	14029 Dec 09 03:27	0°ප		morning max el	14030 Oct 16 11:43	10° ჲ 53'56	27°44'38
					14030 Oct 31 09:17	0° M ₊	
superior conj	14029 Dec 10 02:12	2° る 07'07	1°36'00	asc. node	14030 Nov 13 09:09	22°M54'28	
minimum elong	14029 Dec 10 01:20	2° る 02'15	1°37'01		14030 Nov 16 20:46	0° ∡ ¹	
max. Earth dist.	14029 Dec 10 10:48	2° る 55'05	1.31257 AU	morning set	14030 Nov 17 12:27	1° ∡ ′22′18	
evening rise	14029 Dec 16 22:34	17° る 08'45		max. Earth dist.	14030 Nov 23 18:48	15° ∡ 01'10	1.31181 AU
	14029 Dec 23 07:08	0° ≈					
desc. node	14029 Dec 29 04:00	10°≈35'25		superior conj	14030 Nov 24 13:39	16° ∡ 746′18	1°28'09
	14030 Jan 11 14:19	0° ∀		minimum elong	14030 Nov 24 11:56	16° ∡ ′36'43	1°29'00
evening max el	14030 Jan 16 17:40		27°06'48	_	14030 Nov 30 12:56	0° ろ	
retrograde	14030 Jan 30 17:13	12°) (44'37		evening rise	14030 Dec 01 06:31	1° る 35'04	
evening set	14030 Feb 06 11:18	10°) (45′33		desc. node	14030 Dec 16 00:55	29° පි 26'01	
min. Earth dist.	14030 Feb 10 08:02	8°) €03'24	0.60123 AU		14030 Dec 16 09:33	0° ≈	• <00 <== :
inferior conj	14030 Feb 13 12:35	5°) (24′46	-2°50'39	evening max el	14030 Dec 29 15:31	16° ≈ 48'44	26°06'16

retrograde	14031 Jan 12 14:18	23° ≈ 52'53		retrograde	14031 Dec 24 22:42	4° ≈ 09'56	
evening set	14031 Jan 18 20:29	22° ≈ 20'04		evening set	14031 Dec 30 06:55	3° ≈ 07'00	
min. Earth dist.	14031 Jan 23 04:47	19° ≈ 43'10	0.57974 AU	min. Earth dist.	14032 Jan 04 17:07	0° ≈ 18'48	0.56133 AU
inferior conj	14031 Jan 26 06:02	17° ≈ 31′26			14032 Jan 05 05:16	30°Rる	
minimum elong	14031 Jan 26 14:46	17° ≈ 15'41	4°11'35	inferior conj	14032 Jan 07 02:43	28° る 48'26	
morning rise	14031 Feb 03 12:00	13° ≈ 06'48		minimum elong	14032 Jan 07 10:25	28° る 36'20	5°23'01
direct	14031 Feb 05 12:54	12° ≈ 53'16		morning rise	14032 Jan 15 15:57	24° る 44'44	
asc. node	14031 Feb 09 07:44	13° ≈ 42'45		direct	14032 Jan 18 00:05	24° る 29'53	
morning max el	14031 Feb 13 23:46	17° ≈ 02'12	18°37'37	asc. node	14032 Jan 27 05:06	28° る 39'27	
	14031 Feb 23 04:43	0° ∀		morning max el	14032 Jan 27 20:29	29° る 15'30	19°35'15
morning set	14031 Mar 02 00:49	12° ¥ 46′19			14032 Jan 28 14:13	0° ≈	
				morning set	14032 Feb 14 03:57	27° ≈ 16'53	
superior conj	14031 Mar 10 21:49	29°){ 46'46	0°25'45		14032 Feb 15 12:19	0°) €	
minimum elong	14031 Mar 10 23:31	29° 升 54'42	0°25'35				
	14031 Mar 11 00:39	$0^{\circ}\mathbf{\Upsilon}$		superior conj	14032 Feb 22 03:46	13° ¥ 18'25	0°53'39
desc. node	14031 Mar 14 02:24	5° Ƴ 38'59		minimum elong	14032 Feb 22 06:25	13°) 31′27	0°53'40
max. Earth dist.	14031 Mar 18 05:49	13° Y 00'42	1.40023 AU	max. Earth dist.	14032 Feb 28 12:19	25°) €24'42	1.37761 AU
evening rise	14031 Mar 22 08:17	20° Y 01'04		desc. node	14032 Feb 28 22:53	26°) 13′13	
e vennig rise	14031 Mar 28 11:32	0°8		dese. node	14032 Mar 02 01:00	0°Υ	
	14031 Apr 18 10:14	0° I I		evening rise	14032 Mar 03 05:19	2°Υ05'45	
evening max el	14031 Apr 26 02:15	8° I I44'03	23°52'53	evening rise	14032 Mar 20 15:13	0°8	
retrograde	14031 May 07 02:52	15° Ⅱ 12'35	25 52 55	evening max el	14032 Apr 07 15:53	22° 8 38'02	25°10'46
asc. node	14031 May 07 02:32	15° I 1235		retrograde	14032 Apr 19 17:05	29° 8 37'31	23 10 40
	•	13 H 07 30 12° H 57'42		-	•	_	
evening set	14031 May 12 10:34		0.60720.411	asc. node	14032 Apr 24 01:32	28° 8 16'57	
min. Earth dist.	14031 May 17 03:29	7° Ⅱ 28'52	0.68739 AU	evening set	14032 Apr 25 12:22	27° 8 12'14	0.60046.444
inferior conj	14031 May 17 20:55	6° Ⅱ 29'25	2°34'48	min. Earth dist.	14032 Apr 29 21:38	22° 8 19'42	
minimum elong	14031 May 17 18:56	6° Ⅲ 36′12	2°33'26	inferior conj	14032 May 01 03:41	20° 8 41'37	2°02'00
morning rise	14031 May 23 03:18	0° Ⅱ 25'54		minimum elong	14032 May 01 01:32	20° 8 48'39	2°00'36
	14031 May 23 17:39	30° ₹ 8		morning rise	14032 May 06 15:01	14° 8 47'19	
direct	14031 May 27 05:34	28° 8 50'59		direct	14032 May 10 05:34	13° 8 32'37	
	14031 May 30 23:53	$\Pi^{\circ}0$		morning max el	14032 May 17 06:48	17° 8 24'23	19°19'13
morning max el	14031 Jun 04 03:19	3° Ⅱ 19'15	20°22'56	desc. node	14032 May 27 00:53	29° 8 44'00	
desc. node	14031 Jun 10 03:59	10° Ⅱ 19'34			14032 May 27 05:20	Π °0	
	14031 Jun 24 00:15	0		greatest brilliancy	14032 May 30 00:28	4° Ⅱ 05'20	-0.7m
morning set	14031 Jul 02 17:11	13° © 13'48		morning set	14032 Jun 10 19:52	22° Ⅱ 00'51	
max. Earth dist.	14031 Jul 11 23:04	27° © 45'23	1.43976 AU		14032 Jun 15 23:58	0 \circ ∞	
	14031 Jul 13 08:35	$0^{\circ}\Omega$		max. Earth dist.	14032 Jun 23 14:42	11° © 52'48	1.45270 AU
superior conj	14031 Jul 18 03:31	7° Ω 48'22	-1°57'14	superior conj	14032 Jun 27 03:49	17° © 28'54	-2°12'38
minimum elong	14031 Jul 18 10:33	8° Ω 17'23	1°57'35	minimum elong	14032 Jun 27 06:19	17° © 38'51	2°13'38
evening rise	14031 Jul 30 19:14	29° Ω 19'05			14032 Jul 04 22:56	$0^{\circ}\Omega$	
	14031 Jul 31 04:39	0° m/		evening rise	14032 Jul 11 13:17	10° Ω 49'18	
asc. node	14031 Aug 04 03:47	6° M 52'26		asc. node	14032 Jul 21 00:27	26° Ω 18'58	
evening max el	14031 Aug 16 19:16	25° m/32'42	18°02'47		14032 Jul 23 09:32	0° m)	
retrograde	14031 Aug 23 06:45	28° m 54'09		evening max el	14032 Jul 30 09:37	9° m 03'49	18°15'09
evening set	14031 Aug 25 20:39	28° m) 21'25		retrograde	14032 Aug 05 18:14	12° m/26'05	
inferior conj	14031 Sep 01 08:17	23° m 12'57	1°22'49	evening set	14032 Aug 08 16:40	11° m)39'18	
minimum elong	14031 Sep 01 10:25	23° m 07'31	1°21'52	inferior conj	14032 Aug 14 15:46	6° m 13'43	2°14'46
min. Earth dist.	14031 Sep 04 07:12	20° m 13'00	0.61956 AU	minimum elong	14032 Aug 14 18:12	6° Mp 06'44	2°13'36
desc. node	14031 Sep 06 01:13	18° Mp 35'56		min. Earth dist.	14032 Aug 17 02:13	3° m) 27'26	0.64110 AU
morning rise	14031 Sep 07 21:41	17° m 08'33		morning rise	14032 Aug 20 18:10	29° Ω 55'23	0.01110710
direct	14031 Sep 07 21:41 14031 Sep 14 13:59	14° Mp 47'33		morning rise	14032 Aug 20 15:50	30°RΩ	
morning max el	14031 Sep 14 13:39	22° Mp 46'26	27°58'18	desc. node	14032 Aug 22 22:45	28° Ω 28'45	
morning max cr	14031 Oct 05 03:13	ე° ი	27 30 10	direct	14032 Aug 27 08:34	27° Ω 20'27	
		0°M		direct	•	2/ 3 2 2 0 2 / 0° m p	
1-	14031 Oct 24 14:46				14032 Sep 03 19:32	-•	27925100
asc. node	14031 Oct 31 05:53	12°M43'49		morning max el	14032 Sep 10 03:05	5° Mp 19'48	2/-35'00
morning set	14031 Nov 01 12:46	15°M21'04	1 21//44 ***		14032 Sep 28 21:10	0° ⊡	
max. Earth dist.	14031 Nov 06 23:52	26°M56'45	1.31644 AU	morning set	14032 Oct 15 04:54	28° £ 54'31	
	14031 Nov 08 09:19	0° ∡			14032 Oct 15 18:04	0°M	
	1400137 05 55 1	10 = 1 = :	101.422	asc. node	14032 Oct 17 02:30	2°M43'23	1.00.5=0 :=
superior conj	14031 Nov 08 23:21			max. Earth dist.	14032 Oct 19 22:19	8°M33'29	1.32653 AU
minimum elong	14031 Nov 08 21:08	1° ₹ 05'00	1°15'06				
evening rise	14031 Nov 15 16:57	16° ∡ 06'25		superior conj	14032 Oct 23 05:15	15°M33'36	0°55'08
	14031 Nov 22 11:27	0° ろ		minimum elong	14032 Oct 23 03:02	15°M21'38	0°55'26
desc. node	14031 Dec 02 21:57	17° る 26'55			14032 Oct 29 21:05	0°⊀	
evening max el	14031 Dec 11 05:19	27° る 19'02	24°37'38	evening rise	14032 Oct 30 04:01	0° ∡ 37'09	
	14031 Dec 14 08:13	0° ≈			14032 Nov 15 09:15	0°ප	

desc. node	14032 Nov 18 19:07	4° ප 18'56		evening max el	14033 Nov 03 06:17	17° ∡ ¹29'02	21°17'52
evening max el	14032 Nov 21 15:03	7°る19'42	22°55'29	desc. node	14033 Nov 05 16:24	19° х 38'29	21 1/32
retrograde	14032 Dec 04 18:09	13°る50'45	22 33 2)	retrograde	14033 Nov 15 05:33	23° × ⁷ 25'35	
evening set	14032 Dec 04 10:09	13° る 15'16		evening set	14033 Nov 17 23:05	23° × ⁷ 08'16	
min. Earth dist.	14032 Dec 16 00:03		0.54887 AU	inferior conj	14033 Nov 26 19:55	19° 🖈 15'16	-5°32'49
inferior conj	14032 Dec 17 04:19	9° ♂ 16'16		minimum elong	14033 Nov 26 12:08	19° × 726'14	
minimum elong	14032 Dec 17 05:02	9° ප 15'14		min. Earth dist.	14033 Nov 27 05:56	19° × ⁷ 01'10	0.54480 AU
morning rise	14032 Dec 25 16:28	5° る 27'27	3 30 37	morning rise	14033 Nev 27 03:30	15° ×7 25'25	0.54400 710
direct	14032 Dec 28 16:58	5° ප 06'14		direct	14033 Dec 09 00:26	14° × 51'53	
morning max el	14033 Jan 09 02:58	10°る34'01	20°56'06	morning max el	14033 Dec 21 19:59	21° × ⁷ 02'17	22°36'30
asc. node	14033 Jan 13 02:24	14° る 59'33	20 30 00	morning max cr	14033 Dec 29 08:15	0°る	22 30 37
asc. node	14033 Jan 22 12:10	0°≈		asc. node	14033 Dec 30 23:37	2° る 25'59	
morning set	14033 Jan 28 12:11	0 ~ 11° ≈ 58'04		morning set	14034 Jan 12 23:14	26° る 43'34	
morning set	14033 Jan 26 12.11	11 2004		morning set	14034 Jan 14 12:05	20° ≈	
superior conj	14033 Feb 04 21:19	27° ≈ 20'24	1°14'38		14034 Jan 14 12.03	0 ~	
minimum elong	14033 Feb 04 23:52	27°≈33'29	1°14'59	superior conj	14034 Jan 19 23:05	11° ≈ 43'23	1°28'46
minimum clong	14033 Feb 06 04:34	0° \	1 1437	minimum elong	14034 Jan 20 00:55	11°≈53'06	1°29'28
max. Earth dist.	14033 Feb 00 04:34 14033 Feb 09 21:20	7° ₩ 22'23	1.35625 AU	max. Earth dist.	14034 Jan 23 12:39	11 ≈33 00 19°≈12'36	1.33811 AU
evening rise	14033 Feb	14° \ 53'51	1.55025 AU		14034 Jan 28 01:02	19 ≈12 30 28°≈16'58	1.33611 AU
•		16° X 41'49		evening rise		28°≈16'38 0° ∺	
desc. node	14033 Feb 14 19:24	16° π 41'49 0° Υ		4 4-	14034 Jan 28 22:17	0°π 7°₩00'50	
	14033 Feb 22 10:01			desc. node	14034 Feb 01 15:59		
	14033 Mar 15 07:06	0°8	26010116		14034 Feb 15 15:11	0° Υ 20° Υ 04'25	27007150
evening max el	14033 Mar 21 05:29	6° 8 27'27	26°18'16	evening max el	14034 Mar 03 18:58		27°07'59
retrograde	14033 Apr 03 02:17	13° 8 46'59		retrograde	14034 Mar 17 05:45	27° Y 32′52	
evening set	14033 Apr 09 08:21	11° 8 15'32		evening set	14034 Mar 23 20:34	25° Y ′01′03	
asc. node	14033 Apr 10 22:57	9° 8 47'03		min. Earth dist.	14034 Mar 27 18:31	21° Y °16'47	0.65367 AU
min. Earth dist.	14033 Apr 13 11:18	6° 8 58'14	0.66908 AU	asc. node	14034 Mar 28 20:26	20° Y ′04′26	
inferior conj	14033 Apr 15 05:58	4° 8 47'38	1°18'17	inferior conj	14034 Mar 30 01:27	18° Y 42′13	0°22'59
minimum elong	14033 Apr 15 04:12	4° 8 53'04	1°17'08	minimum elong	14034 Mar 30 00:49	18° Ƴ 43'59	0°22'30
	14033 Apr 19 17:10	30° ₹Ƴ		morning rise	14034 Apr 05 06:43	13° Ƴ 11'15	
morning rise	14033 Apr 21 00:56	29° Y ′04′06		direct	14034 Apr 08 00:43	12° Ƴ 30'47	
direct	14033 Apr 24 04:38	28° Y 07'57		morning max el	14034 Apr 14 08:45	15° Ƴ 48'46	18°00'37
	14033 Apr 28 20:48	9° 8			14034 Apr 24 18:26	9° 8	
morning max el	14033 Apr 30 17:17	1° 8 36'30	18°31'32	desc. node	14034 Apr 30 18:23	9° 8 42'48	
					•		
desc. node	14033 May 13 21:41	19° 8 34'10		morning set	14034 May 02 12:38	12° 8 35'43	
desc. node	14033 May 13 21:41 14033 May 20 13:35	$\Pi^{\circ}0$		morning set	-	12° ႘ 35'43 0°Ⅱ	
desc. node morning set	•			morning set	14034 May 02 12:38		
	14033 May 20 13:35	$\Pi^{\circ}0$		morning set	14034 May 02 12:38	0°П 5°П55'59	
	14033 May 20 13:35	0°П 1°П38'17 26°П36'52		C	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38	0°Щ	
morning set	14033 May 20 13:35 14033 May 21 14:34	0° П 1° П 38'17		superior conj	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40	0°П 5°П55'59	
morning set superior conj	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24	0°П 1°П38'17 26°П36'52		superior conj minimum elong	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38	0°П 5°П55'59 5°П20'20	1°46'02
morning set superior conj minimum elong	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12	0°П 1°П38'17 26°П36'52 26°П16'33	2°09'47	superior conj minimum elong	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58	0°П 5°П55'59 5°П20'20 10°П59'40	1°46'02
morning set superior conj minimum elong	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01	0°П 1°П38'17 26°П36'52 26°П16'33 26°П23'41	2°09'47	superior conj minimum elong max. Earth dist.	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03	0°П 5°П55'59 5°П20'20 10°П59'40 0°©	1°46'02 1.45680 AU
morning set superior conj minimum elong max. Earth dist.	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26	0°П 1°П38'17 26°П36'52 26°П16'33 26°П23'41 0°Ф	2°09'47	superior conj minimum elong max. Earth dist.	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48	0°П 5°П55'59 5°П20'20 10°П59'40 0°© 0°©56'49	1°46'02 1.45680 AU
morning set superior conj minimum elong max. Earth dist.	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48	0°Ⅲ 1°Ⅲ38'17 26°Ⅲ36'52 26°Ⅲ16'33 26°Ⅲ23'41 0°ᢒ 21°ᢒ18'14	2°09'47 1.45850 AU	superior conj minimum elong max. Earth dist.	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47	0°II 5°II55'59 5°II20'20 10°II59'40 0°© 0°©56'49 21°©15'23	1°46'02 1.45680 AU
morning set superior conj minimum elong max. Earth dist. evening rise	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45	0°Ⅲ 1°Ⅲ38'17 26°Ⅲ36'52 26°Ⅲ16'33 26°Ⅲ23'41 0°೨ 21°೨18'14 0°Ω	2°09'47 1.45850 AU	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06	0°∏ 5°∏55'59 5°∏20'20 10°∏59'40 0°© 0°©56'49 21°©15'23 0°Ω	1°46'02 1.45680 AU
morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45 14033 Jun 30 16:58	0°Π 1°Π38'17 26°Π36'52 26°Π16'33 26°Π23'41 0°Θ 21°©18'14 0°Ω 4°Ω35'35	2°09'47 1.45850 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06 14034 Jun 24 18:07	0°Π 5°Π55'59 5°Π20'20 10°Π59'40 0°© 0°©56'49 21°©15'23 0°Ω 3°Ω53'22	1°46′02 1.45680 AU -0.7m
morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45 14033 Jun 30 16:58 14033 Jul 07 21:13	0°Π 1°Π38'17 26°Π36'52 26°Π16'33 26°Π23'41 0°Θ 21°©18'14 0°Ω 4°Ω35'35 15°Ω22'13	2°09'47 1.45850 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06 14034 Jun 24 18:07 14034 Jun 27 05:09	0°Π 5°Π55'59 5°Π20'20 10°Π59'40 0°\$ 0°\$56'49 21°\$15'23 0°Ω 3°Ω53'22 6°Ω34'53	1°46′02 1.45680 AU -0.7m
morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45 14033 Jun 30 16:58 14033 Jul 07 21:13 14033 Jul 13 21:40	0°Π 1°Π38'17 26°Π36'52 26°Π16'33 26°Π23'41 0°Θ 21°©18'14 0°Ω 4°Ω35'35 15°Ω22'13 22°Ω46'42	2°09'47 1.45850 AU -0.8m	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06 14034 Jun 24 18:07 14034 Jun 27 05:09 14034 Jul 04 10:15	0°Π 5°Π55'59 5°Π20'20 10°Π59'40 0°Φ 0°Φ56'49 21°Φ15'23 0°Ω 3°Ω53'22 6°Ω34'53 10°Ω37'48	1°46′02 1.45680 AU -0.7m
morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45 14033 Jun 30 16:58 14033 Jul 07 21:13 14033 Jul 13 21:40 14033 Jul 20 12:28	0°Π 1°Π38'17 26°Π36'52 26°Π23'41 0°Φ 21°Φ18'14 0°Ω 4°Ω35'35 15°Ω22'13 22°Ω46'42 26°Ω23'07	2°09'47 1.45850 AU -0.8m 18°45'09	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06 14034 Jun 24 18:07 14034 Jun 27 05:09 14034 Jul 04 10:15 14034 Jul 08 02:56	0°Π 5°Π55'59 5°Π20'20 10°Π59'40 0°亞 0°亞56'49 21°亞15'23 0°Ω 3°Ω53'22 6°Ω34'53 10°Ω37'48 9°Ω18'26	1°46'02 1.45680 AU -0.7m 19°31'49
morning set superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set	14033 May 20 13:35 14033 May 21 14:34 14033 Jun 06 13:24 14033 Jun 06 08:12 14033 Jun 06 10:01 14033 Jun 08 17:26 14033 Jun 22 06:48 14033 Jun 27 18:45 14033 Jun 30 16:58 14033 Jul 07 21:13 14033 Jul 13 21:40 14033 Jul 20 12:28 14033 Jul 23 19:44	0° Π 1° Π38'17 26° Π36'52 26° Π16'33 26° Π23'41 0° Φ 21° Φ18'14 0° Ω 4° Ω35'35 15° Ω22'13 22° Ω46'42 26° Ω23'07 25° Ω20'33	2°09'47 1.45850 AU -0.8m 18°45'09 2°48'15	superior conj minimum elong max. Earth dist. evening rise greatest brilliancy asc. node evening max el retrograde evening set inferior conj	14034 May 02 12:38 14034 May 13 06:52 14034 May 17 00:40 14034 May 16 15:38 14034 May 20 05:58 14034 Jun 01 12:03 14034 Jun 02 02:48 14034 Jun 15 11:47 14034 Jun 21 16:06 14034 Jun 24 18:07 14034 Jun 27 05:09 14034 Jul 04 10:15 14034 Jul 08 02:56 14034 Jul 13 11:41	0°II 5°II55'59 5°II20'20 10°II59'40 0°S 0°S56'49 21°S15'23 0°A 3°A53'22 6°A34'53 10°A37'48 9°A18'26 3°A24'20	1°46'02 1.45680 AU -0.7m 19°31'49 3°06'23 3°05'21
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evening rise	14034 Sep 28 20:12	29° £ 16'48			14035 Sep 06 02:32	0∘ ত	
evening rise	14034 Sep 28 20.12 14034 Sep 29 04:40	29 = 10 48		asc. node	14035 Sep 00 02.32 14035 Sep 07 16:13	0 = 3° ჲ 02'32	
evening max el	14034 Oct 16 10:39	28°M17'58	19°57'17	evening rise	14035 Sep 07 10:15	13° ⊆ 13'22	
evening max er	14034 Oct 18 07:29	0° √	17 37 17	evening rise	14035 Sep 12 20:30	0°M	
desc. node	14034 Oct 23 13:47	2° × 758'15		evening max el	14035 Sep 29 05:06	9°M56'24	18°58'17
retrograde	14034 Oct 26 19:15	3° ₹ 27'37		retrograde	14035 Oct 07 23:15	14°ML20'09	10 30 17
evening set	14034 Oct 28 19:05	3° х 17′02		evening set	14035 Oct 09 20:10	14°ML08'54	
844	14034 Nov 05 11:43	30°RM		desc. node	14035 Oct 10 11:15	14° M .00'18	
inferior conj	14034 Nov 06 15:48	29°M17'37	-4°13'00	inferior conj	14035 Oct 18 04:16	9°M52'26	-2°26'27
minimum elong	14034 Nov 06 05:54	29°M32'40	4°09'06	minimum elong	14035 Oct 17 22:06	10°ML03'13	2°23'27
min. Earth dist.	14034 Nov 08 13:54	28°M07'33	0.55016 AU	min. Earth dist.	14035 Oct 21 02:08	7° M 50'55	0.56403 AU
morning rise	14034 Nov 14 15:24	25°M06'35		morning rise	14035 Oct 25 21:04	5°M06'49	
direct	14034 Nov 19 12:37	24°M14'22		direct	14035 Oct 31 13:37	3°M50'29	
	14034 Dec 02 02:48	0° ∡ ¹		morning max el	14035 Nov 14 17:14	11°ML06'26	26°05'48
morning max el	14034 Dec 03 05:50	1° ₹ 01'44	24°25'50		14035 Nov 29 05:09	0° ∡	
asc. node	14034 Dec 17 20:43	20° х 42′37		asc. node	14035 Dec 04 17:43	9° ∡ ³36'40	
	14034 Dec 22 21:41	0°ප		morning set	14035 Dec 12 22:14	26° ₹ ¹05′26	
morning set	14034 Dec 28 11:11	11° る 27'44			14035 Dec 14 17:28	0°ප	
superior conj	14035 Jan 04 06:19	26° る 19'16		superior conj	14035 Dec 19 16:42		1°37'52
minimum elong	14035 Jan 04 07:07	26° る 23'38	1°37'21	minimum elong	14035 Dec 19 16:25		1°38'54
	14035 Jan 05 22:51	0° ≈		max. Earth dist.	14035 Dec 20 17:01	13° ට 16'00	1.31542 AU
max. Earth dist.	14035 Jan 06 11:44	1°≈09'37	1.32430 AU	evening rise	14035 Dec 26 17:00	26° ට 15'48	
evening rise	14035 Jan 11 16:59	12°≈06'51			14035 Dec 28 12:20	0° ≈	
desc. node	14035 Jan 19 12:40	27°≈05'22		desc. node	14036 Jan 06 09:25	16°≈48'31	
	14035 Jan 21 04:05	0°){			14036 Jan 14 14:56	0° \	2502 (115
. ,	14035 Feb 11 01:52	0°Υ 2° Ω 10144	27022146	evening max el	14036 Jan 27 16:11	15°) ₹56'49	27°26'17
evening max el	14035 Feb 14 07:19	3° Υ 18'44 10° Υ 46'09	27°32'46	retrograde	14036 Feb 10 14:57	23°) 16'33	
retrograde	14035 Feb 28 02:28	8° Υ 21'09		evening set	14036 Feb 17 11:44	21°) 06'04	0.61205.411
evening set min. Earth dist.	14035 Mar 06 22:41 14035 Mar 10 17:26	5° Υ 06'14	0.63491 AU	min. Earth dist. inferior conj	14036 Feb 21 06:24 14036 Feb 24 08:29	18° ¥ 14'30 15° ¥ 28'27	0.61385 AU
inferior conj	14035 Mar 10 17:26 14035 Mar 13 11:25	2°Υ18'56		minimum elong	14036 Feb 24 08:29 14036 Feb 24 12:50	15° H 18'42	
minimum elong	14035 Mar 13 11:25 14035 Mar 13 12:50	2°Υ15'20	0°43'30	asc. node	14036 Mar 01 15:27	10° H 53'57	2 00 03
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morning max el	14035 Mar 29 02:28	29°\(\frac{1}{5}\)3'22	17°46'55	morning set	14036 Mar 27 11:03	8° Υ '02'44	
moning man vi	14035 Mar 29 05:10	0°Υ	1, 1000	desc. node	14036 Apr 03 11:30	20° Y '34'34	
morning set	14035 Apr 14 13:26	24° Y ′50'08			1		
desc. node	14035 Apr 17 14:58	0° 8 04'37		superior conj	14036 Apr 07 09:16	27° Y °21′27	-0°30'39
	14035 Apr 17 13:53	0°8		minimum elong	14036 Apr 07 06:27	27° Y ′09'20	
					14036 Apr 08 22:29	9° 8	
superior conj	14035 Apr 27 05:07	16° 8 05'50	-1°10'18	max. Earth dist.	14036 Apr 14 15:52	9° 8 31'03	1.43280 AU
minimum elong	14035 Apr 26 22:08	15° 8 37'20	1°10'03	evening rise	14036 Apr 21 07:55	20° 8 10'00	
max. Earth dist.	14035 May 03 00:32	25° 8 27'02	1.44794 AU		14036 Apr 27 17:25	Π $^{\circ}0$	
	14035 May 05 21:41	Π °0			14036 May 19 06:19	0 \circ	
evening rise	14035 May 12 13:49	10° ∏ 20'46		evening max el	14036 May 23 03:06	4°छ15'34	21°46'18
	14035 May 25 16:22	0°©		asc. node	14036 May 28 12:17	8° © 32'44	
evening max el	14035 Jun 10 06:57	20°525'15	20°33'16	retrograde	14036 Jun 01 07:26	9° © 37'58	
asc. node	14035 Jun 11 15:09	21°5541'44		evening set	14036 Jun 05 21:10	7°9645'05	2005120
retrograde	14035 Jun 18 09:12	25°504'42		inferior conj	14036 Jun 11 03:17	1°528'21	3°05'29
evening set	14035 Jun 22 12:02	23°528'19	2011/25	minimum elong	14036 Jun 11 02:19	1°931'45	3°04'21
inferior conj	14035 Jun 27 18:13	17°522'07		min. Earth dist.	14036 Jun 11 05:56		0.68904 AU
minimum elong min. Earth dist.	14035 Jun 27 18:10	17° © 22'15 16° © 27'01	3°10'33 0.68393 AU	marning ris-	14036 Jun 12 04:45 14036 Jun 16 07:16	30°RⅡ 25°Ⅱ13'14	
	14035 Jun 28 10:13		0.08393 AU	morning rise direct			
morning rise direct	14035 Jul 03 00:00 14035 Jul 08 10:39	11° © 01'09 8° © 37'30		direct desc. node	14036 Jun 21 05:19 14036 Jun 30 12:12	23° Ⅱ 06'39 28° Ⅱ 23'53	
direct desc. node	14035 Jul 08 10:39	11°900'14		morning max el	14036 Jun 30 12:12	28°Щ23'33 28°Щ51'37	22020138
morning max el	14035 Jul 14 13:01 14035 Jul 19 11:41	15°50014	23°58'54	morning max ci	14036 Jul 30 23.24	28 п эгэл 0° ©	22 27 30
morning max ci	14035 Jul 31 14:18	0°Ω	23 30 JT		14036 Jul 24 06:49	0° U	
	14035 Aug 20 09:04	0° m)		morning set	14036 Aug 03 13:56	16° Ω 09'32	
morning set	14035 Aug 20 05:04 14035 Aug 23 18:46	5°Mp43'59		max. Earth dist.	14036 Aug 08 12:19	24°Ω19'55	1.40844 AU
max. Earth dist.	14035 Aug 27 12:27	12° m) 14'23	1.38494 AU		14036 Aug 11 19:52	0° m)	
		4 = 0				•	
superior conj	14035 Sep 03 22:36	25° m 51'39	-0°33'45	superior conj	14036 Aug 16 08:32	7° m 59'09	-1°09'10
minimum elong	14035 Sep 04 00:59	26° m 02'57		minimum elong	14036 Aug 16 13:48	8° m 22'48	1°08'52
				•			

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14037 Jul 28 21:21

superior conj

19°Ω10'28 -1°41'57

superior conj	14038 Jul 09 10:28	29° © 22'01	-2°05'48	minimum elong	14039 Jun 19 02:10	8° 5 41'16	2°14'39
minimum elong	14038 Jul 09 16:15	29° 5 45'26	2°06'28		14039 Jul 02 11:22	0 $^{\circ}\Omega$	
	14038 Jul 09 19:51	0 \circ Ω		evening rise	14039 Jul 04 04:02	2° Ω 44'31	
evening rise	14038 Jul 22 20:21	21° Ω 41'18		asc. node	14039 Jul 16 02:45	21° Ω 48'58	
	14038 Jul 27 17:50	0° m/y			14039 Jul 22 01:19	0° m)	
asc. node	14038 Jul 29 06:01	2° m/31'43	10005150	evening max el	14039 Jul 24 02:05	2° Mp 13'17	18°25'53
evening max el	14038 Aug 09 12:22	18° M 36'33	18°05'52	retrograde	14039 Jul 30 12:17	5° Mp 39'49	
retrograde	14038 Aug 15 21:39	21° m 56'58		evening set	14039 Aug 02 14:26	4° Mp 46'34	
evening set	14038 Aug 18 15:01	21° Mp 18'42	1°47'16	:£:	14039 Aug 07 18:00	30°RΩ 29°Ω14'40	2920150
inferior conj minimum elong	14038 Aug 24 20:53	16° Mp 02'52 15° Mp 56'24	1°46'10	inferior conj minimum elong	14039 Aug 08 09:21	$29^{\circ} \Omega 1440$ $29^{\circ} \Omega 07'52$	
min. Earth dist.	14038 Aug 24 23:17 14038 Aug 27 14:57	13° My 06'15	0.62893 AU	min. Earth dist.	14039 Aug 08 11:38 14039 Aug 10 14:00	29 δι 07 32 26° Ω 38'47	0.64941 AU
morning rise	14038 Aug 27 14.37 14038 Aug 31 05:25	9° m 51'08	0.02893 AU	morning rise	14039 Aug 10 14:00 14039 Aug 14 07:33	$20^{\circ}0.53^{\circ}47$ $22^{\circ}0.53^{\circ}02$	0.04941 AU
desc. node	14038 Aug 31 03:48	9° Mg 54'08		desc. node	14039 Aug 18 01:19	20°Ω42'23	
direct	14038 Sep 06 21:31	7° Mg 22'52		direct	14039 Aug 18 01:19	20° Ω 14'37	
morning max el	14038 Sep 00 21:51	15° m) 24'19	27°52'36	morning max el	14039 Sep 03 08:35	28°Ω10'44	27°15'18
morning max or	14038 Oct 02 20:50	0° ⊽	27 3230	morning max or	14039 Sep 05 00:35	0° m)	27 13 10
	14038 Oct 20 23:35	0°M₊			14039 Sep 26 15:35	0∘ <mark>ಹ</mark>	
morning set	14038 Oct 25 07:44	8°M31'42		morning set	14039 Oct 08 19:33	21° ♀ 52'15	
asc. node	14038 Oct 25 08:04	8°M33'23		asc. node	14039 Oct 12 04:43	28° £ 35'55	
max. Earth dist.	14038 Oct 30 11:14	19° ™ 17'06	1.32005 AU		14039 Oct 12 21:13	0° M	
				max. Earth dist.	14039 Oct 13 05:34	0° M 42'49	1.33238 AU
superior conj	14038 Nov 01 23:34	24°M44'19	1°07'00				
minimum elong	14038 Nov 01 21:17	24°M31'48	1°07'27	superior conj	14039 Oct 17 03:15	8°M52'56	0°45'14
	14038 Nov 04 09:05	0°∡7		minimum elong	14039 Oct 17 01:13	8°M42'09	0°45'26
evening rise	14038 Nov 08 18:49	9° ∡ ³37'51		evening rise	14039 Oct 24 05:35	24°MJ06'42	
	14038 Nov 19 02:24	ರ°0			14039 Oct 27 01:01	0° ∡ ¹	
desc. node	14038 Nov 27 00:22	12° る 07'28		desc. node	14039 Nov 13 21:35	28° ∡ ¹23'35	
evening max el	14038 Dec 02 23:46	18° る 56'06	23°54'41	evening max el	14039 Nov 14 10:52	28° х 56′42	22°12'37
retrograde	14038 Dec 16 12:59	25° る 40'31			14039 Nov 15 13:54	8°0	
evening set	14038 Dec 21 08:27	24° る 50'05		retrograde	14039 Nov 27 03:53	5° る 14'29	
min. Earth dist.	14038 Dec 27 10:57	21° る 50'56	0.55513 AU	evening set	14039 Nov 30 14:28	4° る 48'22	
inferior conj	14038 Dec 29 09:36	20° る 41'02		min. Earth dist.	14039 Dec 08 17:18		0.54601 AU
minimum elong	14038 Dec 29 15:01	20° る 32'54	5°43'44	inferior conj	14039 Dec 09 05:34	0° る 53'59	
morning rise	14039 Jan 06 23:23	16° පි 44'50		minimum elong	14039 Dec 09 02:19	0°る58'32	5°53'42
direct	14039 Jan 09 13:06	16° පි 28'08			14039 Dec 10 20:23	30°R ∡ 7	
morning max el	14039 Jan 20 01:50	21° る 31'40	20°06'51	morning rise	14039 Dec 17 15:13	27° ∡ ¹06'45	
asc. node	14039 Jan 21 07:34	22° る 47'19		direct	14039 Dec 21 00:56	26° х 40′53	
	14039 Jan 26 20:22	0° ≈			14039 Dec 30 03:50	0°る	21026140
morning set	14039 Feb 07 04:03	20°≈50'55		morning max el	14040 Jan 02 02:11	2°る27'40	21°36'48
	14039 Feb 11 15:11	0° ∀		asc. node	14040 Jan 08 04:51	9° る 38'01	
	14020 E-1- 14-20-56	(0M22154	1902125		14040 Jan 19 20:55	0° ≈ 5° ≈ 35'05	
superior conj minimum elong	14039 Feb 14 20:56 14039 Feb 14 23:38	6°\(\frac{1}{43}\)33'54	1°03'23 1°03'32	morning set	14040 Jan 22 13:48	3.∞33.03	
max. Earth dist.	14039 Feb 14 25.58 14039 Feb 20 15:57	17° H 50'58	1.36821 AU	superior conj	14040 Jan 29 18:24	20° ≈ 46'12	1°21'26
desc. node	14039 Feb 23 01:00	22° ¥ 16′29	1.50021 AC	minimum elong	14040 Jan 29 20:41	20°≈58'12	1°21'56
evening rise	14039 Feb 24 10:16	24°) 47'47		max. Earth dist.	14040 Feb 03 03:28		1.34811 AU
evening rise	14039 Feb 27 08:42	0° Υ		max. Earth dist.	14040 Feb 03 06:37	0° ∀	1.54011710
	14039 Mar 18 16:29	0°8		evening rise	14040 Feb 07 07:36	7°) 52'43	
evening max el	14039 Mar 31 22:09	15° 8 51'28	25°41'17	desc. node	14040 Feb 09 21:34	12° ¥ 41'56	
retrograde	14039 Apr 13 08:44	23° 8 01'38			14040 Feb 20 00:13	0° Υ	
evening set	14039 Apr 19 08:37	20° 8 33'14		evening max el	14040 Mar 13 12:05	29° Ƴ 37'58	26°42'04
asc. node	14039 Apr 19 04:06	20° 8 42'36		C	14040 Mar 13 21:14	0°B	
min. Earth dist.	14039 Apr 23 15:03	15° 8 55'38	0.67605 AU	retrograde	14040 Mar 26 15:35	7° 8 02'06	
inferior conj	14039 Apr 25 02:27	14° 8 02'49	1°44'50	evening set	14040 Apr 02 01:34	4° 8 30'04	
minimum elong	14039 Apr 25 00:23	14° 8 09'25	1°43'31	asc. node	14040 Apr 05 01:32	1° 8 37'05	
morning rise	14039 Apr 30 16:41	8° 8 12'42		min. Earth dist.	14040 Apr 06 02:21	0° 8 26'52	0.66301 AU
direct	14039 May 04 02:25	7° 8 06'16			14040 Apr 06 11:33	30° ₹Ƴ	
morning max el	14039 May 10 21:27	10° 8 46'57	18°56'53	inferior conj	14040 Apr 08 02:12	28° Y 05'12	0°56'18
desc. node	14039 May 22 03:08	25° 8 27'26		minimum elong	14040 Apr 08 00:48	28° Y 09'19	0°55'23
greatest brilliancy	14039 May 24 06:34	28° 8 40'20	-0.8m	morning rise	14040 Apr 14 01:12	22° Y 26'25	
	14039 May 25 03:36	0°Щ		direct	14040 Apr 17 00:40	21° Υ '37'13	
morning set	14039 Jun 02 18:54	13° Ⅱ 17'47		morning max el	14040 Apr 23 10:18	24° Y ′59'49	18°16'13
	14039 Jun 13 12:53	0∘ ©			14040 Apr 27 17:08	0°8	
max. Earth dist.	14039 Jun 16 22:55	5° © 20'20	1.45604 AU	desc. node	14040 May 07 23:54	15° 8 26'17	
	14020 1 10 00 55	0000	2012/26	morning set	14040 May 13 00:45	23° 8 28'06	
superior conj	14039 Jun 19 02:56	8° © 44'16	-2~13'36		14040 May 17 03:06	0°II	

	14040 M 20 11-01	170Πε0155	2001115	:	14041 M 00 04-05	270	1021140
superior conj	14040 May 28 11:01	17° Ⅱ 50'55		superior conj	14041 May 08 04:05	27° 8 27'22	
minimum elong	14040 May 28 03:22	17° Ⅲ 21'03	2°01'48	minimum elong	14041 May 07 19:23	26° 8 52'38	1°31'41
max. Earth dist.	14040 May 29 19:00	19° Ⅱ 55'52	1.45878 AU		14041 May 09 18:25	Π °0	
	14040 Jun 05 06:03	0		max. Earth dist.	14041 May 12 15:10	4° ∏ 31'41	1.45394 AU
evening rise	14040 Jun 13 11:26	12° 5 48'49		evening rise	14041 May 24 01:42	22° Ⅱ 16′07	
greatest brilliancy	14040 Jun 24 04:28	29° 5 24'27	-0.8m		14041 May 29 03:27	0 \circ \odot	
	14040 Jun 24 13:50	$0^{\circ}\Omega$		greatest brilliancy	14041 Jun 07 20:32	14°928'21	-0.6m
asc. node	14040 Jul 01 23:35	10° Ω 39'22		asc. node	14041 Jun 18 20:32	28° © 53'39	
evening max el	14040 Jul 06 12:29	15° Ω 58'58	19°03'05	evening max el	14041 Jun 19 17:37	29°\$48'12	19°56'17
retrograde	14040 Jul 13 08:15	19° Ω 44'46	17 03 03	evening max er	14041 Jun 19 22:22	0°Ω	1) 3017
•						4° Ω 05'29	
evening set	14040 Jul 16 19:33	18° Ω 34'58	2055125	retrograde	14041 Jun 27 06:50		
inferior conj	14040 Jul 22 07:05	12° Ω 48'31	2°57'37	evening set	14041 Jul 01 03:50	2° Ω 38'38	
minimum elong	14040 Jul 22 08:37	12° Ω 43'35	2°56'34		14041 Jul 03 20:42	30°ષ્	
min. Earth dist.	14040 Jul 23 21:12	10° Ω 46′30	0.66633 AU	inferior conj	14041 Jul 06 11:07	26° © 39'01	3°10'03
morning rise	14040 Jul 27 21:00	6° Ω 23'49		minimum elong	14041 Jul 06 11:40	26° © 37'10	3°09'02
direct	14040 Aug 03 01:13	3° Ω 45′00		min. Earth dist.	14041 Jul 07 10:57	25° © 18'33	0.67882 AU
desc. node	14040 Aug 03 22:48	3° Ω 48'01		morning rise	14041 Jul 11 19:09	20° © 15'48	
morning max el	14040 Aug 15 19:43	11° Ω 21'27	26°11'14	direct	14041 Jul 17 12:33	17° 5 344'55	
	14040 Aug 30 16:58	O° Mp		desc. node	14041 Jul 21 20:11	18° © 54'46	
	14040 Sep 18 06:17	0∘ <u>v</u>		morning max el	14041 Jul 29 06:24	24°9547'08	24°49'50
morning set	14040 Sep 20 18:40	4° £ 36'23			14041 Aug 02 23:23	0°N	, .,
max. Earth dist.	14040 Sep 24 14:07	11° ⊆ 50′50	1.34990 AU		14041 Aug 24 03:45	0° mp	
	•		1.34990 AU		Č	-	
asc. node	14040 Sep 28 01:19	18° ≏ 42'26		morning set	14041 Sep 03 01:07	16° Mp 35'31	1 251 15 177
		-		max. Earth dist.	14041 Sep 06 14:49	23° m 00'32	1.37147 AU
superior conj	14040 Sep 29 23:41	22° ≏ 37'59	0°18'02		14041 Sep 10 08:44	0∘ ত	
minimum elong	14040 Sep 29 22:41	22° ≏ 32'50	0°18'08				
	14040 Oct 03 13:03	0°M₊		superior conj	14041 Sep 13 09:50	5° ≏ 52'30	-0°13'52
evening rise	14040 Oct 07 14:13	8° ጤ 27'41		minimum elong	14041 Sep 13 10:44	5° ≏ 56'54	0°13'42
	14040 Oct 19 01:19	0° ∡ 7		behind sun begin	14041 Sep 13 07:13	5° ≏ 39'42	
evening max el	14040 Oct 26 07:10	9° ∡ 19'48	20°41'06	behind sun end	14041 Sep 13 14:16	6° £ 14'08	
desc. node	14040 Oct 30 18:55	12° ∡ 55′07		asc. node	14041 Sep 14 21:53	8° ≏ 49'41	
retrograde	14040 Nov 06 14:19	14° ∡ 56'51		evening rise	14041 Sep 21 18:26	22° ₽ 35'31	
evening set	14040 Nov 08 22:32	14° ∡ ¹43'27		C	14041 Sep 25 12:07	0°M	
inferior conj	14040 Nov 17 21:04	10° х 49'16	-5°04'22	evening max el	14041 Oct 08 17:37	20°M29'00	19°29'24
minimum elong	14040 Nov 17 11:24	11° × 03'09	5°01'10	desc. node	14041 Oct 17 16:20	25°M17'18	1, 2, 2.
min. Earth dist.	14040 Nov 18 23:21	10° √ 11′28	0.54593 AU	retrograde	14041 Oct 18 09:19	25°M18'48	
morning rise	14040 Nov 26 00:14	6°×753'13	0.5 1575 710	evening set	14041 Oct 20 06:26	25°M08'37	
direct				Č			2020100
	14040 Nov 30 09:00	6° ₹ 12'22	22022102	inferior conj	14041 Oct 28 22:52	21°M02'25	
morning max el	14040 Dec 13 14:53	12° ∡ 38'46	23°23'03	minimum elong	14041 Oct 28 14:09	21°M16'26	
asc. node	14040 Dec 25 02:02	27° ∡ ¹27'17		min. Earth dist.	14041 Oct 31 08:41	19° ™ 29'42	0.55510 AU
	14040 Dec 26 14:45	0°る		morning rise	14041 Nov 05 19:48	16°M37'41	
morning set	14041 Jan 06 01:29	20° る 20'43		direct	14041 Nov 11 01:29	15° ™ 36'07	
	14041 Jan 10 12:38	0° ≈		morning max el	14041 Nov 25 00:32	22°M36'16	25°10'46
					14041 Dec 01 14:07	0° ∡ 7	
superior conj	14041 Jan 12 22:47	5° ≈ 15'15	1°32'46	asc. node	14041 Dec 11 23:06	16° ∡ 00'52	
minimum elong	14041 Jan 13 00:12	5° ≈ 22'52	1°33'36		14041 Dec 19 04:05	0°₹	
max. Earth dist.	14041 Jan 15 22:29	11° ≈ 37'53	1.33170 AU	morning set	14041 Dec 21 13:16	5° る 02'34	
evening rise	14041 Jan 20 17:38	21° ≈ 28′02					
Ç	14041 Jan 25 04:02	0° ∀		superior conj	14041 Dec 28 07:36	19° る 54'01	1°37'45
desc. node	14041 Jan 26 18:11	2°) 55'24		minimum elong	14041 Dec 28 07:57	19° る 55'52	1°38'47
dese. Hode	14041 Feb 12 20:40	0° Υ		max. Earth dist.	14041 Dec 30 00:32		1.31988 AU
avanina may al		13° Υ 06'58	27921157	max. Earth dist.	14041 Dec 30 00:32 14042 Jan 01 23:05	25 ⊙ 5655	1.51966 AU
evening max el	14041 Feb 24 01:25		27 21 34				
retrograde	14041 Mar 09 16:01	20° ℃ 35'02		evening rise	14042 Jan 04 13:18	5°≈26'08	
evening set	14041 Mar 16 09:46	18° Y ′05'18		desc. node	14042 Jan 13 14:53	22°≈51'23	
min. Earth dist.	14041 Mar 20 06:10	14° Ƴ 34'08	0.64616 AU		14042 Jan 17 19:04	0° ∀	
inferior conj	14041 Mar 22 18:00	11° Y ′52'51		evening max el	14042 Feb 06 12:22	26° ∺ 06'19	27°33'58
minimum elong	14041 Mar 22 18:07	11° Y 52'32	0°04'05		14042 Feb 11 04:08	0° Y	
transit middle	14041 Mar 22 18:07	11° Y ′52'32	0°04'05	retrograde	14042 Feb 20 09:18	3° Y 31'11	
transit begin	14041 Mar 22 15:09	12° Y ′00'35		evening set	14042 Feb 27 06:41	1° Y °11'02	
transit end	14041 Mar 22 21:05	11° Y '44'30			14042 Feb 28 21:04	30°₽ , ₩	
asc. node	14041 Mar 22 23:01	11° Y ′39'16		min. Earth dist.	14042 Mar 03 00:45	28° ∺ 07'21	0.62622 AU
morning rise	14041 Mar 29 04:24	6° Y ′27'51		inferior conj	14042 Mar 05 22:51	25° ¥ 18'30	
direct	14041 Mar 31 18:50	5° Υ '52'51		minimum elong	14042 Mar 06 01:25	25°) 12'17	
morning max el	14041 Apr 07 03:04	9° Υ '09'26	17°52'37	asc. node	14042 Mar 09 20:31	21°) 52'45	
	14041 Apr 21 10:45	0°8	1, 5251	morning rise	14042 Mar 12 22:54	20°\(\frac{1}{10}\)'00	
morning sat	14041 Apr 24 10:44	4° 8 59'59		direct		19°) 45'46	
morning set desc. node	14041 Apr 24 10:44 14041 Apr 24 20:33	5° 8 40'53		morning max el	14042 Mar 15 05:47 14042 Mar 21 20:47	23°) €07'42	17046120
		, L J+(1))		morning max ci	17074 IVIAI 41 40.4/	43 NU144	エノ サロムフ

	14042 Mar 27 07:46	0° Υ			14043 Mar 20 09:54	0° Υ	
morning got	14042 Mai 27 07:40 14042 Apr 06 21:06	0 1 17° Υ '40'55		marning act	14043 Mar 21 01:47	1° Υ 12'54	
morning set				morning set			
desc. node	14042 Apr 11 17:06	26° Y ′06′22		desc. node	14043 Mar 29 13:38	16° Ƴ 38'50	
	14042 Apr 13 23:27	0°8				100001014	001.4110
				superior conj	14043 Mar 31 08:41	19° ℃ 48'47	
superior conj	14042 Apr 18 18:21	8° 8 04'41		minimum elong	14043 Mar 31 07:27	19° Y 43′22	0°14'21
minimum elong	14042 Apr 18 13:07	7° 8 42'52		behind sun begin	14043 Mar 31 03:54	19° Y ′27'49	
max. Earth dist.	14042 Apr 25 08:33		1.44217 AU	behind sun end	14043 Mar 31 11:00	19° Y ′58′53	
	14042 May 02 10:28	Π °0			14043 Apr 06 07:22	0° 8	
evening rise	14042 May 03 13:48	1° Ⅱ 45'42		max. Earth dist.	14043 Apr 07 21:34	2° 8 38'59	1.42476 AU
	14042 May 22 16:56	0 \circ		evening rise	14043 Apr 13 14:45	11° 8 54'52	
evening max el	14042 Jun 02 16:45	13° © 37'39	21°03'09		14043 Apr 25 10:38	Π $^{\circ}0$	
asc. node	14042 Jun 05 17:34	16° © 19'06		evening max el	14043 May 16 10:49	27° Ⅱ 28'19	22°19'46
retrograde	14042 Jun 11 05:47	18° © 35'26			14043 May 19 05:12	0 \circ \odot	
evening set	14042 Jun 15 13:08	16° © 51'51		asc. node	14043 May 23 14:42	2°5541'06	
inferior conj	14042 Jun 20 18:59	10°9540'40	3°10'21	retrograde	14043 May 26 03:23	3° © 10'02	
minimum elong	14042 Jun 20 18:31	10° © 42'15	3°09'15	evening set	14043 May 30 21:47	1° 5 0'46	
min. Earth dist.	14042 Jun 21 05:11	10° © 05'12	0.68664 AU		14043 Jun 01 03:31	30°RⅡ	
morning rise	14042 Jun 25 23:40	4° 5 21'51		inferior conj	14043 Jun 05 04:33	24° Ⅱ 50′04	2°59'45
direct	14042 Jul 01 04:52	2°905'10		minimum elong	14043 Jun 05 03:15	24° ∏ 54'39	2°58'32
desc. node	14042 Jul 08 17:27	5° © 35'22		min. Earth dist.	14043 Jun 05 01:44	24° Ⅱ 59'56	0.68974 AU
morning max el	14042 Jul 11 17:07	8°\$20'48	23°20'41	morning rise	14043 Jun 10 08:32	18° Ⅲ 37'35	
. 8	14042 Jul 28 16:25	$0^{\circ}\Omega$		direct	14043 Jun 15 01:07	16° Ⅲ 39'12	
morning set	14042 Aug 15 10:14	27° Ω 37'46		morning max el	14043 Jun 24 06:22	22° I 102'27	21°52'51
	14042 Aug 16 20:02	0° m)		desc. node	14043 Jun 25 14:35	23° I I26'12	
max. Earth dist.	14042 Aug 19 12:47	•	1.39501 AU	dese. node	14043 Jul 01 03:05	0.2 2017	
max. Earth dist.	110121146 17 12.17	1 119 37 19	1.57501710		14043 Jul 21 22:56	$0 {\circ} \mathcal{U}$	
superior conj	14042 Aug 27 05:46	18° m 26'41	-0°48'49	morning set	14043 Jul 26 18:41	7° Ω 35'20	
minimum elong	14042 Aug 27 09:22	18° Mp 43'23		max. Earth dist.	14043 Aug 01 14:13	17° Ω 02'56	1.41789 AU
asc. node	14042 Aug 27 09:22 14042 Sep 01 18:25	28° m 53'31	0 4031	max. Earth dist.	14043 Aug 01 14.13	17 6602 30	1.41769 AU
asc. node	14042 Sep 01 18.23	0° ت 10°53 کا		avmariar aani	14042 Aug 00 07:11	0°Mp11'11	1022144
	*			superior conj	14043 Aug 09 07:11		
evening rise	14042 Sep 05 15:19	6° Ω 21'51		minimum elong	14043 Aug 09 13:33	0° Mp 39'04	1-23-30
	14042 Sep 19 12:37	0°M	10020140	1	14043 Aug 09 04:38	0° Mp	
evening max el	14042 Sep 21 17:04	2°M26'43	18°39'48	asc. node	14043 Aug 19 14:58	18° m 50'28	
retrograde	14042 Sep 29 21:32	6°M34'17		evening rise	14043 Aug 20 01:12	19° m 37'38	
evening set	14042 Oct 01 19:42	6°M21'23			14043 Aug 25 18:05	0° ⊽	
desc. node	14042 Oct 04 13:49	5° ™ 21'59		evening max el	14043 Sep 05 01:35	15° ≙ 05'07	18°11'20
inferior conj	14042 Oct 09 20:24	1°M56'14		retrograde	14043 Sep 12 04:41	18° ≏ 42'55	
minimum elong	14042 Oct 09 16:17	2°M03'55	1°38'38	evening set	14043 Sep 14 09:19	18° ≏ 22'52	
	14042 Oct 12 10:32	30°Ŗ Ω		desc. node	14043 Sep 21 11:18	13° ≏ 46'10	
min. Earth dist.	14042 Oct 12 23:49	29° Ω 35'56	0.57186 AU	inferior conj	14043 Sep 21 15:40	13° ≏ 36'41	
morning rise	14042 Oct 17 09:27	26° ჲ 54'05		minimum elong	14043 Sep 21 15:33	13° ≏ 36'56	0°03'13
direct	14042 Oct 23 08:32	25° ≏ 26′20		transit middle	14043 Sep 21 15:33	13° ≏ 36'56	0°03'13
	14042 Nov 03 07:38	0°M₊		transit begin	14043 Sep 21 12:12	13° ≏ 44'14	
morning max el	14042 Nov 06 14:49	2°M53'24	26°41'05	transit end	14043 Sep 21 18:53	13° ≏ 29'38	
	14042 Nov 26 01:27	0° ∡ 7		min. Earth dist.	14043 Sep 24 22:34	10° ≏ 45'44	0.59327 AU
asc. node	14042 Nov 28 20:03	5° х 07′06		morning rise	14043 Sep 28 18:24	8° ഫ 00'25	
morning set	14042 Dec 05 23:24	19° ∡ ³35'44		direct	14043 Oct 05 05:18	6° ≏ 05'26	
	14042 Dec 10 17:15	0°ප		morning max el	14043 Oct 19 12:38	13° ≏ 51'34	27°39'13
					14043 Nov 01 11:02	0° M	
superior conj	14042 Dec 12 18:44	4° ⋜ 36′06	1°36'40	asc. node	14043 Nov 15 16:52	24°M37'22	
minimum elong	14042 Dec 12 18:00	4° ප 32'04	1°37'43		14043 Nov 18 08:54	0° ∡ ¹	
max. Earth dist.	14042 Dec 13 07:17	5° る 46'09	1.31310 AU	morning set	14043 Nov 20 06:05	3° ∡ ¹55'42	
evening rise	14042 Dec 19 15:57	19° る 40'38		max. Earth dist.	14043 Nov 26 15:26	17° ∡ 53′20	1.31161 AU
-	14042 Dec 24 17:32	0° ≈					
desc. node	14042 Dec 31 11:43	12° ≈ 22'43		superior conj	14043 Nov 27 06:15	19° ∡ 16′02	1°29'43
	14043 Jan 12 06:21	0°) €		minimum elong	14043 Nov 27 04:38	19° ∡ °07'03	1°30'36
evening max el	14043 Jan 19 18:40	8°) €24'17	27°13'04	Č	14043 Dec 02 02:06	0°ಕ	
retrograde	14043 Feb 02 18:16	15°) 40'56		evening rise	14043 Dec 03 23:22	4° る 05'54	
evening set	14043 Feb 09 13:13	13°) 38'43		- · · · · · · · · · · · · · · · · · · ·	14043 Dec 17 13:00	0°≈	
min. Earth dist.	14043 Feb 13 09:11	10° X 54'26	0.60443 AU	desc. node	14043 Dec 18 08:38	1° ≈ 19'31	
inferior conj	14043 Feb 16 13:19	8°) 13'17		evening max el	14044 Jan 01 17:51	19° ≈ 51'29	26°17'21
minimum elong	14043 Feb 16 19:03	8°) (1317		retrograde	14044 Jan 15 16:52	26°≈56'57	20 1/21
morning rise	14043 Feb 10 19:03	3° ∺ 23'59	2 33 03	evening set	14044 Jan 22 01:25	25°≈20'02	
asc. node	14043 Feb 24 04.06 14043 Feb 24 17:58	3° ∺ 15'50		min. Earth dist.	14044 Jan 26 07:21	23 ≈2002 22°≈43'16	0.58280 AU
direct		3° ★ 15′50 3° ★ 06′51		inferior conj	14044 Jan 29 09:42	22°≈43°16 20°≈26'42	
morning max el	14043 Feb 26 05:47 14043 Mar 05 12:04	6°) 44'51	17°58'46	minimum elong	14044 Jan 29 09:42 14044 Jan 29 18:12	20°≈26'42 20°≈11'03	
morning max er	17075 IVIAI US 12.U4	0 八 44 31	17 3040	minimum ciong	17077 Jan 29 18.12	20 ~1103	3 39 10

morning rise	14044 Feb 06 13:59	15° ≈ 58'40			14045 Jan 12 09:43	30°R₹	
direct	14044 Feb 08 14:37	15°≈44'53		morning rise	14045 Jan 17 22:10	27°る44'26	
asc. node	14044 Feb 11 15:23	15 ≈ 44 33 16° ≈ 17'25		direct	14045 Jan 20 04:43	27°る30'02	
morning max el	14044 Feb 16 21:01	19°≈49'05	18°31'01	direct	14045 Jan 27 06:10	0°≈	
morning man er	14044 Feb 24 10:23	0° ₩	10 31 01	asc. node	14045 Jan 28 12:45	0°≈59'31	
morning set	14044 Mar 03 19:14	15° ₩ 18'46		morning max el	14045 Jan 29 19:36	2°≈09'26	19°25'13
3	14044 Mar 11 11:51	$0^{\circ}\mathbf{\Upsilon}$		morning set	14045 Feb 15 21:21	29° ≈ 46'24	
				C	14045 Feb 16 00:04	0°) €	
superior conj	14044 Mar 12 20:01	2° Y 29'41	0°20'55				
minimum elong	14044 Mar 12 21:27	2° Y 36'19	0°20'45	superior conj	14045 Feb 23 23:53	15° ¥ 55'17	0°49'53
desc. node	14044 Mar 15 10:08	7° Ƴ 13'54		minimum elong	14045 Feb 24 02:28	16°) €07'53	0°49'50
max. Earth dist.	14044 Mar 20 06:16	15° Ƴ 47'34	1.40359 AU	desc. node	14045 Mar 02 06:39	27°) 48′14	
evening rise	14044 Mar 24 11:53	22° Y 58'08		max. Earth dist.	14045 Mar 02 12:50	28°) 16′27	1.38096 AU
	14044 Mar 28 19:26	9° 8			14045 Mar 03 11:39	$0^{\circ}\mathbf{\Upsilon}$	
	14044 Apr 18 09:05	Π $^{\circ}0$		evening rise	14045 Mar 06 05:56	4° Ƴ 54'39	
evening max el	14044 Apr 28 01:40	11° Ⅱ 20′39	23°40'47		14045 Mar 21 20:04	9° 8	
retrograde	14044 May 08 22:08	17° Ⅱ 43'18		evening max el	14045 Apr 10 15:16	_	24°59'39
asc. node	14044 May 09 11:56	17° Ⅱ 41'49			14045 Apr 16 09:07	Π °0	
evening set	14044 May 14 04:09	15° Ⅲ 30′12		retrograde	14045 Apr 22 13:01	2° ∏ 09'29	
min. Earth dist.	14044 May 18 22:21	9° Ⅱ 56'02	0.68808 AU	asc. node	14045 Apr 26 09:15	1° Ⅱ 06'04	
inferior conj	14044 May 19 13:54	9° Ⅱ 02'45	2°38'52		14045 Apr 27 23:38	30° ₹ 8	
minimum elong	14044 May 19 11:59	9° Ⅱ 09'20	2°37'31	evening set	14045 Apr 28 06:40	29° 8 45'21	
morning rise	14044 May 24 19:48	2°II58'03		min. Earth dist.	14045 May 02 16:56	24° 8 47'36	0.68176 AU
direct	14044 May 28 23:55	1° II 20'01	20022140	inferior conj	14045 May 03 21:09	23° 8 14'47	2°07'39
morning max el	14044 Jun 06 01:15	5°II54'28	20°33'40	minimum elong	14045 May 03 18:59	23° 8 21'54	2°06'16
desc. node	14044 Jun 11 11:37	12° Ⅱ 08'08 0° ©		morning rise	14045 May 09 07:35	17° 8 19'10	
marning sat	14044 Jun 24 05:51	0°936'11		direct	14045 May 12 23:49	16° 8 01'36 19° 8 57'57	19°27'47
morning set	14044 Jul 05 04:57 14044 Jul 13 17:01	0°Ω		morning max el	14045 May 20 03:39 14045 May 28 07:40	0° Ⅱ	19 2/4/
max. Earth dist.	14044 Jul 13 17:01 14044 Jul 13 22:43		1.43733 AU	desc. node	14045 May 29 08:34	0 H 1°H27'29	
max. Earm dist.	14044 Jul 13 22.43	0 062231	1.43/33 AU	greatest brilliancy	14045 Jun 01 19:06	6° I I26′00	-0.7m
superior conj	14044 Jul 20 10:06	10° Ω 57'29	-1°53'35	morning set	14045 Jun 14 07:04	25° I I20'40	-0.7111
minimum elong	14044 Jul 20 17:20	11° Ω 27'37		morning set	14045 Jun 17 07:35	0°95	
minimum crong	14044 Jul 31 13:30	0° m)	1 33 30	max. Earth dist.	14045 Jun 26 13:42	14° © 25'38	1.45117 AU
evening rise	14044 Aug 01 19:31	2° m)11'19		max. Earth dist.	11010 3411 20 13.12	11 - 23 30	1.13117110
asc. node	14044 Aug 05 11:36	8° Mp 36'21		superior conj	14045 Jun 30 13:33	20°545'21	-2°11'26
evening max el	14044 Aug 18 14:55	28° m 13'33	18°02'29	minimum elong	14045 Jun 30 17:04	20°559'23	
C	14044 Aug 20 16:57	0∘ ⊽		C	14045 Jul 06 07:23	$0^{\circ}\Omega$	
retrograde	14044 Aug 25 03:39	1° ≏ 36'10		evening rise	14045 Jul 14 17:08	13° Ω 50'40	
evening set	14044 Aug 27 16:19	1° ≏ 05'17		asc. node	14045 Jul 23 08:17	28° Ω 05'54	
	14044 Aug 29 16:29	30°R, Mp			14045 Jul 24 12:58	0° m	
inferior conj	14044 Sep 03 06:07	25° m 59'24	1°13'06	evening max el	14045 Aug 02 05:23	11°Mp42'11	18°12'10
minimum elong	14044 Sep 03 08:05	25° m 54'28	1°12'15	retrograde	14045 Aug 08 13:55	15° m 03'38	
min. Earth dist.	14044 Sep 06 06:29	22° m 59'09	0.61616 AU	evening set	14045 Aug 11 11:00	14° m 19'09	
desc. node	14044 Sep 07 08:49	21° m 58'09		inferior conj	14045 Aug 17 11:43	8° m 55'56	2°08'06
morning rise	14044 Sep 09 21:15	19° m 57'52		minimum elong	14045 Aug 17 14:11	8° m 49'00	2°06'57
direct	14044 Sep 16 13:12	17° m 39'55		min. Earth dist.	14045 Aug 20 00:11	6° Mp 06′29	0.63800 AU
morning max el	14044 Sep 30 17:28	25° m/37'36	27°58'47	morning rise	14045 Aug 23 15:39	2° m/38'57	
	14044 Oct 04 18:40	0∘ ⊽		desc. node	14045 Aug 25 06:22	1° m 32'44	
•	14044 Oct 24 23:29	0°M		direct	14045 Aug 30 06:36	0° Mp 05'34	27040120
asc. node	14044 Nov 01 13:37	14°M24'48		morning max el	14045 Sep 13 02:58	8° Mp 05'56	27°40'39
morning set	14044 Nov 03 07:25	17°M57'50			14045 Sep 30 01:37	0∘ ™	
F4l- 4i-4	14044 Nov 08 22:49	0° ∡ 1	1 21545 ATT		14045 Oct 17 05:43	0°M	
max. Earth dist.	14044 Nov 08 21:21	29°M52'00	1.31545 AU	morning set asc. node	14045 Oct 18 00:58	1°M35'30 4°M23'10	
superior coni	14044 Nov 10 16:20	3° ∡ 748'35	1°16'58	max. Earth dist.	14045 Oct 19 10:18 14045 Oct 22 21:03	11°M31'55	1.32467 AU
superior conj minimum elong	14044 Nov 10 16:20	3° х ′4633	1°17'35	max. Barui uist.	17073 OCL 22 21.03	ננונטוו וו	1.34701 AU
evening rise	14044 Nov 17 09:35	18° 🗷 30'37	1 17 33	superior conj	14045 Oct 25 22:58	18° M 07'20	0°58'28
0 , Olling 1100	14044 Nov 22 21:10	18×3700		minimum elong	14045 Oct 25 20:42	17°ML55'07	0°58'47
desc. node	14044 Dec 04 05:40	19° る 29'02			14045 Oct 31 09:50	0° ∡ 7	3 55 17
	14044 Dec 12 21:07	0°≈		evening rise	14045 Nov 01 20:40	3° ∡ 107'57	
evening max el	14044 Dec 13 08:42	0°≈27'59	24°52'01	- B	14045 Nov 16 06:21	0°る	
retrograde	14044 Dec 27 03:04	7°≈20'58	-	desc. node	14045 Nov 21 02:50	6° ප 32'51	
evening set	14045 Jan 01 15:23	6°≈13'24		evening max el	14045 Nov 24 18:25	10° ට 30'34	23°10'46
min. Earth dist.	14045 Jan 06 20:34	3° ≈ 28'11	0.56382 AU	retrograde	14045 Dec 08 00:34	17° ප 05'43	
inferior conj	14045 Jan 09 09:28	1° ≈ 50'55		evening set	14045 Dec 12 06:28	16° පි 26'32	
minimum elong	14045 Jan 09 17:41	1° ≈ 37'46	5°13'57	min. Earth dist.	14045 Dec 19 04:06	13° る 13'29	0.55026 AU

inferior conj	14045 Dec 20 13:33	12° る 25'16	-5°56'31	morning rise	14046 Dec 08 12:41	18° ∡ ³38′08	
minimum elong	14045 Dec 20 15:39	12° る 22'15	5°55'23	direct	14046 Dec 12 07:53	18° ∡ ¹06'47	
morning rise	14045 Dec 29 02:23	8° る 35'02		morning max el	14046 Dec 24 23:10	24° ∡ 11'30	22°20'44
direct	14045 Dec 31 23:47	8° る 15'14			14046 Dec 30 03:18	8°0	
morning max el	14046 Jan 12 04:23	13° る 36'33	20°42'39	asc. node	14047 Jan 02 07:18	4° る 25'33	
asc. node	14046 Jan 15 10:04	17° る 08'03		morning set	14047 Jan 15 15:45	29° ට 11'35	
	14046 Jan 23 20:13	0°≈			14047 Jan 16 00:54	0° ≈	
morning set	14046 Jan 31 04:59	14° ≈ 26′21			14045 7 00 1640	140 10150	1005100
	1404671 07 15 57	200 53125	1011151	superior conj	14047 Jan 22 16:42	14°≈13'58	1°27'02
superior conj	14046 Feb 07 15:57	29°≈53'27	1°11'54	minimum elong	14047 Jan 22 18:39	14°≈24'21	1°27'41
minimum elong	14046 Feb 07 18:34	0°) €06'48	1°12'10	max. Earth dist.	14047 Jan 26 11:10	22°≈06'01	1.34055 AU
To all the	14046 Feb 07 17:14	0°) (1€100	1 25025 444		14047 Jan 30 09:57	0° \	
max. Earth dist.	14046 Feb 12 21:01	10° ¥ 16′00 17° ¥ 36′47	1.35925 AU	evening rise	14047 Jan 30 21:22	0° 	
evening rise desc. node	14046 Feb 16 18:15 14046 Feb 17 03:12	18° H 17'59		desc. node	14047 Feb 03 23:47 14047 Feb 16 19:19	8° π 3833	
desc. node	14046 Feb 17 03.12 14046 Feb 23 18:39	18 π 1/39		evening max el	14047 Feb 16 19.19 14047 Mar 06 18:24	0 1 22° Υ 43'56	27902104
	14046 Mar 16 03:06	0°8		evening max er	14047 Mar 18 05:06	0° 8	27 02 04
evening max el	14046 Mar 24 04:46	9° 8 04'08	26°09'13	retrograde	14047 Mar 20 03:39	0° 8 11'52	
retrograde	14046 Apr 05 23:09	16° 8 21'55	20 09 13	retrograde	14047 Mar 22 00:40	0 O11 32 30°RΥ	
evening set	14046 Apr 12 03:42	13° 8 50'59		evening set	14047 Mar 26 17:13	27° Y 39'49	
asc. node	14046 Apr 13 06:39	12° 8 50'34		min. Earth dist.	14047 Mar 30 15:50	23° Υ '50'41	0.65617 AU
min. Earth dist.	14046 Apr 16 07:27	9° 6 28'33	0.67098 AU	asc. node	14047 Mar 31 04:07	23°Υ16'09	0.03017710
inferior conj	14046 Apr 18 00:17	7° 8 22'11	1°25'39	inferior conj	14047 Apr 01 20:58	21° Υ 19'03	0°32'10
minimum elong	14046 Apr 17 22:25	7° 8 27'58	1°24'28	minimum elong	14047 Apr 01 20:07	21° Υ 21'31	0°31'34
morning rise	14046 Apr 23 17:56	1° 8 36'57	1 2 . 20	morning rise	14047 Apr 08 00:31	15° Y 45'58	0 313.
direct	14046 Apr 26 23:08	0° 8 38'17		direct	14047 Apr 10 19:52	15° Y 03′23	
morning max el	14046 May 03 13:15	4° 8 09'39	18°37'37	morning max el	14047 Apr 17 04:07	18° Υ 22'20	18°04'05
desc. node	14046 May 16 05:24	21° 8 14'20			14047 Apr 25 23:28	0°8	
	14046 May 21 20:50	0°II		desc. node	14047 May 03 02:06	11° 8 20'34	
morning set	14046 May 24 22:20	4° ∏ 47'42		morning set	14047 May 05 16:08	15° 8 32'40	
max. Earth dist.	14046 Jun 09 08:25	28° Ⅱ 53'16	1.45806 AU	C	14047 May 14 15:19	0°Ⅱ	
	14046 I 10 00.20	200TEC102	2010/50		14047 M 20 10-22	0°T10'20	1950127
superior conj minimum elong	14046 Jun 10 00:30 14046 Jun 09 20:23	29°П56'03 29°П39'59		superior conj minimum elong	14047 May 20 10:22	9° П 10'29 8° П 35'30	
minimum eiong	14046 Jun 10 01:30	29 П 3939	2 11 43	max. Earth dist.	14047 May 20 01:29 14047 May 23 04:17	8 ДЗЗЗО 13°Д28'54	1.45753 AU
evening rise	14046 Jun 25 14:21	24° 9 528'42		max. Earth dist.	14047 Jun 02 19:30	0°95	1.43/33 AU
evening rise	14046 Jun 29 01:36	0°Ω		evening rise	14047 Jun 05 12:56	4°9512'42	
greatest brilliancy	14046 Jul 03 02:47	6° Ω 25'12	-0.9m	greatest brilliancy	14047 Jun 18 06:52	23°S39'39	-0.7m
asc. node	14046 Jul 10 05:04	17° Ω 13'22	0.5111	greatest orimaney	14047 Jun 22 15:55	0° Ω	0.7111
evening max el	14046 Jul 16 17:58	25° Ω 23'49	18°39'36	asc. node	14047 Jun 27 01:57	5° Ω 49'55	
retrograde	14046 Jul 23 07:22	28° Ω 57'25	10 37 30	evening max el	14047 Jun 30 02:16		19°23'53
evening set	14046 Jul 26 13:15	27°Ω57'22		retrograde	14047 Jul 07 04:44	13° Ω 09'37	
inferior conj	14046 Aug 01 04:36	22° Ω 18'57	2°44'10	evening set	14047 Jul 10 19:59	11° Ω 52'49	
minimum elong	14046 Aug 01 06:37	22° Ω 12'44	2°43'03	inferior conj	14047 Jul 16 05:21		3°04'28
min. Earth dist.	14046 Aug 03 03:05	19° Ω 56′08	0.65705 AU	minimum elong	14047 Jul 16 06:29	5° Ω 57'02	3°03'26
morning rise	14046 Aug 06 22:59	15° Ω 55'01		min. Earth dist.	14047 Jul 17 13:26	4° Ω 15'24	0.67218 AU
desc. node	14046 Aug 12 03:51	13° Ω 20′28			14047 Jul 21 05:59	30°R∽	
direct	14046 Aug 13 08:07	13° Ω 15′21		morning rise	14047 Jul 21 16:26	29° 5 36'02	
morning max el	14046 Ana 26 14:16	21° Ω 05'40	26950140				
	14046 Aug 26 14:16	21 0603 40	26°50'49	direct	14047 Jul 27 16:21	26° © 59'24	
	14046 Sep 03 07:38	0° m)	20*30/49	direct desc. node	14047 Jul 27 16:21 14047 Jul 30 01:16	26°959'24 27°920'30	
	•		20*30/49				
morning set	14046 Sep 03 07:38	0° m)	26*30/49		14047 Jul 30 01:16	27° 5 20'30	25°38'05
morning set max. Earth dist.	14046 Sep 03 07:38 14046 Sep 23 05:28	0 ்⊽ 0° ™	1.33926 AU	desc. node	14047 Jul 30 01:16 14047 Aug 04 01:58	27° © 20'30 0° Ω	25°38'05
•	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53	0° Mp 0° <u>Ω</u> 14° <u>Ω</u> 42'18		desc. node	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11	27°©20'30 0°Ω 4°Ω23'44	25°38'05
max. Earth dist.	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34		desc. node morning max el morning set	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45	27°\$20'30 0°\$C 4°\$\O23'44 0°\$\pi\$ 27°\$\O9'00 0°\$\D\$	25°38'05
max. Earth dist. asc. node	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35	0° ዀ 0° 亞 14° 亞 42'18 22° 亞 49'34 24° 亞 28'16 0° ጤ	1.33926 AU	desc. node morning max el morning set max. Earth dist.	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 17 15:41	27°\$20'30 0°\$C 4°\$\O23'44 0°\$\pi\$ 27°\$\pi\$09'00 0°\$\D2\$ 3°\$\D253'38	25°38'05 1.35865 AU
max. Earth dist. asc. node superior conj	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35	0° ነው 0°	1.33926 AU 0°34'20	desc. node morning max el morning set	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45	27°\$20'30 0°\$C 4°\$\O23'44 0°\$\pi\$ 27°\$\O9'00 0°\$\D\$	
max. Earth dist. asc. node superior conj minimum elong	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12	0° ነው 0° <u>ፍ</u> 14° <u>ፍ</u> 42'18 22° <u>ፍ</u> 49'34 24° <u>ፍ</u> 28'16 0° ነሌ 2° ነሌ 06'55 1° ነሌ 58'03	1.33926 AU	morning max el morning set max. Earth dist. asc. node	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 17 15:41 14047 Sep 23 03:32	27°\$20'30 0°\$\Omega\$ 4°\$\Omega\$23'44 0°\$\Omega\$ 27°\$\Omega\$09'00 0°\$\Omega\$ 3°\$\Omega\$53'38 14°\$\Omega\$35'51	1.35865 AU
max. Earth dist. asc. node superior conj	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48	0° ነው 0°	1.33926 AU 0°34'20	morning max el morning set max. Earth dist. asc. node superior conj	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32	27°\$20'30 0°\$\Omega\$ 4°\$\Omega\$23'44 0°\$\Omega\$ 27°\$\Omega\$909'00 0°\$\Omega\$ 3°\$\Omega\$53'38 14°\$\Omega\$35'51 15°\$\Omega\$40'19	1.35865 AU 0°05'01
max. Earth dist. asc. node superior conj minimum elong evening rise	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° M 2° M 06'55 1° M 58'03 17° M 34'17 0° 🗷	1.33926 AU 0°34'20 0°34'28	morning max el morning set max. Earth dist. asc. node superior conj minimum elong	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:24 14047 Sep 23 16:05	27°\$20'30 0°\$\Omega\$ 4°\$\Omega\$23'44 0°\$\Omega\$ 27°\$\Omega\$9'00 0°\$\Omega\$ 3°\$\Omega\$53'38 14°\$\Omega\$35'51 15°\$\Omega\$40'19 15°\$\Omega\$8'45	1.35865 AU
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° M 2° M 06'55 1° M 58'03 17° M 34'17 0° ズ 20° ズ 36'14	1.33926 AU 0°34'20 0°34'28	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:24 14047 Sep 23 16:05 14047 Sep 23 10:09	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\O23'44 0°\$\mathbf{m}\$ 27°\$\mathbf{m}\$09'00 0°\$\mathcal{O}\$ 3°\$\mathcal{O}\$53'38 14°\$\mathcal{O}\$35'51 15°\$\mathcal{O}\$40'19 15°\$\mathcal{O}\$8'45 15°\$\mathcal{O}\$8'57	1.35865 AU 0°05'01
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16 14046 Nov 08 00:05	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° M 2° M 06'55 1° M 58'03 17° M 34'17 0° ₹ 20° ₹ 36'14 22° ₹ 07'52	1.33926 AU 0°34'20 0°34'28	morning max el morning set max. Earth dist. asc. node superior conj minimum elong	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:24 14047 Sep 23 16:05 14047 Sep 23 10:09 14047 Sep 23 22:01	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\O23'44 0°\$\mathbf{m}\$ 27°\$\mathbf{m}\$09'00 0°\$\mathcal{O}\$ 3°\$\mathcal{O}\$53'38 14°\$\mathcal{O}\$35'51 15°\$\mathcal{O}\$40'19 15°\$\mathcal{O}\$38'45 15°\$\mathcal{O}\$08'57 16°\$\mathcal{O}\$08'38	1.35865 AU 0°05'01
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 06 06:57 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16 14046 Nov 08 00:05 14046 Nov 18 12:41	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° m 2° m 06'55 1° m 58'03 17° m 34'17 0° ズ 20° ズ 36'14 22° ズ 07'52 26° ズ 38'50	1.33926 AU 0°34'20 0°34'28	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:05 14047 Sep 23 10:09 14047 Sep 23 22:01 14047 Sep 30 16:21	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\Omega\begin{align*} 4°\$\Omega\begin{align*} 27°\$\mathcal{m}\text{09'00} \\ 0°\$\Lambda\$ 3°\$\Lambda\begin{align*} 3°\$\Lambda\begin{align*} 53'\Lambda\begin{align*} 55'\Lambda\begin{align*} 45'\Lambda\begin{align*} 45'\Lambda\begin{align*} 55'\Lambda\begin{align*} 64'\Lambda\begin{align*} 65'\Lambda\begin{align*} 65'\	1.35865 AU 0°05'01
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16 14046 Nov 08 00:05 14046 Nov 18 12:41 14046 Nov 21 10:10	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° M 2° M 06'55 1° M 58'03 17° M 34'17 0° 🗷 20° 🗷 36'14 22° 🗷 07'52 26° 🗷 38'50 26° 🗷 19'41	1.33926 AU 0°34'20 0°34'28 21°31'33	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:24 14047 Sep 23 16:05 14047 Sep 23 16:09 14047 Sep 23 22:01 14047 Sep 30 16:21 14047 Oct 01 13:50	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\Omega23'44 0°\$\mathcal{D}\$ 27°\$\mathcal{D}\$09'00 0°\$\mathcal{O}\$ 3°\$\mathcal{D}\$53'38 14°\$\mathcal{D}\$35'51 15°\$\mathcal{D}\$40'19 15°\$\mathcal{D}\$38'45 15°\$\mathcal{D}\$08'57 16°\$\mathcal{D}\$08'38 0°\$\mathcal{D}\$ 1°\$\mathcal{D}\$50'27	1.35865 AU 0°05'01
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16 14046 Nov 08 00:05 14046 Nov 18 12:41 14046 Nov 21 10:10 14046 Nov 30 05:50	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° m 2° m 06'55 1° m 58'03 17° m 34'17 0° 🖈 20° 🖈 36'14 22° ₹ 07'52 26° ₹ 18'41 22° ₹ 26'45	1.33926 AU 0°34'20 0°34'28 21°31'33	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:05 14047 Sep 23 16:05 14047 Sep 23 10:09 14047 Sep 30 16:21 14047 Oct 01 13:50 14047 Oct 18 04:44	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\Omega\text{23'44} 0°\$\mathcal{D}\$ 27°\$\mathcal{m}\text{09'00} 0°\$\Omega\text{3}\cdot \Omega\text{53'38} 14°\$\Omega\text{35'51} 15°\$\Omega\text{40'19} 15°\$\Omega\text{840'19} 15°\$\Omega\text{808'57} 16°\$\Omega\text{808'57} 16°\$\Omega\text{808'38} 0°\$\mathcal{L}\$ 1°\$\mathcal{L}\text{50'27} 0°\$\nall\$	1.35865 AU 0°05'01 0°05'08
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	14046 Sep 03 07:38 14046 Sep 23 05:28 14046 Oct 01 07:53 14046 Oct 05 11:22 14046 Oct 08 23:35 14046 Oct 09 23:54 14046 Oct 09 22:12 14046 Oct 17 06:48 14046 Oct 23 09:58 14046 Nov 06 08:16 14046 Nov 08 00:05 14046 Nov 18 12:41 14046 Nov 21 10:10	0° m 0° Ω 14° Ω 42'18 22° Ω 49'34 24° Ω 28'16 0° m 2° m 06'55 1° m 58'03 17° m 34'17 0° 🗷 20° 🗷 36'14 22° 🗷 07'52 26° 🗷 19'41 22° 🗷 26'45 22° 🗷 36'15	1.33926 AU 0°34'20 0°34'28 21°31'33	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	14047 Jul 30 01:16 14047 Aug 04 01:58 14047 Aug 09 01:11 14047 Aug 28 16:25 14047 Sep 14 00:28 14047 Sep 15 13:45 14047 Sep 23 03:32 14047 Sep 23 16:24 14047 Sep 23 16:05 14047 Sep 23 16:09 14047 Sep 23 22:01 14047 Sep 30 16:21 14047 Oct 01 13:50	27°\$20'30 0°\$\mathcal{O}\$ 4°\$\Omega23'44 0°\$\mathcal{D}\$ 27°\$\mathcal{D}\$09'00 0°\$\mathcal{O}\$ 3°\$\mathcal{D}\$53'38 14°\$\mathcal{D}\$35'51 15°\$\mathcal{D}\$40'19 15°\$\mathcal{D}\$38'45 15°\$\mathcal{D}\$08'57 16°\$\mathcal{D}\$08'38 0°\$\mathcal{D}\$ 1°\$\mathcal{D}\$50'27	1.35865 AU 0°05'01

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retrograde	14047 Oct 30 01:00	6° ∡ ³35′08		retrograde	14048 Oct 10 02:24	17° ™ 19'41	
evening set	14047 Nov 01 02:30	6° ≯ 124'04		evening set	14048 Oct 11 23:09	17° M 08'50	
inferior conj	14047 Nov 10 00:09	2° ҂ 26′33	-4°27'39	desc. node	14048 Oct 11 18:50	17° M ₊10'48	
minimum elong	14047 Nov 09 14:05	2° ҂ ¹41'36	4°23'50	inferior conj	14048 Oct 20 09:37	12°M55'07	-2°42'58
min. Earth dist.	14047 Nov 11 17:33	1° ҂ ²24'43	0.54876 AU	minimum elong	14048 Oct 20 02:43	13°ML06'53	2°39'43
	14047 Nov 14 05:34	30°₽MJ		min. Earth dist.	14048 Oct 23 04:48	11° M 00'49	0.56149 AU
morning rise	14047 Nov 18 00:39	28°ML19'58		morning rise	14048 Oct 28 03:33	8° ጤ 15'13	
direct	14047 Nov 22 18:50	27°MJ30'46		direct	14048 Nov 02 17:30	7°ML02'52	
	14047 Nov 30 23:00	0° ∡ ¹		morning max el	14048 Nov 16 20:04	14° M .14'38	25°52'20
morning max el	14047 Dec 06 09:24	4° х 13′03	24°09'42		14048 Nov 29 07:41	0° ⊼	
asc. node	14047 Dec 20 04:26	22° ×7 35'49	21 07 12	asc. node	14048 Dec 06 01:27	11° × 724'58	
ase. Hode	14047 Dec 24 07:09	0°중		morning set	14048 Dec 14 15:00	28° ×735'40	
morning set	14047 Dec 31 03:42	13°る56'40		morning set	14048 Dec 15 06:37	20×3340	
morning set	1404/ Dec 31 03.42	13 03040			14046 Dec 13 00.37	0.0	
	14040 I 06 22:16	200740140	1025127		14040 D 21 00-10	120=20045	1920101
superior conj	14048 Jan 06 23:16	28° 3 48'40	1°35'37	superior conj	14048 Dec 21 09:18	13° 3 29'45	1°38'01
minimum elong	14048 Jan 07 00:14	28° る 53'57	1°36'34	minimum elong	14048 Dec 21 09:10	13°る29'04	1°39'04
	14048 Jan 07 12:22	0° ≈		max. Earth dist.	14048 Dec 22 13:53	16° පි 08'13	1.31642 AU
max. Earth dist.	14048 Jan 09 09:18	4°≈02'45	1.32607 AU	evening rise	14048 Dec 28 10:51	28° る 48'50	
evening rise	14048 Jan 14 11:54	14° ≈ 42′27			14048 Dec 29 00:33	0° ≈	
desc. node	14048 Jan 21 20:26	28° ≈ 46′18		desc. node	14049 Jan 07 17:09	18° ≈ 33'09	
	14048 Jan 22 12:53	0° ∀			14049 Jan 14 17:04	0° ∀	
	14048 Feb 11 16:01	$0^{\circ}\mathbf{\Upsilon}$		evening max el	14049 Jan 29 16:39	18°) 47′09	27°29'21
evening max el	14048 Feb 17 07:08	6° Ƴ 03'01	27°30'54	retrograde	14049 Feb 12 14:55	26° ₩ 08'02	
retrograde	14048 Mar 02 01:17	13° Ƴ 30'39		evening set	14049 Feb 19 12:07	23° ¥ 54'51	
evening set	14048 Mar 08 20:58	11° Υ 04'19		min. Earth dist.	14049 Feb 23 06:29	21°) (00'27	0.61714 AU
min. Earth dist.	14048 Mar 12 16:08	7° Υ 45'15	0.63794 AU	inferior conj	14049 Feb 26 07:43	18°) 13'14	
inferior conj	14048 Mar 15 08:32	4° Υ 59'10		minimum elong	14049 Feb 26 11:34	18°) €04'23	
-		4 γ 39 10 4° γ 56'28		C		18 ★0423 13°¥53'07	1 4/32
minimum elong	14048 Mar 15 09:35		0°32'43	asc. node	14049 Mar 03 23:02		
asc. node	14048 Mar 17 01:34	3° Y 15'41		morning rise	14049 Mar 05 13:58	13°) 12'15	
	14048 Mar 21 07:24	30° ₹		direct	14049 Mar 07 18:24	12° 米 51′21	
morning rise	14048 Mar 22 00:29	29°) 40′34		morning max el	14049 Mar 14 14:40	16°) 18'44	17°49'20
direct	14048 Mar 24 11:25	29° ∺ 10′38			14049 Mar 24 06:22	0° Υ	
	14048 Mar 27 14:56	$0^{\circ}\mathbf{\Upsilon}$		morning set	14049 Mar 30 08:09	10° Ƴ 41'48	
morning max el	14048 Mar 30 21:38	2° Y 28'30	17°47'46	desc. node	14049 Apr 05 19:16	22° Y ′09'52	
morning set	14048 Apr 16 13:15	27° Ƴ 36'37			14049 Apr 10 08:12	9° 8	
	14048 Apr 17 22:59	0° 8					
desc. node	14048 Apr 18 22:44	1° 8 40'46		superior conj	14049 Apr 10 12:05	0° 8 16'32	-0°36'37
	-			minimum elong	14049 Apr 10 08:39	0° ප 01'54	0°36'31
superior conj	14048 Apr 29 11:32	19° 8 10'40	-1°16'07	max. Earth dist.	14049 Apr 17 15:24	12° 8 07'53	1.43544 AU
minimum elong	14048 Apr 29 04:00	18° 8 40'07		evening rise	14049 Apr 24 16:20	23° 8 19'16	
max. Earth dist.	14048 May 04 23:20	27° 8 58'51	1.44975 AU	evening rise	14049 Apr 29 00:23	0°П	
max. Lattii dist.	14048 May 06 06:00	0°Ⅱ	1. 44)/3 AU		14049 May 20 02:19	0 .ಪ	
	•				•		21024151
evening rise	14048 May 15 00:12	13° Ⅱ 35'52		evening max el	14049 May 26 01:48	6°951'43	21-34-51
	14048 May 25 21:29	0°©	20022117	asc. node	14049 May 30 19:58	10°9545'57	
evening max el	14048 Jun 12 04:56	23° © 01'29	20°23'17	retrograde	14049 Jun 04 02:01	12° © 07'36	
asc. node	14048 Jun 12 22:55	23° © 45'12		evening set	14049 Jun 08 14:07	10° © 16'59	
retrograde	14048 Jun 20 03:33	27° © 34'45		inferior conj	14049 Jun 13 20:05	4° 5 01'36	3°07'07
evening set	14048 Jun 24 04:53	26°900'46		minimum elong	14049 Jun 13 19:15	4° © 04'32	3°05'59
inferior conj	14048 Jun 29 11:16	19° © 56'19	3°11'32	min. Earth dist.	14049 Jun 14 00:39	3° © 45'40	0.68857 AU
minimum elong	14048 Jun 29 11:23	19° © 55'56	3°10'30		14049 Jun 16 20:46	30°R Ⅱ	
min. Earth dist.	14048 Jun 30 05:18	18° © 54'35	0.68278 AU	morning rise	14049 Jun 19 00:11	27° Ⅱ 45'34	
morning rise	14048 Jul 04 17:34	13° © 34'47		direct	14049 Jun 24 00:05	25° Ⅲ 36′21	
direct	14048 Jul 10 06:02	11° © 09'03			14049 Jul 02 09:43	0°©	
desc. node	14048 Jul 15 22:36	13°9510'11		desc. node	14049 Jul 02 19:50	0° © 23'27	
morning max el	14048 Jul 21 11:26	17°952'15	24°12'14	morning max el	14049 Jul 03 22:51	1° 5 29'12	22°42'46
morning must vi	14048 Jul 31 15:17	0°Ω	22	morning man er	14049 Jul 25 12:51	0°Ω	0
	14048 Aug 20 17:32	0° m)		morning set	14049 Aug 06 21:13	19° Ω 20'27	
morning act	•			•	•		1 40500 411
morning set	14048 Aug 25 22:20	8° Mp 45'03	1 20140 477	max. Earth dist.	14049 Aug 11 13:37	27° Ω 09'17	1.40500 AU
max. Earth dist.	14048 Aug 29 14:11	15° m) 10'35	1.38140 AU		14049 Aug 13 05:32	0° m	
	14040 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200** 2011	0000107		14040 + 10 00 11	100** 7 *** -	1002171
superior conj	14048 Sep 05 21:01	28° m 39'15		superior conj	14049 Aug 19 09:41	10° m 54'05	
minimum elong	14048 Sep 05 23:00	28° m 48'40	0°28'13	minimum elong	14049 Aug 19 14:31	11° M)16'00	1°03'33
	1 40 40 0 0 0 10 70	0∘ ರ		asc. node	14049 Aug 26 20:37	24° Mp 44'10	
1	14048 Sep 06 13:52	• –			•		
asc. node	14048 Sep 06 13:52 14048 Sep 09 00:05	4° ≙ 42'18		evening rise	14049 Aug 29 08:03	29° m 25'31	
evening rise	-				=	29° ™ 25'31 0° ₽	
	14048 Sep 09 00:05	4° ≏ 42'18			14049 Aug 29 08:03	-	18°25'10
	14048 Sep 09 00:05 14048 Sep 14 15:18	4° £ 42'18 15° £ 50'11	19°05'39	evening rise	14049 Aug 29 08:03 14049 Aug 29 15:20	0∘ ⊽	18°25'10

evening set	14049 Sep 23 23:44	28° ≏ 44'01		evening max el	14050 Aug 28 17:47	7° ≙ 57'56	18°05'14
desc. node	14049 Sep 28 16:19	26° £ 25'59		retrograde	14050 Sep 04 13:41	11° ≙ 27'56	10 00 1 .
inferior conj	14049 Oct 01 16:33	24° ₽ 09'28	-0°57'17	evening set	14050 Sep 06 21:30	11° ഫ 03'49	
minimum elong	14049 Oct 01 14:21	24° £ 13'53	0°56'04	inferior conj	14050 Sep 13 20:27	6° £ 08'59	0°31'43
min. Earth dist.	14049 Oct 04 22:46	21° ₽ 34'01	0.58056 AU	minimum elong	14050 Sep 13 21:27	6° £ 06'40	0°31'21
morning rise	14049 Oct 09 01:29	18° ≏ 52'02		desc. node	14050 Sep 15 13:51	4° £ 32'16	
direct	14049 Oct 15 06:10	17° ≙ 12'55		min. Earth dist.	14050 Sep 17 01:28	3° ≙ 11'18	0.60291 AU
morning max el	14049 Oct 29 13:36	24° ≙ 48'21	27°10'24	morning rise	14050 Sep 20 18:15	0° ჲ 20'22	
•	14049 Nov 03 08:39	0°M			14050 Sep 21 07:42	30°R, Mp	
asc. node	14049 Nov 22 22:22	0° ∡ ¹42'55		direct	14050 Sep 27 07:54	28° m) 14'55	
	14049 Nov 22 13:27	0° ∡ ¹			14050 Oct 03 16:18	0∘ ⊽	
morning set	14049 Nov 28 23:55	13° ∡ ¹04'20		morning max el	14050 Oct 11 14:53	6° £ 07'43	27°52'24
					14050 Oct 29 13:29	0° M	
superior conj	14049 Dec 05 20:49	28° ∡ 11'45	1°34'26	asc. node	14050 Nov 09 19:10	20°M21'19	
minimum elong	14049 Dec 05 19:41	28° ∡ ¹05'27	1°35'25	morning set	14050 Nov 13 04:36	27° M 17'33	
max. Earth dist.	14049 Dec 05 21:55	28° ∡ 17'53	1.31188 AU		14050 Nov 14 11:22	0° ∡ ¹	
	14049 Dec 06 16:11	0°ಕ		max. Earth dist.	14050 Nov 19 05:34	10° ∡ ¹22'25	1.31255 AU
evening rise	14049 Dec 12 15:48	13° る 08'48					
	14049 Dec 21 02:35	0° ≈		superior conj	14050 Nov 20 07:58	12° ∡ ¹49'11	1°25'02
desc. node	14049 Dec 25 14:00	7° ≈ 51'24		minimum elong	14050 Nov 20 06:04	12° ∡ ³38'38	1°25'48
	14050 Jan 11 01:54	0° ∀		evening rise	14050 Nov 27 00:38	27° ∡ ³36'54	
evening max el	14050 Jan 11 20:09	0°) 44'06	26°53'20		14050 Nov 28 03:20	0°ರ	
retrograde	14050 Jan 25 19:25	7° ¥ 55'45		desc. node	14050 Dec 12 10:59	26° පි 30'11	
evening set	14050 Feb 01 11:19	6° ₩ 03'16			14050 Dec 14 19:20	0° ≈	
min. Earth dist.	14050 Feb 05 10:11	3° ¥ 24'13	0.59518 AU	evening max el	14050 Dec 24 15:30	11° ≈ 48′16	25°44'00
inferior conj	14050 Feb 08 14:53	0°) 51′28	-3°14'01	retrograde	14051 Jan 07 13:20	18° ≈ 49'35	
minimum elong	14050 Feb 08 21:57	0° ∺ 37'21	3°10'51	evening set	14051 Jan 13 14:36	17° ≈ 24'36	
	14050 Feb 09 16:54	30°R ≈		min. Earth dist.	14051 Jan 18 04:13	14° ≈ 46′30	0.57421 AU
morning rise	14050 Feb 16 11:47	26° ≈ 11'11		inferior conj	14051 Jan 21 02:41	12° ≈ 44'43	-4°36'35
direct	14050 Feb 18 12:31	25° ≈ 55'50		minimum elong	14051 Jan 21 11:38	12° ≈ 29'13	4°33'17
asc. node	14050 Feb 18 20:29	25° ≈ 56′16		morning rise	14051 Jan 29 11:29	8° ≈ 26′29	
morning max el	14050 Feb 26 03:44	29° ≈ 43'17	18°09'56	direct	14051 Jan 31 13:28	8° ≈ 13′04	
	14050 Feb 26 10:27	0°) €		asc. node	14051 Feb 05 17:54	9° ≈ 41'56	
morning set	14050 Mar 13 18:48	24°) 29′51		morning max el	14051 Feb 09 08:54	12° ≈ 31′07	18°51'19
	14050 Mar 16 17:15	0° Y			14051 Feb 21 02:44	0°) €	
				morning set	14051 Feb 25 16:24	8°) 46′37	
superior conj	14050 Mar 23 11:52	12° Y 26′28	0°01'20				
minimum elong	14050 Mar 23 11:57	12° Y 26'53	0°01'11	superior conj	14051 Mar 06 06:52	25° ¥ 28'51	0°34'01
behind sun begin	14050 Mar 23 04:23	11° Y 52'50		minimum elong	14051 Mar 06 08:57	25°) 38′44	0°33'51
behind sun end	14050 Mar 23 19:32	13° Y 00′50			14051 Mar 08 16:47	0° Y	
desc. node	14050 Mar 23 15:49	12° Ƴ 44'10		desc. node	14051 Mar 10 12:18	3° Ƴ 19'44	
max. Earth dist.	14050 Mar 31 02:48	25° Y 41′22	1.41611 AU	max. Earth dist.	14051 Mar 13 09:52	8° Ƴ 31'32	1.39394 AU
	14050 Apr 02 16:56	0° 8		evening rise	14051 Mar 17 07:37	15° Ƴ 17'30	
evening rise	14050 Apr 05 01:21	3° 8 50'15			14051 Mar 26 08:52	0°8	
	14050 Apr 22 07:20	Π °0			14051 Apr 17 01:57	Π °0	
evening max el	14050 May 08 18:05	20° Ⅱ 42'23	22°54'02	evening max el	14051 Apr 21 08:04	4° Ⅱ 35'26	24°14'58
asc. node	14050 May 17 17:07	26° Ⅱ 35'38		retrograde	14051 May 02 16:02	11° Ⅱ 14'09	
retrograde	14050 May 18 22:36	26° ∐ 42'26		asc. node	14051 May 04 14:24	10° Ⅱ 57'40	
evening set	14050 May 23 21:59	24° Ⅱ 36'44		evening set	14051 May 08 02:57	8° Ⅱ 55'54	
inferior conj	14050 May 29 05:46	18° Ⅱ 12'37		min. Earth dist.	14051 May 12 17:32	3° Ⅱ 37'09	0.68591 AU
minimum elong	14050 May 29 04:10	18° Ⅱ 18'12		inferior conj	14051 May 13 14:30	2° Ⅱ 26'19	2°26'55
min. Earth dist.	14050 May 28 21:25	18° Ⅱ 41'40	0.68959 AU	minimum elong	14051 May 13 12:25	2° Ⅲ 33′20	2°25'33
morning rise	14050 Jun 03 10:16	12° Ⅱ 03′28			14051 May 15 10:54	30° ₹ 8	
direct	14050 Jun 07 21:24	10° Ⅱ 13'52		morning rise	14051 May 18 21:59	26° 8 25'12	
morning max el	14050 Jun 16 14:18	15° Ⅱ 15'31	21°17'51	direct	14051 May 22 20:51	24° 8 56'07	20002110
desc. node	14050 Jun 19 16:58	18° Ⅱ 38'03		morning max el	14051 May 30 12:22	29° 8 13'21	20°03'48
	14050 Jun 28 11:06	0°9			14051 May 31 06:44	0°II	
morning set	14050 Jul 17 19:21	28°951'29		desc. node	14051 Jun 06 13:58	7° Ⅱ 37'55	
E d E	14050 Jul 18 12:45	0°N	1 40/// 411		14051 Jun 21 23:32	0°95	
max. Earth dist.		9° Ω 59'20	1.42666 AU	morning set	14051 Jun 26 23:42	7° 9 38'47	
	14050 Jul 24 18:06				14051 1 1 07 04 50		
			1007122	max. Earth dist.	14051 Jul 07 04:58	23°937'15	1.44398 AU
superior conj	14050 Aug 01 01:50	22° Ω 13'59		max. Earth dist.	14051 Jul 07 04:58 14051 Jul 11 04:25	23° © 37'15 0° Ω	1.44398 AU
	14050 Aug 01 01:50 14050 Aug 01 08:58	22°Ω13'59 22°Ω44'32			14051 Jul 11 04:25	0°N	
superior conj minimum elong	14050 Aug 01 01:50 14050 Aug 01 08:58 14050 Aug 05 13:12	22° N 13'59 22° N 44'32 0° M		superior conj	14051 Jul 11 04:25 14051 Jul 12 18:31	0° Ω 2° Ω 34'37	-2°03'04
superior conj minimum elong evening rise	14050 Aug 01 01:50 14050 Aug 01 08:58 14050 Aug 05 13:12 14050 Aug 12 11:56	22° Ω 13'59 22° Ω 44'32 0° m 12° m 25'01		superior conj minimum elong	14051 Jul 11 04:25 14051 Jul 12 18:31 14051 Jul 13 00:52	0°Ω 2°Ω34'37 3°Ω00'28	-2°03'04
superior conj minimum elong	14050 Aug 01 01:50 14050 Aug 01 08:58 14050 Aug 05 13:12	22° N 13'59 22° N 44'32 0° M		superior conj	14051 Jul 11 04:25 14051 Jul 12 18:31	0° Ω 2° Ω 34'37	-2°03'04

asc. node	14051 Jul 31 13:50	4° Mp 16'33		evening max el	14052 Jul 25 22:04	4° m/51'23	18°21'45
evening max el	14051 Aug 12 08:01	21° m) 15'56	18°04'24	retrograde	14052 Jul 23 22:04 14052 Aug 01 07:29	8° M) 16'01	16 21 43
•	14051 Aug 12 08:01	21° m) 36'24	16 04 24	-			
retrograde	•	•		evening set	14052 Aug 04 08:20	7° Mp 25'02	2025120
evening set	14051 Aug 21 10:01	24° m, 00'09	1020155	inferior conj	14052 Aug 10 04:39	1° Mp 55'21	2°25'30
inferior conj	14051 Aug 27 17:50	18° Mp 46'54	1°38'55	minimum elong	14052 Aug 10 07:00	1° My 48'26	2°24'21
minimum elong	14051 Aug 27 20:10	18° Mp 40'45	1°37'52		14052 Aug 11 19:55	30°R€	0.64660.477
min. Earth dist.	14051 Aug 30 13:43	15° m) 48'40	0.62572 AU	min. Earth dist.	14052 Aug 12 11:21	29° Ω 15'34	0.64660 AU
desc. node	14051 Sep 02 11:24	13° Mp 09'19		morning rise	14052 Aug 16 04:18	25° Ω 34'46	
morning rise	14051 Sep 03 04:03	12° m 37'34		desc. node	14052 Aug 19 08:54	23° Ω 37'44	
direct	14051 Sep 09 20:22	10° mp 11'33		direct	14052 Aug 22 17:27	22° Ω 57'24	
morning max el	14051 Sep 23 21:58	18° m 12'25	27°55'19		14052 Sep 04 10:04	0° m)	
	14051 Oct 03 20:02	0∘ ⊽		morning max el	14052 Sep 05 08:17	0° m 54'46	27°22'47
	14051 Oct 22 09:54	0°M₊			14052 Sep 26 22:15	0∘ ত	
asc. node	14051 Oct 27 15:55	10°M13'55		morning set	14052 Oct 10 16:22	24° ≏ 35'20	
morning set	14051 Oct 28 02:57	11°M09'55			14052 Oct 13 09:28	0° M	
max. Earth dist.	14051 Nov 02 09:01	22°M12'28	1.31863 AU	asc. node	14052 Oct 13 12:35	0°M15'46	
				max. Earth dist.	14052 Oct 15 04:52	3°M42'17	1.33021 AU
superior conj	14051 Nov 04 16:51	27°M16'33	1°09'50				
minimum elong	14051 Nov 04 14:34	27°ML04'04	1°10'19	superior conj	14052 Oct 18 21:23	11°ML28'20	0°48'54
	14051 Nov 05 22:35	0° ∡ ¹		minimum elong	14052 Oct 18 19:16	11°ML17'03	0°49'08
evening rise	14051 Nov 11 11:25	12° ₰ 08'13		evening rise	14052 Oct 25 22:21	26°M38'07	
	14051 Nov 20 08:59	0°ರ			14052 Oct 27 12:31	0° ∡ ¹	
desc. node	14051 Nov 29 08:04	14° る 14'19			14052 Nov 14 13:13	0°ರ	
evening max el	14051 Dec 06 03:27	22° る 07'14	24°09'59	desc. node	14052 Nov 15 05:15	0° る 43'50	
retrograde	14051 Dec 19 18:26	28° る 54'06		evening max el	14052 Nov 16 13:53	2° る 07'15	22°27'28
evening set	14051 Dec 24 18:29	27° る 59'27		retrograde	14052 Nov 29 10:40	8° පි 29'51	
min. Earth dist.	14051 Dec 30 14:56	25° පි 04'29	0.55713 AU	evening set	14052 Dec 03 02:15	8° ප 00'41	
inferior conj	14052 Jan 01 17:40	23° る 47'20	-5°39'13	min. Earth dist.	14052 Dec 10 21:23	4° る 30'23	0.54682 AU
minimum elong	14052 Jan 02 00:01	23° る 37'38	5°37'20	inferior conj	14052 Dec 11 15:22	4° ප 05'05	-5°57'23
morning rise	14052 Jan 10 07:26	19° る 48'35		minimum elong	14052 Dec 11 13:32	4° ට 07'41	5°56'15
direct	14052 Jan 12 18:58	19° る 32'39		morning rise	14052 Dec 20 01:59	0° る 17'41	
morning max el	14052 Jan 23 01:59	24° පි 30'01	19°55'19	Č	14052 Dec 21 16:15	30°R. ∕ 7	
asc. node	14052 Jan 23 15:17	25° る 02'58		direct	14052 Dec 23 08:24	29° ₹ 53'32	
	14052 Jan 27 18:34	0° ≈			14052 Dec 24 23:58	0°₹	
morning set	14052 Feb 09 21:13	23° ≈ 20'33		morning max el	14053 Jan 04 04:24	5° ರ 33'41	21°22'09
	14052 Feb 13 03:33	0°) €		asc. node	14053 Jan 09 12:35	11° る 43'10	
		• //			14053 Jan 20 07:40	0° ≈	
superior conj	14052 Feb 17 16:24	9° ₩ 09'44	1°00'03	morning set	14053 Jan 24 06:29	8° ≈ 03'56	
minimum elong	14052 Feb 17 19:07	9° ₩ 23'12	1°00'08				
max. Earth dist.	14052 Feb 23 16:14	20°) 44'45	1.37147 AU	superior conj	14053 Jan 31 12:33	23° ≈ 18'33	1°19'07
desc. node	14052 Feb 25 08:49	23°) 52'43		minimum elong	14053 Jan 31 14:57	23° ≈ 31'00	1°19'34
evening rise	14052 Feb 27 09:53	27°\ 35'06		g	14053 Feb 03 18:58	0° ∀	1 1,5.
evening 1150	14052 Feb 28 18:31	0°Υ		max. Earth dist.	14053 Feb 05 02:53	2°) 39'36	1.35091 AU
	14052 Mar 18 18:43	0°8		evening rise	14053 Feb 09 04:58	10°) 34'19	1.55071710
evening max el	14052 Apr 02 21:39	18° 8 28'44	25°30'51	desc. node	14053 Feb 11 05:22	14°) 19'27	
retrograde	14052 Apr 15 05:05	25° 8 35'19	23 3031	dese. Hode	14053 Feb 20 07:13	0° Υ	
asc. node	14052 Apr 20 11:47	23° 8 39'05			14053 Mar 14 05:54	0°8	
evening set	14052 Apr 21 03:21	23° 8 08'00		evening max el	14053 Mar 16 11:29	2° 8 16'27	26°34'09
min. Earth dist.	14052 Apr 25 10:46	18° 8 25'09	0.67770 AU	retrograde	14053 Mar 29 12:43	9° 8 38'59	20 3407
inferior conj	14052 Apr 26 20:16	16° 8 37'24	1°51'13	evening set	14053 Apr 04 21:24	7° 8 07'03	
minimum elong	14052 Apr 26 18:10	16° 8 44'12		asc. node	14053 Apr 07 09:13	4° 8 45'25	
morning rise	14052 May 02 09:26	10° 8 45'43	1 49 33	min. Earth dist.	14053 Apr 07 03:15	2° 8 58'59	0.66524 AU
direct	14052 May 05 20:50	9° 8 36'23		inferior conj	14053 Apr 08 22:58	0° 8 41'03	1°04'26
	•	13° 8 20'41	19°04'20		•	0° 8 45'41	1°03'26
morning max el	14052 May 12 17:52 14052 May 23 10:52		19*04 20	minimum elong	14053 Apr 10 19:25	0° 6 4541 30° R Υ	1 03 26
desc. node	-	27° 8 10'09			14053 Apr 11 10:42	30 K 1 25° Υ 00'34	
	14052 May 25 08:40	0°Ⅱ 0°Ⅱ42/22	0.7	morning rise	14053 Apr 16 18:29		
greatest brilliancy	14052 May 25 19:59	0° ∏ 42′22	-0.7m	direct	14053 Apr 19 19:27	24° Y 08'56	10021112
morning set	14052 Jun 05 04:53	16° Ⅱ 34'16		morning max el	14053 Apr 26 05:55	27° Y 33'15 0° と	18°21'12
To all II a	14052 Jun 13 20:45	0°9	1 45506 411	1 1	14053 Apr 28 12:08	_	
max. Earth dist.	14052 Jun 18 21:36	7°951'47	1.45506 AU	desc. node	14053 May 10 07:37	17° 8 05'56	
	14052 1 2: :225	120502100	2012141	morning set	14053 May 16 06:38	26° 8 32'31	
superior conj	14052 Jun 21 13:35	12°503'09			14053 May 18 10:56	Π \circ 0	
minimum elong	14052 Jun 21 14:02	12° © 04'55	2~14'44		1405075	210	2004:22
	14052 Jul 02 19:20	0°Ω		superior conj	14053 May 31 21:45	21° I I09'01	
evening rise	14052 Jul 06 09:29	5° Ω 50'07		minimum elong	14053 May 31 14:50	20° ∏ 42'04	
asc. node	14052 Jul 17 10:34	23° Ω 37'36		max. Earth dist.	14053 Jun 01 17:34	22° Ⅱ 26′24	1.45885 AU
	14052 Jul 21 19:41	0° m)			14053 Jun 06 13:53	0ංම	

evening rise	14053 Jun 16 20:17	16° © 02'41		max. Earth dist.	14054 May 15 13:46	7° Ⅱ 03'09	1.45509 AU
	14053 Jun 25 18:51	0 \circ Ω		evening rise	14054 May 27 12:16	25° Ⅱ 33'26	
greatest brilliancy	14053 Jun 26 18:52	1° Ω 32'25	-0.8m		14054 May 30 09:57	0 \circ 50	
asc. node	14053 Jul 04 07:22	12° £ 32′53		greatest brilliancy	14054 Jun 10 21:34	17° © 14'12	-0.6m
evening max el	14053 Jul 09 09:05	18° Ω 36′19	18°56'27		14054 Jun 20 09:24	0 \circ Ω	
retrograde	14053 Jul 16 02:55	22° Ω 18'34		asc. node	14054 Jun 21 04:16	0° £ 53′33	
evening set	14053 Jul 19 12:49	21° Ω 11'17		evening max el	14054 Jun 22 15:02	2° Ω 25′23	19°47'23
inferior conj	14053 Jul 25 01:13	15° Ω 26'46	2°54'33	retrograde	14054 Jun 30 01:17	6° Ω 37'30	
minimum elong	14053 Jul 25 02:53	15° Ω 21'27	2°53'28	evening set	14054 Jul 03 20:45	5° Ω 13'16	
min. Earth dist.	14053 Jul 26 17:27	13° Ω 19'12	0.66405 AU		14054 Jul 08 15:11	30° ₹ ∽	
morning rise	14053 Jul 30 16:13	9° Ω 02'07		inferior conj	14054 Jul 09 04:29	29° © 15'30	3°08'57
direct	14053 Aug 05 21:46	6° Ω 22'57		minimum elong	14054 Jul 09 05:11	29° © 13'09	3°07'56
desc. node	14053 Aug 06 06:22	6° Ω 23'25		min. Earth dist.	14054 Jul 10 06:26	27° © 48'27	0.67723 AU
morning max el	14053 Aug 18 19:31	14° Ω 03'19	26°22'09	morning rise	14054 Jul 14 13:13	22° 9 51'41	
	14053 Aug 31 18:58	o° mp		direct	14054 Jul 20 08:18	20°519'09	
	14053 Sep 19 15:59	0∘ ⊽		desc. node	14054 Jul 24 03:44	21°9513'37	
morning set	14053 Sep 23 17:35	7° ₽ 25'43		morning max el	14054 Aug 01 06:19	27° © 27'45	25°02'38
max. Earth dist.	14053 Sep 27 14:59	14° ≙ 53'05	1.34704 AU	S	14054 Aug 03 15:34	$0^{\circ}\Omega$	
asc. node	14053 Sep 30 09:09	20° ჲ 22'06			14054 Aug 25 10:32	0° m)	
	o.p			morning set	14054 Sep 06 02:46	19° m 32'28	
superior conj	14053 Oct 02 19:03	25° ₽ 17'23	0°22'29	max. Earth dist.	14054 Sep 09 16:28	26° m) 00'40	1.36809 AU
minimum elong	14053 Oct 02 17:50	25° ⊆ 11'07		max. Darm dist.	14054 Sep 11 19:44	0∘ ⊽	1.50009 110
minimum clong	14053 Oct 05 01:29	0°M	0 22 30		14034 5ср 11 17.44	٥ –	
evening rise	14053 Oct 05 01:25	11°ML00'50		superior conj	14054 Sep 16 06:55	8° ≏ 37'01	0000140
evening rise	14053 Oct 10 07:23	0° √		minimum elong	14054 Sep 16 00:33	8° ⊆ 37'01	
			20052120	•	-		0 00 30
evening max el	14053 Oct 29 08:11	12° x ⁷ 24'31	20°53'30	behind sun begin	14054 Sep 16 01:56	8° £ 12'31	
desc. node	14053 Nov 02 02:33	15° × ⁷ 32'48		behind sun end	14054 Sep 16 13:00	9° ₽ 07'02	
retrograde	14053 Nov 09 21:07	18° ∡ 708'40		asc. node	14054 Sep 17 05:42	10° £ 29'39	
evening set	14053 Nov 12 08:18	17° ∡ 54'05		evening rise	14054 Sep 24 12:26	25° £ 11'03	
inferior conj	14053 Nov 21 06:30	14° ∡ ′00′33			14054 Sep 26 22:03	0°M	
minimum elong	14053 Nov 20 21:20	14° ∡ 13'36		evening max el	14054 Oct 11 16:29	23°M26'28	19°38'38
min. Earth dist.	14053 Nov 22 03:12	13° ⋌ ³31'03	0.54534 AU	desc. node	14054 Oct 19 23:54	28° ™ 15'47	
morning rise	14053 Nov 29 10:37	10° ∡ 07'10		retrograde	14054 Oct 21 14:05	28°M23'11	
direct	14053 Dec 03 15:51	9° ∡ °29′03		evening set	14054 Oct 23 11:49	28°M13′00	
morning max el	14053 Dec 16 18:24	15° ∡ ¹49'53	23°06'46	inferior conj	14054 Nov 01 05:59	24°M09'19	-3°45'04
asc. node	14053 Dec 27 09:46	29° ∡ 24′23		minimum elong	14054 Oct 31 20:44	24°M23'52	3°41'10
	14053 Dec 27 18:40	0°ප		min. Earth dist.	14054 Nov 03 11:59	22° M 44'21	0.55322 AU
morning set	14054 Jan 08 17:58	22° る 49'33		morning rise	14054 Nov 09 03:50	19° M 49'32	
	14054 Jan 12 01:57	0° ≈		direct	14054 Nov 14 06:38	18° M 51′20	
				morning max el	14054 Nov 28 03:57	25° M ₊47'20	24°55'24
superior conj	14054 Jan 15 16:03	7° ≈ 45'33	1°31'27		14054 Dec 02 03:21	0° ∡ 7	
minimum elong	14054 Jan 15 17:37	7° ≈ 53'56	1°32'15	asc. node	14054 Dec 14 06:50	17° ∡ 52′04	
max. Earth dist.	14054 Jan 18 20:35	14° ≈ 31'46	1.33382 AU		14054 Dec 20 15:34	8°0	
evening rise	14054 Jan 23 13:17	24° ≈ 05′21		morning set	14054 Dec 24 05:49	7° る 32'10	
	14054 Jan 26 14:41	0°) €					
desc. node	14054 Jan 29 01:59	4°) €35'03		superior conj	14054 Dec 31 00:20	22° る 23'21	1°37'23
	14054 Feb 13 20:59	$0^{\circ}\mathbf{\Upsilon}$		minimum elong	14054 Dec 31 00:50	22° る 26'07	1°38'24
evening max el	14054 Feb 27 00:53	15° Ƴ 48'35	27°17'37	max. Earth dist.	14055 Jan 01 21:34	26° පි 31'02	1.32129 AU
retrograde	14054 Mar 12 14:13	23° Y 17'02			14055 Jan 03 12:12	0° ≈	
evening set	14054 Mar 19 07:03	20° Ƴ 46'21		evening rise	14055 Jan 07 07:40	8° ≈ 00'34	
min. Earth dist.	14054 Mar 23 03:55	17° Ƴ 10'49	0.64885 AU	desc. node	14055 Jan 15 22:39	24° ≈ 34'06	
asc. node	14054 Mar 25 06:40	14° Y ′52'03			14055 Jan 19 01:43	0° ∀	
inferior conj	14054 Mar 25 14:07	14° Y 31'32	0°05'57	evening max el	14055 Feb 09 12:17	28° ¥ 53′10	27°34'16
minimum elong	14054 Mar 25 13:57	14° Y ′32'00	0°05'43	C	14055 Feb 10 17:08	$0^{\circ}\Upsilon$	
transit middle	14054 Mar 25 13:57	14° Y ′32'00	0°05'43	retrograde	14055 Feb 23 08:46	6° Υ 19'19	
transit begin	14054 Mar 25 11:06	14° Y 39'50	0 03 13	evening set	14055 Mar 02 05:49	3° Υ 57'16	
transit end	14054 Mar 25 16:47	14° Υ 24'11		min. Earth dist.	14055 Mar 06 00:01	0° Υ 49'50	0.62926 AU
morning rise	14054 Mar 31 22:40	9° Υ 04'29		mm. Earth dist.	14055 Mar 06 20:42	30°R ₩	0.02/20710
direct	14054 Apr 03 14:20	8° Υ 27'39		inferior conj	14055 Mar 08 20:47	28° ₩ 01'08	-1°04'26
morning max el	14054 Apr 09 22:18	8 1 27 39 11° Υ 44'24	17°55'03	minimum elong	14055 Mar 08 22:55	28 H 0108 27° H 55'52	
morning max er	-	0° 8	17 55 05	asc. node		24° H 59'33	1 03 24
dogo	14054 Apr 22 18:05	7° 8 18'51			14055 Mar 12 04:08	24° X 59'33 22° X 50'00	
desc. node	14054 Apr 27 04:18			morning rise	14055 Mar 15 18:41	22° 1 50'00 22° 1 24'28	
morning set	14054 Apr 27 12:32	7° 8 52'57		direct	14055 Mar 18 02:30		17046117
	14054 May 11 02:41	Π $^{\circ}0$		morning max el	14055 Mar 24 16:05	25°) 45′08	17°46'17
	1406434 44 45 4	00.77.000	1027104	•	14055 Mar 28 06:53	0°Υ 202 0/2 510 1	
superior conj	14054 May 11 12:31	0°Щ39'03		morning set	14055 Apr 09 19:41	20° Y 25′01	
minimum elong	14054 May 11 03:35	0°Щ03'33	1~3 / 00	desc. node	14055 Apr 14 00:54	27° Ƴ 43'13	

	14055 Apr 15 08:47	0° 8		superior conj minimum elong	14056 Apr 02 10:08 14056 Apr 02 08:21	22° Y '41'08 22° Y '33'24	
superior conj	14055 Apr 21 23:18	11° 8 06'48	-0°59'33		14056 Apr 06 16:41	0° 8	
minimum elong	14055 Apr 21 17:25	10° 8 42'30	0°59'19	max. Earth dist.	14056 Apr 09 21:14	5° 8 18'39	1.42769 AU
max. Earth dist.	14055 Apr 28 07:29	21° 8 24'56	1.44431 AU	evening rise	14056 Apr 15 22:01	15° 8 02'09	
	14055 May 03 18:05	Π °0			14056 Apr 25 16:19	Π °0	
evening rise	14055 May 06 23:38	5° Ⅱ 00′11			14056 May 18 07:33	0 \circ \odot	
	14055 May 23 19:23	0 \circ		evening max el	14056 May 18 09:50	0° 9 05'43	22°07'55
evening max el	14055 Jun 05 15:03	16° © 15'05	20°52'27	asc. node	14056 May 24 22:22	5° 5 00'12	
asc. node	14055 Jun 08 01:16	18° © 27'28		retrograde	14056 May 27 22:05	5° © 40'35	
retrograde	14055 Jun 14 00:17	21° © 06'26		evening set	14056 Jun 01 14:51	3° © 43'35	
evening set	14055 Jun 18 06:00	19° © 25'24			14056 Jun 04 23:51	30°RⅡ	
inferior conj	14055 Jun 23 11:55	13° © 15'55	3°10'59	inferior conj	14056 Jun 06 21:22	27° Ⅲ 24'17	
minimum elong	14055 Jun 23 11:36	13°5516'58	3°09'55	minimum elong	14056 Jun 06 20:10	27° Ⅱ 28'27	3°00'49
min. Earth dist.	14055 Jun 24 00:09	12°533'29	0.68581 AU	min. Earth dist.	14056 Jun 06 20:28	27° Ⅲ 27'24	0.68963 AU
morning rise	14055 Jun 28 16:56	6°956'13		morning rise	14056 Jun 12 01:18	21° Ⅱ 10'49	
direct	14055 Jul 04 00:03	4°936'57		direct	14056 Jun 16 19:49	19° Ⅱ 09'27 24° Ⅱ 40'09	22905120
desc. node morning max el	14055 Jul 11 01:03 14055 Jul 14 16:51	7° © 41'39 11° © 00'11	23°34'00	morning max el desc. node	14056 Jun 26 05:26 14056 Jun 26 22:16	25° I I23'11	22°05'30
morning max er	14055 Jul 29 19:54	0°Ω	25 34 00	desc. node	14056 Jun 30 23:48	25 11 25 11	
	14055 Aug 18 04:53	0°Mp			14056 Jul 22 05:48	0° U	
morning set	14055 Aug 18 15:19	0°Mp43'56		morning set	14056 Jul 29 03:30	10° Ω 51'03	
max. Earth dist.	14055 Aug 18 15:19	-	1.39149 AU	max. Earth dist.	14056 Aug 03 14:54	19° Ω 48'50	1.41466 AU
max. Lartii dist.	14033 Aug 22 14.00	/ my 50 55	1.57147710	max. Dartii dist.	14056 Aug 09 14:15	0° m	1.41400710
superior conj	14055 Aug 30 05:14	21° mp 18'02	-0°43'26		11030 11ug 07 11.13	V IIV	
minimum elong	14055 Aug 30 08:24	21° mp 32'48		superior conj	14056 Aug 11 09:43	3° m/ 10'43	-1°18'38
	14055 Sep 03 19:07	0∘ ⊽		minimum elong	14056 Aug 11 15:43	3° m) 37'15	
asc. node	14055 Sep 04 02:15	0° ჲ 34'23		asc. node	14056 Aug 20 22:47	20° m/32'36	
evening rise	14055 Sep 08 10:36	9° ჲ 01'09		evening rise	14056 Aug 21 22:24	22° m/22'11	
C	14055 Sep 20 06:31	0° M		C	14056 Aug 26 01:47	0∘ <u>⊽</u>	
evening max el	14055 Sep 24 14:17	5° M 17′59	18°45'51	evening max el	14056 Sep 06 21:45	17° ≙ 51'05	18°14'19
retrograde	14055 Oct 02 23:21	9° ™ 30′54		retrograde	14056 Sep 14 03:52	21° ≏ 32'24	
evening set	14055 Oct 04 20:57	9° ™ 18'42		evening set	14056 Sep 16 07:26	21° ≏ 13'37	
desc. node	14055 Oct 06 21:20	8°M40'53		desc. node	14056 Sep 22 18:52	17° ≏ 15'59	
inferior conj	14055 Oct 13 00:19	4°M56'43	-1°56'51	inferior conj	14056 Sep 23 16:27	16° ≏ 30'23	-0°16'57
minimum elong	14055 Oct 12 19:29	5°M05'33	1°54'25	minimum elong	14056 Sep 23 15:51	16° ≏ 31'40	0°16'30
min. Earth dist.	14055 Oct 16 02:08	2°M42'38	0.56900 AU	min. Earth dist.	14056 Sep 26 23:32	13° ≏ 42'51	0.58990 AU
morning rise	14055 Oct 20 14:42	0°M00'20		morning rise	14056 Sep 30 20:51	10° ჲ 58'53	
	14055 Oct 20 15:00	30° ₹ Ω		direct	14056 Oct 07 06:25	9° ჲ 07'56	
direct	14055 Oct 26 11:40	28° ≏ 36'31		morning max el	14056 Oct 21 13:46	16° ≏ 51'13	27°33'01
	14055 Nov 01 09:59	0° M			14056 Nov 01 10:30	0°M₊	
morning max el	14055 Nov 09 17:08		26°29'24	asc. node	14056 Nov 17 00:41	26°M21'59	
	14055 Nov 27 08:04	0° ∡ 7			14056 Nov 18 20:26	0° ∡ ¹	
asc. node	14055 Dec 01 03:49	6° ₹ 54'35		morning set	14056 Nov 21 23:38	6° ∡ 129'44	
morning set	14055 Dec 08 16:18	22° ₹ 07'24			14056 N 20 22 50	210 746121	1021110
	14055 Dec 12 06:47	0°ಕ		superior conj	14056 Nov 28 22:50	21° х 46'31 21° х 38'11	1°31'10 1°32'04
superior conj	14055 Dec 15 11:15	7° る 05'53	1°37'14	minimum elong max. Earth dist.	14056 Nov 28 21:21 14056 Nov 28 12:09	20° x 46'48	1.31151 AU
minimum elong	14055 Dec 15 10:41	7°る03'33	1°38'16	max. Earm dist.	14056 Dec 02 15:23	20 x 4048	1.51151 AU
max. Earth dist.	14055 Dec 16 03:51	8° る 38'21	1.31379 AU	evening rise	14056 Dec 05 16:19	6° る 37'53	
evening rise	14055 Dec 22 09:28	22°る13'43	1.51577710	evening rise	14056 Dec 17 17:56	0°≈	
e vening rise	14055 Dec 26 04:22	0°≈		desc. node	14056 Dec 19 16:18	3°≈12'41	
desc. node	14056 Jan 02 19:25	14° ≈ 09'55		evening max el	14057 Jan 03 20:01	22°≈54'00	26°27'43
	14056 Jan 13 02:01	0° ∀			14057 Jan 17 05:39	0° ∀	
evening max el	14056 Jan 22 19:34	11°) 18'40	27°18'26	retrograde	14057 Jan 17 19:07	0°) 00'46	
retrograde	14056 Feb 05 19:01	18°) (36′33		Č	14057 Jan 18 08:33	30°R ≈	
evening set	14056 Feb 12 14:42	16°) 31′23		evening set	14057 Jan 24 05:53	28° ≈ 19'44	
min. Earth dist.	14056 Feb 16 10:06	13°) 44'41	0.60772 AU	min. Earth dist.	14057 Jan 28 09:40	25° ≈ 42'50	0.58597 AU
inferior conj	14056 Feb 19 13:38	11° ∺ 01'29	-2°24'59	inferior conj	14057 Jan 31 12:57	23° ≈ 21'40	-3°50'07
minimum elong	14056 Feb 19 18:52	10°) € 50'08	2°22'29	minimum elong	14057 Jan 31 21:08	23° ≈ 06′16	3°46'42
morning rise	14056 Feb 27 02:13	6° ∺ 08'59		morning rise	14057 Feb 08 15:26	18° ≈ 50'19	
asc. node	14056 Feb 27 01:36	6° ∺ 09'25		direct	14057 Feb 10 15:57	18° ≈ 36′13	
direct	14056 Feb 29 04:28	5°) €51'00		asc. node	14057 Feb 12 23:04	18° ≈ 55′18	
morning max el	14056 Mar 07 07:55	9° ∺ 26′04	17°55'43	morning max el	14057 Feb 18 18:04	22° ≈ 35'45	18°24'51
	14056 Mar 20 19:19	0° Υ			14057 Feb 24 13:23	0° ∀	
morning set	14056 Mar 22 22:01	3° Y 50'41		morning set	14057 Mar 06 13:52	17° ¥ 52'18	
desc. node	14056 Mar 30 21:27	18° Ƴ 15′00			14057 Mar 12 22:54	0° Ƴ	

	14057 M 15 10 26	50001 411 1	0015157		14050 E 1 26 20 16	100 1 22 5 1	0045155
superior conj	14057 Mar 15 18:36	5°Υ14'11	0°15'57	superior conj	14058 Feb 26 20:16	18° ¥ 33'51	0°45'55
minimum elong	14057 Mar 15 19:44	5°Υ19'23	0°15'46	minimum elong	14058 Feb 26 22:46	18°) 45'55	0°45'50
behind sun begin	14057 Mar 15 18:42	5°Υ14'38		desc. node	14058 Mar 04 14:27	29°) €24'13	
behind sun end	14057 Mar 15 20:46	5° Y ′24′08			14058 Mar 04 22:18	0° Υ	
desc. node	14057 Mar 17 17:58	8° Ƴ 49'47		max. Earth dist.	14058 Mar 05 13:22	1° Y ′08′22	1.38429 AU
max. Earth dist.	14057 Mar 23 06:46	18° Ƴ 34'20	1.40692 AU	evening rise	14058 Mar 09 06:58	7° Y 45'30	
evening rise	14057 Mar 27 15:58	25° Y 56′51			14058 Mar 23 01:21	0° 8	
	14057 Mar 30 03:34	0°B		evening max el	14058 Apr 13 14:38	27° 8 50'40	24°48'20
	14057 Apr 19 09:28	Π °0			14058 Apr 15 22:11	Π °0	
evening max el	14057 May 01 01:04	13° Ⅱ 57'52	23°28'42	retrograde	14058 Apr 25 08:57	4° ∐ 42'24	
retrograde	14057 May 11 17:21	20° Ⅱ 14'39		asc. node	14058 Apr 28 16:56	3° Ⅱ 54'16	
asc. node	14057 May 11 19:36	20° Ⅱ 14'37		evening set	14058 May 01 00:55	2° Ⅱ 19'32	
evening set	14057 May 16 21:41	18° Ⅱ 03'20			14058 May 03 07:53	30° ₹႘	
min. Earth dist.	14057 May 21 17:11	12° Ⅲ 23'51	0.68863 AU	min. Earth dist.	14058 May 05 12:12	27° 8 16'29	0.68296 AU
inferior conj	14057 May 22 06:53	11° Ⅱ 36'43	2°42'43	inferior conj	14058 May 06 14:34	25° 8 49'04	2°13'06
minimum elong	14057 May 22 05:02	11° Ⅱ 43'05	2°41'23	minimum elong	14058 May 06 12:25	25° 8 56'13	2°11'42
morning rise	14057 May 27 12:20	5° Ⅱ 30′56		morning rise	14058 May 12 00:10	19° 8 52'05	
direct	14057 May 31 18:18	3° Ⅱ 49'52		direct	14058 May 15 18:04	18° 8 31'38	
morning max el	14057 Jun 08 23:25	8° Ⅲ 30′55	20°44'46	morning max el	14058 May 23 00:43	22° 8 33'00	19°36'40
desc. node	14057 Jun 13 19:22	13° Ⅱ 58'37			14058 May 29 07:48	$\Pi^{\circ}0$	
	14057 Jun 25 10:42	0ಂತಾ		desc. node	14058 May 31 16:20	3° Ⅱ 13′03	
morning set	14057 Jul 08 16:37	19° © 59'21		greatest brilliancy	14058 Jun 04 16:23	8° Ⅱ 57'20	-0.6m
· ·	14057 Jul 15 01:10	$0^{\circ}\Omega$		morning set	14058 Jun 17 18:38	28° Ⅱ 42'39	
max. Earth dist.	14057 Jul 16 22:43	3°Ω02'54	1.43475 AU	Č	14058 Jun 18 14:46	0°9	
				max. Earth dist.	14058 Jun 29 12:44	16° © 59'46	1.44950 AU
superior conj	14057 Jul 23 16:13	14° Ω 06'21	-1°49'39				
minimum elong	14057 Jul 23 23:34	14°Ω37'09		superior conj	14058 Jul 03 22:58	24°902'09	-2°09'48
g	14057 Aug 01 22:28	0° m)	1 ., .,	minimum elong	14058 Jul 04 03:25	24°9519'57	
evening rise	14057 Aug 04 19:26	5° m) 03'32			14058 Jul 07 15:42	0°Ω	2 100)
asc. node	14057 Aug 07 19:24	10° m) 20'37		evening rise	14058 Jul 17 20:29	16° Ω 51'51	
asc. node	14057 Aug 07 13:16	0° ⊡		asc. node	14058 Jul 25 16:04	29° Ω 53'04	
evening max el	14057 Aug 20 13:10	0° - 255'45	18°02'34	asc. node	14058 Jul 25 17:47	0°m)	
retrograde	14057 Aug 28 00:54	4° £ 19'53	18 02 34	evening max el	14058 Aug 05 01:08	14° Mg 21'46	18°09'32
evening set	14057 Aug 28 00:34 14057 Aug 30 12:17	3° £ 50′50		retrograde	14058 Aug 05 01:08	17° Mp 42'39	16 09 32
evening set	•			Č	0		
: <i>c</i> :	14057 Sep 04 22:25	30°RM)	1902/54	evening set	14058 Aug 14 05:31	17° Mp 00'27	2°01'02
inferior conj	14057 Sep 06 04:21	28° Mp 47'36	1°02'54	inferior conj	14058 Aug 20 07:58	11° Mp 39'42	
minimum elong	14057 Sep 06 06:07	28° m 43'15	1°02'08	minimum elong	14058 Aug 20 10:25	11° m) 32'53	1°59'52
min. Earth dist.	14057 Sep 09 06:03	25° m 47'27	0.61275 AU	min. Earth dist.	14058 Aug 22 22:25	8° Mp 47'24	0.63491 AU
desc. node	14057 Sep 09 16:25	25° m 23'26		morning rise	14058 Aug 26 13:28	5° m) 24'17	
morning rise	14057 Sep 12 21:12	22° m/49'04		desc. node	14058 Aug 27 13:58	4° m/40'54	
direct	14057 Sep 19 12:43	20° m/34'16		direct	14058 Sep 02 04:53	2° m 52'32	
morning max el	14057 Oct 03 17:52	28° m/30'45	27°58'22	morning max el	14058 Sep 16 02:54	10° m 53'36	27°45'29
	14057 Oct 05 04:44	0∘ ⊽			14058 Oct 01 04:46	0∘ ত	
_	14057 Oct 26 07:20	0°M			14058 Oct 18 16:55	0° M	
asc. node	14057 Nov 03 21:28	16° M ₊07'11		morning set	14058 Oct 20 20:49	4° ጤ 16'26	
morning set	14057 Nov 06 01:55	20°M34'48		asc. node	14058 Oct 21 18:09	6° M ₀04'02	
	14057 Nov 10 12:08	0° ∡ ¹		max. Earth dist.	14058 Oct 25 19:29	14°M29'53	1.32294 AU
max. Earth dist.	14057 Nov 11 18:44	2° ∡ ¹47'26	1.31455 AU				
				superior conj	14058 Oct 28 16:33		1°01'38
superior conj	14057 Nov 13 09:16			minimum elong	14058 Oct 28 14:16	20°M28'50	1°02'01
minimum elong	14057 Nov 13 07:09	6° ∡ °08'32	1°19'56		14058 Nov 01 22:48	0° ∡	
evening rise	14057 Nov 20 02:14	21° ₹ ′08′11		evening rise	14058 Nov 04 13:18	5° ∡ °39'08	
	14057 Nov 24 07:37	0°ಕ			14058 Nov 17 06:56	0°ಕ	
desc. node	14057 Dec 06 13:19	21° る 30'07		desc. node	14058 Nov 23 10:26	8° る 45'05	
	14057 Dec 13 01:12	0°≈		evening max el	14058 Nov 27 21:53	13° る 42'06	23°26'09
evening max el	14057 Dec 16 11:56	3° ≈ 36'47	25°06'05	retrograde	14058 Dec 11 06:49	20° る 21'00	
retrograde	14057 Dec 30 07:15	10° ≈ 31'59		evening set	14058 Dec 15 17:34	19° る 38'01	
evening set	14058 Jan 04 23:22	9° ≈ 19'45		min. Earth dist.	14058 Dec 22 08:11	16° පි 30'11	0.55176 AU
min. Earth dist.	14058 Jan 09 23:55	6° ≈ 37'04	0.56638 AU	inferior conj	14058 Dec 23 22:30	15° る 34'15	-5°53'45
inferior conj	14058 Jan 12 15:48	4° ≈ 53'04	-5°06'58	minimum elong	14058 Dec 24 01:53	15° る 29'19	5°52'29
minimum elong	14058 Jan 13 00:24	4° ≈ 39'03	5°04'08	morning rise	14059 Jan 01 11:51	11° ප් 42'16	
morning rise	14058 Jan 21 03:47	0° ≈ 43'43		direct	14059 Jan 04 06:20	11° る 23'43	
direct	14058 Jan 23 08:53	0° ≈ 29'43		morning max el	14059 Jan 15 05:29	16° පි 38'51	20°29'43
asc. node	14058 Jan 30 20:29	3° ≈ 22'41		asc. node	14059 Jan 17 17:49	19° る 19'24	
morning max el	14058 Feb 01 18:27	5° ≈ 03'08	19°15'43		14059 Jan 25 02:21	0° ≈	
	14058 Feb 17 11:13	0° ∀		morning set	14059 Feb 02 21:52	16° ≈ 55'47	
morning set	14058 Feb 18 14:52	2° ¥ 17'04		Č	14059 Feb 09 05:42	0° ∀	
-							

superior conj	14059 Feb 10 10:47	2° ₩ 28'07	1°08'58	superior conj	14060 Jan 25 10:24	16° ≈ 45'39	1°25'09
minimum elong	14059 Feb 10 13:27	2°) (41'37	1°09'13	minimum elong	14060 Jan 25 12:30	16° ≈ 56'40	1°25'45
max. Earth dist.	14059 Feb 15 20:49	13° ¥ 10′31	1.36229 AU	max. Earth dist.	14060 Jan 29 09:55	25° ≈ 00'49	1.34307 AU
desc. node	14059 Feb 19 10:57	19° ¥ 54'56			14060 Jan 31 21:40	0° ∀	
evening rise	14059 Feb 19 16:48	20° 米 21'46		evening rise	14060 Feb 02 17:56	3° ¥ 35'39	
-	14059 Feb 25 03:27	0° Y		desc. node	14060 Feb 06 07:29	10°) (17′19	
	14059 Mar 17 01:04	9° 8			14060 Feb 18 00:12	0° Y	
evening max el	14059 Mar 27 04:05	11° 8 41'47	25°59'46	evening max el	14060 Mar 08 17:48	25° Ƴ 23'54	26°55'35
retrograde	14059 Apr 08 19:56	18° 8 57'23			14060 Mar 14 06:52	$0^{\circ}S$	
evening set	14059 Apr 14 22:52	16° 8 27'09		retrograde	14060 Mar 22 01:15	2° 8 50'49	
asc. node	14059 Apr 15 14:20	15° 8 53'22		evening set	14060 Mar 28 13:35	0° 8 18'41	
min. Earth dist.	14059 Apr 19 03:29	11° 8 59'28	0.67284 AU		14060 Mar 28 22:50	30° ŖƳ	
inferior conj	14059 Apr 20 18:27	9° 8 57'35	1°32'48	asc. node	14060 Apr 01 11:47	26° Y 27'54	
minimum elong	14059 Apr 20 16:29	10° 8 03'42	1°31'33	min. Earth dist.	14060 Apr 01 12:56	26° Y 24'37	0.65863 AU
morning rise	14059 Apr 26 10:51	4° 8 10'38		inferior conj	14060 Apr 03 16:14	23° Y 56′15	0°41'05
direct	14059 Apr 29 17:35	3° 8 09'20		minimum elong	14060 Apr 03 15:10	23° Y 59′21	0°40'21
morning max el	14059 May 06 09:18	6° 8 43'47	18°44'00	morning rise	14060 Apr 09 18:07	18° Y 21′04	
desc. node	14059 May 18 13:09	22° 8 56'12		direct	14060 Apr 12 14:52	17° Ƴ 36'14	
	14059 May 23 03:27	0°II		morning max el	14060 Apr 18 23:28	20° Y ′56′17	18°07'57
morning set	14059 May 28 06:41	7° Ⅱ 59'39			14060 Apr 26 02:44	0° 8	
	14059 Jun 11 09:21	0° ©		desc. node	14060 May 04 09:51	12° 8 59'37	
max. Earth dist.	14059 Jun 12 06:44	1° 5 23'30	1.45751 AU	morning set	14060 May 07 20:11	18° 8 31'56	
	14050 1 10 11 00	2001/102	2012114		14060 May 14 23:31	Π $^{\circ}$ 0	
superior conj	14059 Jun 13 11:32	3°516'03			14060 14 22 20 20	100H0(100	1054125
minimum elong	14059 Jun 13 08:35	3°504'29	2°13'15	superior conj	14060 May 22 20:20	12° Ⅱ 26′22	
evening rise	14059 Jun 28 21:22	27°938'31		minimum elong	14060 May 22 11:45	11° II 52'39	
	14059 Jun 30 08:42	0° Ω 7° Ω 52'09	-0.9m	max. Earth dist.	14060 May 25 02:33	15° Ⅱ 58'35 0° ©	1.45813 AU
greatest brilliancy asc. node	14059 Jul 05 06:47 14059 Jul 12 12:50	19° Ω 04'09	-0.9m	ovenina rice	14060 Jun 03 02:56 14060 Jun 07 22:43	0°9 7°9528′27	
evening max el	14059 Jul 12 12:30	19 δ <i>t</i> 04 09 28° Ω 01'43	18°34'23	evening rise greatest brilliancy	14060 Jun 20 00:25	7 \$28 27 25°\$59'10	-0.7m
evening max er	14059 Jul 21 21:38	0°m	16 34 23	greatest offinancy	14060 Jun 22 17:38	23 3 39 10	-0.7111
retrograde	14059 Jul 26 02:17	1° mp 32'35		asc. node	14060 Jun 28 09:40	7° Ω 45'48	
evening set	14059 Jul 29 06:49	0° m ₀ 34'59		evening max el	14060 Jul	11°Ω48'49	19°16'20
evening set	14059 Jul 30 03:39	30°RΩ		retrograde	14060 Jul 08 23:10	15°Ω42'16	17 10 20
inferior conj	14059 Aug 03 23:21	24°Ω58'53	2°39'45	evening set	14060 Jul 12 13:02	$13^{\circ} \Omega^{42} 10^{\circ}$ $14^{\circ} \Omega^{27'} 57^{\circ}$	
minimum elong	14059 Aug 04 01:29	$24^{\circ}\Omega 52'25$	2°38'36	inferior conj	14060 Jul 17 23:06	8°Ω37'55	3°02'15
min. Earth dist.	14059 Aug 06 00:02	22° Ω 31'09	0.65448 AU	minimum elong	14060 Jul 18 00:22	8° Ω 33'44	3°01'13
morning rise	14059 Aug 09 19:02	18° Ω 35'32	0.00 1.0110	min. Earth dist.	14060 Jul 19 09:18	6° Ω 46'32	0.67021 AU
desc. node	14059 Aug 14 11:28	16° Ω 07'13		morning rise	14060 Jul 23 11:07	2° Ω 13'09	0.07021710
direct	14059 Aug 16 05:21	15° Ω 56'03		morning rise	14060 Jul 27 02:02	30°Rூ	
morning max el	14059 Aug 29 13:59	23° Ω 48'52	26°59'50	direct	14060 Jul 29 12:38		
S						29 5000 02	
	-	0° m		desc. node		29° © 35'32 29° © 48'17	
	14059 Sep 04 02:55	0° ம 0° ™		desc. node	14060 Jul 31 08:54		
morning set	-	~		desc. node morning max el		29°948'17	25°50'01
morning set max. Earth dist.	14059 Sep 04 02:55 14059 Sep 24 13:39	0∘ <u>v</u>	1.33675 AU		14060 Jul 31 08:54 14060 Aug 01 02:30	29°\$48'17 0° Ω	25°50'01
•	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30	0° ჲ 17° ჲ 28'07	1.33675 AU		14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55	29°€48'17 0°Ω 7°Ω04'25	25°50'01
max. Earth dist.	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09	ი° ჲ 17° ჲ 28'07 25° ჲ 49'48	1.33675 AU	morning max el	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58	29°\$48'17 0°¶ 7°¶04'25 0°™	25°50'01
max. Earth dist.	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46	0° <u>Ω</u> 17° <u>Ω</u> 28'07 25° <u>Ω</u> 49'48 26° <u>Ω</u> 08'06	1.33675 AU	morning max el	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29	29°\$48'17 0°\$ 7°\$04'25 0°\$ 0°\$01'30	25°50'01 1.35552 AU
max. Earth dist.	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46	0° <u>Ω</u> 17° <u>Ω</u> 28'07 25° <u>Ω</u> 49'48 26° <u>Ω</u> 08'06	1.33675 AU 0°38'20	morning max el	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09	29°\$48'17 0°\$ 7°\$04'25 0°\$ 0°\$01'30 0°\$	
max. Earth dist. asc. node	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04	0° Ω 17° Ω 28'07 25° Ω 49'48 26° Ω 08'06 0° M 4° M .44'01 4° M .34'22		morning max el morning set max. Earth dist.	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\Dm\$\$00'30 0°\$\Dm\$\$6°\$\Dm\$\$55'06	
max. Earth dist. asc. node	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04	0° Ω 17° Ω 28'07 25° Ω 49'48 26° Ω 08'06 0° M 4° M 44'01	0°38'20	morning max el morning set max. Earth dist.	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\Dm\$\$00'30 0°\$\Dm\$\$6°\$\Dm\$\$55'06	
max. Earth dist. asc. node superior conj minimum elong	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40	0° Ω 17° Ω 28'07 25° Ω 49'48 26° Ω 08'06 0° M 4° M .44'01 4° M .34'22	0°38'20	morning max el morning set max. Earth dist. asc. node	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20	29°\$48'17 0°\$ 7°\$004'25 0°\$\$ 0°\$\$01'30 0°\$\$ 6°\$\$55'06 16°\$\$15'35 18°\$\$22'08 18°\$\$19'12	1.35552 AU
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Lambda}\) 4° \(\oldsymbol{\Lambda}\) 44'01 4° \(\oldsymbol{\Lambda}\) 34'22 20° \(\oldsymbol{\Lambda}\) 06'14 0° \(\nabla^{\sigma}\) 23° \(\nabla^{\sigma}\) 45'01	0°38'20	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 06:59	29°\$48'17 0°\$\Omega\$7°\$\Omega\$04'25 0°\$\Omega\$00'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30	1.35552 AU 0°09'46
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 06'14 0° \(\structure\) 23° \(\structure\) 45'01 24° \(\structure\) 35'10	0°38'20 0°38'30	morning max el morning set max. Earth dist. asc. node superior conj minimum elong	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 06:59 14060 Sep 25 16:46	29°\$48'17 0°\$\Omega\$7°\$\Omega\$04'25 0°\$\Omega\$00'\omega\$00'\omega\$00'\omega\$00'\omega\$00'\omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58	1.35552 AU 0°09'46
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 06'14 0° \(\oldsymbol{\Z}\) 23° \(\oldsymbol{\Z}\) 45'01 24° \(\oldsymbol{\Z}\) 35'10 29° \(\oldsymbol{\Z}\) 53'12	0°38'20 0°38'30	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:53 14060 Sep 25 16:46 14060 Oct 01 04:11	29°\$48'17 0°\$\Omega\$7°\$\Omega\$04'25 0°\$\Omega\$0°\$\Omega\$00'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\Omega\$1.	1.35552 AU 0°09'46
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 60'14 0° \(\structure{\omega}\) 43'01 24° \(\structure{\omega}\) 35'10 29° \(\structure{\omega}\) 53'12 29° \(\structure{\omega}\) 31'56	0°38'20 0°38'30 21°45'35	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20	29°\$48'17 0°\$\Omega\$7°\$\Omega\$04'25 0°\$\Omega\$900'\Omega\$00'\Omega\$00'\Omega\$00'\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$21'08 18°\$\Omega\$43'58 0°\$\Omega\$48'17	1.35552 AU 0°09'46
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30 14059 Dec 03 15:44	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 45'01 24° \(\oldsymbol{\Z}\) 35'10 29° \(\oldsymbol{\Z}\) 53'12 29° \(\oldsymbol{\Z}\) 31'56 25° \(\oldsymbol{\Z}\) 38'50	0°38'20 0°38'30 21°45'35	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44	29°\$48'17 0°\$0 7°\$004'25 0°\$0 0°\$001'30 0°\$0 6°\$055'06 16°\$015'35 18°\$022'08 18°\$019'12 17°\$054'30 18°\$043'58 0°\$0 4°\$024'37 0°\$7	1.35552 AU 0°09'46 0°09'53
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 45'01 24° \(\oldsymbol{\Z}\) 35'10 29° \(\oldsymbol{\Z}\) 31'56 25° \(\oldsymbol{\Z}\) 38'50 25° \(\oldsymbol{\Z}\) 46'44	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44	29°\$48'17 0°\$\Omega\$7 7°\$\Omega\$04'25 0°\$\Omega\$9 0°\$\Omega\$01'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\Omega\$4"\$\L24'37 0°\$\ne\$4"\$20'52	1.35552 AU 0°09'46
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 24 21:30 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 60'14 0° \(\structure{\omega}\) 33'10 29° \(\structure{\omega}\) 33'156 25° \(\structure{\omega}\) 38'50 25° \(\structure{\omega}\) 46'44 25° \(\structure{\omega}\) 40'54	0°38'20 0°38'30 21°45'35	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00	29°\$48'17 0°\$\mathcal{\Omega}\$7°\$\mathcal{\Omega}\$04'25 0°\$\mathcal{\Omega}\$00'\mathcal{\Omega}\$00'\mathcal{\Omega}\$00'\mathcal{\Omega}\$6°\$\mathcal{\Omega}\$55'06 16°\$\mathcal{\Omega}\$15'35 18°\$\mathcal{\Omega}\$22'08 18°\$\mathcal{\Omega}\$19'12 17°\$\mathcal{\Omega}\$54'30 18°\$\mathcal{\Omega}\$43'58 0°\$\mathcal{\Omega}\$43'58 0°\$\mathcal{\Omega}\$4"\mathcal{\Omega}\$20'52 8°\$\mathcal{\Pi}\$34'18	1.35552 AU 0°09'46 0°09'53
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 11 23:34	0° \(\overline{\Omega}\) 17° \(\overline{\Omega}\) 28'07 25° \(\overline{\Omega}\) 49'48 26° \(\overline{\Omega}\) 08'06 0° \(\overline{\Omega}\) 4° \(\overline{\Omega}\) 44'01 4° \(\overline{\Omega}\) 45'01 24° \(\overline{\Omega}\) 35'10 29° \(\overline{\Omega}\) 31'56 25° \(\overline{\Omega}\) 38'50 25° \(\overline{\Omega}\) 46'44 25° \(\overline{\Omega}\) 40'54 21° \(\overline{\Omega}\) 51'04	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 11:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01	29°\$48'17 0°\$\Omega\$7 7°\$\Omega\$04'25 0°\$\Omega\$9 0°\$\Omega\$01'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\Omega\$4.24'37 0°\$\omega\$7 4°\$\omega\$20'52 8°\$\omega\$34'18 9°\$\omega\$44'30	1.35552 AU 0°09'46 0°09'53
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 11 23:34 14059 Dec 15 15:25	0° \(\overline{\Omega}\) 17° \(\overline{\Omega}\) 28'07 25° \(\overline{\Omega}\) 49'48 26° \(\overline{\Omega}\) 08'06 0° \(\overline{\Omega}\) 4° \(\overline{\Omega}\) 44'01 4° \(\overline{\Omega}\) 34'22 20° \(\overline{\Omega}\) 06'14 0° \(\verline{\Z}\) 23° \(\verline{\Z}\) 45'01 24° \(\verline{\Z}\) 35'10 29° \(\verline{\Z}\) 31'56 25° \(\verline{\Z}\) 38'50 25° \(\verline{\Z}\) 46'44 25° \(\verline{\Z}\) 40'54 21° \(\verline{\Z}\) 21'44	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20 0.54499 AU	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\mathbf{m}\$ 0°\$\Omega\$01'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\mathbf{m}\$\$\$\Omega\$43'58 0°\$\mathbf{m}\$\$\$\$\$\$4'317 0°\$\nalpha\$\$\$\$4'\alpha\$\$\$9°\$\nalpha\$44'30 9°\$\nalpha\$44'30	1.35552 AU 0°09'46 0°09'53 20°19'07
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 11 23:34 14059 Dec 15 15:25 14059 Dec 28 02:06	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 35'10 24° \(\oldsymbol{\Z}\) 35'10 29° \(\oldsymbol{\Z}\) 31'56 25° \(\oldsymbol{\Z}\) 46'44 25° \(\oldsymbol{\Z}\) 40'54 21° \(\oldsymbol{\Z}\) 21'44 27° \(\oldsymbol{\Z}\) 20'33	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:53 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35 14060 Nov 12 08:50	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\mathbf{m}\$ 0°\$\Omega\$01'30 0°\$\Omega\$6°\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\mathbf{m}\$\$\$\Omega\$43'58 0°\$\mathbf{m}\$\$\$\$\$\$4'31 4°\$\omega\$20'52 8°\$\omega\$34'18 9°\$\omega\$44'30 9°\$\omega\$32'46 5°\$\omega\$36'43	1.35552 AU 0°09'46 0°09'53 20°19'07
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Nov 24 21:30 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 15 15:25 14059 Dec 28 02:06 14059 Dec 30 15:31	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 00'\(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 06'14 0° \(\oldsymbol{\Z}\) 23° \(\oldsymbol{\Z}\) 45'01 24° \(\oldsymbol{\Z}\) 33'510 29° \(\oldsymbol{\Z}\) 33'55' 25° \(\oldsymbol{\Z}\) 46'44 25° \(\oldsymbol{\Z}\) 40'54 21° \(\oldsymbol{\Z}\) 21'44 27° \(\oldsymbol{\Z}\) 20'33 0° \(\oldsymbol{\Z}\)	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20 0.54499 AU	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:27 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35 14060 Nov 12 08:50 14060 Nov 11 22:45	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\mathbf{m}\$ 0°\$\Omega\$01'30 0°\$\Omega\$06'\$\Omega\$55'06 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\mathbf{m}\$\$ 4°\$\mathbf{m}\$24'37 0°\$\mathrightarrow{\pi}\$ 4°\$\mathrightarrow{\Pi}\$20'52 8°\$\mathrightarrow{\Pi}\$34'18 9°\$\mathrightarrow{\Pi}\$44'30 9°\$\mathrightarrow{\Pi}\$32'46 5°\$\mathrightarrow{\Pi}\$36'43 5°\$\mathrightarrow{\Pi}\$51'33	1.35552 AU 0°09'46 0°09'53 20°19'07 -4°41'27 4°37'49
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 12 16:40 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 15 15:25 14059 Dec 28 02:06 14059 Dec 30 15:31 14060 Jan 04 15:04	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 00'\(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 00'\(\oldsymbol{\Z}\) 23° \(\oldsymbol{\Z}\) 45'01 24° \(\oldsymbol{\Z}\) 33'156 25° \(\oldsymbol{\Z}\) 33'5'10 29° \(\oldsymbol{\Z}\) 33'5'104 21° \(\oldsymbol{\Z}\) 21'44 27° \(\oldsymbol{\Z}\) 20'33 0° \(\oldsymbol{\Z}\) 6° \(\oldsymbol{\Z}\) 27'30	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20 0.54499 AU	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:27 14060 Sep 25 16:46 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35 14060 Nov 12 08:50 14060 Nov 11 22:45 14060 Nov 13 21:12	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\mathbf{m}\$ 0°\$\Omega\$0'\Omega\$0'\Omega\$0'\Omega\$0'\Omega\$0 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$4'30 18°\$\Omega\$43'58 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$24'37 0°\$\mathrightarrow\$	1.35552 AU 0°09'46 0°09'53 20°19'07
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el asc. node	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 19 23:41 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Dec 03 15:44 14059 Dec 03 15:44 14059 Dec 03 14:16 14059 Dec 11 23:34 14059 Dec 12 13:34 14059 Dec 28 02:06 14059 Dec 30 15:31 14060 Jan 04 15:04 14060 Jan 17 13:10	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 08'06 0° \(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 06'14 0° \(\oldsymbol{\Omega}\) 35'10 29° \(\oldsymbol{\Omega}\) 35'10 29° \(\oldsymbol{\Omega}\) 33'56 25° \(\oldsymbol{\Omega}\) 46'44 25° \(\oldsymbol{\Omega}\) 40'54 21° \(\oldsymbol{\Omega}\) 21'44 27° \(\oldsymbol{\Omega}\) 20'33 0° \(\oldsymbol{\Omega}\) 6° \(\oldsymbol{\Omega}\) 27'30 0° \(\oldsymbol{\Omega}\)	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20 0.54499 AU	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:27 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35 14060 Nov 12 08:50 14060 Nov 11 22:45 14060 Nov 13 21:12 14060 Nov 20 10:16	29°\$48'17 0°\$\Omega\$7 0°\$\Omega\$7 0°\$\Omega\$9 0°\$\Omega\$9 0°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$54'30 18°\$\Omega\$43'58 0°\$\Omega\$43'58 0°\$\Omega\$4'37 0°\$\omega\$4'324'37 0°\$\omega\$44'30 9°\$\omega\$32'46 5°\$\omega\$36'43 5°\$\omega\$51'33 4°\$\omega\$43'114 1°\$\omega\$34'13	1.35552 AU 0°09'46 0°09'53 20°19'07 -4°41'27 4°37'49
max. Earth dist. asc. node superior conj minimum elong evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist. morning rise direct morning max el	14059 Sep 04 02:55 14059 Sep 24 13:39 14059 Oct 04 05:30 14059 Oct 08 11:09 14059 Oct 08 14:46 14059 Oct 10 12:04 14059 Oct 12 18:30 14059 Oct 12 16:40 14059 Oct 12 16:40 14059 Oct 24 19:12 14059 Nov 09 10:32 14059 Nov 10 07:40 14059 Nov 21 19:44 14059 Dec 03 15:44 14059 Dec 03 10:07 14059 Dec 03 14:16 14059 Dec 15 15:25 14059 Dec 28 02:06 14059 Dec 30 15:31 14060 Jan 04 15:04	0° \(\oldsymbol{\Omega}\) 17° \(\oldsymbol{\Omega}\) 28'07 25° \(\oldsymbol{\Omega}\) 49'48 26° \(\oldsymbol{\Omega}\) 00'\(\oldsymbol{\Omega}\) 4° \(\oldsymbol{\Omega}\) 44'01 4° \(\oldsymbol{\Omega}\) 34'22 20° \(\oldsymbol{\Omega}\) 00'\(\oldsymbol{\Z}\) 23° \(\oldsymbol{\Z}\) 45'01 24° \(\oldsymbol{\Z}\) 33'156 25° \(\oldsymbol{\Z}\) 33'5'10 29° \(\oldsymbol{\Z}\) 33'5'104 21° \(\oldsymbol{\Z}\) 21'44 27° \(\oldsymbol{\Z}\) 20'33 0° \(\oldsymbol{\Z}\) 6° \(\oldsymbol{\Z}\) 27'30	0°38'20 0°38'30 21°45'35 -5°47'01 5°45'20 0.54499 AU	morning max el morning set max. Earth dist. asc. node superior conj minimum elong behind sun begin behind sun end evening rise evening max el desc. node retrograde evening set inferior conj minimum elong min. Earth dist.	14060 Jul 31 08:54 14060 Aug 01 02:30 14060 Aug 11 00:55 14060 Aug 28 20:58 14060 Sep 16 00:29 14060 Sep 16 00:09 14060 Sep 19 16:53 14060 Sep 24 11:20 14060 Sep 25 12:27 14060 Sep 25 12:27 14060 Sep 25 16:46 14060 Sep 25 16:46 14060 Oct 01 04:11 14060 Oct 03 07:20 14060 Oct 17 16:44 14060 Oct 21 10:44 14060 Oct 27 05:00 14060 Nov 01 07:01 14060 Nov 03 10:35 14060 Nov 12 08:50 14060 Nov 11 22:45 14060 Nov 13 21:12	29°\$48'17 0°\$\Omega\$ 7°\$\Omega\$04'25 0°\$\mathbf{m}\$ 0°\$\Omega\$0'\Omega\$0'\Omega\$0'\Omega\$0'\Omega\$0 16°\$\Omega\$15'35 18°\$\Omega\$22'08 18°\$\Omega\$19'12 17°\$\Omega\$4'30 18°\$\Omega\$43'58 0°\$\mathbf{m}\$ 4°\$\mathbf{m}\$24'37 0°\$\mathrightarrow\$	1.35552 AU 0°09'46 0°09'53 20°19'07 -4°41'27 4°37'49 0.54762 AU

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asc. node	14060 Dec 21 12:11	24° ∡ ³30'33		asc. node	14061 Dec 08 09:12	13° ∡ 14'15	
morning set	14060 Dec 24 15:23 14061 Jan 01 20:10	0°る 16°る25'42		morning set	14061 Dec 16 19:25 14061 Dec 17 07:41	0°궁 1° 궁 05'45	
morning set	14061 Jan 08 01:52	0°≈		morning set	14001 Dec 1/ 0/.41	1 00343	
	14001 Juli 00 01.32	0 ~		superior conj	14061 Dec 24 01:55	15° る 58'37	1°38'03
superior conj	14061 Jan 08 16:16	1°≈18'22	1°34'44	minimum elong	14061 Dec 24 01:57	15° る 58'50	1°39'05
minimum elong	14061 Jan 08 17:23	1° ≈ 24'29	1°35'37	max. Earth dist.	14061 Dec 25 10:49	19° る 00'26	1.31757 AU
max. Earth dist.	14061 Jan 11 06:58	6°≈56'12	1.32797 AU		14061 Dec 30 13:07	0° ≈	
evening rise	14061 Jan 16 06:58	17° ≈ 18′35		evening rise	14061 Dec 31 04:51	1° ≈ 22'06	
	14061 Jan 22 22:12	0°) €		desc. node	14062 Jan 10 00:52	20° ≈ 16′59	
desc. node	14061 Jan 23 04:08	0° ∺ 26′51			14062 Jan 15 20:45	0° ∀	
	14061 Feb 11 10:04	0 ° Υ		evening max el	14062 Feb 01 16:57	21°) (36′17	27°31'38
evening max el	14061 Feb 19 06:50	8° Y 46'37	27°28'22	retrograde	14062 Feb 15 14:43	28° ¥ 58′29	
retrograde	14061 Mar 04 23:49	16° Y 14′21		evening set	14062 Feb 22 12:09	26°) 42'43	
evening set	14061 Mar 11 18:54	13° Y 46'46		min. Earth dist.	14062 Feb 26 06:19	23°) (45'18	0.62034 AU
min. Earth dist.	14061 Mar 15 14:29	10° Y 23'32	0.64088 AU	inferior conj	14062 Mar 01 06:34	20°) € 57'13	
inferior conj	14061 Mar 18 05:19	7° Υ 38'55		minimum elong	14062 Mar 01 09:57	20°) (49'19	1°35'53
minimum elong	14061 Mar 18 06:01	7° Υ 37'06	0°22'15	asc. node	14062 Mar 06 06:43	16°) €54'16	
asc. node	14061 Mar 19 09:15	6° Υ 26'33 2° Υ 17'57		morning rise	14062 Mar 08 10:37 14062 Mar 10 15:53	15°) 53'34 15°) 31'34	
morning rise direct	14061 Mar 24 19:16 14061 Mar 27 07:25	1° Υ 46'17		direct morning max el	14062 Mar 10 15:53	13° ★ 31'34 18° ★ 56'44	17°48'00
morning max el	14061 Mai 27 07:23	5°Υ03'25	17°49'04	morning max er	14062 Mar 25 12:31	10 γ (3044	17 48 00
morning max er	14061 Apr 19 07:38	0° 8	17 49 04	morning set	14062 Mai 23 12.31 14062 Apr 02 05:36	13° Y 22'09	
morning set	14061 Apr 19 13:30	0° 8 24'46		desc. node	14062 Apr 08 03:03	23° Y 45'44	
desc. node	14061 Apr 21 06:28	3° 8 17'41		dese. Hode	14062 Apr 11 17:49	0°8	
dese. node	1.001.1p1 21 00.20	3 017 11			1100211p1 11 17.19	• •	
superior conj	14061 May 02 18:24	22° 8 17'16	-1°21'50	superior conj	14062 Apr 13 15:27	3° 8 13'36	-0°42'37
minimum elong	14061 May 02 10:23	21° 8 44'57	1°21'38	minimum elong	14062 Apr 13 11:23	2° 8 56'24	0°42'30
	14061 May 07 14:17	Π $^{\circ}0$		max. Earth dist.	14062 Apr 20 14:54	14° 8 44'38	1.43789 AU
max. Earth dist.	14061 May 07 22:05	0° Ⅱ 30′52	1.45136 AU	evening rise	14062 Apr 28 01:11	26° 8 30'08	
evening rise	14061 May 18 10:38	16° ∏ 51'47			14062 Apr 30 07:34	Π °0	
	14061 May 27 02:58	0			14062 May 21 00:51	0 \circ	
evening max el	14061 Jun 15 02:44	25° © 38'17	20°13'38	evening max el	14062 May 29 00:23	9° 5 28'19	21°23'33
asc. node	14061 Jun 15 06:36	25°9547'55		asc. node	14062 Jun 02 03:40	12°957'58	
	14061 Jun 21 21:07	0° N		retrograde	14062 Jun 06 20:36	14°537'48	
retrograde	14061 Jun 22 21:54	0° Ω 05'42		evening set	14062 Jun 11 07:03	12°549'32	3°08'28
avanina aat	14061 Jun 23 22:10 14061 Jun 26 21:44	30°Rତ 28° ତ 34'08		inferior conj minimum elong	14062 Jun 16 12:54 14062 Jun 16 12:12		3°08'28 3°07'22
evening set inferior conj	14061 Jul 02 04:23	28 \$34 08 22°\$31'22	3°11'12	min. Earth dist.	14062 Jun 16 19:25		0.68800 AU
minimum elong	14061 Jul 02 04:39	22° © 30'27	3 11 1 2	morning rise	14062 Jun 21 17:10	0°9518'29	0.00000 AC
min. Earth dist.	14061 Jul 03 00:25	21°523'04	0.68148 AU	morning rise	14062 Jun 22 01:53	30°R∏	
morning rise	14061 Jul 07 11:14	16° © 09'16		direct	14062 Jun 26 18:55	28° Ⅱ 06'40	
direct	14061 Jul 13 01:28	13° 5 641'39			14062 Jul 02 01:46	0∘ ©	
desc. node	14061 Jul 18 06:15	15° © 22'54		desc. node	14062 Jul 05 03:31	2° 5 25'01	
morning max el	14061 Jul 24 11:15	20° © 31'33	24°25'31	morning max el	14062 Jul 06 22:26	4° © 07'32	22°55'58
	14061 Aug 01 14:30	0 $^{\circ}$ Ω			14062 Jul 26 18:19	0 $^{\circ}$ Ω	
	14061 Aug 22 01:27	0° ™		morning set	14062 Aug 10 03:54	22° Ω 30′06	
morning set	14061 Aug 29 01:23	11°Mp45'26		max. Earth dist.	14062 Aug 14 14:58	29° Ω 59'44	1.40154 AU
max. Earth dist.	14061 Sep 01 16:06	18° Mp 09'06	1.37789 AU		14062 Aug 14 15:02	0° m	
	14061 Sep 08 01:04	0∘ ⊽		aumani ·	14062 4 22 10 21	120 m. 47150	0050120
aumariar aani	14061 Can 00 10:04	1° £ 26'27	0022110	superior conj	14062 Aug 22 10:21	13° Mp 47'52 14° Mp 07'59	
superior conj minimum elong	14061 Sep 08 19:04 14061 Sep 08 20:38	1° 22 26'27 1° 2 34'02		minimum elong asc. node	14062 Aug 22 14:45 14062 Aug 29 04:24	26° Mp 24'38	0-38/12
asc. node	14061 Sep 08 20:38	6° £ 22'11	0 22 38	asc. node	14062 Aug 31 01:36	0° ⊡	
evening rise	14061 Sep 17 09:48	18° ⊆ 27'10		evening rise	14062 Sep 01 04:05	ა <u>—</u> 2° ჲ 06'18	
2.0	14061 Sep 23 09:02	0°M		evening max el	14062 Sep 17 03:29	27° £ 53′50	18°29'53
evening max el	14061 Oct 04 01:08		19°13'31	v , v8 v.	14062 Sep 19 14:54	0°M	
retrograde	14061 Oct 13 06:03	20°M21'04		retrograde	14062 Sep 24 23:55	1°M52'06	
desc. node	14061 Oct 14 02:26	20°M18'50		evening set	14062 Sep 26 23:32	1°ML37'38	
evening set	14061 Oct 15 02:47	20°M10'31		desc. node	14062 Sep 30 23:56	29° ჲ 50'33	
inferior conj	14061 Oct 23 15:29	15°M59'27	-2°59'30		14062 Sep 30 17:44	30° ₹ Ω	
minimum elong	14061 Oct 23 07:53	16°M12'07	2°56'01	inferior conj	14062 Oct 04 19:08	27° ≏ 06'21	-1°12'30
min. Earth dist.	14061 Oct 26 07:39	14°M12'36	0.55914 AU	minimum elong	14062 Oct 04 16:16	27° ≏ 11'56	
morning rise	14061 Oct 31 10:31	11°M25'02		min. Earth dist.	14062 Oct 08 00:35		0.57742 AU
direct	14061 Nov 05 21:39	10°M16'36		morning rise	14062 Oct 12 05:31	21° Ω 54'05	
morning max el	14061 Nov 19 23:08	17°M24'12	25°38'12	direct	14062 Oct 18 08:20	20° Ω 18'58	0700017
	14061 Nov 30 07:47	0° ∡		morning max el	14062 Nov 01 15:33	27° £ 51'43	2/~00'54

	14062 Nov 03 17:53	0°M		direct	14063 Sep 30 08:24	1° £ 12'39	
	14062 Nov 23 22:54	0° ∡ ¹		morning max el	14063 Oct 14 15:40	9° 亚 03'33	27°48'42
asc. node	14062 Nov 25 06:09	2° ∡ ¹28′10			14063 Oct 30 17:52	0°M₊	
morning set	14062 Dec 01 17:05	15° ∡ ′36′10		asc. node	14063 Nov 12 03:00	22°M03'56	
	14062 Dec 08 06:03	0°ප		morning set	14063 Nov 15 22:34	29°M52'11	
	140(2 D 09 12-22	00=40140	1925122	Fauth diat	14063 Nov 16 00:04	0° 🗷 129. ₹15110	1 21204 ATT
superior conj	14062 Dec 08 13:22 14062 Dec 08 12:22	0°る40'49 0°る35'18	1°35'22 1°36'22	max. Earth dist.	14063 Nov 22 02:24	13° ∡ 15'19	1.31204 AU
minimum elong max. Earth dist.	14062 Dec 08 12:22	1°る3318	1.31220 AU	superior conj	14063 Nov 23 00:43	15° √ 19'34	1°26'50
evening rise	14062 Dec 15 09:03	15° る 40'15	1.51220710	minimum elong	14063 Nov 22 22:55	15° х 1934 15° х 09'33	1°27'39
evening noe	14062 Dec 22 11:51	0° ≈		evening rise	14063 Nov 29 17:26	0° る 07'44	1 2/0/
desc. node	14062 Dec 27 21:42	9° ≈ 40'02		C	14063 Nov 29 16:00	8°0	
	14063 Jan 11 08:05	0°) €		desc. node	14063 Dec 14 18:38	28° る 25'47	
evening max el	14063 Jan 14 21:26	3°) 40′32	27°00'54		14063 Dec 15 19:03	0° ≈	
retrograde	14063 Jan 28 20:52	10°) 54′09		evening max el	14063 Dec 27 18:12	14° ≈ 53′20	25°56'19
evening set	14063 Feb 04 14:01	8° ¥ 58′03		retrograde	14064 Jan 10 16:39	21° ≈ 56′18	
min. Earth dist.	14063 Feb 08 11:40		0.59839 AU	evening set	14064 Jan 16 20:38	20° ≈ 27'05	
inferior conj	14063 Feb 11 16:23	3°) (41′22		min. Earth dist.	14064 Jan 21 07:14	17°≈49'46	0.57716 AU
minimum elong	14063 Feb 11 22:59	3°) €27'53	2°58'04	inferior conj	14064 Jan 24 07:20	15°≈42'26	
morning rise	14063 Feb 16 21:06 14063 Feb 19 11:12	30°R≈ 28°≈58'00		minimum elong morning rise	14064 Jan 24 16:12 14064 Feb 01 14:42	15°≈26'44 11°≈20'45	4°21'25
asc. node	14063 Feb 19 11:12 14063 Feb 21 04:12	28°≈42'32		direct	14064 Feb 03 15:58	11 ≈2043 11°≈07'20	
direct	14063 Feb 21 12:09	28°≈42'07		asc. node	14064 Feb 08 01:39	11 ≈07 20 12°≈12'58	
direct	14063 Feb 25 21:59	0° ∀		morning max el	14064 Feb 12 06:44	15°≈20'25	18°43'41
morning max el	14063 Mar 01 00:05	2° ¥ 26'01	18°05'39	morning must vi	14064 Feb 22 11:03	0° ∀	10 .5 .1
morning set	14063 Mar 16 14:17	27°) €04'48		morning set	14064 Feb 28 10:32	11°) 18′06	
C	14063 Mar 18 03:55	0° Υ		Ü			
desc. node	14063 Mar 25 23:35	14° Y 19'13		superior conj	14064 Mar 08 04:28	28°) €09'59	0°29'26
				minimum elong	14064 Mar 08 06:21	28° ¥ 18′50	0°29'17
superior conj	14063 Mar 26 12:03	15° Ƴ 14'48	-0°04'12		14064 Mar 09 03:59	$0^{\circ}\Upsilon$	
minimum elong	14063 Mar 26 11:42		0°04'19	desc. node	14064 Mar 11 20:04	4° Υ 54'42	
behind sun begin	14063 Mar 26 04:12	14° Ƴ 39'50		max. Earth dist.	14064 Mar 15 10:14	11° Υ 19'09	1.39737 AU
behind sun end	14063 Mar 26 19:12	15° Y 46'34		evening rise	14064 Mar 19 10:24	18° Y 12'16	
max. Earth dist.	14063 Apr 03 02:47	28° Y ′23'02	1.41918 AU		14064 Mar 26 16:18	0° B	
	14063 Apr 04 02:03	0° 8			14064 Apr 16 21:05	0°П 7°П 1126	24902104
evening rise	14063 Apr 08 07:17	6° 8 53′13 0° Ⅱ		evening max el retrograde	14064 Apr 23 07:31	7° Ⅱ 11'36 13° Ⅱ 44'54	24°03'04
evening max el	14063 Apr 23 11:36 14063 May 11 17:14	0 II 23°II18'49	22°41'56	asc. node	14064 May 04 11:35 14064 May 05 22:08	13° I I35'42	
asc. node	14063 May 20 00:51	28° I I59'40	22 41 30	evening set	14064 May 09 20:45	13 H 3342 11° H 28'27	
retrograde	14063 May 21 17:37	29° Ⅱ 12'44		min. Earth dist.	14064 May 14 12:35	6° Ⅱ 04'14	0.68679 AU
evening set	14063 May 26 15:15	27° Ⅱ 09'12		inferior conj	14064 May 15 07:38	4° ∏ 59'30	2°31'27
inferior conj	14063 May 31 22:38	20° Ⅱ 46′10	2°55'05	minimum elong	14064 May 15 05:36	5° Ⅱ 06'24	2°30'04
minimum elong	14063 May 31 21:07	20° Ⅱ 51'25	2°53'50	•	14064 May 19 09:42	30° ₹ 8	
min. Earth dist.	14063 May 31 16:12	21° II 08'33	0.68974 AU	morning rise	14064 May 20 14:30	28° 8 57'03	
morning rise	14063 Jun 06 02:53	14° Ⅱ 35'45		direct	14064 May 24 15:12	27° 8 24'49	
direct	14063 Jun 10 15:54	12° Ⅱ 43′05			14064 May 30 10:16	Π °0	
morning max el	14063 Jun 19 13:06	17° Ⅱ 52'18	21°29'53	morning max el	14064 Jun 01 09:59	1° Ⅱ 47'53	20°13'54
desc. node	14063 Jun 22 00:41	20° Ⅱ 31'32		desc. node	14064 Jun 07 21:43	9° Ⅱ 25'09	
	14063 Jun 29 12:56	0° ©			14064 Jun 22 05:58	0.22	
morning set	14063 Jul 19 20:30 14063 Jul 21 05:36	0°Ω 2°Ω10'12		morning set max. Earth dist.	14064 Jun 29 11:38 14064 Jul 09 04:13	11°501'02 26°512'14	1.44180 AU
max. Earth dist.	14063 Jul 27 18:13	$12^{\circ}\Omega 40'36$	1.42369 AU	max. Earm dist.	14064 Jul 11 13:00	20 3 12 14 0° Ω	1.44160 AU
max. Earth dist.	14003 Jul 27 18.13	12 0640 30	1.42309 AU		14004 Jul 11 13.00	0 06	
superior conj	14063 Aug 04 05:50	25° Ω 16'22	-1°32'41	superior conj	14064 Jul 15 02:06	5° Ω 45'54	-1°59'59
minimum elong	14063 Aug 04 12:44	25° Ω 46'12		minimum elong	14064 Jul 15 08:52	6° Ω 13'43	
	14063 Aug 06 23:00	0° m)		evening rise	14064 Jul 27 23:18	27° Ω 31'15	
evening rise	14063 Aug 15 10:11	15° m) 11'35		C	14064 Jul 29 09:44	0° ™	
asc. node	14063 Aug 16 00:59	16° Mp 18'51		asc. node	14064 Aug 01 21:37	6° Mp 00'41	
	14063 Aug 23 19:03	0∘ ⊽		evening max el	14064 Aug 14 03:41	23° m 55'46	18°03'21
evening max el	14063 Aug 31 13:40	10° ₽ 41'01	18°07'00	retrograde	14064 Aug 20 14:18	27° m 16'35	
retrograde	14063 Sep 07 11:56	14° ≏ 13'31		evening set	14064 Aug 23 05:14	26° Mp 42'15	
evening set	14063 Sep 09 18:34	13° ≏ 50'55		inferior conj	14064 Aug 29 15:05	21°M)31'36	1°30'08
inferior conj	14063 Sep 16 20:04	8° 2 59'09	0°19'36	minimum elong	14064 Aug 29 17:18	21° m/25'48	1°29'07
minimum elong	14063 Sep 16 20:43	8° ≏ 57'42	0°19'25	min. Earth dist.	14064 Sep 01 12:39	18° Mp 32'12	0.62242 AU
desc. node	14063 Sep 17 21:28	8° ≏ 01'04	0.50040 : **	desc. node	14064 Sep 03 19:01	16° TQ 26'58	
min. Earth dist.	14063 Sep 20 01:58	6° Ω 03'17	0.59948 AU	morning rise	14064 Sep 05 03:00	15° TD 24'50	
morning rise	14063 Sep 23 19:35	3° ≏ 14'39		direct	14064 Sep 11 19:23	13°Mp01'24	

morning max el	14064 Sep 25 21:56	21° m)01'19	27°57'10	desc. node	14065 Aug 21 16:31	26° Ω 35'51	
morning max ci	14064 Oct 03 16:56	0∘ ⊽	27 37 19	direct	14065 Aug 25 15:10	25°Ω40'44	
	14064 Oct 22 19:43	0° ™		uncci	14065 Sep 04 07:33	0°m)	
asc. node	14064 Oct 28 23:42	11°M54'23		morning max el	14065 Sep 08 07:59	3°Mo 39'08	27°20'38
morning set	14064 Oct 29 21:57	13°M47'29		morning max ci	14065 Sep 28 04:12	0∘ ⊽	27 27 30
max. Earth dist.	14064 Nov 04 06:42	25°M07'43	1.31736 AU	morning set	14065 Oct 13 12:50	0 = 27° £ 17'05	
max. Lattii dist.	14004 1107 04 00.42	23 11007 43	1.51750 AO	morning set	14065 Oct 14 21:35	0°M	
superior conj	14064 Nov 06 10:01	29°M48'24	1°12'30	asc. node	14065 Oct 15 20:21	1°M54'54	
minimum elong	14064 Nov 06 07:46	29°M36'01	1°13'03	max. Earth dist.	14065 Oct 18 03:56	6°M40'57	1.32819 AU
minimum ciong	14064 Nov 06 12:08	0° ⊼	1 15 05	max. Earth dist.	14003 001 10 03.30	0 110-10 37	1.32017 110
evening rise	14064 Nov 13 04:01	14° ∡ 38'34		superior conj	14065 Oct 21 15:19	14°ML02'32	0°52'26
evening rise	14064 Nov 20 17:00	0°る		minimum elong	14065 Oct 21 13:08	13°ML50'50	0°52'43
desc. node	14064 Nov 30 15:42	00 16° ろ 19'03		evening rise	14065 Oct 28 15:02	29°M08'45	0 32 43
evening max el	14064 Dec 08 07:06	25° る 17'48	24°25'04	o ronning rise	14065 Oct 29 00:38	0° ⊼ 7	
evening max er	14064 Dec 14 11:30	0°≈	2 1 23 0 1		14065 Nov 15 00:39	°ੁੱਠ	
retrograde	14064 Dec 21 23:29	2°≈06'52		desc. node	14065 Nov 17 12:52	3° る 00'52	
evening set	14064 Dec 27 04:01	1°≈07'48		evening max el	14065 Nov 19 16:59	5° る 17'13	22°42'27
	14064 Dec 29 17:30	30°Rる		retrograde	14065 Dec 02 17:15	11° る 44'26	,
min. Earth dist.	14065 Jan 01 18:46		0.55932 AU	evening set	14065 Dec 06 13:53	11° る 11'56	
inferior conj	14065 Jan 04 01:20	26°පි52'21		min. Earth dist.	14065 Dec 14 01:22		0.54783 AU
minimum elong	14065 Jan 04 08:29	26° ප 41'16		inferior conj	14065 Dec 15 00:55	7° る 14'43	
morning rise	14065 Jan 12 14:55	22° ろ 50'58		minimum elong	14065 Dec 15 00:30	7° る 15'19	
direct	14065 Jan 15 00:29	22° る 35'41		morning rise	14065 Dec 23 12:26	3° る 26'43	0 0, 19
asc. node	14065 Jan 24 23:02	27° る 20'10		direct	14065 Dec 26 15:37	3° る 04'12	
morning max el	14065 Jan 25 01:46		19°44'14	morning max el	14066 Jan 07 06:17	8° る 37'42	21°07'59
moning man vi	14065 Jan 27 10:44	0°≈	1,	asc. node	14066 Jan 11 20:18	13° る 48'52	21 0, 09
morning set	14065 Feb 11 14:26	25°≈49'56		use. Hous	14066 Jan 21 17:39	0°≈	
morning sec	14065 Feb 13 15:47	0° ∀		morning set	14066 Jan 26 23:10	10° ≈ 32'00	
	11000100 13 10.17	٠,٨		morning sec	11000 0411 20 23:10	10 10 2 00	
superior conj	14065 Feb 19 12:04	11° ¥ 45'36	0°56'31	superior conj	14066 Feb 03 06:50	25° ≈ 50'34	1°16'40
minimum elong	14065 Feb 19 14:45	11°) 58'51		minimum elong	14066 Feb 03 09:19	26° ≈ 03'24	1°17'03
max. Earth dist.	14065 Feb 25 16:40	23°) € 37'54	1.37480 AU		14066 Feb 05 07:34	0°) €	
desc. node	14065 Feb 26 16:33	25° ¥ 28′02		max. Earth dist.	14066 Feb 08 02:24	5° ¥ 33'57	1.35375 AU
evening rise	14065 Mar 01 09:50	0° Y '22'39		evening rise	14066 Feb 12 02:35	13°) 15'46	
Č	14065 Mar 01 04:45	0° Υ		desc. node	14066 Feb 13 13:04	15°) 55'39	
	14065 Mar 19 22:10	0°B			14066 Feb 21 14:59	0° Υ	
evening max el	14065 Apr 05 21:07	21° 8 05'06	25°20'09		14066 Mar 14 20:24	0°B	
retrograde	14065 Apr 18 01:14	28° 8 07'53		evening max el	14066 Mar 19 10:49	4° 8 53'49	26°25'48
asc. node	14065 Apr 22 19:30	26° 8 32'21		retrograde	14066 Apr 01 09:42	12° 8 14'49	
evening set	14065 Apr 23 21:55	25° 8 41'37		evening set	14066 Apr 07 17:01	9° 8 43'05	
min. Earth dist.	14065 Apr 28 06:20	20° 8 53'34	0.67924 AU	asc. node	14066 Apr 09 16:55	7° 8 51'37	
inferior conj	14065 Apr 29 13:58	19° 8 11'01	1°57'23	min. Earth dist.	14066 Apr 11 19:17	5° 8 30'06	0.66736 AU
minimum elong	14065 Apr 29 11:49	19° 8 17'58	1°56'00	inferior conj	14066 Apr 13 15:32	3° 8 16'00	1°12'18
morning rise	14065 May 05 02:06	13° 8 17'53		minimum elong	14066 Apr 13 13:51	3° 8 21'05	1°11'13
direct	14065 May 08 15:12	12° 8 05'39			14066 Apr 16 12:05	30° ŖƳ	
morning max el	14065 May 15 14:24	15° 8 53'49	19°12'10	morning rise	14066 Apr 19 11:39	27° Y ′33'53	
desc. node	14065 May 25 18:35	28° 8 52'53		direct	14066 Apr 22 14:06	26° Y 39'50	
	14065 May 26 13:00	Π °0			14066 Apr 28 23:03	0° 8	
greatest brilliancy	14065 May 28 11:11	2° Ⅱ 50'33	-0.7m	morning max el	14066 Apr 29 01:37	0° 8 06'12	18°26'34
morning set	14065 Jun 08 15:19	19° Ⅱ 51'36		desc. node	14066 May 12 15:21	18° 8 45'28	
	14065 Jun 15 04:38	0 \circ \odot		morning set	14066 May 19 13:10	29° 8 38'18	
max. Earth dist.	14065 Jun 21 20:25	10° © 23'30	1.45386 AU		14066 May 19 18:40	Π °0	
superior conj	14065 Jun 24 23:55	15° © 20'55		superior conj	14066 Jun 04 08:38	24° ∐ 27'10	
minimum elong	14065 Jun 25 01:32	15° © 27'17	2°14'20	minimum elong	14066 Jun 04 02:37	24° Ⅱ 03'41	
	14065 Jul 04 03:33	0° N		max. Earth dist.	14066 Jun 04 16:05		1.45874 AU
evening rise	14065 Jul 09 14:22	8° Ω 54'00			14066 Jun 07 21:56	0°©	
asc. node	14065 Jul 19 18:19	25° Ω 25'06		evening rise	14066 Jun 20 04:41	19° © 14'59	
	14065 Jul 22 18:54	0° Mp	10016:00		14066 Jun 27 00:45	0°N	0.0
evening max el	14065 Jul 28 17:58	7° Tp 29'20	18°18'00	greatest brilliancy	14066 Jun 29 08:11	3° Ω 35'46	-0.8m
retrograde	14065 Aug 04 02:50	10° m 52'30		asc. node	14066 Jul 06 15:07	14° Ω 24'47	1005011
evening set	14065 Aug 07 02:23	10° Mp 03'48	2010125	evening max el	14066 Jul 12 05:32	21°Ω12'59	18°50'11
inferior conj	14065 Aug 13 00:09	4° TQ 36'16	2°19'36	retrograde	14066 Jul 18 21:39	24° Ω 51'59	
minimum elong	14065 Aug 13 02:34	4° m) 29'18	2°18'27	evening set	14066 Jul 22 06:08	23° Ω 47'14	2051:05
min. Earth dist.	14065 Aug 15 08:52	1° m 52'55	0.64369 AU	inferior conj	14066 Jul 27 19:29	18° Ω 04'45	2°51'05
	14065 Aug 17 03:24	30°R€		minimum elong	14066 Jul 27 21:17	17° Ω 59'05	2°50'00
morning rise	14065 Aug 19 01:16	28° Ω 16'51		min. Earth dist.	14066 Jul 29 13:52	15° Ω 51'42	0.66169 AU

morning rise	14066 Aug 02 11:37	11° Ω 40'12		minimum elong	14067 Jul 11 22:48	1° Ω 48'22	3°06'33
direct	14066 Aug 08 18:26	9°Ω00'47		min. Earth dist.	14067 Jul 13 02:01	0°Ω17'37	0.67558 AU
desc. node	14066 Aug 08 14:00	9°Ω00'55			14067 Jul 13 07:22	30°Rூ	,
morning max el	14066 Aug 21 19:19	16° Ω 44'56	26°32'35	morning rise	14067 Jul 17 07:27	25°926'55	
S	14066 Sep 01 19:50	0° m)		direct	14067 Jul 23 04:14	22°952'49	
	14066 Sep 21 01:26	0∘ <u>⊽</u>		desc. node	14067 Jul 26 11:25	23° © 33'42	
morning set	14066 Sep 26 16:07	10° ≙ 13'18			14067 Aug 04 03:17	$0^{\circ}\Omega$	
max. Earth dist.	14066 Sep 30 15:36	17° ≏ 54'17	1.34425 AU	morning max el	14067 Aug 04 06:13	0° Ω 07'24	25°15'12
asc. node	14066 Oct 02 16:55	22° ≏ 00'45			14067 Aug 26 17:04	0° m)	
				morning set	14067 Sep 09 03:58	22° m 27'13	
superior conj	14066 Oct 05 14:10	27° ≏ 55'16	0°26'49	max. Earth dist.	14067 Sep 12 17:53	28° m 59'40	1.36473 AU
minimum elong	14066 Oct 05 12:45	27° ≙ 47'59	0°26'56		14067 Sep 13 06:49	0∘ ⊽	
	14066 Oct 06 14:08	0° M					
evening rise	14066 Oct 13 00:30	13°M32'48		superior conj	14067 Sep 19 03:42	11° ≏ 19'47	-0°03'48
	14066 Oct 21 08:59	0° ∡ ¹		minimum elong	14067 Sep 19 03:56	11° ≙ 20'54	0°03'40
evening max el	14066 Nov 01 09:30	15° ∡ °29′25	21°06'22	behind sun begin	14067 Sep 18 21:40	10° ≏ 49'53	
desc. node	14066 Nov 04 10:09	18° ∡ 06'42		behind sun end	14067 Sep 19 10:11	11° ≏ 51'59	
retrograde	14066 Nov 13 04:03	21° ∡ °20′23		asc. node	14067 Sep 19 13:28	12° ≏ 08'19	
evening set	14066 Nov 15 18:32	21° ₹ 04'25		evening rise	14067 Sep 27 06:17	27° £ 45′09	
inferior conj	14066 Nov 24 16:05	17° ∡ 11'18			14067 Sep 28 08:53	0° M ₊	
minimum elong	14066 Nov 24 07:36	17° ∡ °23′18	5°23'00	evening max el	14067 Oct 14 15:43	26°M24'31	19°48'27
min. Earth dist.	14066 Nov 25 07:07	16° ₹ 50′02	0.54493 AU		14067 Oct 19 07:21	0° ∡ ¹	
morning rise	14066 Dec 02 21:07	13° ∡ ′20′02		desc. node	14067 Oct 22 07:33	1° ∡ 10′25	
direct	14066 Dec 06 22:50	12° ∡ ⁴44'28		retrograde	14067 Oct 24 19:14	1° ∡ ¹28′08	
morning max el	14066 Dec 19 21:48	18° ∡ ′59'51	22°50'39	evening set	14067 Oct 26 17:56	1° ∡ 17'49	
	14066 Dec 28 20:10	0° ろ			14067 Oct 30 17:04	30°RM₁	
asc. node	14066 Dec 29 17:28	1° る 21'43		inferior conj	14067 Nov 04 13:34	27°M16'33	
morning set	14067 Jan 11 10:26	25° る 17'39		minimum elong	14067 Nov 04 03:55		3°56'45
	14067 Jan 13 15:11	0° ≈		min. Earth dist.	14067 Nov 06 15:28	25°M59'29	0.55147 AU
	14067 7 10 00 05	100 15124	1020100	morning rise	14067 Nov 12 12:19	23°M ₀ 01'34	
superior conj	14067 Jan 18 09:25	10°≈15'34	1°30'00	direct	14067 Nov 17 12:12	22°M06'34	24020142
minimum elong	14067 Jan 18 11:08	10°≈24'42	1°30'44	morning max el	14067 Dec 01 07:26	28°M58'09	24°39'42
max. Earth dist.	14067 Jan 21 18:50	17°≈25'08	1.33602 AU	1	14067 Dec 02 08:44	0° ⊀ 100 ₹ 100 €	
evening rise	14067 Jan 26 09:08	26°≈42'41 0°) €		asc. node	14067 Dec 16 14:33	19° メ *43'25 0° る	
desc. node	14067 Jan 28 01:50 14067 Jan 31 09:40	6° ∺ 13'19		marning sat	14067 Dec 22 02:29 14067 Dec 26 22:20	0°る 10°る01'05	
desc. node	14067 Feb 14 23:01	0 Υ 1319		morning set	1400 / Dec 20 22.20	10 301 03	
evening max el	14067 Mar 02 00:17	18° Υ 29'00	27°12'43	superior conj	14068 Jan 02 17:08	24° る 52'19	1°36'53
retrograde	14067 Mar 15 12:18	25° Υ 57'39	27 1243	minimum elong	14068 Jan 02 17:49	24°る56'00	1°37'52
evening set	14067 Mar 22 04:05	23° Y 26'14		max. Earth dist.	14068 Jan 04 18:45	24 3 30 00 29° る 22'57	1.32281 AU
min. Earth dist.	14067 Mar 26 01:29	19° Υ 46'08	0.65147 AU	max. Dartii dist.	14068 Jan 05 01:36	0°≈	1.52201 710
asc. node	14067 Mar 27 14:21	18° Υ '04'08	0.05117710	evening rise	14068 Jan 10 02:13	10°≈35'01	
inferior conj	14067 Mar 28 09:59	17° Υ 09'10	0°15'36	desc. node	14068 Jan 18 06:21	26°≈15'22	
minimum elong	14067 Mar 28 09:33	17° Y °10′23	0°15'14	dose. node	14068 Jan 20 09:24	0°) €	
transit middle	14067 Mar 28 09:33	17° Y ′10'23	0°15'14		14068 Feb 10 20:25	0°Υ	
transit begin	14067 Mar 28 08:37	17° Y °12'59		evening max el	14068 Feb 12 12:09	1° Y 38'39	27°33'48
transit end	14067 Mar 28 10:28	17° Y °07'48		retrograde	14068 Feb 26 08:02	9° Ƴ 05'44	
morning rise	14067 Apr 03 16:44	11° Y ′40'02		evening set	14068 Mar 04 04:39	6° Ƴ 42'03	
direct	14067 Apr 06 09:38	11° Y ′01'16		min. Earth dist.	14068 Mar 07 23:07	3° Ƴ 30'39	0.63230 AU
morning max el	14067 Apr 12 17:35	14° Y 18'34	17°57'52	inferior conj	14068 Mar 10 18:26	0° Ƴ 42'29	-0°53'02
	14067 Apr 24 00:50	0° 8		minimum elong	14068 Mar 10 20:09	0° Ƴ 38'10	0°52'13
desc. node	14067 Apr 29 12:02	8° 8 56'14			14068 Mar 11 11:30	30° ₹ ₩	
morning set	14067 Apr 30 14:56	10° 8 46'53		asc. node	14068 Mar 13 11:50	28° ₩ 07'07	
	14067 May 12 11:09	Π $^{\circ}0$		morning rise	14068 Mar 17 14:12	25°) 28'44	
				direct	14068 Mar 19 23:03	25°) €01'45	
superior conj	14067 May 14 21:27	3° Ⅱ 51′28	-1°42'05	morning max el	14068 Mar 26 11:20	28° ¥ 21′18	17°46'28
minimum elong	14067 May 14 12:25	3° Ⅱ 15'42			14068 Mar 28 00:22	0° Υ	
max. Earth dist.	14067 May 18 12:15	9° Ⅲ 33'14	1.45612 AU	morning set	14068 Apr 11 18:42	23° Y ′09'31	
evening rise	14067 May 30 22:44	28° ∏ 49'50		desc. node	14068 Apr 15 08:38	29° Y 19′06	
	14067 May 31 17:00	0ං ව			14068 Apr 15 18:12	9° 8	
greatest brilliancy	14067 Jun 13 19:31	19° 5 548'19	-0.6m				
	14067 Jun 21 03:36	$0^{\circ}\Omega$		superior conj	14068 Apr 24 04:47	14° 8 09'27	
asc. node	14067 Jun 23 12:01	2° Ω 51'27	10000:10	minimum elong	14068 Apr 23 22:17	13° 8 42'46	
evening max el	14067 Jun 25 12:19	5° Ω 01'35	19°38'49	max. Earth dist.	14068 Apr 30 06:19	23° 8 57'36	1.44635 AU
retrograde	14067 Jul 02 19:44	9° Ω 08'39			14068 May 04 02:06	0°II	
evening set	14067 Jul 06 13:41	7° Ω 47'03	2007124	evening rise	14068 May 09 09:44	8° Ⅱ 14'35	
inferior conj	14067 Jul 11 21:57	1° Ω 51'13	5-07-34		14068 May 23 23:09	0ං ව	

avanina may al	14069 Jun 07 12:17	100051140	20042100	rotro arada	14060 May 20 16:47	8° © 10'29	
evening max el	14068 Jun 07 13:17	18°951'40	20°42'00	retrograde	14069 May 30 16:47		
asc. node	14068 Jun 09 09:02	20°533'37		evening set	14069 Jun 04 07:55	6°5015'41	200.4102
retrograde	14068 Jun 15 18:44	23°936'34		inferior conj	14069 Jun 09 14:12	29° Ⅱ 57'48	3°04'03
evening set	14068 Jun 19 22:53	21° 9 58'02		minimum elong	14069 Jun 09 13:07	0° © 01'32	3°02'53
inferior conj	14068 Jun 25 04:55	15° © 50'19	3°11'23	min. Earth dist.	14069 Jun 09 15:13	29° Ⅲ 54'14	0.68938 AU
minimum elong	14068 Jun 25 04:46	15° © 50'52	3°10'20		14069 Jun 09 13:34	30° Ŗ Ⅱ	
min. Earth dist.	14068 Jun 25 19:12	15° © 01'00	0.68487 AU	morning rise	14069 Jun 14 18:08	23° Ⅱ 43'25	
morning rise	14068 Jun 30 10:21	9° 5 29'53		direct	14069 Jun 19 14:34	21° Ⅲ 39'13	
direct	14068 Jul 05 19:22	7° 5 08'12		morning max el	14069 Jun 29 04:41	27° Ⅱ 17'31	22°18'23
desc. node	14068 Jul 12 08:44	9° 5 48'47		desc. node	14069 Jun 29 05:57	27° Ⅲ 20'42	
morning max el	14068 Jul 16 16:36	13° © 38'38	23°47'21		14069 Jul 01 17:28	0ಂತಾ	
morning man er	14068 Jul 29 22:43	0° Ω	25 ., 21		14069 Jul 23 12:28	$0 {\circ} \Omega$	
	14068 Aug 18 13:43	0° m)		morning set	14069 Aug 01 11:52	14°Ω05'00	
	•			•	-	22°Ω36'16	1 41127 ATT
morning set	14068 Aug 20 19:55	3° Mp 47'52	1 20706 111	max. Earth dist.	14069 Aug 06 16:00		1.41137 AU
max. Earth dist.	14068 Aug 24 15:38	10° m 24'25	1.38796 AU		14069 Aug 10 24:00	0° m)	
superior conj	14068 Sep 01 04:22	24° m 07'42	0.38,03	superior conj	14069 Aug 14 11:50	6° Mp 08'32	1013126
	•	•			•		
minimum elong	14068 Sep 01 07:06	24° m 20'32	0°3/4/	minimum elong	14069 Aug 14 17:27	6° TD 33'33	1°13'08
_	14068 Sep 04 06:18	0∘ ⊽		asc. node	14069 Aug 23 06:37	22° m 13'51	
asc. node	14068 Sep 05 10:02	2° ₽ 14'04		evening rise	14069 Aug 24 19:21	25° Mp 05'30	
evening rise	14068 Sep 10 05:42	11° ≏ 39'09			14069 Aug 27 10:35	0∘ ಹ	
	14068 Sep 20 06:24	0° M .		evening max el	14069 Sep 09 18:05	20° ₽ 37'04	18°17'40
evening max el	14068 Sep 26 11:48	8° M .09'37	18°52'23	retrograde	14069 Sep 17 03:29	24° ≏ 22'19	
retrograde	14068 Oct 05 01:40	12°M28'16		evening set	14069 Sep 19 06:00	24° ₽ 04'44	
evening set	14068 Oct 06 22:51	12°ML16'36		desc. node	14069 Sep 25 02:32	20° ≏ 44'23	
desc. node	14068 Oct 08 05:01	11°ML56'33		inferior conj	14069 Sep 26 17:44	19° ≏ 24'28	-0°30'55
inferior conj	14068 Oct 15 04:48	7°M57'39	-2°13'11	minimum elong	14069 Sep 26 16:36	19° ≏ 26'50	0°30'13
minimum elong	14068 Oct 14 23:14	8°ML07'34	2°10'25	min. Earth dist.	14069 Sep 30 00:43	16° 2 40'49	0.58660 AU
•					-		0.38000 AU
min. Earth dist.	14068 Oct 18 04:39	5°M50'12	0.56626 AU	morning rise	14069 Oct 03 23:45	13° ≏ 57'47	
morning rise	14068 Oct 22 20:29	3° M ₀07'07		direct	14069 Oct 10 07:45	12° ≙ 11'00	
direct	14068 Oct 28 15:09	1°ML47'16		morning max el	14069 Oct 24 15:11	19° ≏ 51'27	27°25'55
morning max el	14068 Nov 11 19:39	9°M06'43	26°16'59		14069 Nov 02 07:40	0° M	
	14068 Nov 27 13:31	0° ∡ ¹		asc. node	14069 Nov 19 08:26	28° ™ 05'47	
asc. node	14068 Dec 02 11:33	8° ∡ 11'35			14069 Nov 20 07:38	0° ∡ 7	
morning set	14068 Dec 10 09:10	24° ∡ ³37'53		morning set	14069 Nov 24 17:06	9° ∡ 02'34	
morning set	14068 Dec 10 09:10 14068 Dec 12 20:22	24° メ 37'53 0° る		morning set	14069 Nov 24 17:06	9° ∡ °02'34	
morning set				morning set superior conj	14069 Nov 24 17:06 14069 Dec 01 15:25	9° 🗷 02'34 24° 🗷 15'53	1°32'27
morning set superior conj			1°37'38	C			1°32'27 1°33'24
-	14068 Dec 12 20:22	0°8	1°37'38 1°38'41	superior conj	14069 Dec 01 15:25	24° × 15'53	
superior conj minimum elong	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24	0°る 9°る34'40 9°る32'23		superior conj minimum elong	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53	24° × 15′53 24° × 18′15 23° × 39′18	1°33'24
superior conj minimum elong max. Earth dist.	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32	0°る 9°る34'40 9°る32'23 11°る29'56	1°38'41	superior conj minimum elong max. Earth dist.	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 云	1°33'24
superior conj minimum elong	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07	0°පි 9°පි34'40 9°පි32'23 11°පි29'56 24°පි46'10	1°38'41	superior conj minimum elong	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹5 9° ₹09'04	1°33'24
superior conj minimum elong max. Earth dist. evening rise	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55	0°පි 9°පි34'40 9°පි32'23 11°පි29'56 24°පි46'10 0°≋	1°38'41	superior conj minimum elong max. Earth dist. evening rise	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29	24° ₹15′53 24° ₹08′15 23° ₹39′18 0° ₹ 9° ₹09′04 0° ≈	1°33'24
superior conj minimum elong max. Earth dist.	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08	0°පි 9°පි34'40 9°පි32'23 11°පි29'56 24°පි46'10 0°≈ 15°≈55'24	1°38'41	superior conj minimum elong max. Earth dist. evening rise desc. node	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 舌 9° 舌09'04 0° ≈ 5° ≈ 04'02	1°33'24 1.31155 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52	0°る 9°る34'40 9°る32'23 11°る29'56 24°る46'10 0°≈ 15°≈55'24 0°米	1°38'41 1.31462 AU	superior conj minimum elong max. Earth dist. evening rise	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 古 9° 古09'04 0° ≈ 5° ≈ 04'02 25° ≈ 54'08	1°33'24
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Jan 24 20:21	0°る 9°る34'40 9°る32'23 11°る29'56 24°る46'10 0°≈ 15°≈55'24 0°升 14°升11'00	1°38'41	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 古 9° 古09'04 0° ≈ 5° ≈ 04'02 25° ≈ 54'08 0°)	1°33'24 1.31155 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Jan 24 20:21 14069 Feb 07 19:30	0°る 9°る34'40 9°る32'23 11°る29'56 24°る46'10 0°≈ 15°≈55'24 0°升 14°升11'00 21°升29'52	1°38'41 1.31462 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04 14070 Jan 20 21:03	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹59'09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ¥ 3° ¥02'25	1°33'24 1.31155 AU
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Jan 24 20:21 14069 Feb 07 19:30 14069 Feb 14 15:47	0°る 9°る34'40 9°る32'23 11°る29'56 24°る46'10 0°≈ 15°≈55'24 0°米 14°米11'00 21°米29'52 19°米21'51	1°38'41 1.31462 AU 27°22'59	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ¥ 3° ¥02'25 1° ¥17'18	1°33'24 1.31155 AU
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Feb 07 19:30 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34	0°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0° ₩ 14°₩11'00 21°₩29'52 19°₩21'51 16°₩32'35 13°₩47'42	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ₹ 3° ₹02'25 1° ¥17'18 30° ₹≈ 28° ≈39'57	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 21 18:18	0°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0° ¥ 14°¥11'00 21°¥29'52 19°¥21'51 16°¥32'35 13°¥47'42 13°¥37'13	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ¥ 3° ¥02'25 1° ¥17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 21 18:18 14069 Feb 28 09:19	0°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0° ¥ 14°¥11'00 21°¥29'52 19°¥21'51 16°¥32'35 13°¥47'42 13°¥37'13 9°¥04'11	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 03 23:32	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ₹ 3° ₹02'25 1° ¥17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 21 13:34 14069 Feb 21 13:34 14069 Feb 22 18:18 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52	9°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°¥ 14°¥11'00 21°¥29'52 19°¥21'51 16°¥32'35 13°¥47'42 13°¥37'13 9°¥04'11 8°¥52'04 8°¥33'08	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14069 Dec 01 15:25 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 03 23:32 14070 Feb 11 16:18 14070 Feb 13 16:49	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 🛪 9° 🛪 09'04 0° ≈ 5° ≈ 04'02 25° ≈ 54'08 0° 光 3° 光 02'25 1° 光 17'18 30° R ≈ 28° ≈ 39'57 26° ≈ 14'30 25° ≈ 59'27 21° ≈ 39'58 21° ≈ 25'29	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 21 13:34 14069 Feb 22 13:34 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38	0°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 03 23:32 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 15 06:45	24° 🖈 15'53 24° 🖈 08'15 23° 🖈 39'18 0° 🛪 9° 🛪 09'04 0° ≈ 5° ≈ 04'02 25° ≈ 54'08 0° 光 3° 光 02'25 1° 光 17'18 30° R ≈ 28° ≈ 39'57 26° ≈ 14'30 25° ≈ 59'27 21° ≈ 39'58 21° ≈ 25'29 21° ≈ 34'43	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21 3°34'00
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 17 03:24 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Jan 13 00:52 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 21 13:34 14069 Feb 22 13:34 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38 14069 Mar 22 04:19	0°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23 0°℉	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 03 23:32 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 15 06:45 14070 Feb 15 06:45	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹5 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ¥ 3° ¥02'25 1° ¥17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27 21° ≈39'58 21° ≈25'29 21° ≈34'43 25° ≈20'30	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong ax. Earth dist.	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 22 18:18 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38 14069 Mar 22 04:19 14069 Apr 05 12:01 14069 Apr 05 12:01 14069 Apr 08 02:22 14069 Apr 19 05:42 14069 Apr 19 05:42 14069 Apr 19 05:42 14069 Apr 26 22:41	9°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23 0°Ƴ 6°Ƴ28'09 19°Ƴ49'48 25°Ƴ33'37 25°Ŷ23'29 0°℧ 7°℧56'51	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00 17°53'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set	14069 Dec 01 15:25 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 27 11:44 14070 Feb 03 15:42 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 21 14:53 14070 Feb 21 14:53 14070 Feb 25 12:54 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 18:20 14070 Mar 18 12:49	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ₹ 3° ₹02'25 1° ₹17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27 21° ≈39'58 21° ≈25'29 21° ≈34'43 25° ≈20'30 0° ₹ 20° ₹25'28 0° ♀ 7° ♀58'59 8° ♀02'35 7° ♀37'29	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21 3°34'00 18°19'13
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong ax. Earth dist.	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 14 15:47 14069 Feb 21 13:34 14069 Feb 22 18:18 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38 14069 Mar 22 04:19 14069 Apr 05 12:01 14069 Apr 05 09:40 14069 Apr 08 02:22 14069 Apr 19 05:42	9°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23 0°Ƴ 6°Ƴ28'09 19°Ƴ49'48 25°Ƴ33'37 25°Ŷ23'29 0°℧ 7°℧56'51 18°℧09'28	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00 17°53'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	14069 Dec 01 15:25 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 12 00:04 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 21 14:53 14070 Feb 21 14:53 14070 Feb 25 12:54 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 18:20 14070 Mar 18 12:49 14070 Mar 18 12:49	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ₹ 3° ₹02'25 1° ₹17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27 21° ≈39'58 21° ≈25'29 21° ≈34'43 25° ≈20'30 0° ₹ 20° ₹25'28 0° ♀ 7° ♀58'59 8° ♀02'35 7° ♀37'29 8° ♀27'39	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21 3°34'00 18°19'13
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong ax. Earth dist.	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 22 18:18 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38 14069 Mar 22 04:19 14069 Apr 05 12:01 14069 Apr 05 12:01 14069 Apr 08 02:22 14069 Apr 19 05:42 14069 Apr 19 05:42 14069 Apr 19 05:42 14069 Apr 26 22:41	9°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23 0°Ƴ 6°Ƴ28'09 19°Ƴ49'48 25°Ƴ33'37 25°Ƴ23'29 0°♂ 7°♂56'51 18°♂9'28	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00 17°53'05	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	14069 Dec 01 15:25 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 21 14:53 14070 Feb 21 14:53 14070 Feb 25 12:54 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 18:20 14070 Mar 18 12:49 14070 Mar 18 12:49 14070 Mar 18 23:50 14070 Mar 18 23:50	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ₹ 3° ₹02'25 1° ₹17'18 30° ₹≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27 21° ≈39'58 21° ≈25'29 21° ≈34'43 25° ≈20'30 0° ₹ 20° ₹25'28 0° ₹ 7° ₹58'59 8° ₹02'35 7° ₹37'29 8° ₹27'39 10° ₹24'34	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21 3°34'00 18°19'13
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	14068 Dec 12 20:22 14068 Dec 17 03:49 14068 Dec 18 00:32 14068 Dec 24 03:07 14068 Dec 26 15:55 14069 Jan 04 03:08 14069 Feb 07 19:30 14069 Feb 14 15:47 14069 Feb 18 10:45 14069 Feb 21 13:34 14069 Feb 22 18:18 14069 Feb 28 09:19 14069 Feb 28 23:55 14069 Mar 03 02:52 14069 Mar 10 03:38 14069 Mar 22 04:19 14069 Apr 05 12:01 14069 Apr 05 12:01 14069 Apr 05 09:40 14069 Apr 07 05:42 14069 Apr 19 05:42 14069 Apr 19 05:42 14069 Mar 26 22:41 14069 Mar 26 22:41 14069 Mar 19 05:42	9°♂34'40 9°♂32'23 11°♂29'56 24°♂46'10 0°≈ 15°≈55'24 0°ℋ 14°ℋ11'00 21°ℋ29'52 19°ℋ21'51 16°ℋ32'35 13°ℋ47'42 13°ℋ37'13 9°ℋ04'11 8°ℋ52'04 8°ℋ33'08 12°ℋ05'23 0°Ƴ 6°Ƴ28'09 19°Ƴ49'48 25°℉33'37 25°℉23'29 0°♂ 7°♂56'51 18°♂99'28	1°38'41 1.31462 AU 27°22'59 0.61101 AU -2°12'16 2°10'00 17°53'05 -0°25'56 0°25'54 1.43048 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el superior conj minimum elong behind sun begin behind sun end desc. node max. Earth dist.	14069 Dec 01 15:25 14069 Dec 01 14:04 14069 Dec 01 08:53 14069 Dec 04 05:03 14069 Dec 08 09:21 14069 Dec 19 00:29 14069 Dec 22 00:01 14070 Jan 06 21:57 14070 Jan 20 21:03 14070 Jan 27 09:51 14070 Jan 29 14:01 14070 Jan 31 11:44 14070 Feb 03 15:42 14070 Feb 11 16:18 14070 Feb 13 16:49 14070 Feb 15 06:45 14070 Feb 21 14:53 14070 Feb 25 12:54 14070 Mar 18 17:32 14070 Mar 18 17:32 14070 Mar 18 18:20 14070 Mar 18 12:49 14070 Mar 18 12:49 14070 Mar 18 12:49 14070 Mar 20 01:42 14070 Mar 20 01:42 14070 Mar 20 01:42	24° ₹15'53 24° ₹08'15 23° ₹39'18 0° ₹ 9° ₹09'04 0° ≈ 5° ≈04'02 25° ≈54'08 0° ¥ 3° ₩02'25 1° ₩17'18 30° №≈ 28° ≈39'57 26° ≈14'30 25° ≈59'27 21° ≈39'58 21° ≈25'29 21° ≈34'43 25° ≈20'30 0° ₩ 20° ₩25'28 0° Υ 7° Υ58'59 8° Υ02'35 7° Υ37'29 8° Υ27'39 10° Υ24'34 21° Υ19'36	1°33'24 1.31155 AU 26°37'21 0.58915 AU -3°37'21 3°34'00 18°19'13

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	14070 Apr 20 11:19	Π°			14071 Apr 16 03:11	$\Pi^{\circ}0$	
evening max el	14070 May 04 00:23	16° ∏ 34'21	23°16'34	evening max el	14071 Apr 16 13:58	0° Ⅱ 26'57	24°36'49
•	•	22° ∏ 44'43	23 10 34	•	-	7° Ⅱ 14'33	24 30 49
asc. node	14070 May 14 03:21			retrograde	14071 Apr 28 04:46	/ П 14 33 6° П 39'38	
retrograde	14070 May 14 12:32	22° II 45'22		asc. node	14071 May 01 00:39		
evening set	14070 May 19 15:09	20° Ⅲ 35'52		evening set	14071 May 03 19:00	4° ∏ 53'09	
inferior conj	14070 May 24 23:49	14° Ⅱ 10′06			14071 May 08 02:44	30° ₹ 8	
minimum elong	14070 May 24 22:03	14° Ⅱ 16′12	2°45'00	min. Earth dist.	14071 May 08 07:22	29° 8 44'40	0.68406 AU
min. Earth dist.	14070 May 24 11:58	14° Ⅱ 51′01	0.68906 AU	inferior conj	14071 May 09 07:52	28° 8 22'50	2°18'18
morning rise	14070 May 30 04:53	8° Ⅲ 03'12		minimum elong	14071 May 09 05:44	28° 8 29'59	2°16'54
direct	14070 Jun 03 12:39	6° Ⅱ 19'08		morning rise	14071 May 14 16:40	22° 8 24'25	
morning max el	14070 Jun 11 21:46	11° II 07'08	20°56'09	direct	14071 May 18 12:16	21° 8 01'03	
desc. node	14070 Jun 16 03:02	15° Ⅱ 49'13		morning max el	14071 May 25 21:55	25° 8 07'46	19°45'52
	14070 Jun 26 15:04	0.ಪ			14071 May 30 05:23	0°II	
morning set	14070 Jul 12 04:01	23° © 21'19		desc. node	14071 Jun 02 23:58	4° Ⅱ 58'32	
morning set	14070 Jul 16 09:20	0°Ω			14071 Jun 07 19:45	11° I I50'10	0.65
To all the			1 42205 444	greatest brilliancy			-0.6m
max. Earth dist.	14070 Jul 19 22:48	5°8743'03	1.43205 AU		14071 Jun 19 21:50	0°95	
		_		morning set	14071 Jun 21 06:22	2°504'46	
superior conj	14070 Jul 26 21:48	17° Ω 13'11		max. Earth dist.	14071 Jul 02 11:39	19° © 33'22	1.44769 AU
minimum elong	14070 Jul 27 05:10	17° Ω 44'15	1°45'32				
	14070 Aug 03 07:49	0° m y		superior conj	14071 Jul 07 07:54	27° © 17'21	-2°07'45
evening rise	14070 Aug 07 18:56	7° m , 53′58		minimum elong	14071 Jul 07 13:09	27° © 38'27	2°08'31
asc. node	14070 Aug 10 03:14	12° Mp 04'05			14071 Jul 09 00:10	$0^{\circ}\Omega$	
	14070 Aug 21 03:45	0∘ ⊽		evening rise	14071 Jul 20 23:14	19° Ω 50'53	
evening max el	14070 Aug 24 06:22	3° ₽ 37'33	18°03'01	•	14071 Jul 26 23:53	0° m)	
retrograde	14070 Aug 30 22:24	7° ჲ 03'30		asc. node	14071 Jul 27 23:53	1° m 39'27	
evening set	14070 Sep 02 08:29	6° Ω 36'16		evening max el	14071 Aug 07 20:48	17° mp 01'05	18°07'20
inferior conj	14070 Sep 02 00:29	1° Ω 35'49	0°52'12	retrograde	14071 Aug 14 05:43	20° m/21'38	10 07 20
minimum elong	14070 Sep 09 04:26	1° ⊆ 32'08	0°51'33	evening set	14071 Aug 17 00:09	19° M) 41'36	
minimum ciong	14070 Sep 10 18:23		0 31 33	-	-	-	1°53'27
: E 4 E 4		30°R, M)	0.60025 ATT	inferior conj	14071 Aug 23 04:25	-•	
min. Earth dist.	14070 Sep 12 05:51	28° Mp 36'08	0.60935 AU	minimum elong	14071 Aug 23 06:52	14° m 16'49	1°52'21
desc. node	14070 Sep 12 00:03	28° m 49'32		min. Earth dist.	14071 Aug 25 20:52	11° m) 28'38	0.63174 AU
morning rise	14070 Sep 15 21:29	25° m 40'30		morning rise	14071 Aug 29 11:33	8° m 09'54	
direct	14070 Sep 22 12:27	23°M) 28'52		desc. node	14071 Aug 29 21:34	7° m 51'35	
	14070 Oct 05 07:04	0∘ ⊽		direct	14071 Sep 05 03:20	5° m 39'56	
morning max el	14070 Oct 06 18:23	1° ≏ 24'12	27°57'06	morning max el	14071 Sep 19 02:50	13° m 41'24	27°49'37
	14070 Oct 27 14:32	0° M			14071 Oct 02 06:38	0∘ ⊽	
asc. node	14070 Nov 06 05:14	17° M 48'46			14071 Oct 20 03:46	0° M .	
morning set	14070 Nov 08 20:16	23°M10'36		morning set	14071 Oct 23 16:26	6°M56'35	
	14070 Nov 12 01:25	0° ∡ ″		asc. node	14071 Oct 24 01:56	7° M 44'36	
max. Earth dist.	14070 Nov 14 15:54	5° ∡ ¹41'28	1.31373 AU	max. Earth dist.	14071 Oct 28 17:41	17° M 27'07	1.32129 AU
superior conj	14070 Nov 16 02:07	8° ∡ 750′56	1°21'27	superior conj	14071 Oct 31 10:01	23°MJ14'42	1°04'41
minimum elong	14070 Nov 16 00:05	8° ∡ ³39'36	1°22'09	minimum elong	14071 Oct 31 07:43	23°ML02'12	1°05'07
evening rise	14070 Nov 22 18:54	23° ∡ ³38'36		Č	14071 Nov 03 11:59	0° ≯ ¹	
8	14070 Nov 25 18:56	0°ප		evening rise	14071 Nov 07 05:55	8° ∡ 10'07	
desc. node	14070 Dec 08 21:00	23° る 29'29		evening rise	14071 Nov 18 10:13	0°ਰ	
desc. Hode	14070 Dec 08 21:00 14070 Dec 13 13:51	23 ⊙ 29 29		desc. node	14071 Nov 18 10.13	0 0 10°る55'42	
avanina may al			25910147				229/11/26
evening max el	14070 Dec 19 14:58	6°≈44'00	25°19'47	evening max el	14071 Dec 01 01:28	16° る 53'56	25 41 30
retrograde	14071 Jan 02 11:16	13° ≈ 41'33		retrograde	14071 Dec 14 12:54	23° る 36'03	
evening set	14071 Jan 08 06:50	12° ≈ 24'47		evening set	14071 Dec 19 04:23	22° る 49'07	
min. Earth dist.	14071 Jan 13 03:09	9° ≈ 44'08	0.56900 AU	min. Earth dist.	14071 Dec 25 12:16	19° පි 46'11	0.55346 AU
inferior conj	14071 Jan 15 21:41	7° ≈ 53'37		inferior conj	14071 Dec 27 07:13	18° る 42'39	
minimum elong	14071 Jan 16 06:31	7° ≈ 38'55	4°53'42	minimum elong	14071 Dec 27 11:46	18° ට 35'54	5°48'14
morning rise	14071 Jan 24 08:45	3° ≈ 41′21		morning rise	14072 Jan 04 20:55	14° る 48'32	
direct	14071 Jan 26 12:33	3° ≈ 27'40		direct	14072 Jan 07 12:40	14° ₹ 31′04	
asc. node	14071 Feb 02 04:10	5° ≈ 47'32		morning max el	14072 Jan 18 06:17	19° る 40'03	20°17'10
morning max el	14071 Feb 04 17:02	7° ≈ 55'28	19°06'43	asc. node	14072 Jan 20 01:29	21° පි 32'15	
	14071 Feb 18 21:54	0° ₩			14072 Jan 26 06:11	0° ≈	
morning set	14071 Feb 21 08:31	4°) 47'39		morning set	14072 Feb 05 14:48	19° ≈ 25'11	
<i>3</i>				<i>5</i>	14072 Feb 10 18:10	0°) €	
superior conj	14071 Mar 01 16:56	21°) 12'54	0°41'47			- /\	
minimum elong	14071 Mar 01 19:19	21° X 12'34		superior conj	14072 Feb 13 05:48	5°) €03'08	1°05'55
Clong	14071 Mar 06 09:09	21 γ (24 18	y 11 T1	minimum elong	14072 Feb 13 08:30	5°) 16'42	1°06'04
desc. node		0° Υ 59'33		max. Earth dist.	14072 Feb 13 08.30 14072 Feb 18 20:44	16° H 04'38	1.36546 AU
	14071 Mar 06 22:10		1 207/2 411				1.30340 AU
max. Earth dist.	14071 Mar 08 13:49	3°Y58'56	1.38763 AU	desc. node	14072 Feb 21 18:41	21°) 31'28	
evening rise	14071 Mar 12 08:24	10° Ƴ 37'06		evening rise	14072 Feb 22 15:42	23°) €07'29	
	14071 Mar 24 07:22	0°8			14072 Feb 26 12:42	0 ° Υ	

	14072 Mar 17 00:57	0° ႘		evening rise	14073 Feb 04 14:49	6° ¥ 16'35	
evening max el	14072 Mar 17 00.37	14° 8 18'55	25°49'55	desc. node	14073 Feb 04 14:49	11° X 55'36	
retrograde	14072 Apr 10 16:32	21° 8 31'46	25 49 55	desc. flode	14073 Feb 07 13:13	0° Υ	
evening set	14072 Apr 16 17:49	19° 8 02'27		evening max el	14073 Mar 11 17:15	28° Υ '03'27	26040121
asc. node	14072 Apr 16 17:49	19 8 02 27		evening max er		0° 8	20 46 31
	14072 Apr 16 22:01 14072 Apr 20 23:23	14° 8 29'25	0.67464 ATT		14073 Mar 13 19:52	5° 6 28'59	
min. Earth dist.	1	_	0.67464 AU	retrograde	14073 Mar 24 22:39		
inferior conj	14072 Apr 22 12:26	12° 8 32'19	1°39'38	evening set	14073 Mar 31 09:45	2° 8 56'54	
minimum elong	14072 Apr 22 10:25	12° 8 38'43	1°38'21		14073 Apr 03 11:44	30°₹ Υ	
morning rise	14072 Apr 28 03:38	6° 8 43'37		asc. node	14073 Apr 03 19:26	29° Ƴ 38'44	
direct	14072 May 01 11:59	5° 8 39'34		min. Earth dist.	14073 Apr 04 09:52	28° Y ′57'55	0.66103 AU
morning max el	14072 May 08 05:25	9° 8 17'18	18°50'43	inferior conj	14073 Apr 06 11:18	26° Ƴ 33'04	0°49'43
desc. node	14072 May 19 20:49	24° 8 37'51		minimum elong	14073 Apr 06 10:03	26° Y 36'45	0°48'52
greatest brilliancy	14072 May 21 22:44	27° 8 46'38	-0.8m	morning rise	14073 Apr 12 11:36	20° Y 55'53	
	14072 May 23 09:37	Π °0		direct	14073 Apr 15 09:49	20° Y ′08'44	
morning set	14072 May 30 15:30	11° Ⅱ 12'35		morning max el	14073 Apr 21 18:53	23° Y ′30′00	18°12'12
	14072 Jun 11 17:15	0° ©			14073 Apr 27 03:50	9° 8	
max. Earth dist.	14072 Jun 14 04:59	3° © 53'15	1.45679 AU	desc. node	14073 May 06 17:33	14° 8 38'50	
				morning set	14073 May 11 00:53	21° 8 33'07	
superior conj	14072 Jun 15 22:22	6° ॐ 35'12	-2°13'11		14073 May 16 07:36	$\Pi^{\circ}0$	
minimum elong	14072 Jun 15 20:37	6° 5 28'19	2°14'13				
	14072 Jun 30 16:13	$0^{\circ}\Omega$		superior conj	14073 May 26 06:37	15° Ⅱ 43'14	-1°58'26
evening rise	14072 Jul 01 03:42	0° Ω 46'17		minimum elong	14073 May 25 22:29	15° Ⅱ 11'24	1°58'52
asc. node	14072 Jul 13 20:37	20° Ω 54'10		max. Earth dist.	14073 May 28 00:56	18° Ⅱ 28'39	1.45853 AU
	14072 Jul 20 18:46	0° m)			14073 Jun 04 10:30	0ಂತಾ	
evening max el	14072 Jul 21 10:13	0° mp 39'34	18°29'40	evening rise	14073 Jun 11 08:13	10° © 43'48	
retrograde	14072 Jul 27 21:15	4° m) 07'58		greatest brilliancy	14073 Jun 22 16:47	28°9514'31	-0.7m
evening set	14072 Jul 31 00:28	3° mp 12'45		greatest orimaney	14073 Jun 23 20:52	0°Ω	0.7111
evening set	14072 Aug 03 17:37	30°RΩ		asc. node	14073 Jun 30 17:26	9° Ω 41'03	
inferior conj	14072 Aug 05 17:37 14072 Aug 05 18:16	27° Ω 38'56	2°34'55	evening max el	14073 Jul 04 20:03	14°Ω26'18	19°09'05
· ·		$27^{\circ}\Omega_{32'16}$	2°33'48	•	14073 Jul	18° Ω 15'30	19 09 03
minimum elong min. Earth dist.	14072 Aug 05 20:29	$25^{\circ}\Omega06'41$	0.65178 AU	retrograde	14073 Jul 11 17.39	18 δ (13 30 17° Ω 03'36	
	14072 Aug 07 21:05		0.03178 AU	evening set			2950144
morning rise	14072 Aug 11 15:17	21°Ω16'26		inferior conj	14073 Jul 20 16:58	11°Ω15'31	2°59'44
desc. node	14072 Aug 15 19:04	18° Ω 56'59		minimum elong	14073 Jul 20 18:23	11°Ω10'55	2°58'41
direct	14072 Aug 18 02:43	18° Ω 37'25		min. Earth dist.	14073 Jul 22 05:17	9° Ω 18'21	0.66813 AU
morning max el	14072 Aug 31 13:37	26° Ω 32'14	27°08'24	morning rise	14073 Jul 26 05:59	4° Ω 50'47	
	14072 Sep 03 18:58	0° m)		direct	14073 Aug 01 08:58	2° Ω 12'28	
	14072 Sep 24 21:15	0∘ ⊽		desc. node	14073 Aug 02 16:31	2° Ω 18'55	
morning set	14072 Oct 06 02:49	20° ≏ 13'17		morning max el	14073 Aug 14 00:38	9° Ω 45'29	26°01'38
asc. node	14072 Oct 09 22:33	27° ≏ 48'05			14073 Aug 30 00:36	0° m y	
max. Earth dist.	14072 Oct 10 10:45	28° ≏ 50'07	1.33435 AU		14073 Sep 17 10:16	0∘ ಹ	
	14072 Oct 11 00:25	0° M		morning set	14073 Sep 19 00:04	2° ≏ 52'55	
				max. Earth dist.	14073 Sep 22 18:01	9° ≙ 57'16	1.35247 AU
superior conj	14072 Oct 14 12:55	7° M 20'53	0°42'15	asc. node	14073 Sep 26 19:08	17° ≏ 55'27	
minimum elong	14072 Oct 14 10:58	7° M .10'34	0°42'26				
evening rise	14072 Oct 21 16:30	22°M38'22		superior conj	14073 Sep 28 08:15	21° ≏ 03'14	0°14'26
	14072 Oct 25 05:23	0° ∡ ¹		minimum elong	14073 Sep 28 07:26	20° ♀ 59'02	0°14'32
evening max el	14072 Nov 11 13:10	26° ∡ 755′10	22°00'00	behind sun begin	14073 Sep 28 04:48	20° ≏ 45'38	
desc. node	14072 Nov 11 15:20	27° ∡ ¹00'30		behind sun end	14073 Sep 28 10:04	21° ≏ 12'26	
	14072 Nov 15 04:50	0° ට			14073 Oct 02 16:16	0° M	
retrograde	14072 Nov 24 02:43	3° ჳ 08'35		evening rise	14073 Oct 06 00:43	6°M58'36	
evening set	14072 Nov 27 09:08	2° る 44'50		S	14073 Oct 18 12:23	0° ∡ ¹	
Ü	14072 Dec 04 00:03	30°R. ✓		evening max el	14073 Oct 24 11:14	7° ∡ ¹24'16	20°30'42
inferior conj	14072 Dec 06 01:44	28° ∡ 751'14	-5°52'00	desc. node	14073 Oct 29 12:40	11° ∡ 18′06	
minimum elong	14072 Dec 05 21:22	28° × 757'21	5°50'35	retrograde	14073 Nov 04 13:20	12° х 55′03	
min. Earth dist.	14072 Dec 05 18:29	29°×3721	0.54545 AU	evening set	14073 Nov 06 19:19	12° × 42'28	
morning rise	14072 Dec 14 10:33	25°×03'55	0.5 15 15 110	inferior conj	14073 Nov 15 17:50	8° √ 47'31	-4°54'28
direct	14072 Dec 17 23:03	24°×736'30		minimum elong	14073 Nov 15 07:54	9°×7'01'56	
anoct	14072 Dec 17 23:03 14072 Dec 29 16:20	24 x 30 30 0°る		min. Earth dist.	14073 Nov 17 00:53	8° × 01'30	0.54668 AU
morning max el	14072 Dec 29 16.20 14072 Dec 30 04:48		21°49'44	morning rise	14073 Nov 17 00.33 14073 Nov 23 20:10	8 x · 02 20 4° x ¹ 48'39	0.57000 AU
•	14072 Dec 30 04:48 14073 Jan 05 22:44	8° る 30'36	∠1 7 744	direct		4° x '48'39 4° x '05'21	
asc. node					14073 Nov 28 07:55		22027104
	14073 Jan 18 00:55	0°≈ 4°≈ ≈00!31		morning max el	14073 Dec 11 16:32	10° ₹ 36'30	23 3/04
morning set	14073 Jan 20 00:53	4° ≈ 09'31		asc. node	14073 Dec 23 19:54	26° ₹ 26'06	
	14072 1 27 24 1	100: -15:45	1022107		14073 Dec 25 22:13	0°る	
superior conj	14073 Jan 27 04:17	19° ≈ 17'47	1°23'07	morning set	14074 Jan 04 12:40	18°る54'55	
minimum elong	14073 Jan 27 06:30	19° ≈ 29'22	1°23'39		14074 Jan 09 15:19	0° ≈	
max. Earth dist.	14073 Jan 31 08:54	27°≈56'01	1.34576 AU		140=4 × 1:	20 1	1000:10
	14073 Feb 01 09:39	0°) €		superior conj	14074 Jan 11 09:22	3° ≈ 48′28	1°33'40

minimum elong	14074 Jan 11 10:40	3°≈55'27	1°34'32	morning set	14074 Dec 20 00:22	3° ට 36'19	
max. Earth dist.	14074 Jan 14 04:51	9°≈50'16	1.32994 AU	morning set	140/4 Dec 20 00.22	3 03019	
evening rise	14074 Jan 19 02:17	19°≈55'23	1.52)) 1110	superior conj	14074 Dec 26 18:37	18° る 28'15	1°37'55
<i>y</i>	14074 Jan 24 08:04	0°)		minimum elong	14074 Dec 26 18:49	18° る 29'24	1°38'58
desc. node	14074 Jan 25 11:54	2°) €07'20		max. Earth dist.	14074 Dec 28 07:50	21° る 53'24	1.31875 AU
	14074 Feb 12 06:59	0° Y			14075 Jan 01 01:53	0° ≈	
evening max el	14074 Feb 22 06:31	11° Y 29'53	27°25'11	evening rise	14075 Jan 02 23:00	3° ≈ 56′22	
retrograde	14074 Mar 07 22:15	18° Y 57'49		desc. node	14075 Jan 12 08:38	22° ≈ 01'04	
evening set	14074 Mar 14 16:38	16° Y 29'03			14075 Jan 17 01:35	0°) {	
min. Earth dist.	14074 Mar 18 12:38	13° Y 01'38 10° Y 18'41	0.64373 AU	evening max el	14075 Feb 04 17:08	24°) €25'16 0° °	27°33'14
inferior conj minimum elong	14074 Mar 21 01:53 14074 Mar 21 02:15	10° Y 1841 10° Y 17'43	0°12'00	retrograde	14075 Feb 12 02:16 14075 Feb 18 14:26	0° γ 1° Υ 49'00	
transit middle	14074 Mar 21 02:15	10° \bullet 17'43	0°12'00	retrograde	14075 Feb 24 17:20	30° R ₩	
transit begin	14074 Mar 21 00:13	10° Υ 23'10	0 12 00	evening set	14075 Feb 25 11:55	29° ¥ 30'49	
transit end	14074 Mar 21 04:18	10° Υ 12'15		min. Earth dist.	14075 Mar 01 06:00	26° ¥ 30′08	0.62349 AU
asc. node	14074 Mar 21 16:55	9° Ƴ 38'48		inferior conj	14075 Mar 04 05:09	23° ¥ 41′28	-1°25'28
morning rise	14074 Mar 27 13:54	4° Υ 55'31		minimum elong	14075 Mar 04 08:04	23°) 34'31	1°24'03
direct	14074 Mar 30 03:17	4° Υ 22'04		asc. node	14075 Mar 08 14:24	19° ¥ 58′25	
morning max el	14074 Apr 05 11:55	7° Ƴ 38'47	17°50'49	morning rise	14075 Mar 11 07:02	18°) 35′14	
	14074 Apr 20 15:49	0°8		direct	14075 Mar 13 13:09	18° ¥ 12'04	
morning set	14074 Apr 22 14:21	3° 8 15'11		morning max el	14075 Mar 20 05:33	21° ¥ 35′20	17°47'02
desc. node	14074 Apr 23 14:13	4° 8 55'15			14075 Mar 26 16:36	0°Υ ••••••	
	1407434 06 01 56	250 42012	1007104	morning set	14075 Apr 05 03:29	16° Y ′04'25	
superior conj	14074 May 06 01:56 14074 May 05 17:30	25° 8 26'22 24° 8 52'34		desc. node	14075 Apr 10 10:48	25° Y 22'15 0° と	
minimum elong	14074 May 03 17.30 14074 May 08 22:32	24 O 32 34 0° I	1 2/13		14075 Apr 13 03:15	0.0	
max. Earth dist.	14074 May 10 21:00	3° Ⅱ 03'44	1.45282 AU	superior conj	14075 Apr 16 19:25	6° 8 13'09	-0°48'41
evening rise	14074 May 21 21:16	20° I 109'02	1.43202710	minimum elong	14075 Apr 16 14:42	5° 8 53'23	0°48'30
	14074 May 28 08:49	0ංම 		max. Earth dist.	14075 Apr 23 14:14	17° 8 21'04	1.44027 AU
greatest brilliancy	14074 Jun 05 19:44	12° © 32'10	-0.6m	evening rise	14075 May 01 10:28	29° 8 43'00	
asc. node	14074 Jun 17 14:23	27° 9 50'01		_	14075 May 01 14:52	$\Pi^{\circ}0$	
evening max el	14074 Jun 18 00:26	28°515'36	20°04'10		14075 May 22 01:06	0 \circ	
	14074 Jun 19 21:53	0 $^{\circ}\Omega$		evening max el	14075 May 31 22:54	12° © 05'35	21°12'24
retrograde	14074 Jun 25 16:19	2° Ω 37'24		asc. node	14075 Jun 04 11:26	15° © 09'07	
evening set	14074 Jun 29 14:38	1° Ω 08′21		retrograde	14075 Jun 09 15:12	17°508'44	
: <i>£</i> :	14074 Jun 30 21:53	30°R≌	3°10'39	evening set	14075 Jun 13 23:59	15° © 22'57 9° © 10'25	2000127
inferior conj minimum elong	14074 Jul 04 21:36 14074 Jul 04 22:01	25° © 07'15 25° © 05'49	3°10'39 3°09'37	inferior conj minimum elong	14075 Jun 19 05:49 14075 Jun 19 05:15	9° © 10'23	3°09'36 3°08'29
min. Earth dist.	14074 Jul 05 19:40		0.68010 AU	min. Earth dist.	14075 Jun 19 14:18	8°9540'51	
morning rise	14074 Jul 10 05:04	18°944'32	0.00010710	morning rise	14075 Jun 24 10:18	2°952'21	0.00757710
direct	14074 Jul 15 21:01	16° © 15'10		direct	14075 Jun 29 13:53	0° © 37'55	
desc. node	14074 Jul 20 13:54	17° © 38'06		desc. node	14075 Jul 07 11:11	4° © 28'37	
morning max el	14074 Jul 27 11:10	23° © 11'45	24°38'39	morning max el	14075 Jul 09 22:07	6° © 46'45	23°09'09
	14074 Aug 02 11:36	0 $^{\circ}\Omega$			14075 Jul 27 23:03	$0^{\circ}\Omega$	
	14074 Aug 23 08:56	0° m		morning set	14075 Aug 13 10:01	25° Ω 38'45	
morning set	14074 Sep 01 03:57	14° m 44'43			14075 Aug 16 00:14	0° m	
max. Earth dist.	14074 Sep 04 17:59	21° Mp 08'33	1.37442 AU	max. Earth dist.	14075 Aug 17 16:13	2° m 50'59	1.39806 AU
	14074 Sep 09 12:12	0∘ ⊽		superior conj	14075 Aug 25 10:34	16° m 40'54	0°52'00
superior conj	14074 Sep 11 16:46	4° £ 12'47	-0°17'59	minimum elong	14075 Aug 25 10:34 14075 Aug 25 14:32	16° m 59'08	0°52'50
minimum elong	14074 Sep 11 10:40	4° £ 1247		asc. node	14075 Aug 23 14:32 14075 Aug 31 12:15	28° m) 05'33	0 32 30
asc. node	14074 Sep 13 15:41	8° ഫ 02'21	0 17 17	use. Houe	14075 Sep 01 12:09	0ಂ ರ	
evening rise	14074 Sep 20 04:08	21° ♀ 03'46		evening rise	14075 Sep 03 23:50	4° ≏ 46'41	
Č	14074 Sep 24 17:19	0° M .		C	14075 Sep 19 07:46	0° M	
evening max el	14074 Oct 06 23:30	18° M 39'49	19°21'52	evening max el	14075 Sep 20 00:18	0°M42'55	18°35'03
retrograde	14074 Oct 16 10:10	23°M23'39		retrograde	14075 Sep 28 01:01	4° M 46'09	
desc. node	14074 Oct 16 10:06	23°M23'39		evening set	14075 Sep 29 23:47	4° M 32'36	
evening set	14074 Oct 18 07:02	23°M13'20		desc. node	14075 Oct 03 07:35	3°M₁3'15	
inferior conj	14074 Oct 26 21:48	19° M ₊04'54		inferior conj	14075 Oct 07 22:08	0° ™ 04'37	
minimum elong	14074 Oct 26 13:34	19°M18'23	3°12'14	minimum elong	14075 Oct 07 18:36	0°M11'22	1°26'08
min. Earth dist.	14074 Oct 29 10:39	17°M25'37	0.55690 AU	min Deed 11:	14075 Oct 08 00:33	30° ₹ Ω	0.57424 411
morning rise direct	14074 Nov 03 17:50 14074 Nov 09 02:07	14°M35'47 13°M31'06		min. Earth dist. morning rise	14075 Oct 11 02:37 14075 Oct 15 09:56	27° ♀ 39'25 24° ♀ 57'46	0.57434 AU
morning max el	14074 Nov 09 02:07 14074 Nov 23 02:23	20°M34'42	25°23'41	direct	14075 Oct 13 09:38 14075 Oct 21 10:48	24 ≥ 3740 23° ♀ 26'34	
morning must of	14074 Dec 01 04:44	20 11 6 34 42	20 20 71	311000	14075 Nov 03 17:36	0°M₁	
asc. node	14074 Dec 10 16:57	15° ∡ 104′29		morning max el	14075 Nov 04 17:37		26°50'40
	14074 Dec 18 07:41	0°ਰ		Ç	14075 Nov 25 07:21	0° ⊼ ¹	

	14075 N 27 12 54	40 71 410 5			14076 G 25 21 16	60 0 10140	
asc. node	14075 Nov 27 13:54	4° ₹ 14'25		morning rise	14076 Sep 25 21:16	6° £ 10'48	
morning set	14075 Dec 04 10:10	18°ダ08'26 0°る		direct	14076 Oct 02 09:09	4° £ 12'28 12° £ 00'58	27944102
	14075 Dec 09 19:46	0°0		morning max el	14076 Oct 16 16:30	0°M	2/*44'03
	14075 Dec 11 05:53	20710127	1927/00		14076 Oct 30 20:33	23°M47'14	
superior conj		3°る10'37 3°る05'56	1°36'09 1°37'11	asc. node	14076 Nov 13 10:44	23°11L4/14	
minimum elong max. Earth dist.	14075 Dec 11 05:03	3° ろ 03'36 4° ろ 01'44	1.31260 AU	marning sat	14076 Nov 16 12:17	0° x ¹ 2° x ¹26'37	
	14075 Dec 11 15:02	18° る 12'41	1.31260 AU	morning set max. Earth dist.	14076 Nov 17 16:19	16° × 108'15	1 21172 AII
evening rise	14075 Dec 18 02:22 14075 Dec 23 21:42	18 ⊘ 1241 0° ≈		max. Earth dist.	14076 Nov 23 23:05	10 × 08 13	1.31172 AU
desc. node	14075 Dec 30 05:27	0 ∞ 11°≈28'54		superior conj	14076 Nov 24 17:20	17° ∡ 50'03	1°28'31
desc. node	14076 Jan 11 20:48	0°)		minimum elong	14076 Nov 24 17:20 14076 Nov 24 15:39	17 x 30 03	1°29'22
evening max el	14076 Jan 17 22:35	6° ¥ 36'58	27°07'48	minimum ciong	14076 Nov 24 13:39 14076 Nov 30 04:54	0°る	1 29 22
retrograde	14076 Jan 31 22:11	13° ¥ 52′22	27 0746	evening rise	14076 Nov 30 04:34 14076 Dec 01 10:14	2°る39'00	
evening set	14076 Feb 07 16:21	13 X 52 22		evening rise	14076 Dec 01 10:14	2 3 3900 0° ≈	
min. Earth dist.	14076 Feb 11 13:00	9° H 10'26	0.60164 AU	desc. node	14076 Dec 15 21:07 14076 Dec 16 02:22	0 ∞ 0°≈20'52	
inferior conj	14076 Feb 14 17:30	6°) 31′24		evening max el	14076 Dec 10 02:22 14076 Dec 29 20:40	0 ≈20 32 17°≈57'32	26°07'58
minimum elong	14076 Feb 14 23:38	6°) 18'37		retrograde	14070 Dec 29 20:40 14077 Jan 12 19:30	25°≈01'51	20 07 38
morning rise	14076 Feb 22 10:11	1°\ 44'51	2 43 10	evening set	14077 Jan 19 01:59	23°≈28'28	
asc. node	14076 Feb 23 11:53	1°)(32'11		min. Earth dist.	14077 Jan 23 09:57	20°≈51'35	0.58017 AU
direct	14076 Feb 24 11:28	1°) 28′21		inferior conj	14077 Jan 26 11:23	18° ≈ 39'07	
morning max el	14076 Mar 02 20:16	5° ¥ 08'58	18°01'43	minimum elong	14077 Jan 26 20:05	18°≈23'23	4°09'18
morning set	14076 Mar 18 10:00	29°) 41'09	10 01 43	morning rise	14077 Feb 03 17:09	14°≈13'58	4 07 10
morning set	14076 Mar 18 14:05	29 γ (41 09		direct	14077 Feb 05 17:58	14°≈00'24	
desc. node	14076 Mar 27 07:19	15° Υ 55'00		asc. node	14077 Feb 09 09:18	14°≈46'18	
desc. Hode	140/0 Wiai 2/ 0/.19	13 33 00		morning max el	14077 Feb 14 04:11	18°≈08'39	18°36'36
superior conj	14076 Mar 28 12:38	18° Ƴ 04'56	0000148	morning max ci	14077 Feb 14 04:11 14077 Feb 22 17:44	0° ∺	18 30 30
minimum elong	14076 Mar 28 11:48			morning set	14077 Mar 02 04:45	13° ¥ 50′21	
behind sun begin	14076 Mar 28 05:32	17° Υ 33'36	0 09 32	morning set	14077 Mar 10 15:07	13 γ (3021 0° γ	
behind sun end	14076 Mar 28 18:04	17 γ 33 30			140// Widi 10 13.0/	0 1	
ocimia sun cha	14076 Apr 04 11:09	0° 8		superior conj	14077 Mar 11 02:19	0° Y ′52'18	0°24'45
max. Earth dist.	14076 Apr 05 02:33	1° 8 04'10	1.42224 AU	minimum elong	14077 Mar 11 02:19	0° Υ 59'58	0°24'34
evening rise	14076 Apr 10 13:40	9° 8 58'07	1.42224 AU	desc. node	14077 Mar 11 03:38	6° Υ 30'10	0 24 34
evening rise	14076 Apr 23 16:23	9 Ο 38 07		max. Earth dist.	14077 Mar 14 03:49	14° Υ 06'43	1.40076 AU
evening max el	14076 May 13 16:21	25° I I56'02	22020156	evening rise	14077 Mar 18 10:37	21° Υ '08'28	1.40070 AU
evening max er	14076 May 13 16.21 14076 May 18 12:55	23 H3602 0° 9	22 29 30	evening rise	14077 Mar 22 13.32 14077 Mar 27 23:55	0°8	
asc. node	14076 May 21 08:36	1° 9 522'15			14077 Apr 17 18:35	0°II	
retrograde	14076 May 23 12:33	1°543'26		evening max el	14077 Apr 17 18:55	9° Ⅱ 48'23	23°51'08
retrograde	14076 May 27 23:45	1 343 20 30°R∏		retrograde	14077 Apr 20 00:55	16° Ⅱ 16'01	23 31 08
evening set	14076 May 28 08:26	29° ∏ 42'12		asc. node	14077 May 07 00:50	16° Ⅱ 10'01	
inferior conj	14076 Jun 02 15:28	23° II 20'23	2°57'47	evening set	14077 May 12 14:24	10 Ⅱ 11 37 14° Ⅱ 01'21	
minimum elong	14076 Jun 02 14:04	23° II 25'16	2°56'33	min. Earth dist.	14077 May 12 14:24 14077 May 17 07:30	8° П 31'46	0.68754 AU
min. Earth dist.	14076 Jun 02 10:59	23° I I36'01	0.68982 AU	inferior conj	14077 May 17 07:30	7° П 33'12	2°35'41
morning rise	14076 Jun 07 19:33	17° Ⅱ 08'48	0.08982 AU	minimum elong	14077 May 17 00:40	7° П 39'56	2°34'19
direct	14076 Jun 12 10:29	17 П 0848		morning rise	14077 May 17 22:42 14077 May 23 06:58	1° Ⅱ 29'29	2 3419
morning max el	14076 Jun 21 11:59	20° I I29'49	21°42'06	morning risc	14077 May 25 00:38	30°R 8	
desc. node	14076 Jun 23 08:19	20 H2949 22°H26'28	21 42 00	direct	14077 May 27 09:31	29° 8 54'07	
desc. node	14076 Jun 29 13:03	0°95		direct	14077 May 27 09:51 14077 May 28 10:58	0°Ⅱ	
	14076 Jul 29 13:03	0°€ 0 €		morning max el	14077 Jun 04 07:45	0 <u>П</u> 4° П 23'14	20024122
morning set	14076 Jul 23 15:22	5° Ω 28'27		desc. node	14077 Jun 10 05:20	11° Ⅱ 13'30	20 24 22
max. Earth dist.	14076 Jul 29 18:28	15° Ω 23'49	1.42062 AU	desc. Hode	14077 Jun 23 11:44	0°95	
max. Earth dist.	140/0 Jul 29 16.26	13 662349	1.42002 AU	morning set	14077 Jul	14° © 24'12	
superior conj	14076 Aug 06 09:19	28° Ω 18'23	1027147	max. Earth dist.	14077 Jul 12 03:44	28°9549'31	1.43946 AU
minimum elong	14076 Aug 06 05:19	28° Ω 47'15		max. Earth dist.	14077 Jul 12 03.44 14077 Jul 12 21:18	28 3 4931	1.43940 AU
minimum ciong	14076 Aug 00 13.37	0° Mp	1 2/33		140// Jul 12 21.16	0 82	
avanina rica	- C			gumariar aoni	14077 Iul. 19 00:00	00 0 5 6 5 6	1956124
evening rise asc. node	14076 Aug 17 08:04	17° Mp 58'00		superior conj	14077 Jul 18 09:09 14077 Jul 18 16:15	8° Ω 56'56 9° Ω 26'13	
asc. node	14076 Aug 17 08:50	18° Mp 01'33		minimum elong			1 30 33
avaning may al	14076 Aug 24 00:32 14076 Sep 02 09:39	0° ჲ 13° ჲ 25'37	18000100	avaning rise	14077 Jul 30 18:12 14077 Jul 31 00:02	0° Mp 0° Mp 25'20	
evening max el	14076 Sep 02 09:39 14076 Sep 09 10:25	13° ± 25'3 / 17° £ 00'51	18°09'08	evening rise asc. node		7° Mp 45'39	
retrograde	•				14077 Aug 04 05:27		10003140
evening set	14076 Sep 11 15:57	16° Ω 39'40	0007100	evening max el	14077 Aug 16 23:21	26° Mp 37'04	18°02'40
inferior conj	14076 Sep 18 20:03	11° Ω 50'56	0°07'00	retrograde	14077 Aug 23 10:58	29° M 58'38	
minimum elong	14076 Sep 18 20:17	11° Ω 50'25	0°07'01	evening set	14077 Aug 26 00:41	29° Mp 26'11	1020140
transit middle	14076 Sep 18 20:17	11° Ω 50'25	0°07'01	inferior conj	14077 Sep 01 12:38	24° TD 18'04	1°20'48
transit begin	14076 Sep 18 17:14	11° Ω 57'11		minimum elong	14077 Sep 01 14:43	24° Mp 12'43	1°19'53
transit end	14076 Sep 18 23:20	11° Ω 43'37		min. Earth dist.	14077 Sep 04 11:44	21° m) 18'04	0.61909 AU
desc. node	14076 Sep 19 05:04	11° Ω 30'48	0.50511 :==	desc. node	14077 Sep 06 02:35	19° m 48'09	
min. Earth dist.	14076 Sep 22 02:36	8° ≏ 57'28	0.59611 AU	morning rise	14077 Sep 08 02:16	18° m 14'03	

direct	14077 Sep 14 18:31	15° m 53'29		min. Earth dist.	14078 Aug 18 06:38	4° mb 31'53	0.64069 AU
morning max el	14077 Sep 28 21:59	23° m 52'11	27°58'28	morning rise	14078 Aug 21 22:32	1° Mp 00'25	0.0.009110
morning man er	14077 Oct 04 10:34	0∘ ⊽	2, 2020	morning rise	14078 Aug 23 08:54	30°R Ω	
	14077 Oct 24 04:44	0°M		desc. node	14078 Aug 24 00:05	29° Ω 38'00	
asc. node	14077 Oct 31 07:29	13°MJ35'47		direct	14078 Aug 28 13:01	28° Ω 25'43	
morning set	14077 Nov 01 16:44	16°M25'07			14078 Sep 03 04:10	0°m	
max. Earth dist.	14077 Nov 07 04:13	28°M03'18	1.31627 AU	morning max el	14078 Sep 11 07:46	6° m/25'06	27°35'48
	14077 Nov 08 01:32	0° ∡ ¹		Č	14078 Sep 29 09:05	0∘ <u>⊽</u>	
				morning set	14078 Oct 16 09:05	29° £ 58'57	
superior conj	14077 Nov 09 03:04	2° ҂ 20′29	1°15'04	•	14078 Oct 16 09:17	0° M	
minimum elong	14077 Nov 09 00:51	2° ∡ 108'17	1°15'38	asc. node	14078 Oct 18 04:10	3°M235'10	
evening rise	14077 Nov 15 20:36	17° ∡ ¹09'31		max. Earth dist.	14078 Oct 21 02:50	9° 11 L40'08	1.32627 AU
-	14077 Nov 22 02:01	5°0					
desc. node	14077 Dec 02 23:23	18° ට 22'46		superior conj	14078 Oct 24 09:06	16°MJ36'59	0°55'51
evening max el	14077 Dec 11 10:31	28° る 27'45	24°39'43	minimum elong	14078 Oct 24 06:52	16°ML24'57	0°56'09
	14077 Dec 13 03:23	0° ≈			14078 Oct 30 13:04	0° ∡ 7	
retrograde	14077 Dec 25 04:01	5° ≈ 18'54		evening rise	14078 Oct 31 07:41	1° ₰ 740'04	
evening set	14077 Dec 30 12:51	4° ≈ 15'18			14078 Nov 15 18:39	0°ರ	
min. Earth dist.	14078 Jan 04 22:20	1° ≈ 27'32	0.56165 AU	desc. node	14078 Nov 19 20:32	5° ප 16'40	
inferior conj	14078 Jan 07 08:24	29° ප 56'14	-5°23'55	evening max el	14078 Nov 22 20:13	8° පි 28'11	22°57'37
minimum elong	14078 Jan 07 16:12	29° る 43'57	5°21'31	retrograde	14078 Dec 05 23:44	14° る 59'48	
	14078 Jan 07 06:01	30°₹ ⋜		evening set	14078 Dec 10 01:24	14° ට 23'47	
morning rise	14078 Jan 15 21:37	25° る 52'09		min. Earth dist.	14078 Dec 17 05:21	11° る 05'52	0.54902 AU
direct	14078 Jan 18 05:27	25° る 37'24		inferior conj	14078 Dec 18 10:17	10° る 24'33	
asc. node	14078 Jan 27 06:39	29° る 39'11		minimum elong	14078 Dec 18 11:16	10° る 23'09	5°56'54
	14078 Jan 27 15:46	0° ≈		morning rise	14078 Dec 26 22:35	6° る 35'33	
morning max el	14078 Jan 28 01:06	0° ≈ 22'10	19°33'49	direct	14078 Dec 29 22:36	6° ට 14'34	
morning set	14078 Feb 14 07:44	28° ≈ 20′02		morning max el	14079 Jan 10 07:54		20°54'14
	14078 Feb 15 03:36	0° ∀		asc. node	14079 Jan 14 03:57	15° පි 56'37	
					14079 Jan 23 02:21	0° ≈	
superior conj	14078 Feb 22 07:56	14°) €22'36	0°52'53	morning set	14079 Jan 29 15:54	13° ≈ 00'57	
minimum elong	14078 Feb 22 10:34	14°) ₹35'32	0°52'51				
max. Earth dist.	14078 Feb 28 17:07	26°) 31′03	1.37808 AU	superior conj	14079 Feb 06 01:17	28° ≈ 23'55	1°14'03
desc. node	14078 Mar 01 00:20	27°) €04'08		minimum elong	14079 Feb 06 03:51	28°≈37'04	1°14'22
	14078 Mar 02 15:05	0° Υ			14079 Feb 06 20:04	0°) {	
evening rise	14078 Mar 04 10:06	3° Y 11'36		max. Earth dist.	14079 Feb 11 02:01	8°) €28'54	1.35663 AU
	14078 Mar 21 02:16	0°8		evening rise	14079 Feb 15 00:30	15° ¥ 58'47	
evening max el	14078 Apr 08 20:32	23° 8 42'10	25°09'14	desc. node	14079 Feb 15 20:52	17° ¥ 32'51	
. 1	14078 Apr 17 12:24	0°II			14079 Feb 22 23:06	0° Υ	
retrograde	14078 Apr 20 21:15	0° Ⅱ 41'09			14079 Mar 15 14:22	0°8	26017102
1	14078 Apr 24 00:28	30°R 8		evening max el	14079 Mar 22 10:08	7° 8 31'45	26°1/03
asc. node	14078 Apr 25 03:09	29° 8 24'25		retrograde	14079 Apr 04 06:38	14° 8 51'08	
evening set	14078 Apr 26 16:20	28° 8 15'59 23° 8 22'44	0.68065 AU	evening set asc. node	14079 Apr 10 12:29	12° 8 19'43	
min. Earth dist. inferior conj	14078 May 01 01:44 14078 May 02 07:31	23 8 22 44 21° 8 45'22	2°03'14	min. Earth dist.	14079 Apr 12 00:32 14079 Apr 14 15:31	8° 8 01'45	0.66936 AU
minimum elong	14078 May 02 07:31 14078 May 02 05:22		2°01'52	inferior conj	14079 Apr 14 13:31 14079 Apr 16 09:57	5° 8 51'39	1°19'55
morning rise	14078 May 07 18:43	15° 8 50'54	2 01 32	minimum elong	14079 Apr 16 08:10	5° 8 57'09	1°18'46
direct	14078 May 11 09:31	14° 8 35'47		morning rise	14079 Apr 22 04:43	0° 8 07'54	1 10 40
morning max el	14078 May 18 11:06	18° 8 28'10	19°20'25	morning rise	14079 Apr 22 10:15	30° R Υ	
morning man er	14078 May 27 15:57	0° I	1, 2020	direct	14079 Apr 25 08:39	29° Υ 11'22	
desc. node	14078 May 28 02:15	0° I I36'50		unior	14079 Apr 28 09:14	0°8	
greatest brilliancy	14078 May 31 04:13	5° Ⅱ 06'27	-0.7m	morning max el	14079 May 01 21:29	2° 8 40'15	18°32'21
morning set	14078 Jun 12 02:12	23° I I1'17		desc. node	14079 May 14 23:04	20° 8 26'09	
3	14078 Jun 16 12:08	0°ಅ			14079 May 21 01:55	0°II	
max. Earth dist.	14078 Jun 24 19:21	12°956'43	1.45250 AU	morning set	14079 May 22 20:24	2° Ⅱ 46'58	
				, and the second	,		
superior conj	14078 Jun 28 09:57	18° © 38'50	-2°12'28	superior conj	14079 Jun 07 19:40	27° Ⅱ 46'45	-2°09'20
minimum elong	14078 Jun 28 12:39	18°5549'34		minimum elong	14079 Jun 07 14:40	27° Ⅱ 27'12	
S	14078 Jul 05 11:43	0°N		max. Earth dist.	14079 Jun 07 14:35	27° II 26'53	1.45849 AU
evening rise	14078 Jul 12 18:40	11° Ω 57'18			14079 Jun 09 05:49	0ಂಣ	
asc. node	14078 Jul 22 02:09	27° Ω 13′06		evening rise	14079 Jun 23 12:39	22°527'02	
	14078 Jul 23 20:51	0° m			14079 Jun 28 07:05	$0^{\circ}\Omega$	
evening max el	14078 Jul 31 13:46	10°M 08'11	18°14'39	greatest brilliancy	14079 Jul 01 19:52	5° Ω 33'27	-0.8m
retrograde	14078 Aug 06 22:22	13° m 30'18		asc. node	14079 Jul 08 22:55	16° Ω 16′52	
evening set	14078 Aug 09 20:34	12°M/43'53		evening max el	14079 Jul 15 01:53	23° Ω 50′27	18°44'18
inferior conj	14078 Aug 15 19:55	7° m 18'35	2°13'16	retrograde	14079 Jul 21 16:29	27° Ω 26′25	
minimum elong	14078 Aug 15 22:21	7° m 11'37	2°12'08	evening set	14079 Jul 24 23:33	26° Ω 24'13	

inferior conj	14079 Jul 30 13:57	20° Ω 43'53	2047!18	minimum elong	14080 Jul 13 16:32	4° Ω 24'24	3°04'53
minimum elong	14079 Jul 30 15:53	$20^{\circ} \Omega 37'53$	2°46'12	min. Earth dist.	14080 Jul 13 10.32	$2^{\circ}\Omega47'43$	0.67381 AU
min. Earth dist.		$18^{\circ}\Omega 25'29$	0.65925 AU	iiiii. Eartii dist.	14080 Jul 17 03:58	2 8 C 4 / 43	0.07381 AU
	14079 Aug 01 10:32		0.03923 AU				
morning rise	14079 Aug 05 07:17	14° Ω 19'32		morning rise	14080 Jul 19 01:52	28°903'08	
desc. node	14079 Aug 10 21:35	11° Ω 42'00		direct	14080 Jul 25 00:20	25°527'35	
direct	14079 Aug 11 15:20	11° Ω 39'59	0.00.4010.0	desc. node	14080 Jul 27 19:02	25°\$56'36	
morning max el	14079 Aug 24 19:10	19° Ω 27'39	26°42'33		14080 Aug 03 06:47	0°€	
	14079 Sep 02 18:52	0° m)		morning max el	14080 Aug 06 06:04	2° Ω 47'39	25°27'35
_	14079 Sep 22 10:21	0∘ ⊽			14080 Aug 26 22:54	0° m	
morning set	14079 Sep 29 14:21	13° ≙ 00'53		morning set	14080 Sep 11 04:48	25° m/21'40	
max. Earth dist.	14079 Oct 03 15:57	20° ≙ 55'46	1.34150 AU		14080 Sep 13 17:35	0∘ ⊽	
asc. node	14079 Oct 05 00:47	23° ≏ 40'38		max. Earth dist.	14080 Sep 14 19:14	1° ≏ 59'47	1.36141 AU
				asc. node	14080 Sep 20 21:21	13° ≏ 48'00	
superior conj	14079 Oct 08 09:07	0°M₃33'28	0°31'03			_	
minimum elong	14079 Oct 08 07:32	0°M25′15	0°31'12	superior conj	14080 Sep 21 00:17	14° ≙ 02'41	0°01'09
	14079 Oct 08 02:41	0° M ₊		minimum elong	14080 Sep 21 00:12	14° ≏ 02'17	0°01'17
evening rise	14079 Oct 15 17:33	16°ML05'24		behind sun begin	14080 Sep 20 17:55	13° ≏ 30'54	
	14079 Oct 22 15:57	0° ⊼		behind sun end	14080 Sep 21 06:30	14° ≏ 33'43	
evening max el	14079 Nov 04 11:16	18° ∡ ³36′50	21°19'47		14080 Sep 28 20:11	0° M	
desc. node	14079 Nov 06 17:48	20° ∡ ³39′07		evening rise	14080 Sep 29 00:02	0° ™ 19'42	
retrograde	14079 Nov 16 11:17	24° ∡ ³34'14		evening max el	14080 Oct 16 15:21	29° M 24'47	19°58'47
evening set	14079 Nov 19 05:23	24° ∡ 16'40			14080 Oct 17 05:53	0° ∡ ¹	
inferior conj	14079 Nov 28 01:59	20° х 23′46	-5°34'27	desc. node	14080 Oct 23 15:10	4° ∡ °02'52	
minimum elong	14079 Nov 27 18:23	20° х 34′28	5°32'12	retrograde	14080 Oct 27 00:46	4° ∡ ³35′23	
min. Earth dist.	14079 Nov 28 11:15	20° х¹ 10'43	0.54473 AU	evening set	14080 Oct 29 00:51	4° ≯ 24'44	
morning rise	14079 Dec 06 07:59	16° ₺ 734'08		inferior conj	14080 Nov 06 21:40	0° ∡ ¹25'36	-4°15'49
direct	14079 Dec 10 06:10	16° ∡ ¹00'54		minimum elong	14080 Nov 06 11:43	0° ∡ ¹40'41	4°11'55
morning max el	14079 Dec 23 01:11	22° ∡ 10'42	22°34'31		14080 Nov 07 14:29	30°RM₊	
	14079 Dec 29 17:53	0°ප		min. Earth dist.	14080 Nov 08 19:08	29° ™ 16'40	0.54993 AU
asc. node	14080 Jan 01 01:11	3° る 21'15		morning rise	14080 Nov 14 21:19	26°M₁5'16	
morning set	14080 Jan 14 02:57	27° る 46'36		direct	14080 Nov 19 18:11	25°M23'24	
	14080 Jan 15 04:02	0°≈			14080 Nov 30 23:22	0° ∡ ¹	
				morning max el	14080 Dec 03 11:02	2° ∡ 10′07	24°23'39
superior conj	14080 Jan 21 02:57	12° ≈ 46'47	1°28'23	asc. node	14080 Dec 17 22:19	21° ∡ ³36′29	
minimum elong	14080 Jan 21 04:48	12° ≈ 56'38	1°29'05		14080 Dec 22 12:28	0°ප	
max. Earth dist.	14080 Jan 24 17:15	20° ≈ 19'30	1.33839 AU	morning set	14080 Dec 28 14:53	12° る 30'32	
evening rise	14080 Jan 29 05:17	29° ≈ 21'34					
	14080 Jan 29 13:11	0° ₩		superior conj	14081 Jan 04 10:04	27° る 22'05	1°36'13
desc. node	14080 Feb 02 17:29	7° ¥ 52′23		minimum elong	14081 Jan 04 10:54	27° る 26'40	1°37'11
	14080 Feb 16 02:17	0 ° Υ		-	14081 Jan 05 15:02	0° ≈	
evening max el	14080 Mar 03 23:40	21° Y ′09'21	27°07'11	max. Earth dist.	14081 Jan 06 16:09	2°≈15'54	1.32452 AU
retrograde	14080 Mar 17 10:16	28° Ƴ 37'50		evening rise	14081 Jan 11 21:01	13° ≈ 10'38	
evening set	14080 Mar 24 00:54	26° Ƴ 05'59		desc. node	14081 Jan 19 14:08	27° ≈ 56'58	
min. Earth dist.	14080 Mar 27 22:55	22° Y 21'03	0.65406 AU		14081 Jan 20 17:45	0° ₩	
asc. node	14080 Mar 28 21:58	21° Y 16'40			14081 Feb 10 07:13	$0^{\circ}\mathbf{\Upsilon}$	
inferior conj	14080 Mar 30 05:38	19° Ƴ 46'47	0°25'02	evening max el	14081 Feb 14 12:02	4° Y 23'45	27°32'32
minimum elong	14080 Mar 30 04:57	19° Ƴ 48'43	0°24'30	retrograde	14081 Feb 28 07:04	11° Υ 51'15	
morning rise	14080 Apr 05 10:38	14° Ƴ 15'31		evening set	14081 Mar 07 03:11	9° Y ′26'08	
direct	14080 Apr 08 04:50	13° Y 34'44		min. Earth dist.	14081 Mar 10 22:00	6° Ƴ 10′37	0.63535 AU
morning max el	14080 Apr 14 12:53	16° Ƴ 52'48	18°01'03	inferior conj	14081 Mar 13 15:47	3° Y ′23'24	-0°41'50
	14080 Apr 24 06:31	9° 8		minimum elong	14081 Mar 13 17:07	3° Y ′20′00	0°41'15
desc. node	14080 Apr 30 19:49	10° 8 34'25		asc. node	14081 Mar 15 19:28	1° Y 16'22	
morning set	14080 May 02 17:54	13° 8 42'45			14081 Mar 17 06:47	30° Ŗ ₩	
C	14080 May 12 19:31	$\Pi^{\circ}0$		morning rise	14081 Mar 20 09:28	28° ¥ 07'00	
	,			direct	14081 Mar 22 19:25	27° ¥ 38′28	
superior conj	14080 May 17 06:48	7° Ⅱ 05'21	-1°46'48		14081 Mar 28 05:26	0° Υ	
minimum elong	14080 May 16 21:47	6° Ⅱ 29'49		morning max el	14081 Mar 29 06:31	0° Υ ′57'02	17°47'00
max. Earth dist.	14080 May 20 10:31	12° Ⅱ 02'45	1.45699 AU	morning set	14081 Apr 14 18:09	25° Y '55'15	
	14080 Jun 01 00:13	0°99			14081 Apr 17 03:24	0°8	
evening rise	14080 Jun 02 09:01	2°906'18		desc. node	14081 Apr 17 16:26	0° 8 55'36	
greatest brilliancy	14080 Jun 15 15:49	22°917'14	-0.7m			5 00000	
3y	14080 Jun 21 01:36	0°Ω	* - ·	superior conj	14081 Apr 27 10:45	17° 8 13'31	-1°11'26
asc. node	14080 Jun 24 19:47	4° Ω 48'58		minimum elong	14081 Apr 27 03:41	16° 8 44'37	
evening max el	14080 Jun 27 09:30	7° Ω 38'26	19°30'38	max. Earth dist.	14081 May 03 05:05	26° 8 29'59	1.44823 AU
retrograde	14080 Jul 04 14:13	11°Ω40'34	1, 2020	Lui ui uist.	14081 May 05 05:05	20 О 2737	1025 110
evening set	14080 Jul 08 06:41	10°Ω21'34		evening rise	14081 May 12 20:00	11° Ⅱ 29'47	
inferior conj	14080 Jul 13 15:32	$4^{\circ}\Omega 27'45$	3°05'55	0 , 011111 <u>6</u> 1150	14081 May 25 03:41	0°95	
anonoi conj	11000 Jul 13 13.32	. 062/73	3 03 33		1 1001 141ay 25 05.41	· •	

	14001 1 10 11 25	210620142	20021140	. 1	14002 1 02 11 22	10001010	
evening max el	14081 Jun 10 11:25	21°528'43	20°31'49	retrograde	14082 Jun 02 11:23	10°5540'29	
asc. node	14081 Jun 11 16:45	22° © 38'44		evening set	14082 Jun 07 00:54	8° © 47'52	
retrograde	14081 Jun 18 13:07	26° © 07'13		inferior conj	14082 Jun 12 06:59	2° © 31'20	3°05'50
evening set	14081 Jun 22 15:46	24° © 31'08		minimum elong	14082 Jun 12 06:03	2° 5 34'38	3°04'42
inferior conj	14081 Jun 27 21:58	18° © 25'14	3°11'33	min. Earth dist.	14082 Jun 12 09:55	2° © 21'08	0.68901 AU
minimum elong	14081 Jun 27 21:57	18° © 25'14	3°10'30		14082 Jun 14 03:08	30°Ŗ Ⅱ	
min. Earth dist.	14081 Jun 28 14:16	17° © 29'08	0.68379 AU	morning rise	14082 Jun 17 11:00	26° Ⅱ 16′05	
morning rise	14081 Jul 03 03:50	12° © 04'08		direct	14082 Jun 22 09:18	24° Ⅱ 09'09	
direct	14081 Jul 08 14:44	9° 5 40'13		desc. node	14082 Jul 01 13:35	29° Ⅱ 19'31	
desc. node	14081 Jul 14 16:22	11° © 57'59		morning max el	14082 Jul 02 04:03	29° Ⅲ 55'13	22°31'26
morning max el	14081 Jul 19 16:22	16°9517'34	24°00'45		14082 Jul 02 05:57	0°9	
-	14081 Jul 31 00:18	$0^{\circ}\Omega$			14082 Jul 24 18:42	$0^{\circ}\Omega$	
	14081 Aug 19 22:14	0° m		morning set	14082 Aug 04 19:38	17° Ω 17'26	
morning set	14081 Aug 23 24:00	6° m) 50'48		max. Earth dist.	14082 Aug 09 17:13	25° Ω 24'57	1.40801 AU
max. Earth dist.	14081 Aug 27 17:23	13° m) 20'20	1.38444 AU	max. Earth dist.	14082 Aug 12 09:39	0° m)	1.10001710
man Barur dige.	110011148 27 17.23	13 .42020	1.5011110		110021148 12 07.57	ÿ q	
superior conj	14081 Sep 04 03:09	26° m 56'43	-0°32'42	superior conj	14082 Aug 17 13:24	9° m 04'51	-1°08'08
minimum elong	14081 Sep 04 05:27	27° m 07'39	0°32'27	minimum elong	14082 Aug 17 13:24 14082 Aug 17 18:36	9° m)28'12	
minimum clong	•	0° ⊽	0 3227			-	1 07 30
1	14081 Sep 05 17:31			asc. node	14082 Aug 25 14:27	23° m 54'58	
asc. node	14081 Sep 07 17:55	3° ≙ 54'17		evening rise	14082 Aug 27 15:56	27° m/47'49	
evening rise	14081 Sep 13 00:36	14° ≙ 16'50			14082 Aug 28 20:02	0∘ ত	
	14081 Sep 21 09:50	0°M₊		evening max el	14082 Sep 12 14:28	23° ≏ 23'23	18°21'28
evening max el	14081 Sep 29 09:31	11°ML02'13	18°59'18	retrograde	14082 Sep 20 03:29	27° ≏ 12'55	
retrograde	14081 Oct 08 04:24	15°M26'54		evening set	14082 Sep 22 04:56	26° ≏ 56'30	
evening set	14081 Oct 10 01:18	15°M15'42		desc. node	14082 Sep 27 10:06	24° ₽ 11'34	
desc. node	14081 Oct 10 12:36	15°ML09'30		inferior conj	14082 Sep 29 19:24	22° ≏ 19'13	-0°45'21
inferior conj	14081 Oct 18 09:44	10°ML59'36	-2°29'36	minimum elong	14082 Sep 29 17:42	22° ₽ 22'43	0°44'22
minimum elong	14081 Oct 18 03:26	11°ML10'35	2°26'33	min. Earth dist.	14082 Oct 03 02:03	19° ≏ 39'50	0.58335 AU
min. Earth dist.	14081 Oct 21 07:14	8° M 59'07	0.56366 AU	morning rise	14082 Oct 07 02:59	16° ≏ 57'28	
morning rise	14081 Oct 26 02:38	6°M14'51		direct	14082 Oct 13 09:19	15° ≏ 14'47	
direct	14081 Oct 31 18:53	4°ML59'02		morning max el	14082 Oct 27 16:45	22° £ 52'29	27°18'00
morning max el	14081 Nov 14 22:21	12° M .14'19	26°03'58	morning max er	14082 Nov 03 01:35	0°M	27 1000
morning max ci	14081 Nov 28 17:16	0° √	20 03 30	asc. node	14082 Nov 21 16:15	29°M50'13	
asc. node	14081 Nov 28 17.10 14081 Dec 04 19:21	10° ∡ ¹29'37		asc. node	14082 Nov 21 18:16	29 IIC30 13 0° √	
					14082 NOV 21 18.10		
	14001 D 12 01 70	270 700111			14000 NT 27 10 27		
morning set	14081 Dec 13 01:58	27° ∡ '08'11		morning set	14082 Nov 27 10:27	11° ∡ ³34'52	
morning set	14081 Dec 13 01:58 14081 Dec 14 09:42	27° メ 08'11 0° る					1022127
	14081 Dec 14 09:42	0°ಕ		superior conj	14082 Dec 04 07:57	26° ⊀ ¹44'54	1°33'37
superior conj	14081 Dec 14 09:42 14081 Dec 19 20:24	0°ප 12°පි03'24	1°37'53	superior conj minimum elong	14082 Dec 04 07:57 14082 Dec 04 06:43	26° ⊀ ¹44'54 26° ⊀ ³38'00	1°34'35
superior conj minimum elong	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09	0°පි 12°පි03'24 12°පි02'01	1°38'57	superior conj	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32	26° ₹ 44′54 26° ₹ 38′00 26° ₹ 31′18	
superior conj minimum elong max. Earth dist.	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19	0°පි 12°පි03'24 12°පි02'01 14°පි21'51		superior conj minimum elong	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51	26° ♣ 44'54 26° ♣ 38'00 26° ♣ 31'18 0° ᠳ	1°34'35
superior conj minimum elong	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09	0°පි 12°පි03'24 12°පි02'01	1°38'57	superior conj minimum elong	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06	1°34'35
superior conj minimum elong max. Earth dist.	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19	0°පි 12°පි03'24 12°පි02'01 14°පි21'51	1°38'57	superior conj minimum elong max. Earth dist.	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51	26° ♣ 44'54 26° ♣ 38'00 26° ♣ 31'18 0° ᠳ	1°34'35
superior conj minimum elong max. Earth dist.	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52	0°පි 12°පි03'24 12°පි02'01 14°පි21'51 27°පි18'53	1°38'57	superior conj minimum elong max. Earth dist.	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06	1°34'35
superior conj minimum elong max. Earth dist. evening rise	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55	0°පි 12°පි03'24 12°පි02'01 14°පි21'51 27°පි18'53 0°≋	1°38'57	superior conj minimum elong max. Earth dist. evening rise	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06 0° ≈	1°34'35
superior conj minimum elong max. Earth dist. evening rise	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52	0°පි 12°පි03'24 12°පි02'01 14°පි21'51 27°පි18'53 0°≈ 17°≈40'25	1°38'57	superior conj minimum elong max. Earth dist. evening rise desc. node	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06 0° ≈ 6° ≈54'28	1°34'35 1.31164 AU
superior conj minimum elong max. Earth dist. evening rise desc. node	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52 14082 Jan 14 01:54	0°る 12°る03'24 12°る02'01 14°る21'51 27°る18'53 0°≈ 17°≈40'25 0°米	1°38'57 1.31555 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43 14083 Jan 09 23:39	26° 🗗 44'54 26° 🗗 38'00 26° 🗗 31'18 0° 云 11° 云 40'06 0° 念 6° 念 54'28 28° 念 53'07	1°34'35 1.31164 AU
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist.	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52 14082 Jan 14 01:54 14082 Jan 27 21:00 14082 Feb 10 19:41 14082 Feb 17 16:30 14082 Feb 21 11:08	0°る 12°る03'24 12°る02'01 14°る21'51 27°る18'53 0°≈ 17°≈40'25 0° ¥ 17° ¥02'20 24° ¥22'13 22° ¥11'25 19° ¥19'26	1°38'57 1.31555 AU 27°26'46 0.61429 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43 14083 Jan 09 23:39 14083 Jan 11 04:53 14083 Jan 23 22:50 14083 Jan 30 13:25 14083 Feb 03 13:34	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹5 11° ₹40'06 0° ≈ 6° ≈54'28 28° ≈53'07 0° ¥ 6° ¥03'16 4° ¥14'09 1° ¥36'04	1°34'35 1.31164 AU 26°46'22
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superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52 14082 Jan 14 01:54 14082 Feb 10 19:41 14082 Feb 24 17:03 14082 Feb 24 17:23 14082 Feb 24 17:23 14082 Feb 24 17:23 14082 Mar 02 16:58 14082 Mar 03 21:16 14082 Mar 06 00:58 14082 Mar 12 23:14 14082 Mar 23 12:26 14082 Mar 28 15:21 14082 Apr 04 12:58 14082 Apr 08 14:23 14082 Apr 08 14:23 14082 Apr 08 11:26 14082 Apr 09 12:03 14082 Apr 15 20:34 14082 Apr 22 13:47 14082 Apr 22 13:47	0°♂ 12°♂03'24 12°♂02'01 14°♂21'51 27°♂18'53 0°≈ 17°≈40'25 0°ℋ 17°₩02'20 24°₩22'13 22°₩11'25 19°₩19'26 16°₩33'11 16°₩23'36 12°₩01'32 11°₩34'37 11°₩14'40 14°₩44'12 0°Ψ 9°Ψ06'34 21°Ψ25'10 28°Ψ27'35 28°Ψ14'59 0°℧ 10°℧34'48 21°℧18'02 0°Ⅱ	1°38'57 1.31555 AU 27°26'46 0.61429 AU -1°59'44 1°57'40 17°50'53	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43 14083 Jan 09 23:39 14083 Jan 11 04:53 14083 Feb 03 13:34 14083 Feb 05 15:00 14083 Feb 06 18:03 14083 Feb 07 01:28 14083 Feb 14 16:41 14083 Feb 16 17:17 14083 Feb 17 14:26 14083 Feb 24 11:32 14083 Feb 26 06:13 14083 Mar 12 03:40 14083 Mar 15 20:59 14083 Mar 21 16:53 14083 Mar 21 16:53 14083 Mar 21 10:13 14083 Mar 22 00:23 14083 Mar 22 00:23	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06 0° ≈ 6° ≈54'28 28° ≈53'07 0° ¥ 6° ₩03'16 4° ¥14'09 1° ¥36'04 30° ₹≈ 29° ≈06'30 28° ≈51'56 24° ≈28'54 24° ≈14'00 24° ≈16'55 28° ≈04'47 0° ¥ 22° ¥59'15 0° ♀ 10° ♀46'54 10° ♀14'51 11° ♀18'51 11° ♀59'40	1°34'35 1.31164 AU 26°46'22 0.59235 AU -3°24'30 3°21'14 18°14'01
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong max. Earth dist. evening rise	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52 14082 Jan 14 01:54 14082 Feb 10 19:41 14082 Feb 24 13:08 14082 Feb 24 17:23 14082 Mar 02 16:58 14082 Mar 03 21:16 14082 Mar 04 00:58 14082 Mar 12 23:14 14082 Mar 23 12:26 14082 Mar 28 15:21 14082 Apr 08 14:23 14082 Apr 08 14:23 14082 Apr 09 12:03 14082 Apr 15 20:34 14082 Apr 22 13:47 14082 Apr 28 05:23 14082 Mar 28 05:23 14082 Mar 28 05:23 14082 Apr 28 05:23	0°♂ 12°♂03'24 12°♂02'01 14°♂21'51 27°♂18'53 0°≈ 17°≈40'25 0°ℋ 17°₩02'20 24°₩22'13 22°₩11'25 19°₩19'26 16°₩33'11 16°₩23'36 12°₩01'32 11°₩34'37 11°₩14'40 14°₩44'12 0°℉ 9°℉06'34 21°℉25'10 28°℉27'35 28°℉14'59 0°♂ 10°♂34'48 21°♂18'02 0°Ⅲ 0°☞	1°38'57 1.31555 AU 27°26'46 0.61429 AU -1°59'44 1°57'40 17°50'53 -0°31'50 0°31'46 1.43317 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43 14083 Jan 09 23:39 14083 Jan 11 04:53 14083 Jan 23 22:50 14083 Feb 03 13:34 14083 Feb 05 15:00 14083 Feb 06 18:03 14083 Feb 14 16:41 14083 Feb 16 17:17 14083 Feb 17 14:26 14083 Feb 24 11:32 14083 Feb 26 06:13 14083 Mar 12 03:40 14083 Mar 15 20:59 14083 Mar 21 16:53 14083 Mar 21 10:13 14083 Mar 21 10:13 14083 Mar 22 00:23 14083 Mar 22 09:28 14083 Mar 22 09:28	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06 0° ≈ 6° ≈54'28 28° ≈53'07 0° ₹ 6° ₹03'16 4° ₹14'09 1° ₹36'04 30° ₹≈ 29° ≈06'30 28° ≈51'56 24° ≈28'54 24° ≈14'00 24° ≈16'55 28° ≈04'47 0° ₹ 22° ₹59'15 0° ₹ 10° ₹45'01 10° ₹45'54 10° ₹14'51 11° ₹18'51 11° ₹59'40 24° ₹03'40	1°34'35 1.31164 AU 26°46'22 0.59235 AU -3°24'30 3°21'14 18°14'01
superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong asc. node morning rise direct morning max el morning set desc. node superior conj minimum elong	14081 Dec 14 09:42 14081 Dec 19 20:24 14081 Dec 19 20:09 14081 Dec 20 21:19 14081 Dec 26 20:52 14081 Dec 28 03:55 14082 Jan 06 10:52 14082 Jan 14 01:54 14082 Feb 10 19:41 14082 Feb 24 17:03 14082 Feb 24 17:23 14082 Feb 24 17:23 14082 Feb 24 17:23 14082 Mar 02 16:58 14082 Mar 03 21:16 14082 Mar 06 00:58 14082 Mar 12 23:14 14082 Mar 23 12:26 14082 Mar 28 15:21 14082 Apr 04 12:58 14082 Apr 08 14:23 14082 Apr 08 14:23 14082 Apr 08 11:26 14082 Apr 09 12:03 14082 Apr 15 20:34 14082 Apr 22 13:47 14082 Apr 22 13:47	0°♂ 12°♂03'24 12°♂02'01 14°♂21'51 27°♂18'53 0°≈ 17°≈40'25 0°ℋ 17°₩02'20 24°₩22'13 22°₩11'25 19°₩19'26 16°₩33'11 16°₩23'36 12°₩01'32 11°₩34'37 11°₩14'40 14°₩44'12 0°Ψ 9°Ψ06'34 21°Ψ25'10 28°Ψ27'35 28°Ψ14'59 0°℧ 10°℧34'48 21°℧18'02 0°Ⅱ	1°38'57 1.31555 AU 27°26'46 0.61429 AU -1°59'44 1°57'40 17°50'53 -0°31'50 0°31'46 1.43317 AU	superior conj minimum elong max. Earth dist. evening rise desc. node evening max el retrograde evening set min. Earth dist. inferior conj minimum elong morning rise direct asc. node morning max el morning set superior conj minimum elong behind sun begin behind sun end desc. node	14082 Dec 04 07:57 14082 Dec 04 06:43 14082 Dec 04 05:32 14082 Dec 05 18:51 14082 Dec 11 02:25 14082 Dec 20 08:11 14082 Dec 24 07:43 14083 Jan 09 23:39 14083 Jan 11 04:53 14083 Feb 03 13:34 14083 Feb 05 15:00 14083 Feb 06 18:03 14083 Feb 07 01:28 14083 Feb 14 16:41 14083 Feb 16 17:17 14083 Feb 17 14:26 14083 Feb 24 11:32 14083 Feb 26 06:13 14083 Mar 12 03:40 14083 Mar 15 20:59 14083 Mar 21 16:53 14083 Mar 21 16:53 14083 Mar 21 10:13 14083 Mar 22 00:23 14083 Mar 22 00:23	26° ₹44'54 26° ₹38'00 26° ₹31'18 0° ₹ 11° ₹40'06 0° ≈ 6° ≈54'28 28° ≈53'07 0° ¥ 6° ₩03'16 4° ¥14'09 1° ¥36'04 30° ₹≈ 29° ≈06'30 28° ≈51'56 24° ≈28'54 24° ≈14'00 24° ≈16'55 28° ≈04'47 0° ¥ 22° ¥59'15 0° ♀ 10° ♀46'54 10° ♀14'51 11° ♀18'51 11° ♀59'40	1°34'35 1.31164 AU 26°46'22 0.59235 AU -3°24'30 3°21'14 18°14'01

	14083 Apr 21 14:16	0°II			14084 Apr 15 15:50	0° I I	
evening max el	14083 May 06 23:35	19° Ⅱ 10′21	23°04'22	evening max el	14084 Apr 18 13:19	3° Ⅱ 02'46	24°25'06
asc. node	14083 May 16 11:01	25° I 12'11	25 0422	retrograde	14084 Apr 30 00:31	9° I I45'45	24 25 00
retrograde	14083 May 17 07:36	25° I 15'30		asc. node	14084 May 02 08:19	9° Ⅱ 22'00	
evening set	14083 May 22 08:30	23° I 107'58		evening set	14084 May 05 12:58	7° I I25'58	
inferior conj	14083 May 27 16:40	16° II 43'03	2°49'39	min. Earth dist.	14084 May 10 02:29	2° I 11'58	0.68513 AU
minimum elong	14083 May 27 14:59	16° Ⅱ 48'53	2°48'22	inferior conj	14084 May 11 01:06	0° П 55'58	2°23'13
min. Earth dist.	14083 May 27 06:41	17° I I17'37	0.68943 AU	minimum elong	14084 May 10 23:00	1° I I03'03	2°21'50
morning rise	14083 Jun 01 21:24	10° I I34'55			14084 May 11 17:50	30°R ∀	
direct	14083 Jun 06 06:58	8° Ⅱ 47'55		morning rise	14084 May 16 09:10	24° 8 56'05	
morning max el	14083 Jun 14 20:14	13° Ⅱ 43'08	21°07'41	direct	14084 May 20 06:30	23° 8 29'39	
desc. node	14083 Jun 18 10:40	17° I I40'23	21 07 11	morning max el	14084 May 27 19:15	27° 8 41'58	19°55'20
acor. noue	14083 Jun 27 18:43	0°9		moning mun vi	14084 May 29 23:10	0°II	1, 22 20
morning set	14083 Jul 15 14:57	26°541'33		desc. node	14084 Jun 04 07:40	6° Ⅱ 44'12	
morning sec	14083 Jul 17 17:24	0°Ω		dese. Hode	14084 Jun 20 04:50	0ංම 1	
max. Earth dist.	14083 Jul 22 22:47	8° Ω 22'48	1.42925 AU	morning set	14084 Jun 23 18:11	5° 5 26'22	
mar. Darur disc.	1.003 041 22 22	0 0022 .0	12,25.110	max. Earth dist.	14084 Jul 04 10:32	22° © 06'22	1.44574 AU
superior conj	14083 Jul 30 02:43	20° Ω 17'43	-1°41'05	man. Darm dist.	14084 Jul 09 08:47	0°Ω	1.1.107.1110
minimum elong	14083 Jul 30 10:00	20° Ω 48'39			11001341 07 00.17	~ ~ ~ ~	
minimum ciong	14083 Aug 04 17:25	0° m)	1 1101	superior conj	14084 Jul 09 16:20	0°Ω30'35	-2°05'20
evening rise	14083 Aug 10 17:53	10° Mp 42'23		minimum elong	14084 Jul 09 22:15	0° Ω 54'31	2°05'58
asc. node	14083 Aug 12 11:01	13° Mp 46'35		evening rise	14084 Jul 23 01:23	22° Ω 47'35	2 03 30
use. Houe	14083 Aug 22 01:34	0∘ ⊽		evening rise	14084 Jul 27 07:04	0° m)	
evening max el	14083 Aug 27 02:04	° - 219'13	18°03'59	asc. node	14084 Jul 29 07:40	3° Mp 24'30	
retrograde	14083 Sep 02 20:06	9° £ 47'16	10 03 37	evening max el	14084 Aug 09 16:27	19° m 40'11	18°05'35
evening set	14083 Sep 05 04:56	9° £ 21'46		retrograde	14084 Aug 16 01:49	23° Mp 00'34	10 00 00
inferior conj	14083 Sep 12 01:46	4° £ 24'16	0°40'59	evening set	14084 Aug 18 18:59	22° m/22'38	
minimum elong	14083 Sep 12 03:01	4° £ 21'19	0°40'30	inferior conj	14084 Aug 25 01:08	17° Mp 07'09	1°45'29
desc. node	14083 Sep 14 07:36	2° £ 16'34	0 .030	minimum elong	14084 Aug 25 03:31	17° Mp 00'45	1°44'24
min. Earth dist.	14083 Sep 15 05:53	1° £ 25'26	0.60591 AU	min. Earth dist.	14084 Aug 27 19:28	14° Mp 10'18	0.62850 AU
mm. Darm dist.	14083 Sep 16 21:51	30°R ™	0.00371710	morning rise	14084 Aug 31 09:54	10° m 55'45	0.02030710
morning rise	14083 Sep 18 22:04	28° m/32'24		desc. node	14084 Aug 31 05:07	11° m) 04'43	
direct	14083 Sep 25 12:22	26° M) 24'01		direct	14084 Sep 07 02:02	8° m) 27'48	
	14083 Oct 04 18:53	0° ⊽		morning max el	14084 Sep 21 02:44	16° Mp 29'10	27°53'02
morning max el	14083 Oct 04 18:57	ა <u>—</u> 4° Ω 18'05	27°54'59	morning max or	14084 Oct 02 06:59	0° ⊡	27 33 02
morning max or	14083 Oct 28 20:51	0° M .	27 3137		14084 Oct 20 14:19	o° m .	
asc. node	14083 Nov 08 13:02	19°MJ30'36		morning set	14084 Oct 25 11:49	9°M35'27	
morning set	14083 Nov 11 14:27	25°M45'39		asc. node	14084 Oct 25 09:45	9°M24'54	
morning set	14083 Nov 13 14:33	0° √		max. Earth dist.	14084 Oct 30 15:39	20°M23'04	1.31981 AU
max. Earth dist.	14083 Nov 17 12:55	8° ∡ 734'45	1.31300 AU	max. Lartii dist.	14004 Oct 30 13.37	20 11023 04	1.51701710
max. Earth dist.	14005 1101 17 12.55	0 7 34 43	1.51500710	superior conj	14084 Nov 02 03:23	25°M47'13	1°07'38
superior conj	14083 Nov 18 18:54	11° ₹ '21'09	1°23'31	minimum elong	14084 Nov 02 01:05	25°M34'42	1°08'05
minimum elong	14083 Nov 18 16:57	11° × ² 10'14	1°24'15	minimum ciong	14084 Nov 04 01:26	0° × 7	1 00 03
evening rise	14083 Nov 25 11:35	26° ₹ 108'45	1 24 13	evening rise	14084 Nov 08 22:31	10° ∡ 140′27	
evening rise	14083 Nov 27 06:54	0°る		evening rise	14084 Nov 18 15:47	0°ਤ	
desc. node	14083 Dec 11 04:41	25° පි 27'16		desc. node	14084 Nov 27 01:46	13° る 03'37	
dese. Hode	14083 Dec 14 07:54	0°≈		evening max el	14084 Dec 03 05:05	20°る04'49	23°56'56
evening max el	14083 Dec 22 17:53	9°≈50'20	25°33'06	retrograde	14084 Dec 16 18:35	26° る 49'34	23 30 30
retrograde	14084 Jan 05 15:05	16°≈50'04	23 33 00	evening set	14084 Dec 21 14:42	25° る 58'32	
evening set	14084 Jan 11 13:49	15°≈28'51		min. Earth dist.	14084 Dec 27 16:19	23° ප 00'01	0.55536 AU
min. Earth dist.	14084 Jan 16 06:19	13 ≈ 28 31 12° ≈ 49'47	0.57173 AU	inferior conj	14084 Dec 29 15:32	23 3 00001 21° 3 49'09	
inferior conj	14084 Jan 19 03:08	10°≈53'02		minimum elong	14084 Dec 29 21:08		5°42'45
minimum elong	14084 Jan 19 12:06	10 ≈33 02 10°≈37'49	4°42'40	morning rise	14085 Jan 07 05:23	21 04043 17°る52'35	3 42 43
morning rise	14084 Jan 27 13:05	6°≈37'38	4 42 40	direct	14085 Jan 09 18:41	17 3 32 33	
direct	14084 Jan 29 15:47	6°≈24'10		morning max el	14085 Jan 20 06:40	17 33 002 22° る 38'49	20°05'12
asc. node	14084 Feb 04 11:51	8°≈14'27		asc. node	14085 Jan 21 09:11	22 3 3849 23° る 45'54	20 03 12
morning max el	14084 Feb 07 15:21	0 ≈1427 10°≈46'40	18°58'13	asc. node	14085 Jan 26 07:07	23 O 43 34 0° ≈	
morning max ci	14084 Feb 07 13.21 14084 Feb 20 07:54	10 ≈ 46 40	10 2012	morning set	14085 Feb 07 07:51	0 ≈ 21°≈53'55	
morning set	14084 Feb 20 07.34 14084 Feb 24 02:20	0 X 7° ¥ 18′23		morning set	14085 Feb 07 07.31 14085 Feb 11 06:45	0° \	
morning set	14004 FCU 24 U2:20	/ Д1823			14000 FCU 11 U0:40	υ π	
aumonia '	14004 M 02 12 57	2201/52127	0027120	aumani '	14005 E-L 15 01 04	70W 27147	1002/41
superior conj	14084 Mar 03 13:57	23° ¥ 52'37	0°37'30	superior conj	14085 Feb 15 01:04	7°) 37'47	1°02'41
minimum elong	14084 Mar 03 16:10	24°) (03'13	0°37'21	minimum elong	14085 Feb 15 03:46	7° \ 51'20	1°02'48
1 1	14084 Mar 06 20:13	0° Υ		max. Earth dist.	14085 Feb 20 20:48	18° ¥ 57'33	1.36868 AU
desc. node	14084 Mar 08 05:57	2° Υ 34'50	1 20104 433	desc. node	14085 Feb 23 02:29	23° ₭ 07'17	
max. Earth dist.	14084 Mar 10 14:17	6° Y 48′25	1.39104 AU	evening rise	14085 Feb 24 14:59	25° ¥ 53'17	
evening rise	14084 Mar 14 10:20	13° Y 29'45			14085 Feb 26 22:30	0° Υ	
	14084 Mar 24 14:05	9° 8			14085 Mar 18 02:36	9° 8	

arranina marral	14005 Apr 01 02:50	16° 8 55'20	25020140	daga mada	14086 Feb 09 23:04	13°) 32'49	
evening max el	14085 Apr 01 02:50	_	25-3948	desc. node		13°π3249 0° Υ	
retrograde	14085 Apr 13 12:58	24° 8 04'59			14086 Feb 19 12:45		
asc. node	14085 Apr 19 05:40	21° 8 51'02			14086 Mar 13 23:39	0°8	26041102
evening set	14085 Apr 19 12:39	21° 8 36'43		evening max el	14086 Mar 14 16:44	0° 8 42'07	26°41'03
min. Earth dist.	14085 Apr 23 19:13	16° 8 58'22	0.67634 AU	retrograde	14086 Mar 27 19:58	8°806'08	
inferior conj	14085 Apr 25 06:21	15° 8 06'14	1°46'15	evening set	14086 Apr 03 05:46	5° 8 34'07	
minimum elong	14085 Apr 25 04:16	15° 8 12'53	1°44'55	asc. node	14086 Apr 06 03:06	2° 8 48'06	
morning rise	14085 Apr 30 20:25	9° 8 15'54		min. Earth dist.	14086 Apr 07 06:38	1° 8 30'18	0.66331 AU
direct	14085 May 04 06:24	8° 8 09'02			14086 Apr 08 13:11	30° ŖƳ	
morning max el	14085 May 11 01:41	11° 8 50'10	18°57'51	inferior conj	14086 Apr 09 06:15	29° Ƴ 09'04	0°58'07
desc. node	14085 May 22 04:33	26° 8 19'36		minimum elong	14086 Apr 09 04:50	29° Ƴ 13'18	0°57'10
greatest brilliancy	14085 May 24 09:40	29° 8 38'27	-0.7m	morning rise	14086 Apr 15 05:01	23° Y 30'05	
	14085 May 24 15:22	Π°		direct	14086 Apr 18 04:43	22° Y '40'30	
morning set	14085 Jun 03 01:00	14° Ⅲ 26′52		morning max el	14086 Apr 24 14:27	26° Ƴ 03'17	18°16'53
	14085 Jun 13 01:18	0ංම			14086 Apr 28 01:48	0°B	
max. Earth dist.	14085 Jun 17 03:26	6°523'08	1.45592 AU	desc. node	14086 May 09 01:21	16° 8 18'08	
				morning set	14086 May 14 06:19	24° 8 35'57	
superior conj	14085 Jun 19 09:08	9° © 53'40	-2°13'39	Č	14086 May 17 15:40	$\Pi^{\circ}0$	
minimum elong	14085 Jun 19 08:36	9°951'34				-	
mmum tiong	14085 Jul 02 00:10	0° Ω	2 1	superior conj	14086 May 29 17:15	19° Ⅱ 00'38	-2°01'53
evening rise	14085 Jul 04 09:35	3° Ω 52'18		minimum elong	14086 May 29 09:44	18° Ⅲ 31'16	
asc. node	14085 Jul 16 04:23	22° Ω 42'42		max. Earth dist.	14086 May 30 23:35		1.45879 AU
asc. Houe		0°M)		max. Earth dist.	14086 Jun 05 18:23	20 H 39 02	1.43679 AU
	14085 Jul 21 08:40		10025117				
evening max el	14085 Jul 24 06:16	~	18°25'17	evening rise	14086 Jun 14 17:28	13°958'08	
retrograde	14085 Jul 30 16:21	6° Mp 43'17			14086 Jun 25 01:28	0° N	0.0
evening set	14085 Aug 02 18:17	5° m 50'23		greatest brilliancy	14086 Jun 25 07:57	0° Ω 24'44	-0.8m
inferior conj	14085 Aug 08 13:24	0° m) 18'48	2°29'46	asc. node	14086 Jul 03 01:12	11° Ω 34'30	
minimum elong	14085 Aug 08 15:42	0°mp11'59	2°28'37	evening max el	14086 Jul 07 16:47	17° Ω 03'04	19°02'07
	14085 Aug 08 19:44	30°R Ω		retrograde	14086 Jul 14 12:15	20° Ω 48′20	
min. Earth dist.	14085 Aug 10 18:20	27° Ω 42′23	0.64901 AU	evening set	14086 Jul 17 23:21	19° Ω 38'54	
morning rise	14085 Aug 14 11:50	23° Ω 57'18		inferior conj	14086 Jul 23 11:00	13° Ω 52'44	2°56'54
desc. node	14085 Aug 18 02:39	21° Ω 49′26		minimum elong	14086 Jul 23 12:34	13° Ω 47'43	2°55'50
direct	14085 Aug 21 00:14	21° Ω 19′05		min. Earth dist.	14086 Jul 25 01:25	11° Ω 49'54	0.66600 AU
morning max el	14085 Sep 03 13:15	29° Ω 15′21	27°16'23	morning rise	14086 Jul 29 01:05	7° Ω 28′00	
	14085 Sep 04 06:42	0° m)		direct	14086 Aug 04 05:28	4° Ω 49'12	
	14085 Sep 26 04:25	0∘ ত		desc. node	14086 Aug 05 00:08	4° Ω 51'28	
morning set	14085 Oct 08 23:51	22° ≙ 56'45		morning max el	14086 Aug 17 00:26	12° Ω 26′12	26°12'47
asc. node	14085 Oct 12 06:23	29° ≏ 27'28			14086 Aug 31 03:32	o° m y	
	14085 Oct 12 12:47	0° M .			14086 Sep 18 20:20	0∘ ⊽	
max. Earth dist.	14085 Oct 13 10:11	1° M 49'30	1.33209 AU	morning set	14086 Sep 21 23:16	5° ≙ 42'06	
				max. Earth dist.	14086 Sep 25 19:00	12° ≏ 58'28	1.34952 AU
superior conj	14085 Oct 17 07:10	9°ML56'24	0°46'01	asc. node	14086 Sep 29 02:59	19° ≏ 34'19	
minimum elong	14085 Oct 17 05:07	9°M45'30	0°46'14	use. noue	1.000 Sep 25 02.05	17 —3.17	
evening rise	14085 Oct 24 09:18	25°M 09'31	0 1011	superior conj	14086 Oct 01 03:48	23° ≏ 42'21	0°18'57
evening rise	14085 Oct 26 16:33	0°×7		minimum elong	14086 Oct 01 02:44	23° ⊆ 36'57	0°19'05
desc. node	14085 Nov 13 22:59	29° ∡ 22'14		minimum clong	14086 Oct 04 04:45	0° ™	0 1703
evening max el	14085 Nov 14 16:00	0°る04'53	22014120	evening rise	14086 Oct 04 04:43	9°M31'05	
evening max er	14085 Nov 14 14:01	0 30433 0°る	22 14 36	evening rise	14086 Oct 19 12:59	9 11 6 31 03	
ratra ara da		6° る 23'13		avanina may al	14086 Oct 19 12:39 14086 Oct 27 12:01	10° ∡ ¹27'28	20042147
retrograde	14085 Nov 27 09:30			evening max el			20°42'47
evening set	14085 Nov 30 20:51	5°る56'38	5055125	desc. node	14086 Oct 31 20:17	13° х 57'34	
inferior conj	14085 Dec 09 11:37	2°る02'10		retrograde	14086 Nov 07 19:57	16° ₹ 05'28	
minimum elong	14085 Dec 09 08:37	2°る06'22		evening set	14086 Nov 10 04:38	15° ₹ '51'52	500 (120
min. Earth dist.	14085 Dec 08 22:38	2° る 20'22	0.54612 AU	inferior conj	14086 Nov 19 03:05	11° x 57'46	
	14085 Dec 13 06:40	30°R ✓		minimum elong	14086 Nov 18 17:30	12° ∡ 11'32 −	
morning rise	14085 Dec 17 21:26	28° ∡ 14'54		min. Earth dist.	14086 Nov 20 04:37	11° ∡ ′21′05	0.54588 AU
direct	14085 Dec 21 06:40	27° ∡ ¹49'17		morning rise	14086 Nov 27 06:21	8° ∡ °02'06	
	14085 Dec 28 15:54	0°ಕ		direct	14086 Dec 01 14:41	7° ∡ °21'37	
morning max el	14086 Jan 02 07:14	3° そ 35′13	21°34'47	morning max el	14086 Dec 14 20:06	13° ∡ ¹47'13	23°20'47
asc. node	14086 Jan 08 06:28	10° る 34'03		asc. node	14086 Dec 26 03:39	28° ∡ ¹21'58	
	14086 Jan 19 12:15	0° ≈			14086 Dec 27 03:31	ರ∘ರ	
morning set	14086 Jan 22 17:31	6° ≈ 37'36		morning set	14087 Jan 07 05:10	21° る 23'20	
					14087 Jan 11 04:50	0° ≈	
superior conj	14086 Jan 29 22:19	21° ≈ 49′11	1°20'56				
minimum elong	14086 Jan 30 00:38	22° ≈ 01'16	1°21'25	superior conj	14087 Jan 14 02:34	6° ≈ 18'02	1°32'29
3	14086 Feb 02 22:03	0° ∀		minimum elong	14087 Jan 14 04:00	6° ≈ 25'49	1°33'18
max. Earth dist.	14086 Feb 03 08:06	0° ¥ 50'19	1.34847 AU	max. Earth dist.	14087 Jan 17 02:56	12° ≈ 43'55	1.33197 AU
evening rise	14086 Feb 07 11:58	8° ¥ 57'02		evening rise	14087 Jan 21 21:45	22° ≈ 31'52	
<i>3</i>				5			

	14087 Jan 25 18:34	0° ∀		superior conj	14087 Dec 29 11:19	20°る57'22	1°37'41
desc. node	14087 Jan 27 19:40	3°) 46'45		minimum elong	14087 Dec 29 11:42	20° る 59'26	1°38'42
	14087 Feb 13 06:20	$0^{\circ}\mathbf{Y}$		max. Earth dist.	14087 Dec 31 04:53	24° る 45'42	1.32005 AU
evening max el	14087 Feb 25 06:06	14° Ƴ 11'47	27°21'25		14088 Jan 02 14:58	0° ≈	
retrograde	14087 Mar 10 20:33	21° Y 40'03		evening rise	14088 Jan 05 17:15	6° ≈ 30'19	
evening set	14087 Mar 17 14:10	19° Ƴ 10'11		desc. node	14088 Jan 14 16:20	23° ≈ 43'45	
min. Earth dist.	14087 Mar 21 10:37	15° Ƴ 38'29	0.64650 AU		14088 Jan 18 07:43	0° ∀	
inferior conj	14087 Mar 23 22:15	12° Y 57'23	-0°01'52	evening max el	14088 Feb 07 17:07	27° ¥ 12′24	27°34'04
minimum elong	14087 Mar 23 22:18	12° Y 57'14	0°01'59		14088 Feb 10 21:40	0° Y	
transit middle	14087 Mar 23 22:18	12° Y 57'14	0°01'59	retrograde	14088 Feb 21 14:01	4° Y 37'34	
transit begin	14087 Mar 23 19:15	13° Y 05'30		evening set	14088 Feb 28 11:20	2° Y 17'12	
transit end	14087 Mar 24 01:21	12° Ƴ 48'59			14088 Mar 02 08:48	30° ₹	
asc. node	14087 Mar 24 00:35	12° Y 51'02		min. Earth dist.	14088 Mar 03 05:26	29° ∺ 12'58	0.62665 AU
morning rise	14087 Mar 30 08:21	7° Ƴ 32'08		inferior conj	14088 Mar 06 03:22	26° ∺ 24'04	
direct	14087 Apr 01 22:58	6° Y 56'52		minimum elong	14088 Mar 06 05:51	26° ¥ 18′03	1°12'27
morning max el	14087 Apr 08 07:09	10° Y 13′27	17°52'58	asc. node	14088 Mar 09 22:04	23° ∺ 03′19	
	14087 Apr 21 23:40	0°8		morning rise	14088 Mar 13 03:05	21° 米 15′13	
morning set	14087 Apr 25 15:45	6° 8 06'34		direct	14088 Mar 15 10:07	20° ¥ 50'48	
desc. node	14087 Apr 25 22:01	6° 8 32'39		morning max el	14088 Mar 22 00:53	24°) 12′30	17°46'26
					14088 Mar 26 18:11	0° Υ	
superior conj	14087 May 09 10:02	28° 8 36'33		morning set	14088 Apr 07 01:40	18° Y 46'34	
minimum elong	14087 May 09 01:17	28° 8 01'40	1°32'44	desc. node	14088 Apr 11 18:37	26° Y 58'15	
To all Par	14087 May 10 06:58	0°Ⅱ 5°Ⅲ35'35	1 45410 477		14088 Apr 13 12:51	0°8	
max. Earth dist.	14087 May 13 19:51		1.45413 AU		14000 4 10 22 51	001110150	005443
evening rise	14087 May 25 07:58	23° Ⅱ 26'05		superior conj	14088 Apr 18 23:51	9° 8 12'58	
4 41 211	14087 May 29 15:15	0.20 0.20	0.6	minimum elong	14088 Apr 18 18:30	8° 8 50'41	0°54'31
greatest brilliancy	14087 Jun 09 01:29	15°533'52	-0.6m	max. Earth dist.	14088 Apr 25 13:12	19° 8 54'55	1.44252 AU
asc. node	14087 Jun 19 22:08	29°\$50'10 0° Ω		avanina riaa	14088 May 01 22:36	0°П 2°П55'37	
	14087 Jun 20 01:48	0° Ω 52'12	19°54'56	evening rise	14088 May 03 19:59	2°Щээгэ/ 0° ©	
evening max el	14087 Jun 20 22:00 14087 Jun 28 10:47	5° Ω 08'39	19-34-36	avanina may al	14088 May 22 03:04 14088 Jun 02 21:16	14°9542'00	21°01'31
retrograde evening set	14087 Jul 28 10.47	3° Ω 42'10		evening max el asc. node	14088 Jun 05 19:09	14 94200 17°917'45	21 01 31
evening set	14087 Jul 05 21:18	30°RS		retrograde	14088 Jun 11 09:44	17 5 17 43 19° 5 38' 48	
inferior conj	14087 Jul 07 14:55	27°\$42'48	3°09'45	evening set	14088 Jun 15 16:52	17° © 55'33	
minimum elong	14087 Jul 07 15:30	27°942'48	3°08'44	inferior conj	14088 Jun 20 22:42	11°5544'38	3°10'25
min. Earth dist.	14087 Jul 08 15:03	26°9521'23	0.67865 AU	minimum elong	14088 Jun 20 22:17	11°9546'05	3°09'21
morning rise	14087 Jul 12 23:03	21° © 19'26	0.07003710	min. Earth dist.	14088 Jun 21 09:13	11°508'06	0.68660 AU
direct	14087 Jul 18 16:41	18°548'23		morning rise	14088 Jun 26 03:28	5°925'36	0.00000110
desc. node	14087 Jul 22 21:32	19°954'38		direct	14088 Jul 01 08:55	3°908'34	
morning max el	14087 Jul 30 11:07	25°951'30	24°51'34	desc. node	14088 Jul 08 18:50	6°932'57	
S	14087 Aug 03 06:13	$0^{\circ}\Omega$		morning max el	14088 Jul 11 21:49	9° © 25'15	23°22'28
	14087 Aug 24 16:12	0° m		C	14088 Jul 28 03:16	$0^{\circ}\Omega$	
morning set	14087 Sep 04 06:01	17° m) 41'52		morning set	14088 Aug 15 15:37	28° Ω 45'32	
max. Earth dist.	14087 Sep 07 19:40	24° m 07'05	1.37099 AU	•	14088 Aug 16 09:21	0° m	
	14087 Sep 10 23:27	0∘ ⊽		max. Earth dist.	14088 Aug 19 17:33	5° m 42'47	1.39454 AU
superior conj	14087 Sep 14 14:08	6° Ω 57'15	-0°12'51	superior conj	14088 Aug 27 10:25	19° m 32'30	-0°47'45
minimum elong	14087 Sep 14 14:58	7° ≏ 01'19	0°12'40	minimum elong	14088 Aug 27 13:56	19° m 48'49	0°47'28
behind sun begin	14087 Sep 14 10:51	6° ≏ 41'11		asc. node	14088 Sep 01 20:04	29° m 45'42	
behind sun end	14087 Sep 14 19:05	7° ≏ 21'30			14088 Sep 01 23:03	0∘ ⊽	
asc. node	14087 Sep 15 23:32	9° ≏ 41'35		evening rise	14088 Sep 05 19:21	7° ≏ 25'56	
evening rise	14087 Sep 22 22:17	23° △ 38'59			14088 Sep 18 20:18	0° M	
	14087 Sep 26 02:52	0° M		evening max el	14088 Sep 21 21:20	3°M32'29	18°40'38
evening max el	14087 Oct 09 22:09	21°M35'44	19°30'44	retrograde	14088 Sep 30 02:28	7° M 40′51	
desc. node	14087 Oct 18 17:39	26°M24'16		evening set	14088 Oct 02 00:32	7° ™ 28'05	
retrograde	14087 Oct 19 14:43	26°M26'34		desc. node	14088 Oct 04 15:07	6°M33'12	
evening set	14087 Oct 21 11:54	26°M16'23		inferior conj	14088 Oct 10 01:36	3°M03'24	
inferior conj	14087 Oct 30 04:34	22°M10'35		minimum elong	14088 Oct 09 21:21	3°M11'18	1°41'40
minimum elong	14087 Oct 29 19:44	22°M24'43		min. Earth dist.	14088 Oct 13 04:50	0°M43'57	0.57140 AU
min. Earth dist.	14087 Nov 01 13:51	20°M38'58	0.55479 AU		14088 Oct 14 06:06	30° ₹ Ω	
morning rise	14087 Nov 07 01:33	17°M46'39		morning rise	14088 Oct 17 14:47	28° ♀ 02'09	
direct	14087 Nov 12 06:54	16°M45'29	25000141	direct	14088 Oct 23 13:36	26° £ 34'53	
morning max el	14087 Nov 26 05:44	23°M45'09	25°08'41		14088 Nov 01 23:40	0°M 4°M 01130	26020126
aga m-J-	14087 Dec 01 21:38	0°×7 16°×755'00		morning max el	14088 Nov 06 19:48	4°M01'30	26~39'36
asc. node	14087 Dec 13 00:44	16° ₹ 55'00		000 m-J-	14088 Nov 25 14:53	0° √ 6°. ₹ 00!44	
morning ast	14087 Dec 19 19:33	0°궁 6°궁06'01		asc. node	14088 Nov 28 21:41	6° ₹ 00'44 20° ₹ 39'36	
morning set	14087 Dec 22 16:58	0 30001		morning set	14088 Dec 06 03:08	40 X -3930	

	14088 Dec 10 09:30	0°ಕ		morning max el	14089 Oct 19 17:29	14° £ 58'58	27°38'28
	14000 5 10 00 04	50 -7 00100	1026140		14089 Oct 31 21:33	0°M	
superior conj	14088 Dec 12 22:24	5°₹39'38	1°36'49	asc. node	14089 Nov 15 18:33	25°M30'35	
minimum elong	14088 Dec 12 21:42	5° る 35'47	1°37'50		14089 Nov 18 00:15	0° ₹ ¹	
max. Earth dist.	14088 Dec 13 11:33	6°る53'03	1.31315 AU	morning set	14089 Nov 20 09:56	4° ⋌ ¹59'53	
evening rise	14088 Dec 19 19:45	20°る44'40			1400031 25 00 56	200 710120	1020102
	14088 Dec 24 08:20	0° ≈		superior conj	14089 Nov 27 09:56	20°×719'38	1°30'02
desc. node	14088 Dec 31 13:06	13°≈15'51		minimum elong	14089 Nov 27 08:21		1°30'56
	14089 Jan 11 14:25	0°) {		max. Earth dist.	14089 Nov 26 19:43	19° ∡ ¹00'17	1.31156 AU
evening max el	14089 Jan 19 23:33	9°) €31′26	27°13'52		14089 Dec 01 18:12	0°る	
retrograde	14089 Feb 02 23:10	16°) 48'17		evening rise	14089 Dec 04 03:05	5°る09'44	
evening set	14089 Feb 09 18:10	14°) (45'42			14089 Dec 17 01:18	0° ≈	
min. Earth dist.	14089 Feb 13 14:04	12° 米 01′03	0.60492 AU	desc. node	14089 Dec 18 09:59	2°≈13'42	
inferior conj	14089 Feb 16 18:08	9°) 19'33		evening max el	14090 Jan 01 22:55	20° ≈ 59'50	26°18'54
minimum elong	14089 Feb 16 23:47	9°) €07'32	2°32'37	retrograde	14090 Jan 15 21:57	28° ≈ 05'27	
morning rise	14089 Feb 24 08:38	4° ¥ 29'46		evening set	14090 Jan 22 06:48	26° ≈ 27'59	
asc. node	14089 Feb 24 19:32	4° ¥ 23′06		min. Earth dist.	14090 Jan 26 12:26	23° ≈ 51'12	0.58323 AU
direct	14089 Feb 26 10:22	4°) 12'32		inferior conj	14090 Jan 29 14:57	21° ≈ 33'59	-4°00'22
morning max el	14089 Mar 05 16:14	7° ¥ 50'05	17°58'16	minimum elong	14090 Jan 29 23:23	21° ≈ 18′22	3°56'56
	14089 Mar 19 23:59	0° Υ		morning rise	14090 Feb 06 19:00	17° ≈ 05′28	
morning set	14089 Mar 21 05:57	2° Y 17'19		direct	14090 Feb 08 19:34	16° ≈ 51'39	
desc. node	14089 Mar 29 15:07	17° Ƴ 30'19		asc. node	14090 Feb 11 16:59	17° ≈ 21′21	
				morning max el	14090 Feb 17 01:21	20° ≈ 55'11	18°30'04
superior conj	14089 Mar 31 13:37	20° Ƴ 55'17	-0°15'27		14090 Feb 23 22:29	0° ∀	
minimum elong	14089 Mar 31 12:16	20° Ƴ 49'24	0°15'31	morning set	14090 Mar 04 23:10	16° ¥ 22'42	
behind sun begin	14089 Mar 31 10:21	20° Ƴ 41′03			14090 Mar 12 02:19	0 ° $\mathbf{\Upsilon}$	
behind sun end	14089 Mar 31 14:10	20° Ƴ 57'45					
	14089 Apr 05 20:35	0°B		superior conj	14090 Mar 14 00:31	3° Y 35'12	0°19'54
max. Earth dist.	14089 Apr 08 02:12	3° 8 43'32	1.42521 AU	minimum elong	14090 Mar 14 01:53	3° Ƴ 41'32	0°19'43
evening rise	14089 Apr 13 20:28	13° 8 03'19		desc. node	14090 Mar 16 11:35	8° Ƴ 05'19	
C	14089 Apr 24 21:57	$\Pi^{\circ}0$		max. Earth dist.	14090 Mar 21 11:04	16° Ƴ 53'27	1.40408 AU
evening max el	14089 May 16 15:25	28° Ⅲ 32'43	22°18'05	evening rise	14090 Mar 25 17:08	24° Y 05'32	
Ü	14089 May 18 03:58	0°ಅ		Ü	14090 Mar 29 07:57	0° ႘	
asc. node	14089 May 23 16:16	3° 5 642'11			14090 Apr 18 18:06	0°П	
retrograde	14089 May 26 07:22	4°9513'26		evening max el	14090 Apr 29 06:19	12° Ⅱ 25'09	23°39'06
evening set	14089 May 31 01:33	2° © 14'28		retrograde	14090 May 10 02:11	18° Ⅱ 46'58	
	14089 Jun 02 06:01	30°R∏		asc. node	14090 May 10 13:30	18° Ⅱ 45'59	
inferior conj	14089 Jun 05 08:16	25° I 54'00	3°00'14	evening set	14090 May 15 08:00	16° Ⅲ 34'04	
minimum elong	14089 Jun 05 06:59	25° I I58'29	2°59'02	min. Earth dist.	14090 May 20 02:22	10° Ⅱ 59'10	0.68818 AU
min. Earth dist.	14089 Jun 05 05:44	26° I I02'52	0.68974 AU	inferior conj	14090 May 20 17:40	10° I 106'46	2°39'44
morning rise	14089 Jun 10 12:15	19° ∏ 41'22	0.00571110	minimum elong	14090 May 20 15:45	10° Ⅱ 13'18	2°38'23
direct	14089 Jun 15 05:07	17° ∏ 42'33		morning rise	14090 May 25 23:29	4° Ⅱ 01'55	2 30 23
morning max el	14089 Jun 24 10:58	23° I 106'54	21°54'37	direct	14090 May 30 03:52	2° I I23'27	
desc. node	14089 Jun 25 16:00	24° I I22'08	21 3 1 3 7	morning max el	14090 Jun 07 05:43	6° Ⅱ 58'49	20°35'11
dese. Hode	14089 Jun 30 11:22	0.2 2. 275.00		desc. node	14090 Jun 12 13:04	13° Ⅱ 02'51	20 33 11
	14089 Jul 21 10:58	0° U		desc. node	14090 Jun 24 17:03	0°95	
morning set	14089 Jul 27 00:40	8° Ω 45'09		morning set	14090 Jul 06 11:18	17°9647'05	
max. Earth dist.	14089 Aug 01 19:03	18° Ω 08'30	1.41746 AU	morning sec	14090 Jul 14 05:35	0°Ω	
max. Earth dist.	14089 Aug 08 18:18	0° m)	1.11710710	max. Earth dist.	14090 Jul 15 03:29	1° Ω 27'53	1.43700 AU
	1100) 11 ug 00 10.10	∪y		max. Bartii dist.	11000 341 13 03.29	1 0027 33	1.13700710
superior conj	14089 Aug 09 12:19	1° m)18'49	-1°22'46	superior conj	14090 Jul 21 15:42	12° Ω 06′24	-1°52'53
minimum elong	14089 Aug 09 18:37	1° m) 46'28	1°22'31	minimum elong	14090 Jul 21 22:59	12°Ω36'44	
asc. node	14089 Aug 19 16:37	19° Mp 43'19	1 22 31	minimum ciong	14090 Aug 01 03:03	0°m)	1 33 00
evening rise	14089 Aug 20 05:35	20° Mp 43'07		evening rise	14090 Aug 01 03:03	3° mp 18'00	
evening rise	14089 Aug 25 07:36	0° ⊽		asc. node	14090 Aug 05 00:18	9° my 29'39	
evening max el	14089 Aug 25 07:30 14089 Sep 05 05:45	0 <u>=</u> 16° ⊆ 10'36	18°11'41	evening max el	14090 Aug 00 13:13	29° m) 18'31	18°02'26
retrograde	14089 Sep 12 09:15	10 2 10 30 19° 2 48'54	10 11 41	evening max ci	14090 Aug 19 19:02 14090 Aug 20 12:40	0° ⊽	18 02 20
evening set	14089 Sep 12 09:13	19 22 48 34 19° 2 29'03		retrograde	14090 Aug 20 12.40 14090 Aug 26 07:58	0 <u>≈</u> 2° ≏ 41'20	
	•		0906107	•	_		
inferior conj	14089 Sep 21 20:28	14° Ω 43'16	0°05'52	evening set	14090 Aug 28 20:26	2° ⊆ 10'43	
minimum elong	14089 Sep 21 20:15	14° Ω 43'44		infariar aar:	14090 Sep 01 07:35	30°RM)	1011101
transit middle	14089 Sep 21 20:15	14° Ω 43'44	0°05'52	inferior conj	14090 Sep 04 10:34	27° Mp 05'09	1°11'01
transit begin	14089 Sep 21 17:04	14° £ 50'39		minimum elong	14090 Sep 04 12:29	27° Mp 00'20	1°10'10
transit end	14089 Sep 21 23:26	14° Ω 36'47		min. Earth dist.	14090 Sep 07 11:05	24° Mp 04'58	0.61573 AU
desc. node	14089 Sep 21 12:38	15° Ω 00'16	0.50200 441	desc. node	14090 Sep 08 10:11	23° Th 11'22	
min. Earth dist.	14089 Sep 25 03:23	11° Ω 52'49	0.59280 AU	morning rise	14090 Sep 11 01:56	21° Mp 04'02	
morning rise	14089 Sep 28 23:24	9° Ω 07'44		direct	14090 Sep 17 17:51	18° Mp 46'29	27050144
direct	14089 Oct 05 10:10	7° ≏ 13'16		morning max el	14090 Oct 01 22:13	26° Mp 43'54	27°58'44

	14090 Oct 05 00:13	0∘ ত		desc. node	14091 Aug 26 07:45	2° m 42'53	
	14090 Oct 05 00:13	0 <u>==</u> 0°M₊		direct	14091 Aug 20 07:43	1°M)11'18	
asc. node	14090 Nov 02 15:18	15°ML17'18		morning max el	14091 Sep 14 07:40	9° m)11'43	27°41'17
morning set	14090 Nov 04 11:22	19°ML01'57		morning max cr	14091 Sep 30 13:00	0° ت	27 41 17
morning sec	14090 Nov 09 14:59	0° ∡ 7			14091 Oct 17 20:43	0° ™	
max. Earth dist.	14090 Nov 10 01:39		1.31529 AU	morning set	14091 Oct 19 05:08	2°M40'15	
man. Darun dist.	110,01101 10 01.5,	0 7. 00 20	1.01027110	asc. node	14091 Oct 20 11:58	5°M15'28	
superior conj	14090 Nov 11 20:03	4° ∡ 751'56	1°17'28	max. Earth dist.	14091 Oct 24 01:31	12°M38'48	1.32442 AU
minimum elong	14090 Nov 11 17:54	4° ∡ ³39'59	1°18'06				
evening rise	14090 Nov 18 13:15	19° ×7 '40'16		superior conj	14091 Oct 27 02:48	19° M .11'06	0°59'08
	14090 Nov 23 12:05	0°ප		minimum elong	14091 Oct 27 00:32	18°M58'50	0°59'29
desc. node	14090 Dec 05 07:02	20° ට 24'31		8	14091 Nov 01 01:53	0° ∡ 7	
	14090 Dec 12 23:07	0° ≈		evening rise	14091 Nov 03 00:21	4° √ 11'18	
evening max el	14090 Dec 14 13:53	1° ≈ 36'52	24°54'06	Č	14091 Nov 16 17:08	ರ∘ರ	
retrograde	14090 Dec 28 08:25	8° ≈ 30'15		desc. node	14091 Nov 22 04:11	7° る 30'30	
evening set	14091 Jan 02 21:17	7° ≈ 22'03		evening max el	14091 Nov 25 23:38	11° る 39'41	23°12'57
min. Earth dist.	14091 Jan 08 01:48	4° ≈ 37'13	0.56408 AU	retrograde	14091 Dec 09 06:12	18° る 15'23	
inferior conj	14091 Jan 10 15:06	2° ≈ 59'03	-5°14'57	evening set	14091 Dec 13 12:47	17° る 35'40	
minimum elong	14091 Jan 10 23:25	2° ≈ 45'44	5°12'19	min. Earth dist.	14091 Dec 20 09:24	14° る 23'22	0.55039 AU
Č	14091 Jan 15 19:47	30°Ŗる		inferior conj	14091 Dec 21 19:30	13° る 34'09	-5°56'17
morning rise	14091 Jan 19 03:46	28° る 52'14		minimum elong	14091 Dec 21 21:50	13° る 30'47	5°55'07
direct	14091 Jan 21 10:02	28° ප 37'56		morning rise	14091 Dec 30 08:27	9° ට 43'43	
	14091 Jan 26 15:33	0° ≈		direct	14092 Jan 02 05:23	9° ට 24'08	
asc. node	14091 Jan 29 14:23	2° ≈ 00'27		morning max el	14092 Jan 13 09:18	14° る 44'47	20°40'54
morning max el	14091 Jan 31 00:12	3° ≈ 16'36	19°23'55	asc. node	14092 Jan 16 11:43	18° る 06'33	
C	14091 Feb 16 15:04	0°) €			14092 Jan 24 09:36	0° ≈	
morning set	14091 Feb 17 01:11	0°) 50′27		morning set	14092 Feb 01 08:45	15° ≈ 30'14	
3					14092 Feb 08 08:36	0° ∀	
superior conj	14091 Feb 25 04:07	17° ¥ 00′30	0°49'01				
minimum elong	14091 Feb 25 06:41	17°) 12′59	0°48'59	superior conj	14092 Feb 08 19:59	0° ¥ 58'06	1°11'15
desc. node	14091 Mar 03 08:06	28°) 39'56		minimum elong	14092 Feb 08 22:36	1°) 11′28	1°11'32
max. Earth dist.	14091 Mar 03 17:43	29°) 23′50	1.38140 AU	max. Earth dist.	14092 Feb 14 01:48	11°) €23'46	1.35963 AU
	14091 Mar 04 01:40	0° Υ		evening rise	14092 Feb 17 22:48	18°) 42′56	
evening rise	14091 Mar 07 10:49	6° Ƴ 01'37		desc. node	14092 Feb 18 04:37	19°) 09'41	
<i>8</i>	14091 Mar 22 07:11	0°8			14092 Feb 24 07:44	0° Υ	
evening max el	14091 Apr 11 19:56	26° 8 19'01	24°58'02		14092 Mar 15 11:04	0° ႘	
S	14091 Apr 16 00:34	0°II		evening max el	14092 Mar 24 09:25	10° 8 09'18	26°07'52
retrograde	14091 Apr 23 17:13	3° Ⅱ 14'07		retrograde	14092 Apr 06 03:28	17° 8 26'50	
asc. node	14091 Apr 27 10:50	2° Ⅱ 14'13		evening set	14092 Apr 12 07:47	14° 8 55'58	
evening set	14091 Apr 29 10:39	0° Ⅱ 50′08		asc. node	14092 Apr 13 08:14	14° 8 01'28	
S	14091 Apr 30 08:27	30°R ∀		min. Earth dist.	14092 Apr 16 11:38	10° 8 32'49	0.67130 AU
min. Earth dist.	14091 May 03 21:02	25° 8 51'39	0.68198 AU	inferior conj	14092 Apr 18 04:14	8° 8 27'00	1°27'15
inferior conj	14091 May 05 01:00	24° 8 19'33	2°08'54	minimum elong	14092 Apr 18 02:20	8° 8 32'53	1°26'02
minimum elong	14091 May 04 22:51	24° 8 26'41	2°07'30	morning rise	14092 Apr 23 21:42	2° 8 41'32	
morning rise	14091 May 10 11:19	18° 8 23'45		direct	14092 Apr 27 03:07	1° 8 42'29	
direct	14091 May 14 03:47	17° 8 05'46		morning max el	14092 May 03 17:27	5° 8 14'14	18°38'26
morning max el	14091 May 21 08:00	21° 8 02'46	19°28'59	desc. node	14092 May 16 06:51	22° 8 07'32	
Ü	14091 May 28 17:22	0°II			14092 May 21 08:51	0°II	
desc. node	14091 May 30 10:01	2° Ⅱ 21'37		morning set	14092 May 25 04:12	5° Ⅱ 57'12	
greatest brilliancy	14091 Jun 02 23:18	7° Ⅱ 29'32	-0.7m	max. Earth dist.	14092 Jun 09 12:54	29° Ⅱ 56'54	1.45805 AU
morning set	14091 Jun 15 13:27	26° Ⅱ 31'54			14092 Jun 09 13:42	0°ಅ	
Ü	14091 Jun 17 19:31	0ം ഉ					
max. Earth dist.	14091 Jun 27 18:21	15° © 30'09	1.45100 AU	superior conj	14092 Jun 10 06:44	1° 5 06'30	-2°11'07
				minimum elong	14092 Jun 10 02:49	0° © 51'14	2°12'04
superior conj	14091 Jul 01 19:37	21° © 55'41	-2°11'10	evening rise	14092 Jun 25 20:05	25°937'48	
minimum elong	14091 Jul 01 23:20	22°510'29		<i>3</i> 23	14092 Jun 28 13:55	$0^{\circ}\Omega$	
	14091 Jul 06 20:03	$0^{\circ}\Omega$		greatest brilliancy	14092 Jul 03 05:09	7° Ω 21'36	-0.9m
evening rise	14091 Jul 15 22:25	14° Ω 58'57		asc. node	14092 Jul 10 06:40	18° Ω 08'11	
asc. node	14091 Jul 24 09:54	29° Ω 00'02		evening max el	14092 Jul 16 22:08	26° Ω 28'10	18°38'50
	14091 Jul 25 00:52	0° m)		<i>5</i> +-	14092 Jul 22 23:40	0° m)	
evening max el	14091 Aug 03 09:32	12° Mp 46'57	18°11'43	retrograde	14092 Jul 23 11:22	0° Mp 01'20	
retrograde	14091 Aug 09 18:04	16° Mp 08'19			14092 Jul 23 23:01	30°RΩ	
evening set	14091 Aug 12 14:56	15° m) 24'10		evening set	14092 Jul 26 17:03	29° Ω 01'40	
inferior conj	14091 Aug 18 15:55	10° Mp 01'16	2°06'35	inferior conj	14092 Aug 01 08:34	23°Ω23'35	2°43'10
minimum elong	14091 Aug 18 18:23	9° Mp 54'21	2°05'25	minimum elong	14092 Aug 01 10:36	23° Ω 17'18	2°42'04
min. Earth dist.	14091 Aug 21 04:39	7° Mp 11'25	0.63762 AU	min. Earth dist.	14092 Aug 01 10:30	21°Ω00'03	0.65670 AU
morning rise	14091 Aug 24 20:05	3° mp 44'27	5.05/02 AU	morning rise	14092 Aug 03 07:21 14092 Aug 07 03:08	16° Ω 59'41	3.02070 AU
		J ng 1⊤2/			- 10,211ug 07 03.00	10 0007 41	

11-	14002 4 12 05-15	1.49.002(119)			14093 Jul 21 20:24	0° Ω 40'19	
desc. node	14092 Aug 12 05:15	14° Ω 26'18 14° Ω 20'05		morning rise			
direct	14092 Aug 13 12:25	22°Ω10'50	26°52'06	J: 4	14093 Jul 22 15:56	30°Rூ 28°♀03'34	
morning max el	14092 Aug 26 18:57	0° m)	20-52-06	direct desc. node	14093 Jul 27 20:31 14093 Jul 30 02:41	28°903'34 28°922'42	
	14092 Sep 02 15:41 14092 Sep 22 18:45	0∘ ⊽ 0 ım		desc. node	14093 Jul 30 02.41 14093 Aug 02 16:22	28 3 22 42 0° Ω	
morning got	14092 Sep 22 18.43	0 <u>≈</u> 15° ≏ 48'01		marning may al	-	5°Ω28'31	25920145
morning set		23° £ 48'01	1.33887 AU	morning max el	14093 Aug 09 05:50	0° m)	25-3945
max. Earth dist. asc. node	14092 Oct 05 16:02 14092 Oct 06 08:35	25° £ 20'34	1.3388/ AU	marning got	14093 Aug 28 03:50	28° Mp 15'26	
asc. node				morning set	14093 Sep 14 05:10	0° ت 13∠0	
	14092 Oct 08 15:09	0°M₊		E d E d	14093 Sep 15 04:01		1 25021 ATT
	14002 0 + 10 02 54	20 m 11120	0025110	max. Earth dist.	14093 Sep 17 20:31	5° ₾ 01'09	1.35821 AU
superior conj	14092 Oct 10 03:54	3°M11'30	0°35'10	asc. node	14093 Sep 23 05:08	15° ≏ 27'59	
minimum elong	14092 Oct 10 02:10	3°M02'27	0°35'20		14002 G 22 20 22	1.60.0 45121	0007100
evening rise	14092 Oct 17 10:32	18°M38'04		superior conj	14093 Sep 23 20:33	16° Ω 45'21	0°06'00
	14092 Oct 23 00:22	0° ⊼ ¹	21022122	minimum elong	14093 Sep 23 20:12	16° 2 43'31	0°06'07
evening max el	14092 Nov 06 13:20	21° x 45'25	21°33'33	behind sun begin	14093 Sep 23 14:24	16° £ 14'26	
desc. node	14092 Nov 08 01:26	23°×709'03		behind sun end	14093 Sep 24 01:59	17° ≏ 12'40	
retrograde	14092 Nov 18 18:26	27° ∡ °48'46			14093 Sep 30 07:45	0°M,	
evening set	14092 Nov 21 16:33	27° ∡ *29'18		evening rise	14093 Oct 01 17:37	2°M54'21	
inferior conj	14092 Nov 30 11:57	23° ∡ 36′25			14093 Oct 17 09:52	0° ∡ ¹	
minimum elong	14092 Nov 30 05:22	23° х 45'39		evening max el	14093 Oct 19 15:16	2° ∡ 126'26	20°09'31
min. Earth dist.	14092 Nov 30 15:28		0.54479 AU	desc. node	14093 Oct 25 22:48	6° ⋌ ¹52'28	
morning rise	14092 Dec 08 18:56	19° ∡ ′47′55 –		retrograde	14093 Oct 30 06:30	7° ∡ ¹44'00	
direct	14092 Dec 12 13:39	19° ∡ 16'52 −		evening set	14093 Nov 01 08:21	7° ∡ ³32'50	
morning max el	14092 Dec 25 04:21	25° ∡ ¹20'52	22°18'34	inferior conj	14093 Nov 10 06:04	3° ∡ ³35'32	
	14092 Dec 29 10:29	0°る		minimum elong	14093 Nov 09 19:58	3° ∡ 750'34	
asc. node	14093 Jan 02 08:57	5° る 22'20		min. Earth dist.	14093 Nov 11 22:46	2° х 34′50	0.54861 AU
morning set	14093 Jan 15 19:28	0° ≈ 15′27			14093 Nov 16 22:04	30°RM	
	14093 Jan 15 16:33	0° ≈		morning rise	14093 Nov 18 06:38	29°M29'32	
				direct	14093 Nov 23 00:27	28°M40'43	
superior conj	14093 Jan 22 20:34	15° ≈ 18'11	1°26'37		14093 Nov 28 22:54	0° ∡	
minimum elong	14093 Jan 22 22:33	15° ≈ 28'42	1°27'15	morning max el	14093 Dec 06 14:37	5° ∡ ¹22'13	24°07'26
max. Earth dist.	14093 Jan 26 15:46	23° ≈ 13'38	1.34088 AU	asc. node	14093 Dec 20 06:04	23° ∡ 30′46	
	14093 Jan 30 00:49	0° ∀			14093 Dec 23 21:22	0°ಕ	
evening rise	14093 Jan 31 01:39	2° ∺ 01'01		morning set	14093 Dec 31 07:22	14° る 59'55	
desc. node	14093 Feb 04 01:11	9°) 30'49					
	14093 Feb 16 06:39	0° Υ		superior conj	14094 Jan 07 02:59	29° る 51'58	1°35'26
evening max el	14093 Mar 06 23:03	23° Y 49'19	27°01'10	minimum elong	14094 Jan 07 04:00	29° る 57'26	1°36'21
	14093 Mar 15 05:41	9° 8			14094 Jan 07 04:28	0° ≈	
retrograde	14093 Mar 20 08:03	1° 8 17'11		max. Earth dist.	14094 Jan 09 13:39	5° ≈ 09'18	1.32632 AU
	14093 Mar 25 00:50	30° ŖƳ		evening rise	14094 Jan 14 15:55	15° ≈ 46'41	
evening set	14093 Mar 26 21:28	28° Ƴ 45′08		desc. node	14094 Jan 21 21:50	29° ≈ 38′09	
min. Earth dist.	14093 Mar 30 20:10	24° Ƴ 55'19	0.65655 AU		14094 Jan 22 02:41	0° ℋ	
asc. node	14093 Mar 31 05:42	24° Y ′28'31			14094 Feb 10 22:51	0° Y	
inferior conj	14093 Apr 02 01:04	22° Y 24'04	0°34'07	evening max el	14094 Feb 17 11:50	7° Y ′08'32	27°30'39
minimum elong	14093 Apr 02 00:10	22° Y 26'39	0°33'28	retrograde	14094 Mar 03 05:51	14° Ƴ 36'16	
morning rise	14093 Apr 08 04:22	16° Ƴ 50'41		evening set	14094 Mar 10 01:25	12° Y ′09'48	
direct	14093 Apr 10 23:55	16° Ƴ 07'46		min. Earth dist.	14094 Mar 13 20:38	8° Ƴ 50'11	0.63831 AU
morning max el	14093 Apr 17 08:11	19° Y ′26′48	18°04'34	inferior conj	14094 Mar 16 12:50	6° Ƴ 04'14	-0°30'58
	14093 Apr 25 10:48	0°8		minimum elong	14094 Mar 16 13:49	6° Y 01'43	0°30'33
desc. node	14093 May 03 03:33	12° 8 13'08		asc. node	14094 Mar 18 03:11	4° Y 27'06	
morning set	14093 May 05 21:25	16° 8 40'29		morning rise	14094 Mar 23 04:29	0° Ƴ 45'19	
	14093 May 14 03:46	Π $^{\circ}0$		direct	14094 Mar 25 15:35	0° Y 15′08	
				morning max el	14094 Apr 01 01:39	3° Ƴ 32'52	17°47'57
superior conj	14093 May 20 16:28	10° Ⅲ 20′31	-1°51'16	morning set	14094 Apr 17 18:01	28° Ƴ 42'57	
minimum elong	14093 May 20 07:38	9° Ⅱ 45'46	1°51'29		14094 Apr 18 12:09	9° 8	
max. Earth dist.	14093 May 23 08:44	14° Ⅲ 32′24	1.45766 AU	desc. node	14094 Apr 20 00:10	2° 8 32'46	
	14093 Jun 02 07:30	0 \circ ∞					
evening rise	14093 Jun 05 19:02	5° 5 22'43		superior conj	14094 Apr 30 17:13	20° 8 19'39	-1°17'14
greatest brilliancy	14093 Jun 18 10:41	24° 5 641'42	-0.7m	minimum elong	14094 Apr 30 09:36	19° 8 48'46	1°17'02
	14093 Jun 22 02:01	0 $^{\circ}\Omega$		max. Earth dist.	14094 May 06 03:57	29° 8 03'14	1.44997 AU
asc. node	14093 Jun 27 03:31	6° Ω 45'58			14094 May 06 18:19	Π °0	
evening max el	14093 Jun 30 06:33	10° Ω 15'57	19°22'47	evening rise	14094 May 16 06:25	14° Ⅱ 46′14	
retrograde	14093 Jul 07 08:38	14° Ω 13'17			14094 May 26 08:40	0 \circ 50	
evening set	14093 Jul 10 23:42	12° Ω 56′50		evening max el	14094 Jun 13 09:23	24° 5 06′18	20°21'51
inferior conj	14093 Jul 16 09:10	7° Ω 05'04	3°03'55	asc. node	14094 Jun 14 00:30	24° 5 643'14	
minimum elong	14093 Jul 16 10:20	7° Ω 01'15	3°02'54	retrograde	14094 Jun 21 07:28	28° © 38'38	
min. Earth dist.	14002 I-1 17 17-22	5° Ω 18'49	0.67192 AU	evening set	14094 Jun 25 08:36	27°504'59	
IIIII. Eartii tiist.	14093 Jul 17 17:33	3 861849	0.07192 AU	evening set	14094 Juli 23 08.30	21 304 39	

inferior conj	14094 Jun 30 15:01	21° © 00'47	3°11'24	min. Earth dist.	14095 Jun 15 04:39	4° © 48'54	0.68855 AU
minimum elong	14094 Jun 30 15:10	21°500'16	3°10'23		14095 Jun 18 23:03	30°R∏	
min. Earth dist.	14094 Jul 01 09:20	19° © 58'05	0.68264 AU	morning rise	14095 Jun 20 03:56	28° Ⅱ 49'36	
morning rise	14094 Jul 05 21:25	14° © 39'07		direct	14095 Jun 25 04:04	26° Ⅱ 40′02	
direct	14094 Jul 11 10:07	12° © 13'10			14095 Jul 02 08:37	0∘ ©	
desc. node	14094 Jul 17 00:00	14° 5 09'44		desc. node	14095 Jul 03 21:14	1° 5 20'36	
morning max el	14094 Jul 22 16:08	18° © 57'17	24°14'04	morning max el	14095 Jul 05 03:31	2° © 34'00	22°44'34
	14094 Aug 01 00:19	$0^{\circ}\Omega$			14095 Jul 26 00:16	$0^{\circ}\Omega$	
	14094 Aug 21 06:15	0° ™		morning set	14095 Aug 08 02:50	20° Ω 29'08	
morning set	14094 Aug 27 03:27	9° ™ 52'35		max. Earth dist.	14095 Aug 12 18:28	28° Ω 15′08	1.40459 AU
max. Earth dist.	14094 Aug 30 19:09	16° Mp 17'55	1.38097 AU		14095 Aug 13 19:02	0° m)	
superior conj	14094 Sep 07 01:28	29° m 45'02	-0°27'23	superior conj	14095 Aug 20 14:29	12° m 00'34	-1°02'50
minimum elong	14094 Sep 07 03:21	29° m 54'06		minimum elong	14095 Aug 20 19:15	12° m) 22'10	1°02'30
8	14094 Sep 07 04:35	0∘ ⊽		asc. node	14095 Aug 27 22:14	25° m) 36'27	
asc. node	14094 Sep 10 01:41	5° ≏ 34'33			14095 Aug 30 05:51	0∘ <u>v</u>	
evening rise	14094 Sep 15 19:14	16° ≏ 54'25		evening rise	14095 Aug 30 12:12	0° ჲ 30'06	
	14094 Sep 22 15:31	0° M		evening max el	14095 Sep 15 10:59	26° ≙ 11'17	18°25'45
evening max el	14094 Oct 02 07:24	13°M56'03	19°06'41	•	14095 Sep 21 23:34	0° M	
retrograde	14094 Oct 11 07:33	18° M 27'09		retrograde	14095 Sep 23 03:55	0°M05'27	
desc. node	14094 Oct 12 20:12	18° ™ 19'52			14095 Sep 24 08:36	30°Ŗ Ω	
evening set	14094 Oct 13 04:18	18° ™ 16′20		evening set	14095 Sep 25 04:19	29° ჲ 50'08	
inferior conj	14094 Oct 21 15:05	14°Ml02'58	-2°46'06	desc. node	14095 Sep 29 17:41	27° ≏ 38'18	
minimum elong	14094 Oct 21 08:03	14°M14'55	2°42'47	inferior conj	14095 Oct 02 21:32	25° ≏ 16′01	-1°00'14
min. Earth dist.	14094 Oct 24 09:52	12°M09'42	0.56118 AU	minimum elong	14095 Oct 02 19:13	25° ≏ 20'40	0°58'56
morning rise	14094 Oct 29 09:08	9°M23'52		min. Earth dist.	14095 Oct 06 03:40	22° ≙ 41'14	0.58012 AU
direct	14094 Nov 03 22:46	8°M12'00		morning rise	14095 Oct 10 06:38	19° ≏ 59'21	
morning max el	14094 Nov 18 01:10	15°M23'08	25°50'26	direct	14095 Oct 16 11:07	18° ≏ 20'43	
	14094 Nov 29 18:48	0° ∡ ¹		morning max el	14095 Oct 30 18:32	25° ≏ 55'48	27°09'15
asc. node	14094 Dec 07 03:05	12° ∡ 18'40			14095 Nov 03 14:32	0° M	
morning set	14094 Dec 15 18:41	29° ∡ ³38'55			14095 Nov 23 03:58	0° ∡	
	14094 Dec 15 22:36	8°0		asc. node	14095 Nov 23 23:59	1° ∡ ³35′52	
		_		morning set	14095 Nov 30 03:43	14° ₹ 08'03	
superior conj	14094 Dec 22 12:58	14° る 32'45	1°38'02				
minimum elong	14094 Dec 22 12:52	14°る32'16	1°39'04	superior conj	14095 Dec 07 00:30	29° ⋌ 15'01	1°34'39
max. Earth dist.	14094 Dec 23 18:10	17° ठ 14'34	1.31655 AU	minimum elong	14095 Dec 06 23:24	29° × ⁷ 08'54	1°35'38
evening rise	14094 Dec 29 14:43	29° る 52'31		max. Earth dist.	14095 Dec 07 02:10	29° ₹ 24'23	1.31184 AU
JJ.	14094 Dec 29 16:09	0° ≈ 19° ≈ 25'28			14095 Dec 07 08:33	0°る 14°る12'28	
desc. node	14095 Jan 08 18:33 14095 Jan 15 04:28	19°≈25°28 0° ∺		evening rise	14095 Dec 13 19:35 14095 Dec 21 16:40	14° ⊙ 12′28 0° ≈	
evening max el	14095 Jan 30 21:26	0 X 19° ¥ 53'19	27020140	desc. node	14095 Dec 26 15:23	0 ≈ 8°≈44'50	
retrograde	14095 Feb 13 19:39	19 X 33 19 27° ¥ 14′28	21 29 40	desc. Hode	14096 Jan 11 04:10	0°)	
evening set	14095 Feb 20 16:51	25°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\		evening max el	14096 Jan 13 01:07	0) 1°) 51'44	26°54'34
min. Earth dist.	14095 Feb 24 11:13	23°\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\)\(\	0.61753 AU	retrograde	14096 Jan 27 00:27	9° ∺ 03'48	20 34 34
inferior conj	14095 Feb 27 12:19	19°) 18'46		evening set	14096 Feb 02 16:30	7° ¥ 10′51	
minimum elong	14095 Feb 27 16:05	19° X 10'07		min. Earth dist.	14096 Feb 06 15:11		0.59559 AU
asc. node	14095 Mar 05 00:40	15°) €02'01	1 13 30	inferior conj	14096 Feb 09 19:56	1° ¥ 58'17	
morning rise	14095 Mar 06 18:15	14°) 17'26		minimum elong	14096 Feb 10 02:55	1°){ 44'17	
direct	14095 Mar 08 22:47	13°) € 56′23			14096 Feb 12 09:25	30°R ≈	
morning max el	14095 Mar 15 18:45	17° ¥ 23′25	17°49'09	morning rise	14096 Feb 17 16:33	27° ≈ 17'35	
C	14095 Mar 24 19:15	0° Υ		direct	14096 Feb 19 17:17	27° ≈ 02'11	
morning set	14095 Mar 31 12:30	11° Y 46'51		asc. node	14096 Feb 19 22:07	27°≈02'20	
desc. node	14095 Apr 06 20:42	23° Y ′01'23			14096 Feb 26 10:50	0° ∀	
	14095 Apr 10 21:33	0°8		morning max el	14096 Feb 27 08:01	0°) 49′06	18°09'18
				morning set	14096 Mar 13 22:56	25°) 34′21	
superior conj	14095 Apr 11 17:17	1° 8 24'03	-0°37'49	-	14096 Mar 16 07:39	0° Y	
minimum elong	14095 Apr 11 13:44	1° 8 08'55	0°37'43				
max. Earth dist.	14095 Apr 18 20:10	13° 8 12'56	1.43576 AU	superior conj	14096 Mar 23 16:41	13° Y ′32'57	0°00'11
evening rise	14095 Apr 25 22:18	24° 8 28'42		minimum elong	14096 Mar 23 16:41	13° Y 32'57	0°00'03
	14095 Apr 29 12:12	Π °0		behind sun begin	14096 Mar 23 09:19	12° Y 59'59	
	14095 May 20 10:36	0 \circ \odot		behind sun end	14096 Mar 24 00:02	14° Y 05'51	
evening max el	14095 May 27 06:21		21°33'10	desc. node	14096 Mar 23 17:13	13° Y 35'25	
asc. node	14095 May 31 21:35	11° © 45'59		max. Earth dist.	14096 Mar 31 07:36	26° Y 46'55	1.41656 AU
retrograde	14095 Jun 05 05:59	13° © 11'20			14096 Apr 02 05:53	0°8	
evening set	14095 Jun 09 17:51	11° 5 21'00		evening rise	14096 Apr 05 06:57	4° 8 58'38	
inferior conj	14095 Jun 14 23:48	5° © 05'50	3°07'22	_	14096 Apr 21 17:56	0°Щ	
minimum elong	14095 Jun 14 22:59	5° ॐ 08'39	3°06'15	evening max el	14096 May 08 22:44	21° Ⅱ 46′58	22°52'15

Section 1969	aga mada	14006 May 17 19:45	27° I I38'09		ratra ara da	14007 May 02, 20:10	12° ∏ 17'24	
	asc. node	14096 May 17 18:45			retrograde	14097 May 02 20:10		
inferior 1000 May 29 09.23 100 Februs 29 09.24 100 Februs 29 09.25 107 1214 st. 6850 AU min. Earth dist. 400 Mod May 29 01.27 107 1214 st. 6850 AU min. Earth dist. 400 Mod May 29 01.27 107 1214 st. 6850 AU min. Earth dist. 400 Mod May 18 16 13 37 120 st. 200 20 st. direct 1000 faul 0 18 01.23 117 1270 morning rate 1400 faul 18 10.23 17 1270 st. morning rate 1400 faul 18 01.23 17 1270 st. morning rate 1400 faul 18 01.23 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 01.22 17 1270 st. morning rate 1400 faul 18 12.22 17 1270 st. morning rate 1400 faul 18 16.22 17 1270 st. morning rate 1400 faul 18 16.22 17 1270 st. 12 1270 st. morning rate 1400 faul 18 16.22 17 1270 st. 12 1270 st. morning rate 14000 faul 18 16.22 </td <td>•</td> <td>•</td> <td></td> <td></td> <td></td> <td>•</td> <td></td> <td></td>	•	•				•		
minimathodes in minimathodes in Land Most 20 975 679274 by 197034 by 197044 by 197041 by 197045	•	•		2052140	•	•		0.69605 ATT
min Inablas of Monos And 91 (1992) 41964 48 (1995) 6896 AU of 18 (1992) minimum clame (1997) May (1 11) 14 (1997) 3710 (1992) 1970 (1992) <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
	C	•			3	,		
diese 4498 for 18 16123 1971 700 morning mach 14099 May 20 1046 2752333 Control dess. note 14096 fair 18 1623 1971 302 morning mack 14097 May 20 1046 70°T 170°S 2000 70°S 14097 May 20 1046 70°T 170°S 2000 70°S 14097 May 20 1046 70°T 170°S 20°S 10°S 14097 May 20 1046 70°T 170°S 20°S 10°S 14097 May 20 1046 70°T 170°S 14097 May 20 1046 14097 May 20 1046 14097 May 20 1046 14097 May 20 1046 14097 May 20 1049 14097 May 20 1049 14097 May 20 1044		,		0.08900 AU	minimum clong	•		2 20 34
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inferior conj 14097 Jan 21 08:08 13°≈52'07 -4°34'27 min. Earth dist. 14097 Dec 30 20:16 26°€313'21 0.55744 AU minimum elong 14097 Jan 21 17:05 13°≈36'34 4°31'08 inferior conj 14098 Jan 01 23:28 24°€55'17 -5°38'05 morning rise 14097 Jan 31 18:35 9°≈33'23 minimum elong 14098 Jan 02 06:00 24°€45'19 5°36'09 asc. node 14097 Feb 05 19:33 10°≈44'13 direct 14098 Jan 10 13:17 20°€56'08 13°25'60'08 14097 Feb 09 13:24 13°≈37'24 18°50'12 morning max el 14098 Jan 13 00:29 20°€40'20 14097 Feb 20 16:50 0°€ 14097 Feb 20 16:50 0°€ 18°50'12 morning max el 14098 Jan 23 16:54 26°€01'56 19°53'44 morning set 14097 Feb 25 20:19 9°¥50'06 morning set 14098 Jan 27 03:15 0°≈ 14098 Jan 27 03:15 0°≈ 14098 Jan 27 03:15 0°≈ 14098 Jan 27 03:15 0°∞ 14098 Jan 27 03:15 0°∞ 14098 Jan 27 03:15 0°∞ 0°∞ 14098 Jan 27 03:15 0°∞ 0°∞ 0°∞ 14098 Jan 27 03:15 <	evening set	14097 Jan 13 20:14	18° ≈ 32'40			14097 Dec 21 03:56	• -	
minimum elong	min. Earth dist.	14097 Jan 18 09:25	15° ≈ 54'41	0.57459 AU	evening set	14097 Dec 25 00:34		
morning rise 14097 Jan 29 16:47 9°≈33'23 minimum elong 14098 Jan 02 06:00 24°舌45'19 5°36'09 direct 14097 Jan 31 18:35 9°≈20'00 morning rise 14098 Jan 10 13:17 20°亏56'08 asc. node 14097 Feb 05 19:33 10°≈44'13 direct 14098 Jan 13 00:29 20°亏40'20 morning max el 14097 Feb 09 13:24 13°≈37'24 18°50'12 morning max el 14098 Jan 23 06:43 25°亏36'52 19°53'44 14097 Feb 20 16:50 0°升 asc. node 14098 Jan 23 06:43 25°亏36'52 19°53'44 14097 Feb 25 20:19 9°升550'06 morning set 14097 Feb 25 20:19 9°升50'06 morning set 14098 Feb 10 01:00 24°≈23'26 morning minimum elong 14097 Mar 06 11:17 26°升3'34 0°33'03 morning set 14098 Feb 12 19:04 0°升 minimum elong 14097 Mar 06 13:19 26°升4'3'21 0°32'54 superior conj 14097 Mar 10 13:44 4°↑10'30 minimum elong 14098 Feb 17 20:32 10°升13'33 0°59'18 desc. node 14097 Mar 10 13:44 4°↑10'30 minimum elong 14098 Feb 23 21:01 21°升50'57 1.37194 AU evening rise 14097 Mar 17 12:43 16°↑24'06 desc. node 14098 Feb 27 14:37 28°升4'3'17 evening rise 14097 Mar 25 21:06 0°号 evening rise 14098 Feb 27 14:37 28°升4'3'3 14097 Mar 25 21:06 0°号 evening rise evening rise 14098 Feb 27 14:37 28°升4'3'3 14097 Mar 25 21:06 0°号 evening rise 14098 Feb 28 08:27 0°° 14:09° 14:	inferior conj	14097 Jan 21 08:08	13° ≈ 52'07	-4°34'27	min. Earth dist.	14097 Dec 30 20:16	26° る 13'21	0.55744 AU
direct 14097 Jan 31 18:35 9°≈20'00 morning rise 14098 Jan 10 13:17 20°₹56'08 asc. node 14097 Feb 05 19:33 10°≈44'13 direct 14098 Jan 13 00:29 20°₹40'20 morning max el 14097 Feb 09 13:24 13°≈37'24 18°50'12 morning max el 14098 Jan 23 06:43 25°₹36'52 19°53'44 asc. node 14098 Jan 23 16:54 26°₹01'56 morning set 14097 Feb 25 20:19 9°¥50'06 morning set 14098 Feb 10 01:00 24°≈23'26 superior conj 14097 Mar 06 11:17 26°¥33'42 0°33'03 morning set 14098 Feb 10 01:00 24°≈23'26 superior conj 14097 Mar 06 13:19 26°¥43'21 0°32'54 asc. node 14098 Feb 17 20:32 10°¥13'33 0°59'18 desc. node 14097 Mar 10 13:44 4°Ŷ10'30 minimum elong 14098 Feb 17 23:14 10°¥26'58 0°59'22 max. Earth dist. 14097 Mar 13 14:39 9°Ŷ37'15 1.39445 AU max. Earth dist. 14098 Feb 25 10:14 24°¥43'17 evening rise 14097 Mar 15 12:43 16°Ŷ24'06 desc. node 14098 Feb 27 14:37 28°¥40'33 14097 Mar 25 21:06 0°₹ evening rise 14098 Feb 28 08:27 0°Ŷ sevening rise 14098 Feb 28 08:27 0°Ŷ sevening rise 14098 Feb 28 08:27 0°Ŷ	•	14097 Jan 21 17:05	13° ≈ 36'34	4°31'08				
asc. node 14097 Feb 05 19:33 10°≈44'13 direct 14098 Jan 13 00:29 20°舌40'20 morning max el 14097 Feb 09 13:24 13°≈37'24 18°50'12 morning max el 14098 Jan 23 06:43 25°弓36'52 19°53'44 asc. node 14098 Jan 23 16:54 26°弓01'56 morning set 14097 Feb 25 20:19 9°米50'06 morning set 14097 Feb 25 20:19 9°米50'06 morning set 14098 Feb 10 01:00 24°≈23'26 superior conj 14097 Mar 06 11:17 26°升33'42 0°33'03 morning set 14098 Feb 12 19:04 0°升 morning set 14097 Mar 06 13:19 26°升43'21 0°32'54 14097 Mar 08 07:16 0°Ŷ superior conj 14097 Mar 10 13:44 4°Ŷ10'30 minimum elong 14098 Feb 17 20:32 10°升13'33 0°59'18 desc. node 14097 Mar 10 13:44 4°Ŷ10'30 minimum elong 14098 Feb 17 23:14 10°升26'58 0°59'22 max. Earth dist. 14097 Mar 13 14:39 9°Ŷ37'15 1.39445 AU max. Earth dist. 14098 Feb 25 10:14 24°升43'17 evening rise 14097 Mar 17 12:43 16°Ŷ24'06 desc. node 14098 Feb 27 14:37 28°升40'33 14097 Mar 25 21:06 0°譽 evening rise 14098 Feb 28 08:27 0°Ŷ	morning rise	14097 Jan 29 16:47			-			5°36'09
Morning max el 14097 Feb 09 13:24 13°≈37'24 18°50'12 morning max el 14098 Jan 23 06:43 25°♂36'52 19°53'44 asc. node 14098 Jan 23 16:54 26°♂01'56 asc. node 14098 Jan 23 16:54 26°♂01'56 asc. node 14098 Jan 27 03:15 0°≈	direct	14097 Jan 31 18:35	9° ≈ 20'00		morning rise	14098 Jan 10 13:17		
morning set 14097 Feb 20 16:50 0° ★ asc. node 14098 Jan 23 16:54 26° ₹01'56 14097 Feb 25 20:19 9° ₹50'06 14098 Jan 27 03:15 0° ≈ morning set 14097 Feb 25 20:19 9° ₹50'06 14098 Feb 10 01:00 24° ≈23'26 superior conj 14097 Mar 06 11:17 26° ₹33'42 0°33'03 14098 Feb 12 19:04 0° ₹ superior conj 14097 Mar 06 13:19 26° ₹43'21 0°32'54 14097 Mar 08 07:16 0° ♀ superior conj 14098 Feb 17 20:32 10° ₹13'33 0°59'18 desc. node 14097 Mar 10 13:44 4° ♀10'30 minimum elong 14098 Feb 17 23:14 10° ₹26'58 0°59'22 max. Earth dist. 14097 Mar 13 14:39 9° ♀37'15 1.39445 AU max. Earth dist. 14098 Feb 23 21:01 21° ₹50'57 1.37194 AU evening rise 14097 Mar 17 12:43 16° ♀24'06 desc. node 14098 Feb 25 10:14 24° ₹43'17 14097 Mar 25 21:06 0° ₹ evening rise 14098 Feb 28 08:27 0° ♀ €		14097 Feb 05 19:33	10° ≈ 44′13			14098 Jan 13 00:29		
morning set 14097 Feb 25 20:19 9°₹50′06 morning set 14098 Jan 27 03:15 0°≈ superior conj 14097 Mar 06 11:17 26°₹33′42 0°33′03 14098 Feb 12 19:04 0°₹ minimum elong 14097 Mar 06 13:19 26°₹43′21 0°32′54 desc. node 14097 Mar 10 13:44 4°Ŷ10′30 minimum elong 14098 Feb 17 20:32 10°₹13′33 0°59′18 max. Earth dist. 14097 Mar 13 14:39 9°Ŷ37′15 1.39445 AU max. Earth dist. 14098 Feb 23 21:01 21°₹50′57 1.37194 AU evening rise 14097 Mar 17 12:43 16°Ŷ24′06 desc. node 14098 Feb 25 10:14 24° ₹43′17 14097 Mar 25 21:06 0°8 evening rise 14098 Feb 28 08:27 0°Ŷ ### 14097 Mar 16 08:45 0°¶ ### 14098 Feb 28 08:27 0°Ŷ ### 14098 Feb 28 08:27 0°Ŷ ### 14098 Feb 28 08:27 0°Ŷ	morning max el	14097 Feb 09 13:24		18°50'12	morning max el			19°53'44
morning set 14098 Feb 10 01:00 24°≈23'26 24°					asc. node			
superior conj 14097 Mar 06 11:17 26° ★33'42 0°33'03 14098 Feb 12 19:04 0° ★ Υ minimum elong 14097 Mar 06 13:19 26° ★43'21 0°32'54 14097 Mar 08 07:16 0° Υ superior conj 14098 Feb 17 20:32 10° ★13'33 0°59'18 desc. node 14097 Mar 10 13:44 4° Υ10'30 minimum elong 14098 Feb 17 23:14 10° ★26'58 0°59'22 max. Earth dist. 14097 Mar 13 14:39 9° Υ37'15 1.39445 AU max. Earth dist. 14098 Feb 23 21:01 21° ★50'57 1.37194 AU evening rise 14097 Mar 25 21:06 0° ★ evening rise 14098 Feb 27 14:37 28° ★40'33 evening rise 14097 Apr 16 08:45 0° ★ Evening rise 14098 Feb 28 08:27 0° Υ 0° Υ	morning set	14097 Feb 25 20:19	9° ∺ 50'06					
minimum elong 14097 Mar 06 13:19 26° χ 43'21 0°32'54 desc. node 14097 Mar 10 13:44 4° γ 10'30 superior conj 14098 Feb 17 20:32 10° χ 13'33 0°59'18 max. Earth dist. 14097 Mar 13 14:39 9° γ 37'15 1.39445 AU max. Earth dist. 14098 Feb 17 23:14 10° χ 26'58 0°59'22 evening rise 14097 Mar 17 12:43 16° γ 24'06 desc. node 14098 Feb 25 10:14 24° χ 43'17 14097 Mar 25 21:06 0° χ evening rise 14098 Feb 27 14:37 28° χ 40'33 14097 Mar 25 21:06 0° χ 14098 Feb 28 08:27 0° γ 0° γ 14098 Feb 28 08:27 0° γ					morning set			
14097 Mar 08 07:16 0°Υ superior conj 14098 Feb 17 20:32 10°\tau13'33 0°59'18 desc. node 14097 Mar 10 13:44 4°\tau10'30 minimum elong 14098 Feb 17 23:14 10°\tau26'58 0°59'22 max. Earth dist. 14097 Mar 13 14:39 9°\tau37'15 1.39445 AU max. Earth dist. 14098 Feb 23 21:01 21°\tau50'57 1.37194 AU evening rise 14097 Mar 17 12:43 16°\tau24'06 desc. node 14098 Feb 25 10:14 24°\tau43'17 14097 Mar 25 21:06 0°\tau3 evening rise 14098 Feb 28 08:27 0°\tau4 14097 Apr 16 08:45 0°\tau4 evening rise 14098 Feb 28 08:27 0°\tau4						14098 Feb 12 19:04	0° ∺	
desc. node 14097 Mar 10 13:44 4°\gamma 10 13:44 10°\gamma 10 13:44 10°\gamma 10 13:44 10°\gamma 10°\gamma 10 10°\gamma 10 10°\gamma 10 10°\gamma 10 10°\gamma 10 10°\gamma 10 10°\gamma 1	minimum elong			0°32'54			10011	
max. Earth dist. 14097 Mar 13 14:39 9°Υ37'15 1.39445 AU max. Earth dist. 14098 Feb 23 21:01 21°\£50'57 1.37194 AU evening rise 14097 Mar 17 12:43 16°Υ24'06 desc. node 14098 Feb 25 10:14 24°\£43'17 14097 Mar 25 21:06 0°\Ε evening rise 14098 Feb 27 14:37 28°\£40'33 14097 Apr 16 08:45 0°\Ε 14098 Feb 28 08:27 0°\Υ	_							
evening rise 14097 Mar 17 12:43 16°\begin{array}{cccccccccccccccccccccccccccccccccccc					_			
14097 Mar 25 21:06 0°♥ evening rise 14098 Feb 27 14:37 28°₭40'33 14097 Apr 16 08:45 0°耳 14098 Feb 28 08:27 0°♥				1.39445 AU				1.37194 AU
14097 Apr 16 08:45 0° Ⅱ 14098 Feb 28 08:27 0° Y	evening rise							
<u>.</u>					evening rise			
evening max ei 14097 Apr 21 12:44 5°Щ39′26 24°13′20 14098 Mar 19 05:15 0° ठ		•		0.404.000.0				
	evening max el	1409 / Apr 21 12:44	5°Щ39'26	24~13°20		14098 Mar 19 05:15	0° 0	

evening max el	14098 Apr 04 02:19	19° 8 32'37	25°29'23		14099 Mar 14 10:48	0° 8	
retrograde	14098 Apr 16 09:17	26° 8 38'41		evening max el	14099 Mar 17 16:10	3° 8 20'47	26°33'02
asc. node	14098 Apr 21 13:24	24° 8 47'03		retrograde	14099 Mar 30 17:04	10° 8 43'11	
evening set	14098 Apr 22 07:22	24° 8 11'30		evening set	14099 Apr 06 01:34	8° 8 11'16	
min. Earth dist.	14098 Apr 26 14:54	19° 8 27'56	0.67794 AU	asc. node	14099 Apr 08 10:48	5° 8 56'16	
inferior conj	14098 Apr 28 00:09	17° 8 40'53	1°52'37	min. Earth dist.	14099 Apr 10 03:10	4° 8 02'34	0.66554 AU
minimum elong	14098 Apr 27 22:02	17° 8 47'43	1°51'15	inferior conj	14099 Apr 12 00:59	1° 8 45'05	1°06'11
morning rise	14098 May 03 13:09	11° 8 49'00		minimum elong	14099 Apr 11 23:24	1° 8 49'49	1°05'10
direct	14098 May 07 00:49	10° 8 39'13			14099 Apr 13 12:39	30° ₹Ƴ	
morning max el	14098 May 13 22:07	14° 8 24'00	19°05'23	morning rise	14099 Apr 17 22:17	26° Ƴ 04'24	
desc. node	14098 May 24 12:18	28° 8 02'39		direct	14099 Apr 20 23:29	25° Y 12'23	
	14098 May 25 20:06	Π $^{\circ}0$		morning max el	14099 Apr 27 10:05	28° Ƴ 36'56	18°21'57
greatest brilliancy	14098 May 26 23:22	1° Ⅱ 41'43	-0.7m		14099 Apr 28 18:02	9° 8	
morning set	14098 Jun 06 11:04	17° Ⅱ 43'42		desc. node	14099 May 11 09:04	17° 8 57'55	
	14098 Jun 14 09:07	0ංම		morning set	14099 May 17 12:21	27° 8 40'52	
max. Earth dist.	14098 Jun 20 02:09	8° © 54'49	1.45490 AU		14099 May 18 23:26	0°Щ	
superior conj	14098 Jun 22 19:44	13° © 12'35	-2°13'39	superior conj	14099 Jun 02 04:03	22° Ⅱ 18'55	-2°04'55
minimum elong	14098 Jun 22 20:24	13°915'12	2°14'42	minimum elong	14099 Jun 01 21:19	21° Ⅲ 52'36	2°05'36
C	14098 Jul 03 08:09	$0^{\circ}\Omega$		max. Earth dist.	14099 Jun 02 22:13	23° Ⅲ 29'46	1.45889 AU
evening rise	14098 Jul 07 14:57	6° Ω 57'50			14099 Jun 07 02:16	0°©	
asc. node	14098 Jul 18 12:11	24° Ω 31'15		evening rise	14099 Jun 18 02:17	17° © 11'48	
	14098 Jul 22 05:13	0° m)			14099 Jun 26 06:51	0°N	
evening max el	14098 Jul 27 02:15	5° m 55'19	18°21'12	greatest brilliancy	14099 Jun 27 22:05	2° Ω 31'21	-0.8m
retrograde	14098 Aug 02 11:34	9° m) 19'44	10 21 12	asc. node	14099 Jul 05 08:59	13° Ω 27'24	0.0111
evening set	14098 Aug 05 12:13	8° m) 29'05		evening max el	14099 Jul 10 13:20	19° Ω 39'53	18°55'29
inferior conj	14098 Aug 11 08:45	2° m/59'40	2°24'11	retrograde	14099 Jul 17 06:53	23° Ω 21'34	10 00 2)
minimum elong	14098 Aug 11 11:06	2° m/ 52'45	2°23'02	evening set	14099 Jul 20 16:35	22° Ω 14'39	
min. Earth dist.	14098 Aug 13 15:43	0° m) 19'25	0.64619 AU	inferior conj	14099 Jul 26 05:07	16° Ω 30'24	2°53'43
mm. Bartii dist.	14098 Aug 13 22:37	30°RΩ	0.01017110	minimum elong	14099 Jul 26 06:49	16°Ω25'00	2°52'39
morning rise	14098 Aug 17 08:36	26° Ω 39'15		min. Earth dist.	14099 Jul 27 21:40	14°Ω22'01	0.66377 AU
desc. node	14098 Aug 20 10:19	24°Ω45'26		morning rise	14099 Jul 31 20:18	10°Ω05'41	0.00377710
direct	14098 Aug 23 21:51	24°Ω02'05		direct	14099 Aug 07 02:01	7° Ω 26'32	
direct	14098 Sep 04 11:05	0° m		desc. node	14099 Aug 07 07:47	7° Ω 26'45	
morning max el	14098 Sep 04 11:05 14098 Sep 06 12:56	1° m 59'31	27023145	morning max el	14099 Aug 07 07:47 14099 Aug 20 00:12		26°23'35
morning max er	14098 Sep 00 12:30 14098 Sep 27 10:45	0∘ ⊽	21 23 43	morning max er	14099 Aug 20 00:12 14099 Sep 01 05:14	0°m)	20 23 33
morning set	14098 Oct 11 20:35	0 = 25° £ 39'43			14099 Sep 01 05:14 14099 Sep 20 05:59	0∘ ত الأس	
morning set	14098 Oct 11 20:55	0° M		morning set	14099 Sep 24 03:39	ა _ 8° ჲ 30'31	
asc. node	14098 Oct 14 10:33	1° M L07'04		morning set max. Earth dist.	14099 Sep 24 22:03 14099 Sep 28 19:44		1.34662 AU
max. Earth dist.	14098 Oct 14 14:11 14098 Oct 16 09:27		1.32994 AU	asc. node	14099 Scp 28 19:44 14099 Oct 01 10:46		1.54002 AU
max. Latur dist.	14076 Oct 10 07.27	י וניסטוו	1.52))+ AU	asc. node	140)) Oct 01 10.40	21 -13 00	
superior conj	14098 Oct 20 01:15	12°MJ31'39	0°49'40	superior conj	14099 Oct 03 23:05	26° ≏ 20'55	0°23'24
minimum elong	14098 Oct 19 23:08	12°ML20'16	0°49'55	minimum elong	14099 Oct 03 21:50	26° ₽ 14'26	0°23'30
evening rise	14098 Oct 27 02:02	27°M40'52		-	14099 Oct 05 17:19	0° M .	
	14098 Oct 28 04:15	0° ∡ ¹		evening rise	14099 Oct 11 11:09	12°ML03'27	
	14098 Nov 14 18:33	0°₹			14099 Oct 20 16:39	0° ∡ ¹	
desc. node	14098 Nov 16 06:38	1° る 41'59		evening max el	14099 Oct 30 13:05	13° ∡ ³31'57	20°55'20
evening max el	14098 Nov 17 19:02	3° る 15'29	22°29'32	desc. node	14099 Nov 03 03:55	16° ∡ ³34′20	
retrograde	14098 Nov 30 16:16	9° ප 38'39		retrograde	14099 Nov 11 02:48	19° ∡ 17′04	
evening set	14098 Dec 04 08:37	9° る 08'59		evening set	14099 Nov 13 14:30	19° ∡ '02'17	
min. Earth dist.	14098 Dec 12 02:40	5° る 39'34	0.54694 AU	inferior conj	14099 Nov 22 12:32	15° ∡ ′08'50	-5°17'31
inferior conj	14098 Dec 12 21:23	5°₹13'13	-5°57'45	minimum elong	14099 Nov 22 03:29	15° ∡ ′21'43	5°14'41
minimum elong	14098 Dec 12 19:47	5° る 15'28		min. Earth dist.	14099 Nov 23 08:28	14° ∡ ¹40'29	
morning rise	14098 Dec 21 08:10	1° ට 25'45		morning rise	14099 Nov 30 16:45	11° √ 15'48	
direct	14098 Dec 24 14:07	1° ට 01'50		direct	14099 Dec 04 21:31	10° х 38′02	
morning max el	14099 Jan 05 09:24	6° පි 41'10	21°20'12	morning max el	14099 Dec 17 23:36	16° ₹ ⁷ 58'12	23°04'32
asc. node	14099 Jan 10 14:10	12°る39'30		asc. node	14099 Dec 28 11:21	0°る19'08	
	14099 Jan 20 22:37	0°≈			14099 Dec 28 06:31	00で30 0°る	
morning set	14099 Jan 25 10:11	9° ≈ 06'31		morning set	14100 Jan 09 21:38	23° る 52'11	
	1.055 Juli 25 10.11	, , 4.0051			14100 Jan 12 18:04	0° ≈	
superior conj	14099 Feb 01 16:28	24° ≈ 21'43					
minimum elong	14099 Feb 01 18:53	24°≈34'15	1°19'01	superior conj	14100 Jan 16 19:50	8°≈48'24	1°31'08
_	14099 Feb 04 10:27	0° ∀		minimum elong	14100 Jan 16 21:26	8°≈56'58	1°31'55
max. Earth dist.	14099 Feb 06 07:33		1.35127 AU	max. Earth dist.	14100 Jan 20 01:06	15° ≈ 38'11	1.33411 AU
evening rise	14099 Feb 10 09:23	11° ¥ 38′52		evening rise	14100 Jan 24 17:25	25°≈09'19	
desc. node	14099 Feb 12 06:46	15°) 10′01			14100 Jan 27 05:24	0° \	
	14099 Feb 20 19:59	0 ° Υ		desc. node	14100 Jan 30 03:21	5° ¥ 25'50	

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	14100 Feb 14 07:20	0° Y		minimum elong	14101 Jan 01 04:36	23° る 29'15	1°38'16
evening max el	14100 Feb 28 05:31	16°Υ53'00	27°16'57	max. Earth dist.	14101 Jan 03 01:57	27° る 37'28	1.32148 AU
•	14100 Pcb 28 03:31 14100 Mar 13 18:41	24°Υ21'34	27 10 37	max. Earth dist.	14101 Jan 04 04:16	27 ⊙ 3728	1.32146 AU
retrograde							
evening set	14100 Mar 20 11:22	21° Υ 50'47		evening rise	14101 Jan 08 11:39	9° ≈ 04'19	
min. Earth dist.	14100 Mar 24 08:18	18° Y 14'37	0.64924 AU	desc. node	14101 Jan 17 00:02	25°≈25'33	
asc. node	14100 Mar 26 08:16	16° Y 03′16			14101 Jan 19 14:52	0° ∀	
inferior conj	14100 Mar 26 18:17	15° Ƴ 35'35	0°07'59	evening max el	14101 Feb 10 17:00	29° ∺ 58'21	27°34'12
minimum elong	14100 Mar 26 18:04	15° Ƴ 36′13	0°07'44		14101 Feb 10 17:42	0 ° Υ	
transit middle	14100 Mar 26 18:04	15° Ƴ 36'13	0°07'44	retrograde	14101 Feb 24 13:26	7° Ƴ 24'40	
transit begin	14100 Mar 26 15:24	15° Ƴ 43'34		evening set	14101 Mar 03 10:24	5° Y 02'26	
transit end	14100 Mar 26 20:44	15° Y 28'53		min. Earth dist.	14101 Mar 07 04:38	1° Ƴ 54'26	0.62974 AU
morning rise	14100 Apr 02 02:34	10° Y ′08'16			14101 Mar 09 03:22	30° R ₩	
direct	14100 Apr 04 18:25	9° Υ 31'09		inferior conj	14101 Mar 10 01:14	29°) €05'42	-1°02'04
morning max el	14100 Apr 11 02:22	12° Υ 47'55	17°55'25	minimum elong	14101 Mar 10 03:17		1°01'05
morning max er		0° 8	17 33 23	Č		26°\(\)00'37	1 01 03
	14100 Apr 23 06:52	_		asc. node	14101 Mar 13 05:44		
desc. node	14100 Apr 28 05:42	8° 8 09'53		morning rise	14101 Mar 16 22:49	23°) 54'11	
morning set	14100 Apr 28 17:36	8° 8 59'06		direct	14101 Mar 19 06:47	23° ¥ 28′26	
	14100 May 11 15:25	Π °0		morning max el	14101 Mar 25 20:08		17°46'13
					14101 Mar 28 15:33	0° Υ	
superior conj	14100 May 12 18:30	1° Ⅱ 47'46	-1°38'02	morning set	14101 Apr 11 00:13	21° Y 29'32	
minimum elong	14100 May 12 09:33	1° Ⅱ 12'13	1°38'00	desc. node	14101 Apr 15 02:17	28° Ƴ 33'40	
max. Earth dist.	14100 May 16 18:19	8° Ⅱ 05'59	1.45529 AU		14101 Apr 15 22:23	9° 8	
evening rise	14100 May 28 18:29	26° Ⅱ 42'39					
	14100 May 30 22:02	0 \circ \odot		superior conj	14101 Apr 23 04:45	12° 8 13'52	-1°00'42
greatest brilliancy	14100 Jun 12 01:59	18° © 17'12	-0.6m	minimum elong	14101 Apr 22 22:46	11° 8 49'07	1°00'29
· ·	14100 Jun 20 16:24	$0^{\circ}\Omega$		max. Earth dist.	14101 Apr 29 12:00	22° 8 27'39	1.44464 AU
asc. node	14100 Jun 22 05:54	1° Ω 49'14			14101 May 04 06:33	0°II	
evening max el	14100 Jun 23 19:22	3°Ω28'36	19°46'07	evening rise	14101 May 08 05:44	6°∏08'46	
retrograde	14100 Jul 01 05:13	7° Ω 39'57	17 1007	evening rise	14101 May 24 06:13	0°95	
evening set	14100 Jul 05 00:28	6°Ω16'05		evening max el	14101 Jun 06 19:32		20°50'57
inferior conj	14100 Jul 10 08:16	0° Ω 18'35	3°08'35	asc. node	14101 Jun 09 02:54	17 3 18 22	20 30 37
3	14100 Jul 10 08:10	0° Ω 16'07	3°07'35			19 32 4 33 22° 3 08'45	
minimum elong			3 0/33	retrograde	14101 Jun 15 04:13		
: E 4 E 4	14100 Jul 10 13:48	30°Rூ	0.67704.411	evening set	14101 Jun 19 09:44	20°528'03	2011102
min. Earth dist.	14100 Jul 11 10:32	28°950'33	0.67704 AU	inferior conj	14101 Jun 24 15:38	14°5518'51	3°11'03
morning rise	14100 Jul 15 17:08	23°554'38		minimum elong	14101 Jun 24 15:22	14°9519'47	3°09'59
direct	14100 Jul 21 12:26	21° © 21'55		min. Earth dist.	14101 Jun 25 04:11	13° © 35'23	0.68570 AU
desc. node	14100 Jul 25 05:10	22° © 13'16		morning rise	14101 Jun 29 20:44	7° © 59'00	
morning max el	14100 Aug 02 11:01	28° © 31'23	25°04'22	direct	14101 Jul 05 04:06	5° © 39'26	
	14100 Aug 03 20:58	$0^{\circ}\Omega$		desc. node	14101 Jul 12 02:27	8°538'40	
	14100 Aug 25 22:57	0° m y		morning max el	14101 Jul 15 21:31	12° © 03'41	23°35'50
morning set	14100 Sep 07 07:39	20° Mp 38'09			14101 Jul 30 06:37	0 $^{\circ}$ Ω	
max. Earth dist.	14100 Sep 10 21:17	27° Mp 06'28	1.36758 AU		14101 Aug 18 18:16	0° m ∕	
	14100 Sep 12 10:31	0∘ ⊽		morning set	14101 Aug 19 20:40	1° m 50'51	
				max. Earth dist.	14101 Aug 23 19:01	8° m 35'58	1.39102 AU
superior conj	14100 Sep 17 11:12	9° ≙ 41'08	-0°07'47				
minimum elong	14100 Sep 17 11:41	9° ≏ 43'33	0°07'37	superior conj	14101 Aug 31 09:51	22° m 23'04	-0°42'22
behind sun begin	14100 Sep 17 05:55	9° ≏ 15'10		minimum elong	14101 Aug 31 12:56	22° m 37'28	
behind sun end	14100 Sep 17 17:27	10° ≏ 11'58		· ·	14101 Sep 04 10:07	0 ° $\overline{\mathbf{v}}$	
asc. node	14100 Sep 18 07:19	11° ≏ 20'40		asc. node	14101 Sep 05 03:52	1° £ 25'36	
evening rise	14100 Sep 25 16:17	26° £ 13'54		evening rise	14101 Sep 09 14:38	10° Ω 04'30	
evening rise	14100 Sep 27 13:13	0°M		evening rise	14101 Sep 09 14:38	0°M	
avanina may al	-	24°M32'57	10040104	avanina may al	-		10046142
evening max el	14100 Oct 12 21:05		19 40 04	evening max el	14101 Sep 25 18:38		18°46'43
desc. node	14100 Oct 21 01:18	29°M21'41		retrograde	14101 Oct 04 04:21	10°M36'53	
retrograde	14100 Oct 22 19:34	29°M30'43		evening set	14101 Oct 06 01:53	10°M24'45	
evening set	14100 Oct 24 17:25	29°M20'31		desc. node	14101 Oct 07 22:47	9°M50'37	
inferior conj	14100 Nov 02 11:46	25° ™ 17'15		inferior conj	14101 Oct 14 05:37	6°M03'12	
minimum elong	14100 Nov 02 02:27	25°M31'53		minimum elong	14101 Oct 14 00:39	6°M12'14	
min. Earth dist.	14100 Nov 04 17:14		0.55290 AU	min. Earth dist.	14101 Oct 17 07:11	3°M50'01	0.56861 AU
morning rise	14100 Nov 10 09:41	20°M58'14		morning rise	14101 Oct 21 20:08	1° M L07'41	
direct	14100 Nov 15 12:06	20° M $00'26$			14101 Oct 25 04:18	30° ₹ Ω	
morning max el	14100 Nov 29 09:11	26°M55'54	24°53'16	direct	14101 Oct 27 16:51	29° ≏ 44'20	
	14100 Dec 02 08:31	0° ∡ ″			14101 Oct 30 05:48	0°M	
asc. node	14100 Dec 15 08:26	18° ∡ ′45'44		morning max el	14101 Nov 10 22:10	7° M L07'14	26°27'46
	14100 Dec 21 06:51	8°0		S	14101 Nov 27 21:17	0° ∡ 7	
morning set	14100 Dec 25 09:31	8° ප 35'10		asc. node	14101 Dec 02 05:24	7° ∡ ¹46'49	
5		•		morning set	14101 Dec 09 20:03	23° х 09'59	
superior conj	14101 Jan 01 04:04	23° る 26'16	1°37'17		14101 Dec 12 23:13	0°පි	
	Jun 01 01.0T						

superior conj	14101 Dec 16 14:56	80'80 万 °8	1°37'19
minimum elong	14101 Dec 16 14:24	8° ප 05'10	1°38'22
max. Earth dist.	14101 Dec 17 08:07	9° ට 43'54	1.31387 AU
evening rise	14101 Dec 23 13:17	23° る 16'31	
	14101 Dec 26 19:40	0°≈	
desc. node	14102 Jan 03 20:51	15° ≈ 01'49	

14102 Jan 13 11:38 0°**∀**